Rijksdienst voor Ondernemend
Nederland
Nederland
De industriële eigendom

Inleiding

Hoofdblad

Het Hoofdblad de Industriële Eigendom verschijnt iedere donderdag op de website van het Octrooicentrum Nederland.

Bezoekadres: **Octrooicentrum Nederland**
Prinses Beatrixlaan 2
2595 AL Den Haag
Postadres:
Postbus 10366
2501 HJ Den Haag
Telefoon: 088-0424002
Bankrekeningnummer:
ING 0705001296
IBAN: NL41INGB070500129
BIC: INGBNL2A

Introduction

Patent Bulletin

The Patent Bulletin appears every Thursday on the Netherlands Patent Office website.

Visiting address: **Netherlands Patent Office**
Prinses Beatrixlaan 2
2595 AL Den Haag
Postadress:
Post Office Box 10366
2501 HJ Den Haag
Telephone: +31(0)88 0424002
Bank Account Number:
ING 0705001296
IBAN: NL41INGB070500129
BIC: INGBNL2A

Inhoudsopgave	Content	Blz./Page
Rubriek NP1 Nederlandse octrooiaanvragen die zijn ingeschreven ex Rijksoctrooiwet 1995.	**Heading NP1** Netherlands patent applications which have been entered in the patent register ex NL Patent Law 1995.	8
Rubriek NP2 Ingeschreven en verleende Nederlandse octrooien ex Rijksoctrooiwet 1995.	**Heading NP2** Netherlands patents which have been entered in the patent register ex NL Patent Law 1995.	17
Rubriek NP3 Nederlandse octrooien na gedeeltelijke afstand ex artikel 63 van de Rijksoctrooiwet 1995.	**Heading NP3** Netherlands patents after partial limitation ex Article 63 of the NL Patent Law 1995.	23
Rubriek EP1 Vertaalde conclusies van Europese octrooiaanvragen.	**Heading EP1** Translations of the claims of European patent applications.	24
Rubriek EP2 Voor Nederland verleende Europese octrooien.	**Heading EP2** European patents granted for the Netherlands.	25
Rubriek EP3 Voor Nederland verleende Europese octrooien waarvoor een vertaling is ingediend ex artikel 52 lid 1 van de Rijksoctrooiwet 1995.	**Heading EP3** European patents granted for the Netherlands in which a translation was filed ex Article 52 par. 1 of the NL Patent Law 1995.	239
Rubriek EP4 Voor Nederland verleende gewijzigde Europese octrooien.	**Heading EP4** European patents granted in amended form for the Netherlands.	253
Rubriek EP5 Voor Nederland verleende gewijzigde Europese octrooien waarvoor een gewijzigde vertaling is ingediend ex artikel 52 lid 6 van de Rijksoctrooiwet 1995.	**Heading EP5** European patents granted in amended form for the Netherlands in which an amended translation was filed ex Article 52 par. 6 of the NL Patent Law 1995.	254

Rubriek SPC Aangevraagde en verleende aanvullende beschermingsertificaten (of de verlengingen van de aanvullende beschermingscertificaten).	**Heading SPC** Applications and granted Supplementary Protection Certificates (or the extensions of the Supplementary Protection Certificates).	255
Rubriek VB1 Herstelverzoeken, bezwaarschriften, beroepschriften of hoger beroepschriften ingediend ex Rijksoctrooiwet 1995. Oppositie(s) ingediend ex Europees Octrooiverdrag.	**Heading VB1** Requests for restoration and notices of objection, notices of objection to Court, notices of objection to appelate court ex NL Patent Law 1995. Opposition(s) filed ex European Patent Convention.	256
Rubriek VB2 Beslissingen genomen op herstelverzoeken, bezwaarschriften, beroepschriften of hoger beroepschriften ex Rijksoctrooiwet 1995. Oppositie(s) beslissingen ex Europees Octrooiverdrag.	**Heading VB2** Requests for restoration and notices of objection, notices of objection to Court, notices of objection to appelate court ex NL Patent Law 1995 in respect of which a decision has been taken. Oppositon(s) decisions ex European Patent Convention.	257
Rubriek MED Overige mededelingen.	**Heading MED** Other communications.	258
Rubriek VRV Verval of nietigverklaring.	**Heading VRV** Lapse or annulment.	259
Rubriek VRB Correcties op eerdere publicaties.	**Heading VRB** Corrections on earlier publications.	279
Rubriek CO Wijzigingen in het Nederlands Octrooiregister.	**Heading CO** Changes in the Netherlands Patent Register.	280
Rubriek TVH Topografieën van halfgeleiderproducten.	**Heading TVH** Depots of topographies of semi-conductor products.	283

Rubriek UP1 Europese octrooien met geregistreerde eenheidswerking.	**Heading UP1** European patents with registered Unitary Effect.	284
Rubriek UP2 Europese octrooien met geregistreerd verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie).	**Heading UP2** European patents with registered request ex Article 52a NL Patent Law 1995 (restoration of validation right).	285
Rubriek UP3 Europese octrooien met een geaccepteerd verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie) en complete validatie.	**Heading UP3** European patents with accepted ex Article 52a NL Patent Law 1995 (restoration of validation right) and validation completed.	286
Rubriek UP4 Europese octrooien met een geaccepteerd verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie) en geen complete validatie.	**Heading UP4** European patents with accepted request ex Article 52a NL Patent Law 1995 (restoration of validation right) and incomplete validation.	287
Rubriek UP5 Europese octrooien met een afgewezen verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie).	**Heading UP5** European patents with rejected request ex Article 52a NL Patent Law 1995 (restoration of validation right).	288
Rubriek UP6 Europese octrooien met een ingetrokken verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie).	**Heading UP6** European patents with withdrawn request ex Article 52a NL Patent Law 1995 (restoration of validation right).	289
Rubriek Orde van Octrooigemachtigden Inschrijvingen en uitschrijvingen ex art. 27 lid 5 Uitvoeringsbesluit van de Rijksoctrooiwet 1995.	**Heading Netherlands Institute of Patent Attorneys** Registrations and deregistrations ex Article 27 par. 5 Patent Rules of the NL Patent Law 1995.	290

Overzicht van Inid codes

INID CODES

"INID" codes worden gebruikt op het voorblad van octrooigeschriften en in octrooibulletins. INID is een acronym van Internationally agreed Numbers for the Identification of Data. De definities van INID codes worden gegeven in WIPO standaard ST. 9 (situatie van juni 2023) en staan hieronder weergegeven.

(11) Octrooinummer
(13) Soort document volgens WIPO standaard ST.16
(15) Informatie over correctie van het octrooi
(21) Octrooiaanvraagnummer
(22) Datum (datums) van indiening van de aanvra(a)g(en)
(23) Overige datums
(25) Taal waarin de gepubliceerde aanvraag oorspronkelijk werd ingediend
(26) Taal waarin de aanvraag is gepubliceerd
(30) Voorrangsgegevens
(31) Nummer(s) toegekend aan de voorrangsaanvra(a)g(en)
(32) Datum (datums) van indiening van de voorrangsaanvra(a)g(en)
(33) WIPO Standard ST.3 code die het land van herkomst identificeert dat het nummer van de voorrangsaanvraag toekent; voor internationale octrooiaanvragen die onder de PCT worden ingediend, wordt de code "WO" gebruikt.
(34) Voor indieningen van voorrangsaanvragen onder de regionale of internationale regelingen, duidt de WIPO Standard ST.3 code ten minste één land aan dat is aangesloten bij het Unieverdrag van Parijs waarvoor de regionale of internationale aanvraag werd ingediend (het oorspronkelijke land van indiening).
(40) Datum (datums) van inschrijving van de aanvraag.
(41) Datum van inschrijving van een niet onderzochte en niet verleende octrooiaanvraag

(42) Datum van inschrijving van een onderzochte octrooiaanvraag.

INID CODES

“INID” Codes are used on the front pages of patent documents and in official gazettes.“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 June 2023) and are listed below.

(11) Patent number
(13) Kind-of-document code according to WIPO standard ST.16
(15) Patent correction information
(21) Application number
(22) Date(s) of filing the application(s)

(23) Other date(s)
(25) Language in which the published application was originally filed
(26) Language in which the application is published
(30) Priority Data
(31) Number(s) assigned to priority application(s)

(32) Date(s) of filling of priority application(s)

(33) WIPO Standard ST.3 code identifying the national patent office allotting the priority application number or the organization allotting the regional priority application number: for international applications filed under the PCT, the code "WO" is used.
(34) For priority fillings under the regional or international arrangements, the WIPO Standard ST.3 Code indentifying at least one country party to the Paris Union for which the regional or international application was made.

(40) Date(s) of making available to the public.

(41) Date of making available to the public by viewing, or copying on request an unexamined patent document, on which no grant has taken place on or before the said date.
(42) Date of making available to the public by viewing, or copying on request an examined patent document, on which no grant has taken place on or before the said date.

(43) Datum waarop de octrooiaanvraag is gepubliceerd.

(44) Datum van publicatie van een onderzochte octrooiaanvraag die nog niet verleend is.

(45) Datum waarop het octrooigeschrift is uitgegeven.

(47) Datum van verlening van het octrooi.

(48) Datum waarop een correctie van een octrooi is uitgegeven.

(51) Internationale Octrooiclassificatie

(54) Korte aanduiding

(62) Nummer en indien mogelijk, de indieningsdatum van de eerdere (octrooi) aanvraag waarvan de voorliggende (octrooi) aanvraag is afgesplitst.

(68) Nummer van het basisoctrooi behorende bij het ABC.

(71) Na(a)m(en) van de aanvrager(s)

(72) Na(a)m(en) van de uitvinder(s) indien ze als zodanig bekend zijn

(73) Na(a)m(en) van de octrooihouder(s)

(74) Na(a)m(en) van de gemachtigde(n)

(75) Na(a)m(en) van uitvinder(s) die tevens aanvrager(s) zijn

(81) Aangewezen landen volgens de PCT

(83) Informatie over depots van micro-organismen

(84) Aangewezen landen bij regionale octrooien

(92) Nummer en datum van de eerste nationale vergunning voor een ABC voor een geneesmiddel of gewasbeschermingsmiddel.

(93) Nummer en datum (en indien van toepassing land van oorsprong) van de eerste EU vergunning voor een ABC voor een geneesmiddel of gewasbeschermingsmiddel.

(94) Berekende expiratiedatum van het ABC.

(95) Het product beschermd door het basisoctrooi en waarvoor (de verlenging van) het ABC is aangevraagd of verleend.

(43) Date of making available to the public by printing or similar process of an unexamined patent document, on which no grant has taken place on or before the said date.

(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) Date of making available to the public by printing or similar process of a patent document on which grant has taken place on or before the said date.

(47) Date of making available to the public by viewing, or copying on request, a patent document on which grant has taken place on or before the said date.

(48) Date of issuance of a corrected patent document.

(51) International Patent Classification

(54) Title of the invention

(62) Number and, if possible, filling date of the earlier application from which the present document has been divided out.

(68) For an SPC, number of the basic patent and/or, where appropriate, the publication number of the patent document.

(71) Name(s) of the applicant(s)

(72) Name(s) of the inventor(s) if know to be such

(73) Name(s) of grantee(s), holder(s), assignee(s) or owner(s)

(74) Name(s) of the attorney(s) or agent(s)

(75) Name(s) of inventor(s) who is (are) also applicant(s)

(81) Designated States(s) according to the PCT

(83) Information concerning the deposit of microorganisms

(84) Designated Contracting States under regional patent conventions

(92) For an SPC, number and date of the first national authorization to place the product on the market as a medicinal product or plant protection product.

(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 or plant protection product within a regional economic community.

(94) Calculated date of expiry of the SPC or the duration of the SPC.

(95) The product protected by the basic patent and in respect of which the SPC or the extension of the SPC has been applied for or granted.

Rubrieken/Headings

NP1

Nederlandse octrooiaanvragen die zijn ingeschreven ex Rijksoctrooiwet 1995. Netherlands patent applications which have been entered in the patent register ex NL Patent Law 1995.

(51) A01C 5/04
A01C 5/06
(21) 2039083
(22) 14.11.2024
(54) A target-type cave-sowing device and a control method thereof
(71) ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY
(74) ir. G.J.M. Verhees
(72) Fulong Dong
Mo Chen
Tengjiao Hong
Fengjuan Ding
Jingwei Zhang
Wenke Zha
Huanhuan Wang

(51) A01G 9/04
A01G 9/24
A01G 31/02
(21) 2035403
(22) 17.07.2023
(54) Inrichting voor het telen van gewassen in een broeikas
(71) Beheer 141 B.V.
(74) dr. ir. G.J.C. Verdijck c.s.
(72) Ronnie Arensman

(51) A01G 9/22
E06B 9/24
D03D 15/40
(21) 2038275
(22) 19.07.2024
(54) Greenhouse screen
(71) IFG Exelto NV
(74) J.M.H. Duyver lic.
(72) Tim Parrein
(31) 23186701.1
(32) 20.07.2023
(33) European Patent Office (EPO)

(51) A01G 22/20
A01G 25/00
A01B 79/02
(21) 2039194
(22) 28.11.2024
(54) PLANTING METHOD FOR DRYLAND WINTER WHEAT
(71) Northwest A&F University
(74) dr. J. van Straaten
(72) Wenbin Sun
Xiangyin Wang
Gang He
Xiaotian Mi
(31) 202411636262.7
(32) 15.11.2024
(33) China

(51) A01G 23/00
E02B 13/00
(21) 2039478
(22) 23.12.2024
(54) A RETICULATED SMALL MICRO-WETLAND BASED ON PLANTATION FOREST AND ITS CREATION METHOD
(71) NANJING UNIVERSITY RESEARCH INSTITUTE (CHANGSHU) CO., LTD.
(74) M. Schmid
(72) Jun Chen
Mingzhao Wang
Shuqing An
Xiaoguang Kang
Zhi Yu
(31) 202410714958.0
(32) 04.06.2024
(33) China

(51) A01H 1/08
A01H 1/04
(21) 2039400
(22) 19.12.2024
(54) METHOD FOR BREEDING TETRAPLOID RICE RICH IN GAMMA-AMINOBUTYRIC ACID AND HIGH IN SETTING RATE AND APPLICATION
(71) Hubei University
Wuhan Polyploid Biotechnology Co., LTD
(74) ir. W.J.J.M. Kempes
(72) Xianhua Zhang
Detian Cai
Yuchi He
Wang Wei
Zhaojian Song
(31) 202410274442.9
(32) 11.03.2024
(33) China

(51) A01H 3/04
G16B 5/00
(21) 2036588
(22) 19.12.2023
(54) A comprehensive evaluation method for salt tolerance in Zoysia Willd. accessions
(71) Tropical Crops Genetic Resources Institute, Chinese Acadamy of Tropical Agricultural Sciences
(74) ir. W.J.J.M. Kempes
(72) Pandao Liu
Guodao Liu
Linling Yan
Yiming Liu
Chunqiong Huang
Xiao He
(41) 28.01.2025
(31) 2023108524729
(32) 12.07.2023
(33) China

(51) A01H 4/00
(21) 2038028
(22) 23.06.2024
(54) UNCARIA RHYNCHOPYLLA IN-VITRO PRESERVATION METHOD
(71) GUANGXI BOTANICAL GARDEN OF MEDICINAL PLANTS
(74) dr. J. van Straaten
(72) Ying Wei
Lingyun Wan
Zhanjiang Zhang
Juan Huo
Cui Li
Ming Lei
Zhuoqiu Qiu
Linxuan Li
Ya Qin
Shixin Feng
Qianping Chen
Shugen Wei
Limei Pan
(31) 202310852641.9
(32) 12.07.2023
(33) China

(51) A01K 1/00
A01K 13/00
(21) 2035373
(22) 13.07.2023
(54) Koelinrichting en werkwijze voor het koelen van melkvee
(71) Wopa Constructiebedrijf B.V.
(74) ir. H.A. Witmans c.s.
(72) Sjaak Johannes Kolkman
Theodorus Mathias Franciscus Engelen
Johannes Wilhelmus Antonius Wopereis
(41) 28.01.2025

(51) A21D 2/00
A21D 8/02
A21D 8/04
A21D 10/00
A23L 7/104
A23L 29/00
(21) 2035390
(22) 14.07.2023
(54) SOURDOUGH STARTER HAVING A PROLONGED SHELF LIFE
(71) Sonneveld Group BV
(74) dr. ir. G.J.C. Verdijck c.s.
(72) Danny Broeders
Pedro Miguel Do Carmo Branco
Sanne Johanna Maria de Jong
Nico Mierop
Herald H.C.F. Vugs
Peter Louis Weegels
(41) 28.01.2025

(51) A23B 7/028
A23L 3/48
A23B 7/02
(21) 2037186

(22) 06.03.2024
(54) DOUBLE-CUTTING AND DOUBLE-DRYING INTEGRATED METHOD FOR PROCESSING FRESH FRUCTUS AURANTII IN PLACE OF ORIGIN
(71) Jiangxi University of Chinese Medicine
(74) ir. F.A. Geurts c.s.
(72) Lingyun Zhong
Fuyu Xu
Songhong Yang
Hengli Tong
Bin Liu
Xingmei Lu
Qi Deng
Guoyue Zhong
Shouwen Zhang
Jing Zhu
Yi Huang
Weifeng Zhu
(41) 28.01.2025
(31) 202310883283.8
(32) 18.07.2023
(33) China

(51) A23L 21/12
(21) 2039387
(22) 18.12.2024
(54) A method for preparing low-sugar plum jam
(71) Guangxi Academy of Agricultural Sciences
(74) ir. W.J.J.M. Kempes
(72) Ying Wang
Xiaodan Liao
Yanhua Wang
Yayuan Zhang
Linyan Wei
Yang Yang
Xiangrong You
Kui Zhou
Mingjuan Li
Zhanwen Huang
(31) 202411627778.5
(32) 14.11.2024
(33) China

(51) A23L 33/10
A23L 29/00
(21) 2039286
(22) 10.12.2024
(54) PREPARATION METHOD FOR AMORPHOUS COENZYME Q10 WITH IMPROVED SOLUBILITY
(71) China Agricultural University
(74) ir. M.B. Plaggenborg
(72) Yixuan Li
Chong Chen
Weibo Zhang
Siyuan Liu
Hao Zhang
Bing Fang
Martien A. Cohen Stuart
Ping Liu
Pengjie Wang
(31) 2024102649640
(32) 08.03.2024
(33) China

(51) A23L 33/175
A23L 33/115
A23L 33/15
A23L 33/16
A23L 33/125
(21) 2039039
(22) 10.11.2024
(54) FOOD COMPOSITION CAPABLE OF AMELIORATING AUTISM SOCIAL DISORDER, PREPARATION METHOD THEREFOR AND USE THEREOF
(71) Air Force Medical University
(74) P.J. Pollard B.Eng
(72) Yujiang Chen
Shengxi Wu
Yazhou Wang
Panpan Xian
Mengmeng Wang
(31) 2024104575849
(32) 16.04.2024
(33) China

(51) A41D 13/11
(21) 1044636
(22) 11.07.2023
(54) Disposable face and head mask with anti-fogging functionality
(71) SCINT BV
B.A. Mark Wilhelmus Theresia van Tilburg
(72) B.A. Mark Wilhelmus Theresia van Tilburg
Ir. Stephanus Franciscus Schilthuizen
(41) 24.01.2025

(51) A45C 5/14
B60B 33/00
(21) 2035318
(22) 10.07.2023
(54) Luggage, such as a bag or suitcase
(71) Kubus Sports B.V.
(74) mr. ir. J. van Breda c.s.
(72) Alex Paul Cretier
(41) 24.01.2025

(51) A61B 3/028
A61B 3/00
A61B 3/032
(21) 2035325
(22) 10.07.2023
(54) Method of performing an eye examination test for at least examining a visual acuity of eyes of a user.
(71) Easee Health B.V.
(74) ir. A. Blokland c.s.
(72) Robert Paulus Leendert Wisse
Marc Bastiaan Muijzer

(51) A61B 5/055
A61B 8/00
A61B 8/08
G06T 11/00
G06T 7/00
(21) 2039511
(22) 27.12.2024
(54) US-MRI fusion imaging navigation method, device, equipment, and medium
(71) Tongji Hospital of Tongji University
Shanghai University of Medicine & Health Sciences
(74) ir. W.J.J.M. Kempes
(72) min Lin
Qingming Huang
Jiasi Zhang
(31) 2024110776972
(32) 07.08.2024
(33) China

(51) A61B 17/11
A61B 17/00
A61B 17/22
(21) 2035331
(22) 10.07.2023
(54) Surgical Clip
(71) AMT Medical B.V.
(74) ir. J.C. Volmer c.s.
(72) Alexander Cornelis Elisabeth van Thoor
Glenn Bronkers
(41) 24.01.2025

(51) A61B 90/14
A61G 12/00
(21) 2039048
(22) 11.11.2024
(54) DEBRIDING AND REPAIRING DEVICE FOR LIMB WOUND
(71) The Second Affiliated Hospital of Wenzhou Medical University (Yuying Children's Hospital of Wenzhou Medical University)
(74) A. Rivière
(72) Zongwei Zhou
Xuwei Zhu
Zhijie Li
Yiheng Chen
Lilian Zhang
Zhenyu Tao
(31) 202420179519X
(32) 25.01.2024
(33) China

(51) A61G 13/10
A61B 90/00
G09B 19/24
G09B 23/30
(21) 2038105
(22) 01.07.2024
(54) MULTIFUNCTIONAL NEUROSURGERY ANATOMICAL OPERATION PLATFORM
(71) Taizhou Fourth People's Hospital
(74) dr. T. Wittop Koning PhD
(72) Jun Lu
Hongyue Huo
Jianxin Jiang
Jinhai Zhao
Xiaolin Wang
Yizhou Lu

(51) A61K 8/63
A23L 33/11
A61Q 19/00
A61K 8/67
(21) 2039384
(22) 17.12.2024
(54) AMORPHOUS PLANT STEROL WITH IMPROVED SOLUBILITY AND PREPARATION METHOD THEREOF
(71) China Agricultural University
(74) ir. M.B. Plaggenborg
(72) Juan Chen
Xiaoyu Wang
Chao Nie
Ping Liu
Hao Zhang
Yanan Sun
Yao Hu
Huiyuan Guo

(31) 202410265001.2
(32) 08.03.2024
(33) China

(51) A61K 8/87
A61K 8/73
A61K 8/04
A61K 8/92
A61Q 19/00
A61K 8/26
A61K 8/25
(21) 2035319
(22) 10.07.2023
(54) Anti-chafing product
(71) Sensineer B.V.
(74) ir. J.C. Volmer c.s.
(72) Reginald Ofori
Andrea Mitarotonda
(41) 24.01.2025

(51) A61K 35/14
A61K 39/215
A61P 31/14
(21) 2039108
(22) 18.11.2024
(54) APPLICATION OF EXOGENOUS MITOCHONDRIA IN MEDICINE FOR TREATING CORONAVIRUS DISEASE 2019
(71) Fourth Military Medical University (Air Force Medical University)
(74) ir. M.B. Plaggenborg
(72) Shengxi Wu
Yingfing Lei
Binghua Zhang
Yin Wu
Fanfan Fu
Yazhou Wang
(31) 202410300579.7
(32) 15.03.2024
(33) China

(51) A61M 16/08
A61M 16/06
(21) 2039539
(22) 02.01.2025
(54) A multifunctional nasopharyngeal ventilation catheter for ventilator
(71) JINING NO.1 PEOPLE'S HOSPITAL (JINING MEDICAL SCIENCE STUD INSTITUTE)
(74) ir. W.J.J.M. Kempes
(72) Haitao Tian
Changjia Feng
Qingxin Tian
(31) 2024118708583
(32) 18.12.2024
(33) China

(51) A63G 27/02
A63G 27/00
(21) 2035368
(22) 13.07.2023
(54) Rocker swing device for swing ride.
(71) Vekoma Rides Engineering B.V.
(74) ir. J.C. Volmer c.s.
(72) Camiel Johannes Bilsen
(41) 27.01.2025

(51) B01D 3/28
B01D 3/02
B01D 3/00
B01J 19/32
(21) 2035399
(22) 17.07.2023
(54) Device and method for distillation
(71) REVSEP B.V.
(74) ir. H.Th. van den Heuvel c.s.
(72) Johan Joseph Marie Gommers
(41) 28.01.2025

(51) B01L 3/00
(21) 2039477
(22) 23.12.2024
(54) WASTE LIQUID COLLECTION DEVICE FOR ANALYTICAL CHEMISTRY LABORATORIES
(71) Yan'an University
(74) dr. J. van Straaten
(72) Lingbo Sun
Yuecheng Zhang

(51) B23K 35/30
B23K 35/40
(21) 2039500
(22) 24.12.2024
(54) A High-strength Gold Base Alloy Brazing Filler Metal and A Preparation Method and An Application Thereof
(71) Yunnan Precious Metal New Materials Holding Group Co., Ltd.
Kunming University of Science and Technology
(74) ir. G.J.M. Verhees
(72) Lu Li
Zhentao Yuan
Hua Dai
Haidong Niu
Xiao Wang
Haijun Wu
(31) 202411597164.7
(32) 11.11.2024
(33) China

(51) B23P 6/00
B29C 73/30
B29C 43/00
B29C 65/70
B29C 45/14
B29C 65/00
(21) 2035320
(22) 10.07.2023
(54) PROCESS FOR REMANUFACTURING AND REPAIRING TRANSMISSION SHAFT
(71) Qingdao University of Technology (Linyi) Management Committee Office
(74) ir. W.J.J.M. Kempes
(72) Xiaogang Li
Shuxiang Liu
(41) 24.01.2025

(51) B32B 27/20
B32B 27/22
E04F 13/18
E04F 15/02
E04F 15/10
B32B 27/28
B32B 27/30
B32B 7/12
B32B 27/06
E04F 13/08
(21) 2035354
(22) 12.07.2023
(54) Panel, composition for forming a coating layer, and method of manufacturing a panel
(71) CFL HOLDING LIMITED
(74) ir. H.Th. van den Heuvel c.s.
(72) Thomas Luc Martine Baert
Sven Boon
Tom van Poyer
(41) 24.01.2025

(51) B60L 58/12
B60L 15/20
(21) 2035359
(22) 12.07.2023
(54) Management of Electrical Power Using a Vehicle Battery
(71) FFWD Rail B.V.
(74) dr. A. Krebs
(72) Mark Alexander Remie
(41) 27.01.2025

(51) B60P 3/00
B60R 99/00
C02F 1/44
B60P 3/36
(21) 2039490
(22) 24.12.2024
(54) A forensic mobile DNA laboratory
(71) Public Security Bureau of Changzhou City
Institute of forensic science, Ministry of Public Security
Shanxi Fangteyou Biotechnology Co., Ltd.
Shanghai Yiling Technology Co., Ltd.
(74) ir. G.J.M. Verhees
(72) Xupeng Li
Yong Chen
Huajie Ba
Hao Nie
(31) 202411846981.1
(32) 13.12.2024
(33) China

(51) B60P 7/15
B60P 3/40
(21) 2039127
(22) 21.11.2024
(54) DEVICE AND METHOD FOR T-BEAM TRANSFER
(71) CHINA HARBOUR ENGINEERING COMPANY LTD.
(74) dr. J. van Straaten
(72) Zhuang Sun
(31) 202410533783.3
(32) 30.04.2024
(33) China

(51) B60R 15/04
C02F 1/02
B61D 35/00
B63J 4/00
(21) 2035387
(22) 14.07.2023
(54) Blackwater treatment device for recreational vehicles
(71) Fluss B.V.
(74) ir. H.A. Witmans c.s.
(72) Lucas Pieter Johannes Veel
Gert Otto Nützel
Ignatius Johannes Maria Trollmann

(41) 28.01.2025

(51) B62J 11/13
B62K 21/12
(21) 2038079
(22) 27.06.2024
(54) WIRE-HIDING COVER BODY FOR USE WITH BICYCLE HANDLEBAR
(71) HSIN LUNG ACCESSORIES CO., LTD.
(74) ir. J.H. de Hoog
(72) Hsueh-Sen Liao
(31) 112207189
(32) 11.07.2023
(33) Taiwan, Chinese Taipei

(51) B62K 5/02
B62K 7/00
B62K 27/00
(21) 2035338
(22) 10.07.2023
(54) Cargo tricycle
(71) Cycloon Holding B.V.
(74) W.J. Slikker
(72) Jort Roeterd
Daniel van den Hoorn
Sander Leon de Wit
Wouter Rogier Loman

(51) B63B 17/02
B60J 7/12
(21) 2035361
(22) 13.07.2023
(54) Vaartuig
(71) Vlootbeek Beheer B.V.
(74) ir. C.G.C. Veldman-Dijkers
(72) Gerardus Jozef Eduard Houben

(51) B64U 10/40
B64U 30/10
B64U 50/13
B64C 33/00
A01M 99/00
(21) 2035392
(22) 14.07.2023
(54) ROBOTIC BIRD
(71) CFS GreenX Holding B.V.
(74) W.J. Slikker
(72) Jan-Willem van den Eijkel

(51) B65B 11/00
B65B 11/58
B65B 25/14
(21) 2035369
(22) 13.07.2023
(54) Methods and arrangements for providing two sleeves of packaging material around a mail item
(71) Buhrs Packaging Solutions B.V.
(74) ir. H.A. Witmans c.s.
(72) Fransiscus Maria Mous
(41) 27.01.2025

(51) B65B 23/06
B65G 21/20
B65G 47/71
B65B 35/44
(21) 2035402
(22) 17.07.2023
(54) An egg processing apparatus, and a method for redistributing eggs
(71) Moba Group B.V.
(74) ir. H.A. Witmans c.s.
(72) Robert Nieuwenhuis
Gerrit van Heerd
Kasper Carlo Veenje
(41) 28.01.2025

(51) B65G 1/06
B65G 1/12
B65G 1/137
(21) 2039508
(22) 26.12.2024
(54) RESTOCKING DEVICE, RESTOCKING SYSTEM, RESTOCKING CONTROL METHOD AND CONTROLLER
(71) Beijing Jingdong Yuansheng Technology Co., Ltd.
Beijing Jingdong Qianshi Technology Co., Ltd.
(74) dr. J. van Straaten
(72) Zhe Liang
(31) 202411856205.X
(32) 16.12.2024
(33) China

(51) B66C 13/04
B66C 13/02
(21) 2035388
(22) 14.07.2023
(54) Shockload limiting system
(71) Heerema Marine Contractors Nederland SE
(74) ir. J.C. Volmer c.s.
(72) Jurgen Albertus de Jong
(41) 28.01.2025

(51) C02F 1/46
A01C 23/04
B01F 23/40
C02F 1/72
C02F 1/78
B01F 101/04
B01F 101/32
(21) 2035401
(22) 17.07.2023
(54) Fertilisation and disinfection system using plasma activated water
(71) VitalFluid B.V.
(74) dr. R.C. van Duijvenbode c.s.
(72) Pieter Polo van Ooij
Danique Anouk van der Krieken
(41) 28.01.2025

(51) C02F 1/46
C02F 1/72
C02F 1/78
(21) 2035400
(22) 17.07.2023
(54) System and a method for treating plasma-activated water
(71) VitalFluid B.V.
(74) dr. R.C. van Duijvenbode c.s.
(72) Rohit Chaudhary
Pieter Polo van Ooij
Danique Anouk van der Krieken

(51) C02F 3/00
C02F 3/34
(21) 2035353
(22) 12.07.2023
(54) Cloud-based automated governance system for treating black and odorous water bodies
(71) Tianjin Research Institute for Water Transport Engineering, M.O.T.
Tianjin Binhai New Area Center for Disease Control and Prevention
(74) ir. W.J.J.M. Kempes
(72) Li Mingzhe
Lu Dan
Luo Xiaoyu
Zhou Jinxiang
Sun Gaocheng
Li Xiuli
Cao Lihua
Chang Mingyue
Li Yang
Zhao Hongyan
Liao Hui
Li Guangtao
Li Mingming
Han Xue
Zhang Lingyan
(41) 24.01.2025
(31) 2023107989926
(32) 04.07.2023
(33) China

(51) C02F 3/12
C02F 3/28
C02F 1/44
C02F 11/04
C02F 11/12
C02F 1/52
(21) 2039383
(22) 17.12.2024
(54) AN EFFICIENT WASTEWATER RESOURCE UTILIZATION METHOD WITH LOW CARBON EMISSION
(71) Beijing Forestry University
(74) ir. M.B. Plaggenborg
(72) Chuan Fu
Yajie Zhang
Maoqing Wang
Panyue Zhang
Wei Fang
Yan Wu
Guangming Zhang
(31) 2023118446389
(32) 29.12.2023
(33) China

(51) C02F 3/30
(21) 2036796
(22) 12.01.2024
(54) COLD-RESISTANT INTELLIGENT INTEGRATED SEWAGE TREATMENT EQUIPMENT
(71) Shenyang Everbright Environmental Protection Technology Co., Ltd.
(74) ir. F.A. Geurts c.s.
(72) Rong Ren
Meixiao Li
Youqing Gao
Xiaoguang Zhang
(41) 28.01.2025
(31) 202310864054.1
(32) 14.07.2023
(33) China

(51) C04B 7/00
(21) 2038926
(22) 25.10.2024
(54) AZODICARBOXAMIDE BLOWING AGENT WASTE RESIDUE ACTIVATING ALL-SOLID WASTE CEMENTITIOUS

MATERIAL AND PREPARATION METHOD THEREFOR
(71) YANSHAN UNIVERSITY
(74) ir. M.B. Plaggenborg
(72) Xiangzhou Liang
Juanzhao Peng
Ziwei Li
Jinqian Li
(31) 202311391219.4
(32) 25.10.2023
(33) China

(51) C04B 7/02
(21) 2036397
(22) 01.12.2023
(54) LOW-CARBON CEMENTITIOUS MATERIAL
(71) China National Building Material Group Co., Ltd.
China Building Materials Academy Co., Ltd.
(74) dr. A. Krebs
(72) Jiayuan Ye
Jingyu Wang
Xiao Zhi
Pengqi Wang
(31) 202310861739.0
(32) 14.07.2023
(33) China

(51) C05F 9/00
C05G 3/00
(21) 2039535
(22) 02.01.2025
(54) A Method for Rejuvenating Dredged Sludge into Planting Soil
(71) Zhejiang Sci-Tech University
(74) ir. W.J.J.M. Kempes
(72) Jinnan Wang
Jiajun Gao
Yuhang Zeng
Siliang Shen
Hui Xu
Yuchen Wang
(31) 202410286700.5
(32) 13.03.2024
(33) China

(51) C07C 401/00
(21) 2035322
(22) 10.07.2023
(54) METHOD FOR EXTRACTING VITAMIN D FROM ANIMAL LUNGS
(71) Northwest Institute of Plateau Biology, Chinese Academy of Sciences
Qinghai University
(74) ir. W.J.J.M. Kempes
(72) Chongyang Dai
Tongzuo Zhang
Xiaoyan Pu
Xue Lin
Yaxuan Wang
(41) 24.01.2025

(51) C07H 1/08
C07H 17/07
(21) 2035377
(22) 13.07.2023
(54) METHOD FOR EXTRACTING NARINGIN FROM PLANTS BY COUNTER-CURRENT HOT WATER METHOD
(71) Meizhou Nanfang Jinyou Research Institute
Southwest University
Guangdong Lijinyou Agricultural Science & Technology Co., Ltd.
(74) ir. M.B. Plaggenborg
(72) Houjiu Wu
Yongsheng Li
Jiaqi Li
Xuegen Huang
Linhua Huang
Weiling Chen
(41) 28.01.2025

(51) C08J 5/22
C02F 1/469
C25B 1/04
B01D 61/42
B01D 69/12
B01J 47/00
H01M 8/1053
(21) 2035348
(22) 11.07.2023
(54) METHOD FOR CONTINUOUSLY ASSEMBLING A BIPOLAR MEMBRANE, BIPOLAR MEMBRANE, AND USE OF SAID BIPOLAR MEMBRANE
(71) Stichting Wetsus, European Centre of Excellence for Sustainable Water Technology
(74) dr. ir. G.J.C. Verdijck c.s.
(72) Machiel Saakes
Emad Mohammed Noman Al-Dhubhani

(51) C12M 1/36
G05B 13/02
G06N 3/08
G16B 5/30
(21) 2035389
(22) 14.07.2023
(54) Method for modelling one or more bioprocesses in a bioreactor
(71) Applikon Biotechnology B.V.
(74) ir. A. Blokland c.s.
(72) Wilbert Timotheüs Walvoort
Leo Veenstra

(51) C12N 1/20
C12R 1/25
A23K 30/18
A23K 10/18
(21) 2037769
(22) 24.05.2024
(54) LACTIPLANTIBACILLUS PLANTARUM FOR DEGRADING TANNINS AND SAPONINS, AND USE THEREOF
(71) GUIZHOU UNIVERSITY
CHINA AGRICULTURAL UNIVERSITY
(74) ir. H.Th. van den Heuvel c.s.
(72) Kuikui Ni
Gang Xu
Ningwei Wang
Fuyu Yang
Hongzhang Zhou
(31) 202310881780.4
(32) 18.07.2023
(33) China

(51) C12N 15/29
C07K 14/415
(21) 2038103
(22) 29.06.2024
(54) LOW TEMPERATURE TOLERANT GENE NTZFP66L1 OF NICOTIANA TABACUM L. AND APPLICATION THEREOF
(71) Hunan Branch Of China National Tobacco Corporation
(74) dr. T. Wittop Koning PhD
(72) Xiaomin Ren
Chenkai Yang
Zhengrong Hu
Weijie Yan
Pengfei Yi
Shipeng Xiang
Xizhen Jiang
Jiashuo Yang
Yangyang Li
Risheng Hu
(31) 202310867456.7
(32) 15.07.2023
(33) China

(51) C12Q 1/689
(21) 2037984
(22) 19.06.2024
(54) LAMP RAPID MOLECULAR DETECTION METHOD FOR SEA BUCKTHORN PHYTOPLASMA
(71) Shanxi Academy of Forestry and Grassland Sciences
(74) dr. T. Wittop Koning PhD
(72) Caihong Zhang
Yuemei Chang
Yulong Wang
Lijun Liang
Yaqin Cui
Junhong Wei
Chongjuan You
(41) 27.01.2025
(31) 202311139014.7
(32) 05.09.2023
(33) China

(51) C23C 14/08
C23C 14/35
C23C 14/16
(21) 2039285
(22) 10.12.2024
(54) A METHOD FOR PREPARING A WEAR-RESISTANT MULTI-PRINCIPAL ELEMENT ALLOY MULTILAYER FILM
(71) Research & Development Institute of Northwestern Polytechnical University in Shenzhen
(74) ir. M.B. Plaggenborg
(72) Zhuobin Huang
Yangyang Ma
Haifeng Wang
Zhichao Jiao
Qing Zhou
(31) 202410696657.X
(32) 31.05.2024
(33) China

(51) D01B 1/10
(21) 2038282
(22) 19.07.2024
(54) METHOD AND MACHINE FOR FEEDING A SCUTCHER WITH FLAX SHEETS
(71) TERRE DE LIN
(74) ir. W.J.J.M. Kempes

(72) Thierry Goujon
(31) 2307779
(32) 20.07.2023
(33) France

(51) E01D 1/00
E01D 21/00
(21) 2039126
(22) 21.11.2024
(54) CONNECTION STRUCTURE AND CONSTRUCTION METHOD OF CLOSURE SECTION OF CONTINUOUS BRIDGE BEAM
(71) CHINA HARBOUR ENGINEERING COMPANY LTD.
(74) dr. J. van Straaten
(72) Junbiao He
(31) 202410742178.7
(32) 11.06.2024
(33) China

(51) E02D 7/18
E02D 11/00
E02D 13/02
B06B 1/06
B06B 1/18
(21) 2035355
(22) 12.07.2023
(54) VIBRATOR ASSEMBLY
(71) IQIP Holding B.V.
(74) dr. A. Krebs
(72) Boudewijn Casper Jung
(41) 27.01.2025

(51) E02F 3/88
E02F 5/00
C02F 11/00
E02B 3/18
(21) 2035381
(22) 13.07.2023
(54) MUD RECLAMATION AND CURING OPERATION SYSTEM
(71) Zhengzhou Institute of Mineral Resources Comprehensive Utilization, Chinese Academy of Geological Sciences
(74) ir. M.B. Plaggenborg
(72) Chi Ma
Hui Xia
Likuan Zhu
Pengju Cheng
Bangwen Lu
Naiqi Feng
Jungang Guo
(41) 28.01.2025

(51) E06B 1/08
E06B 1/10
E06B 1/60
(21) 2035317
(22) 10.07.2023
(54) A frame system for framing an opening in a wall
(71) Arnold Jacob Bernard Bulder
Peter de Jong
(74) J.G. Laddé MSc
(72) Peter de Jong
Arnold Jacob Bernard Bulder
(41) 24.01.2025

(51) E06B 7/10
(21) 2035340
(22) 11.07.2023
(54) Raamkozijnen
(71) Van der Zee Kunststofkozijnen B.V.
(74) ir. B.J. 't Jong
(72) Kadir Deniz
(41) 24.01.2025

(51) E06B 9/262
(21) 2038204
(22) 11.07.2024
(54) MOTORIZED VENETIAN BLIND
(71) Nien Made Enterprise Co., Ltd.
(74) dr. R.C. van Duijvenbode c.s.
(72) Lin Chen
Jian Zeng
(31) 112207573
(32) 20.07.2023
(33) Taiwan, Chinese Taipei

(51) E21B 41/00
B60D 1/00
(21) 2035329
(22) 10.07.2023
(54) A METHOD AND SYSTEM FOR TRANSPORTING A GEOTECHNICAL APPARATUS
(71) FNV IP B.V.
(74) R.J. Burnaby Lautier
(72) Michael Adrianus Brabander
Geofrey Leonardus Anthony van Leeuwen
Adrianus Petrus Maria Brabander
(41) 24.01.2025

(51) F03D 80/50
E04G 3/24
E04G 3/30
(21) 2035372
(22) 13.07.2023
(54) Modular working platform for maintaining a wind turbine
(71) Sky-Access B.V.
(74) dr. A. Ellens c.s.
(72) Marinus Michel Jacobus Maria van Oorschot
Ronnie Gerard Peter van Baal
(41) 28.01.2025

(51) F21V 1/00
(21) 2035316
(22) 09.07.2023
(54) TRACKING SYSTEM
(71) Meloflow Innovations B.V.
(74) ir. A. van der Maarl
(72) Erik Johannes Martinus Berends
(41) 24.01.2025

(51) F24F 1/56
F24F 1/60
F24F 13/20
(21) 2035371
(22) 13.07.2023
(54) Prefab roof built-in assembly for inner and outer units of air treatment devices with a floor frame carrying the inner unit hanging underneath a housing carrying the outer unit.
(71) Breman Installatiefabriek IJsselmuiden B.V.
(74) ir. J.C. Volmer c.s.
(72) Maarten Rook
(41) 28.01.2025

(51) F27D 1/14
F23M 5/04
E04B 1/41
E04B 1/04
(21) 2035391
(22) 14.07.2023
(54) Anchor system for refractory linings
(71) SILICON Holding B.V.
(74) ir. A. Blokland c.s.
(72) Koen van Mil
Henry Kojo Ofosuhene Wilson
Danielle Francesca Garot
Jerome Michael Garot
Mink van Zeijl
(41) 28.01.2025

(51) G01C 21/16
G01C 21/00
G06N 3/02
(21) 2039099
(22) 18.11.2024
(54) An indoor heading estimation method, device, equipment, and medium
(71) Peking University
(74) ir. W.J.J.M. Kempes
(72) Qiqi Shu
Guoyi Sun
Yonglei Fan
Guangyuan Zhang
(31) 2024114374028
(32) 15.10.2024
(33) China

(51) G01L 5/00
G01L 1/16
(21) 2039278
(22) 10.12.2024
(54) A fissure frost heave force testing device and its method of use
(71) Sichuan Water Conservancy Research Institute
CHINA WEST NORMAL UNIVERSITY
Xizang Southeast Construction Co., Ltd.
(74) ir. W.J.J.M. Kempes
(72) bao liang Wang
Xin Qin
sheng juan Wang
hong kai Chen
(31) 2024115806796
(32) 07.11.2024
(33) China

(51) G01N 11/04
A01G 25/02
G06F 17/16
(21) 2039328
(22) 13.12.2024
(54) Method for analyzing influence of capillary tube flushing on anti-clogging performance of drip irrigation pipes
(71) Beijing Vocational College of Agriculture (Party School of Rural Work Committee of Beijing Municipal Committee of the Communist Party of China)
(74) ir. W.J.J.M. Kempes
(72) Ji Feng
Peng Hou
Yanzheng Liu
Song Xue
Huiju Fan
Huijie Shen

Weinan Wang
Linlin Yang
Chengbin Liu
(31) 2024115678779
(32) 05.11.2024
(33) China

(51) G01N 33/68
G01N 33/02
(21) 2035379
(22) 13.07.2023
(54) METHOD FOR DETECTING NUTRITIONAL INGREDIENTS OF FOOD
(71) Hangzhou Vocational and Technical College
(74) ir. M.B. Plaggenborg
(72) Da He
(41) 28.01.2025

(51) G02F 1/133
G03H 1/00
(21) 2039253
(22) 05.12.2024
(54) Adaptive Optical Path Alignment System and Method Based on Complex-amplitude SLM for Disturbed Channel Environment
(71) Sun Yat-sen University
(74) ir. W.J.J.M. Kempes
(72) Lin Zhao
Ming Jiang
(31) 2023116733232
(32) 07.12.2023
(33) China

(51) G03F 7/00
(21) 2035346
(22) 11.07.2023
(54) System and method for imprinting
(71) MORPHOTONICS HOLDING B.V.
(74) ir. H.Th. van den Heuvel c.s.
(72) Rob Antonius Waltherus Neelen
(41) 24.01.2025

(51) G06F 1/26
G06F 1/04
H03K 19/17772
(21) 2035383
(22) 14.07.2023
(54) System-on-Module comprising a field programmable gate array component and a connector for connecting the System-on-Module to a carrier board, as well as a carrier board comprising a System-On-Module.
(71) TOPIC Embedded Products B.V.
(74) ir. A. Blokland c.s.
(72) Dirk Otto van den Heuvel
(41) 28.01.2025

(51) G06F 3/16
G06Q 30/06
G06F 40/30
(21) 2035378
(22) 13.07.2023
(54) MAN-MACHINE INTERACTIVE SYSTEM APPLIED TO SMART HOME
(71) Hangzhou Vocational and Technical College
(74) ir. M.B. Plaggenborg
(72) Hui Zhao
(41) 28.01.2025

(51) G06N 3/0464
G06V 10/82
(21) 2039386
(22) 18.12.2024
(54) SMALL-SIZE VEHICLE DETECTION DEEP LEARNING MODEL BASED ON FEATURE FUSION OF MULTI-SCALE MODULES
(71) Nanhu Laboratory
(74) ir. F.A. Geurts c.s.
(72) Yicheng Qiu
Feng Sha
Li Niu
(31) 202410698993.8
202411270814.7
(32) 31.05.2024
11.09.2024
(33) China
China

(51) G06T 11/00
G06F 17/10
(21) 2039097
(22) 17.11.2024
(54) QUANTITATIVE RESTORATION METHOD FOR PALEOGEOMORPHOLOGY IN FAULTED BASIN BASED ON QUANTITATIVE CALCULATION OF PALAEO-WATER DEPTH
(71) Zhanjiang Branch of CNOOC (China) Co., Ltd.
China University of Geosciences (Wuhan)
(74) ir. M.B. Plaggenborg
(72) Shouli Xu
Jianxin Zhang
Detian Yan
Yong Man
Yunlong He
Xiao Man
Desheng Hu
(31) 202410167567.1
(32) 06.02.2024
(33) China

(51) G06V 40/16
G06V 10/40
(21) 2039506
(22) 25.12.2024
(54) VIDEO FACIAL EXPRESSION RECOGNITION METHOD DESIGNED BY COMBINING SLIDING WINDOW AND DECISION FUSION STRATEGY
(71) Hubei University
(74) dr. J. van Straaten
(72) Juhong Peng
Weidong Li
Changyu Hu
Zhi Zhang
(31) 202411777400.3
(32) 05.12.2024
(33) China

(51) G09B 21/00
A47J 31/00
(21) 1044642
(22) 19.07.2023
(54) Hulpmiddel voor het bedienen van een koffieapparaat door slechtzienden en blinden
(71) ing Franciscus Godefridus Antonius Houben
(72) ing Franciscus Godefridus Antonius Houben

(51) G16H 50/20
A61B 3/00
G06N 5/01
(21) 2035344
(22) 11.07.2023
(54) METHOD FOR DETERMINING SPECTACLE PRESCRIPTION BASED ON DIOPTER EVALUATION
(71) Tianjin Eye Hospital
(74) ir. W.J.J.M. Kempes
(72) Yan Wang
Shufan Ji
Mengdi Li
Xiao Liu
Haohan Zou
(41) 24.01.2025

(51) H01L 21/02
H01L 21/04
H01L 21/20
(21) 2035350
(22) 11.07.2023
(54) Bonded diamond structures
(71) Technische Universiteit Delft
(74) ir. A.R. Aalbers
(72) Ryoichi Ishihara
Salahuddin Nur
(41) 27.01.2025

(51) H01R 13/62
H01R 13/24
H01R 13/627
H01R 24/38
H01R 31/06
H01R 107/00
(21) 2035404
(22) 17.07.2023
(54) DOCKING UNIT, CONNECTOR UNIT, AND DC POWER SUPPLY ASSEMBLY
(71) Smarter Living B.V.
(74) dr. ir. M.C.J.C.M. Kramer
(72) Milosz Rafal Bertman
Jean-Paul Otto
Willem Nicolaas Leendertse
(41) 28.01.2025

(51) H02G 3/08
H02G 3/12
(21) 2035363
(22) 13.07.2023
(54) WALL BOX
(71) Pipelife Nederland B.V.
(74) dr. R.C. van Duijvenbode c.s.
(72) Mark Ploeg
Michel Wilhelmus Petrus Johannes Maria Aartsen

(51) H02G 3/20
H02G 3/08
H02G 3/14
F21V 17/12
F21V 21/03
(21) 2035360
(22) 12.07.2023

(54) An assembly for attaching a device to a wall, a building comprising a wall provided with the wall and a device attached via an assembly to the wall and a method for realising an attachment of a device to a wall
(71) Hertek B.V.
(74) ir. A. Blokland c.s.
(72) Gerardus Johannes Franciscus de Crom
Koen Kwaspen
(41) 24.01.2025

(51) H02J 3/00
H02J 3/06
(21) 2035333
(22) 10.07.2023
(54) ACTIVE DISTRIBUTION NETWORK GLOBAL OPTIMAL DISPATCHING METHOD BASED ON TIME SCALE
(71) University of South China
(74) ir. M.B. Plaggenborg
(72) Juan Wen
Xing Qu
Yuhong Zhao
Yanghong Tan
Jinfeng Xiao
Yifa Sheng
(41) 24.01.2025

(51) H02J 3/36
H02M 1/00
(21) 2035351
(22) 12.07.2023
(54) A Voltage Source Converter, VSC, of a VSC-High Voltage Direct Current, HVDC, network, as well as corresponding method.
(71) Technische Universiteit Delft
(74) ir. A. Blokland c.s.
(72) Jose Luis Rueda Torres
Arcadio David Perilla Guerra
Martinus Arnoldus Matheus Maria van der Meijden

(51) H02J 7/00
(21) 2039084
(22) 14.11.2024
(54) An immersion life prolonging device and a constant temperature life prolonging method for a new energy storage power station
(71) Wenzhou University
(74) ir. G.J.M. Verhees
(72) Dongzhen Lyu
Jiawei Xiang
(31) 202410250673.6
(32) 05.03.2024
(33) China

(51) H02N 2/04
(21) 2036904
(22) 26.01.2024
(54) PIEZOELECTRIC ACTUATOR AND HIGH-PRECISION LONG-STROKE PIEZOELECTRIC LINEAR MOTOR CAPABLE OF BIDIRECTIONAL SHEARING
(71) GUANGDONG UNIVERSITY OF TECHNOLOGY
(74) dr. T. Wittop Koning PhD
(72) Yi Zhong
Hao Li
Hao Cui
Fahui Feng
Jianchang Shi
Xiaolan Xiao
Jianxin Lin
Chuyuan Ou
Zhijian Chen
Meisi Zheng
(31) 202310891681.4
(32) 20.07.2023
(33) China

(51) H02S 20/23
F24S 25/61
F24S 25/33
F24S 40/00
(21) 2035393
(22) 15.07.2023
(54) Montagesysteem voor montage van zonnepanelen op een dak
(71) Wilhelmus Johannes Leonardus de Gouw
(74) ir. G.J.M. Verhees
(72) Wilhelmus Johannes Leonardus de Gouw
(41) 28.01.2025

(51) H02S 20/23
F24S 25/61
F24S 25/613
F24S 25/632
H02S 30/00
(21) 2035358
(22) 12.07.2023
(54) SOLAR PANEL INSTALLATION SYSTEM
(71) ROEF B.V.
(74) ir. J.C. Volmer c.s.
(72) Hendrik Philip Ferdinand Schaling
(41) 27.01.2025

(51) H02S 20/24
H02S 40/12
H02S 40/44
H02S 40/42
(21) 2035395
(22) 17.07.2023
(54) Lichtgewicht zonnedak voorzien van koeling/verwarming
(71) WEDA Holland B.V.
(74) ir. G.J.M. Verhees
(72) Richard Donkers

(51) H02S 20/26
H02S 20/30
H02S 30/10
(21) 2036898
(22) 26.01.2024
(54) BUILDING INTEGRATED PHOTOVOLTAICS STRUCTURE
(71) Heilongjiang Institute Of Construction Technology
Harbin Institute Of Technology
(74) dr. T. Wittop Koning PhD
(72) Long Ma
Shiliang Lu
Maoqing Cao
Qi Guo
Zijun Wang
Riqiang Li
Lei Li
Wenrui Cao
(41) 27.01.2025

(51) H02S 99/00
B66C 1/22
A62C 99/00
(21) 2035314
(22) 08.07.2023
(54) System and method for removing solar panels from a roof
(71) Diederik Jan van der Worp
(74) J.G. Laddé MSc
(72) Gerhardus van der Worp
(41) 24.01.2025

(51) H04W 24/02
H04B 17/30
H04L 67/01
H04W 16/18
H04W 72/53
H04W 40/02
(21) 2039512
(22) 27.12.2024
(54) Radio Frequency Resource Optimization Method and Related Equipment Based on Heterogeneous Communication
(71) Beijing University of Posts and Telecommunications
(74) ir. W.J.J.M. Kempes
(72) Wenhao Fan
Zhanhong Ye
Fan Wu
Yuan'an Liu
Diancheng Cheng
Niyato Dusit
Bihua Tang
Cong Zhang
(31) 202411762819.1
(32) 03.12.2024
(33) China

(51) H04W 88/02
H04W 88/08
H04W 84/12
(21) 2039481
(22) 23.12.2024
(54) DETECTION DEVICE AND METHOD FOR PERCEPTION, MOVEMENT, AND SOCIAL BEHAVIOR
(71) Air Force Medical University
(74) dr. J. van Straaten
(72) Kejun Du
Qian Dong
Jiahe Liu
Zaihua Zhao
Ruili Guan
Zipeng Cao
Yang Zhou
Yu Wang
Xuefeng Shen

(51) H05K 7/20
(21) 2036704
(22) 28.12.2023
(54) EXPLOSION-PROOF TRANSVERSE VENTILATION SYSTEM SUITABLE FOR CAVERN LIBRARY-TYPE DATA CENTER AND CONSTRUCTION METHOD THEREOF
(71) GUIZHOU TRANSPORTATION PLANNING SURVEY AND DESIGN ACADEME CO.LTD
(74) dr. T. Wittop Koning PhD

(72) Junwei Chun
Xuan Cui
Deming Gou
Li Zhou
Anrui Zhang
Shan Zhong
Xiaoyong Liu
Minjie Liu
Hong Yang
Ganggui Zhou
Jianjun Liu
Pin Liu
Weihua Zhang
Jian Yang
Jiao Tian
Qiang Hu
(31) 202310865737.9
(32) 14.07.2023
(33) China

NP2

Ingeschreven en verleende Nederlandse octrooien ex Rijksoctrooiwet 1995.
Netherlands patents which have been entered in the patent register ex NL Patent Law 1995.

(51) A01G 9/04
A01G 9/24
A01G 31/02
(11) 2035403
(47) 28.01.2025
(22) 17.07.2023
(54) Inrichting voor het telen van gewassen in een broeikas
(73) Beheer 141 B.V.
(72) Ronnie Arensman
(74) dr. ir. G.J.C. Verdijck c.s.

---

(51) A01H 3/04
G16B 5/00
(11) 2036588
(47) 28.01.2025
(22) 19.12.2023
(54) A comprehensive evaluation method for salt tolerance in Zoysia Willd. accessions
(73) Tropical Crops Genetic Resources Institute, Chinese Acadamy of Tropical Agricultural Sciences
(72) Pandao Liu
Guodao Liu
Linling Yan
Yiming Liu
Chunqiong Huang
Xiao He
(74) ir. W.J.J.M. Kempes
(31) 2023108524729
(32) 12.07.2023
(33) China

---

(51) A01K 1/00
A01K 13/00
(11) 2035373
(47) 28.01.2025
(22) 13.07.2023
(54) Koelinrichting en werkwijze voor het koelen van melkvee
(73) Wopa Constructiebedrijf B.V.
(72) Sjaak Johannes Kolkman
Theodorus Mathias Franciscus Engelen
Johannes Wilhelmus Antonius Wopereis
(74) ir. H.A. Witmans c.s.

---

(51) A01K 63/10
C02F 1/00
C02F 1/74
C02F 1/78
E02F 3/94
E02F 5/28
(11) 2037933
(47) 28.01.2025
(22) 11.06.2024
(54) DEVICE FOR DREDGING, CHANGING BOTTOM AND PURIFYING POLLUTED FISH PONDS OF SHALLOW LAKES
(73) Hebei Hydraulic Research Institute
(72) Yongtao Zhu
Zhihua Zhang
Yu Zhu
Xueping Huo
Meng Yang
Yuan Li
Baofeng Zhu
Miwei Shi
Yuanyuan Ma
Zhijiu Huo
(74) ir. M.B. Plaggenborg

---

(51) A01N 37/16
A01G 17/00
A01P 3/00
A01N 37/10
(11) 2037989
(47) 27.01.2025
(22) 19.06.2024
(54) Efficient control method of chestnut blight
(73) Research Institute of Subtropical Forestry, Chinese Academy of Forestry
(72) Jian Wu
Conglian Wu
Junsheng Lai
Xiaoyun Wu
Jinhui Yang
Yifan Wang
Weiyun Hu
Jin Yao
Bangchu Gong
Xibing Jiang
(74) ir. W.J.J.M. Kempes

---

(51) A21D 2/00
A21D 8/02
A21D 8/04
A21D 10/00
A23L 7/104
A23L 29/00
(11) 2035390
(47) 28.01.2025
(22) 14.07.2023
(54) SOURDOUGH STARTER HAVING A PROLONGED SHELF LIFE
(73) Sonneveld Group BV
(72) Danny Broeders
Pedro Miguel Do Carmo Branco
Sanne Johanna Maria de Jong
Nico Mierop
Herald H.C.F. Vugs
Peter Louis Weegels
(74) dr. ir. G.J.C. Verdijck c.s.

---

(51) A23B 7/028
A23L 3/48
A23B 7/02
(11) 2037186
(47) 28.01.2025
(22) 06.03.2024
(54) DOUBLE-CUTTING AND DOUBLE-DRYING INTEGRATED METHOD FOR PROCESSING FRESH FRUCTUS AURANTII IN PLACE OF ORIGIN
(73) Jiangxi University of Chinese Medicine
(72) Lingyun Zhong
Fuyu Xu
Songhong Yang
Hengli Tong
Bin Liu
Xingmei Lu
Qi Deng
Guoyue Zhong
Shouwen Zhang
Jing Zhu
Yi Huang
Weifeng Zhu
(74) ir. F.A. Geurts c.s.
(31) 202310883283.8
(32) 18.07.2023
(33) China

---

(51) A41D 13/11
(11) 1044636
(47) 24.01.2025
(22) 11.07.2023
(54) Disposable face and head mask with anti-fogging functionality
(73) SCINT BV
B.A. Mark Wilhelmus Theresia van Tilburg
(72) B.A. Mark Wilhelmus Theresia van Tilburg
Ir. Stephanus Franciscus Schilthuizen

---

(51) A45C 5/14
B60B 33/00
(11) 2035318
(47) 24.01.2025
(22) 10.07.2023
(54) Luggage, such as a bag or suitcase
(73) Kubus Sports B.V.
(72) Alex Paul Cretier
(74) mr. ir. J. van Breda c.s.

---

(51) A61B 3/028
A61B 3/00
A61B 3/032
(11) 2035325
(47) 24.01.2025
(22) 10.07.2023
(54) Method of performing an eye examination test for at least examining a visual acuity of eyes of a user.
(73) Easee Health B.V.
(72) Robert Paulus Leendert Wisse
Marc Bastiaan Muijzer
(74) ir. A. Blokland c.s.

---

(51) A61B 17/11
A61B 17/00
A61B 17/22
(11) 2035331
(47) 24.01.2025
(22) 10.07.2023
(54) Surgical Clip
(73) AMT Medical B.V.
(72) Alexander Cornelis Elisabeth van Thoor
Glenn Bronkers
(74) ir. J.C. Volmer c.s.

---

(51) A61G 13/10
A61B 90/00
G09B 19/24
G09B 23/30

(11) 2038105
(47) 27.01.2025
(22) 01.07.2024
(54) MULTIFUNCTIONAL NEUROSURGERY ANATOMICAL OPERATION PLATFORM
(73) Taizhou Fourth People's Hospital
(72) Jun Lu
Hongyue Huo
Jianxin Jiang
Jinhai Zhao
Xiaolin Wang
Yizhou Lu
(74) dr. T. Wittop Koning PhD

(51) A61K 8/87
A61K 8/73
A61K 8/04
A61K 8/92
A61Q 19/00
A61K 8/26
A61K 8/25
(11) 2035319
(47) 24.01.2025
(22) 10.07.2023
(54) Anti-chafing product
(73) Sensineer B.V.
(72) Reginald Ofori
Andrea Mitarotonda
(74) ir. J.C. Volmer c.s.

(51) A61P 3/10
A61K 36/82
A61K 31/715
A61K 9/20
A61K 33/04
C08B 37/00
(11) 2031126
(47) 24.01.2025
(22) 01.03.2022
(54) HYPOGLYCEMIC SE-ENRICHED TEA POLYSACCHARIDE AND PREPARATION METHOD OF BUCCAL TABLET THEREOF
(73) Shanghai Normal University
Shanghai Jiao Tong University
(72) Lizeng Cheng
Xinlin Wei
Yuanfeng Wang
Lanlan Peng
Kang Wei
(74) ir. M.B. Plaggenborg
(31) 202210009513.3
(32) 06.01.2022
(33) China

(51) A61Q 19/08
A61K 9/00
A61Q 1/12
A61P 17/08
A61K 8/9789
A61Q 1/02
A61Q 15/00
A61Q 17/04
A61Q 19/00
A61Q 19/02
A61K 36/62
A61P 17/00
A61P 17/10
(11) 2035921
(47) 27.01.2025
(22) 29.09.2023
(54) COSMETIC COMPOSITION
(73) COTY INC.
(72) Eva Viñas Sanz
Olivier Doucet
Shimei Fan
Enrica Perrotta
Marta Alexandra de Sousa Oliveira Maia
Aurélien Saint-Paul
Veronique Schwartz
Claudie Bellouard
Delphine Lequintrec
Karelle Messner
Stacey House
David Joyal
Laura Timonet
Mark Cooper
(74) dr S. Giacobbe
(31) 63/500388
(32) 05.05.2023
(33) United States of America

(51) A63G 27/02
A63G 27/00
(11) 2035368
(47) 27.01.2025
(22) 13.07.2023
(54) Rocker swing device for swing ride.
(73) Vekoma Rides Engineering B.V.
(72) Camiel Johannes Bilsen
(74) ir. J.C. Volmer c.s.

(51) B01D 3/28
B01D 3/02
B01D 3/00
B01J 19/32
(11) 2035399
(47) 28.01.2025
(22) 17.07.2023
(54) Device and method for distillation
(73) REVSEP B.V.
(72) Johan Joseph Marie Gommers
(74) ir. H.Th. van den Heuvel c.s.

(51) B23P 6/00
B29C 73/30
B29C 43/00
B29C 65/70
B29C 45/14
B29C 65/00
(11) 2035320
(47) 24.01.2025
(22) 10.07.2023
(54) PROCESS FOR REMANUFACTURING AND REPAIRING TRANSMISSION SHAFT
(73) Qingdao University of Technology (Linyi) Management Committee Office
(72) Xiaogang Li
Shuxiang Liu
(74) ir. W.J.J.M. Kempes

(51) B26D 1/04
B26D 5/08
B26D 7/14
B26D 7/20
(11) 2033986
(47) 24.01.2025
(22) 19.01.2023
(54) TEXTILE FABRIC CUTTING MACHINE
(73) Tarim University
(72) Zhijiang Li
Yiyong Qu
Hao Niu
Hong Zhang
Bei Wu
Chunhui Chen
(74) dr. T. Wittop Koning PhD
(31) 202211723966.9
(32) 30.12.2022
(33) China

(51) B32B 27/20
B32B 27/22
E04F 13/18
E04F 15/02
E04F 15/10
B32B 27/28
B32B 27/30
B32B 7/12
B32B 27/06
E04F 13/08
(11) 2035354
(47) 24.01.2025
(22) 12.07.2023
(54) Panel, composition for forming a coating layer, and method of manufacturing a panel
(73) CFL HOLDING LIMITED
(72) Thomas Luc Martine Baert
Sven Boon
Tom van Poyer
(74) ir. H.Th. van den Heuvel c.s.

(51) B60L 58/12
B60L 15/20
(11) 2035359
(47) 27.01.2025
(22) 12.07.2023
(54) Management of Electrical Power Using a Vehicle Battery
(73) FFWD Rail B.V.
(72) Mark Alexander Remie
(74) dr. A. Krebs

(51) B60R 15/04
C02F 1/02
B61D 35/00
B63J 4/00
(11) 2035387
(47) 28.01.2025
(22) 14.07.2023
(54) Blackwater treatment device for recreational vehicles
(73) Fluss B.V.
(72) Lucas Pieter Johannes Veel
Gert Otto Nützel
Ignatius Johannes Maria Trollmann
(74) ir. H.A. Witmans c.s.

(51) B62K 5/02
B62K 7/00
B62K 27/00
(11) 2035338
(47) 24.01.2025
(22) 10.07.2023
(54) Cargo tricycle
(73) Cycloon Holding B.V.
(72) Jort Roeterd
Daniel van den Hoorn
Sander Leon de Wit
Wouter Rogier Loman
(74) W.J. Slikker

(51) B63B 17/02

B60J 7/12
(11) 2035361
(47) 27.01.2025
(22) 13.07.2023
(54) Vaartuig
(73) Vlootbeek Beheer B.V.
(72) Gerardus Jozef Eduard Houben
(74) ir. C.G.C. Veldman-Dijkers

(51) B64U 10/40
B64U 30/10
B64U 50/13
B64C 33/00
A01M 99/00
(11) 2035392
(47) 28.01.2025
(22) 14.07.2023
(54) ROBOTIC BIRD
(73) CFS GreenX Holding B.V.
(72) Jan-Willem van den Eijkel
(74) W.J. Slikker

(51) B65B 11/00
B65B 11/58
B65B 25/14
(11) 2035369
(47) 27.01.2025
(22) 13.07.2023
(54) Methods and arrangements for providing two sleeves of packaging material around a mail item
(73) Buhrs Packaging Solutions B.V.
(72) Fransiscus Maria Mous
(74) ir. H.A. Witmans c.s.

(51) B65B 23/06
B65G 21/20
B65G 47/71
B65B 35/44
(11) 2035402
(47) 28.01.2025
(22) 17.07.2023
(54) An egg processing apparatus, and a method for redistributing eggs
(73) Moba Group B.V.
(72) Robert Nieuwenhuis
Gerrit van Heerd
Kasper Carlo Veenje
(74) ir. H.A. Witmans c.s.

(51) B66C 13/04
B66C 13/02
(11) 2035388
(47) 28.01.2025
(22) 14.07.2023
(54) Shockload limiting system
(73) Heerema Marine Contractors Nederland SE
(72) Jurgen Albertus de Jong
(74) ir. J.C. Volmer c.s.

(51) C02F 1/46
A01C 23/04
B01F 23/40
C02F 1/72
C02F 1/78
B01F 101/04
B01F 101/32
(11) 2035401
(47) 28.01.2025
(22) 17.07.2023
(54) Fertilisation and disinfection system using plasma activated water
(73) VitalFluid B.V.
(72) Pieter Polo van Ooij
Danique Anouk van der Krieken
(74) dr. R.C. van Duijvenbode c.s.

(51) C02F 1/46
C02F 1/72
C02F 1/78
(11) 2035400
(47) 28.01.2025
(22) 17.07.2023
(54) System and a method for treating plasma-activated water
(73) VitalFluid B.V.
(72) Rohit Chaudhary
Pieter Polo van Ooij
Danique Anouk van der Krieken
(74) dr. R.C. van Duijvenbode c.s.

(51) C02F 3/00
C02F 3/34
(11) 2035353
(47) 24.01.2025
(22) 12.07.2023
(54) Cloud-based automated governance system for treating black and odorous water bodies
(73) Tianjin Research Institute for Water Transport Engineering, M.O.T.
Tianjin Binhai New Area Center for Disease Control and Prevention
(72) Li Mingzhe
Lu Dan
Luo Xiaoyu
Zhou Jinxiang
Sun Gaocheng
Li Xiuli
Cao Lihua
Chang Mingyue
Li Yang
Zhao Hongyan
Liao Hui
Li Guangtao
Li Mingming
Han Xue
Zhang Lingyan
(74) ir. W.J.J.M. Kempes
(31) 2023107989926
(32) 04.07.2023
(33) China

(51) C02F 3/30
(11) 2036796
(47) 28.01.2025
(22) 12.01.2024
(54) COLD-RESISTANT INTELLIGENT INTEGRATED SEWAGE TREATMENT EQUIPMENT
(73) Shenyang Everbright Environmental Protection Technology Co., Ltd.
(72) Rong Ren
Meixiao Li
Youqing Gao
Xiaoguang Zhang
(74) ir. F.A. Geurts c.s.
(31) 202310864054.1
(32) 14.07.2023
(33) China

(51) C07C 401/00
(11) 2035322
(47) 24.01.2025
(22) 10.07.2023
(54) METHOD FOR EXTRACTING VITAMIN D FROM ANIMAL LUNGS
(73) Northwest Institute of Plateau Biology, Chinese Academy of Sciences
Qinghai University
(72) Chongyang Dai
Tongzuo Zhang
Xiaoyan Pu
Xue Lin
Yaxuan Wang
(74) ir. W.J.J.M. Kempes

(51) C07H 1/08
C07H 17/07
(11) 2035377
(47) 28.01.2025
(22) 13.07.2023
(54) METHOD FOR EXTRACTING NARINGIN FROM PLANTS BY COUNTER-CURRENT HOT WATER METHOD
(73) Meizhou Nanfang Jinyou Research Institute
Southwest University
Guangdong Lijinyou Agricultural Science & Technology Co., Ltd.
(72) Houjiu Wu
Yongsheng Li
Jiaqi Li
Xuegen Huang
Linhua Huang
Weiling Chen
(74) ir. M.B. Plaggenborg

(51) C08J 5/22
C02F 1/469
C25B 1/04
B01D 61/42
B01D 69/12
B01J 47/00
H01M 8/1053
(11) 2035348
(47) 24.01.2025
(22) 11.07.2023
(54) METHOD FOR CONTINUOUSLY ASSEMBLING A BIPOLAR MEMBRANE, BIPOLAR MEMBRANE, AND USE OF SAID BIPOLAR MEMBRANE
(73) Stichting Wetsus, European Centre of Excellence for Sustainable Water Technology
(72) Machiel Saakes
Emad Mohammed Noman Al-Dhubhani
(74) dr. ir. G.J.C. Verdijck c.s.

(51) C08J 11/26
C08J 11/28
C07C 227/16
C08K 5/17
C07C 69/82
C08G 63/183
(11) 2037731
(47) 27.01.2025
(22) 21.05.2024
(54) SYNTHESIS AND APPLICATION OF GREEN-SOURCED ADJUVANT FOR RECYCLING POLYETHYLENE TEREPHTHALATE

(73) Taiyuan University of Science and Technology
(72) Yanli Zhang
Dan Zhou
Tianjiao Zhao
Wenju Cui
Bo Wang
Yuying Zhao
Yuyan Wang
Jianmin Zhang
Meizhen Wang
Yapeng Dong
(74) ir. M.B. Plaggenborg
(31) 202311728437.2
(32) 15.12.2023
(33) China

(51) C12M 1/36
G05B 13/02
G06N 3/08
G16B 5/30
(11) 2035389
(47) 28.01.2025
(22) 14.07.2023
(54) Method for modelling one or more bioprocesses in a bioreactor
(73) Applikon Biotechnology B.V.
(72) Wilbert Timotheüs Walvoort
Leo Veenstra
(74) ir. A. Blokland c.s.

(51) C12N 15/113
C07K 14/47
C12N 5/09
(11) 2036931
(47) 27.01.2025
(22) 30.01.2024
(54) Human Ovarian Cancer Cell Line SKOV3-sh-MUC1, Constructing Method and Uses Thereof
(73) Zhejiang Chinese Medical University
(72) Qingling Liu
Ye Xu
Fangfang Tao
Hong Huang
(74) M. Schmid
(83) C202308
09.01.2023
China Center for Type Culture Collection (CCTCC)
College of Life Sciences, Wuhan University, Wuhan 430072, China
(31) 2023100462226
(32) 31.01.2023
(33) China

(51) C12Q 1/6888
(11) 2037667
(47) 27.01.2025
(22) 11.05.2024
(54) MITOCHONDRIAL DNA SNP MOLECULAR MARKERS RELATED TO PIG BACK FAT THICKNESS AND THEIR APPLICATIONS
(73) China Agricultural University
(72) Yunxiang Zhao
Hai Xiang
Wenpeng Li
Xingbo Zhao
(74) dr. J. van Straaten

(51) C12Q 1/689
(11) 2037984
(47) 27.01.2025
(22) 19.06.2024
(54) LAMP RAPID MOLECULAR DETECTION METHOD FOR SEA BUCKTHORN PHYTOPLASMA
(73) Shanxi Academy of Forestry and Grassland Sciences
(72) Caihong Zhang
Yuemei Chang
Yulong Wang
Lijun Liang
Yaqin Cui
Junhong Wei
Chongjuan You
(74) dr. T. Wittop Koning PhD
(31) 202311139014.7
(32) 05.09.2023
(33) China

(51) E02D 7/18
E02D 11/00
E02D 13/02
B06B 1/06
B06B 1/18
(11) 2035355
(47) 27.01.2025
(22) 12.07.2023
(54) VIBRATOR ASSEMBLY
(73) IQIP Holding B.V.
(72) Boudewijn Casper Jung
(74) dr. A. Krebs

(51) E02F 3/88
E02F 5/00
C02F 11/00
E02B 3/18
(11) 2035381
(47) 28.01.2025
(22) 13.07.2023
(54) MUD RECLAMATION AND CURING OPERATION SYSTEM
(73) Zhengzhou Institute of Mineral Resources Comprehensive Utilization, Chinese Academy of Geological Sciences
(72) Chi Ma
Hui Xia
Likuan Zhu
Pengju Cheng
Bangwen Lu
Naiqi Feng
Jungang Guo
(74) ir. M.B. Plaggenborg

(51) E06B 1/08
E06B 1/10
E06B 1/60
(11) 2035317
(47) 24.01.2025
(22) 10.07.2023
(54) A frame system for framing an opening in a wall
(73) Arnold Jacob Bernard Bulder
Peter de Jong
(72) Peter de Jong
Arnold Jacob Bernard Bulder
(74) J.G. Laddé MSc

(51) E06B 7/10
(11) 2035340
(47) 24.01.2025
(22) 11.07.2023
(54) Raamkozijnen
(73) Van der Zee Kunststofkozijnen B.V.
(72) Kadir Deniz
(74) ir. B.J. 't Jong

(51) E21B 41/00
B60D 1/00
(11) 2035329
(47) 24.01.2025
(22) 10.07.2023
(54) A METHOD AND SYSTEM FOR TRANSPORTING A GEOTECHNICAL APPARATUS
(73) FNV IP B.V.
(72) Michael Adrianus Brabander
Geofrey Leonardus Anthony van Leeuwen
Adrianus Petrus Maria Brabander
(74) R.J. Burnaby Lautier

(51) F03D 80/50
E04G 3/24
E04G 3/30
(11) 2035372
(47) 28.01.2025
(22) 13.07.2023
(54) Modular working platform for maintaining a wind turbine
(73) Sky-Access B.V.
(72) Marinus Michel Jacobus Maria van Oorschot
Ronnie Gerard Peter van Baal
(74) dr. A. Ellens c.s.

(51) F21V 1/00
(11) 2035316
(47) 24.01.2025
(22) 09.07.2023
(54) TRACKING SYSTEM
(73) Meloflow Innovations B.V.
(72) Erik Johannes Martinus Berends
(74) ir. A. van der Maarl

(51) F24F 1/56
F24F 1/60
F24F 13/20
(11) 2035371
(47) 28.01.2025
(22) 13.07.2023
(54) Prefab roof built-in assembly for inner and outer units of air treatment devices with a floor frame carrying the inner unit hanging underneath a housing carrying the outer unit.
(73) Breman Installatiefabriek IJsselmuiden B.V.
(72) Maarten Rook
(74) ir. J.C. Volmer c.s.

(51) F27D 1/14
F23M 5/04
E04B 1/41
E04B 1/04
(11) 2035391
(47) 28.01.2025
(22) 14.07.2023
(54) Anchor system for refractory linings
(73) SILICON Holding B.V.
(72) Koen van Mil
Henry Kojo Ofosuhene Wilson
Danielle Francesca Garot

Jerome Michael Garot
Mink van Zeijl
(74) ir. A. Blokland c.s.

(51) G01N 30/06
(11) 2038014
(47) 27.01.2025
(22) 21.06.2024
(54) METHOD FOR DETERMINING KETONE AROMA COMPONENTS IN CIGARETTE SMOKEBY GAS CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY (GC-MS/MS)
(73) YUNNAN TOBACCO QUALITY INSPECTION AND SUPERVISION STATION
(72) Yanbo Luo
Kai Liu
Zilong Zhang
Yuchen Liu
Junwen Li
Jianlong Gu
Shuai Yang
Wei Liu
Jun Ma
Songyan Tan
Jieyun Cai
Yongqiang Pang
(74) ir. W.J.J.M. Kempes
(31) 202410161515.3
(32) 05.02.2024
(33) China

(51) G01N 33/68
G01N 33/02
(11) 2035379
(47) 28.01.2025
(22) 13.07.2023
(54) METHOD FOR DETECTING NUTRITIONAL INGREDIENTS OF FOOD
(73) Hangzhou Vocational and Technical College
(72) Da He
(74) ir. M.B. Plaggenborg

(51) G03F 7/00
(11) 2035346
(47) 24.01.2025
(22) 11.07.2023
(54) System and method for imprinting
(73) MORPHOTONICS HOLDING B.V.
(72) Rob Antonius Waltherus Neelen
(74) ir. H.Th. van den Heuvel c.s.

(51) G06F 1/26
G06F 1/04
H03K 19/17772
(11) 2035383
(47) 28.01.2025
(22) 14.07.2023
(54) System-on-Module comprising a field programmable gate array component and a connector for connecting the System-on-Module to a carrier board, as well as a carrier board comprising a System-On-Module.
(73) TOPIC Embedded Products B.V.
(72) Dirk Otto van den Heuvel
(74) ir. A. Blokland c.s.

(51) G06F 3/16
G06Q 30/06
G06F 40/30
(11) 2035378
(47) 28.01.2025
(22) 13.07.2023
(54) MAN-MACHINE INTERACTIVE SYSTEM APPLIED TO SMART HOME
(73) Hangzhou Vocational and Technical College
(72) Hui Zhao
(74) ir. M.B. Plaggenborg

(51) G06N 20/00
(11) 2036872
(47) 27.01.2025
(22) 23.01.2024
(54) Method of joint computation offloading and resource allocation in multi-edge smart communities with personalized federated deep reinforcement learning
(73) Fuzhou University
(72) Bing Xiong
Zhiqin Huang
Pengfei Wang
Junjie Zhang
Zheyi Chen
(74) dr. J. van Straaten

(51) G06Q 50/26
G16Y 40/10
G06V 20/10
G06F 16/29
G06Q 10/04
G06Q 90/00
(11) 2037205
(47) 27.01.2025
(22) 08.03.2024
(54) DYNAMIC ASSESSMENT SYSTEM AND METHOD FOR MONITORING GRASSLAND CARBON STORAGE CAPACITY
(73) Inner Mongolia Academy of Agriculture and Animal Husbandry Sciences
(72) Jinfu Fan
Jingang Bao
Guomei Yin
Dezhi Yun
Peigong Wu
Ru Yan
Pujin Zhang
Liang Chen
Hong Chang
Yanjun Tian
Qin Si
Sibo Liu
Xinchao Liu
Yaertu Ba
Ruhan Ye
Longshan Bao
(74) dr. J. van Straaten

(51) G06Q 50/40
(11) 2034358
(47) 27.01.2025
(22) 16.03.2023
(54) BUS SCHEDULING SIMULATION SYSTEM BASED ON PASSENGER FLOW BIG DATA ANALYSIS
(73) Tianjin University
(72) Ning Jia
Mengyang Li
Geng Li
Shiquan Zhong
Shoufeng Ma
Junfang Tian
Shuxian Xu
Shuai Ling
(74) dr. T. Wittop Koning PhD
(31) 202310162264.6
(32) 23.02.2023
(33) China

(51) G08G 1/00
G08G 1/0965
G08G 1/01
G08G 1/052
G08G 1/0962
G08G 1/0967
B60W 50/14
G01C 21/36
H04W 4/46
(11) 2037147
(47) 28.01.2025
(22) 29.02.2024
(54) FLEET MANAGEMENT SYSTEM BASED ON INTERNET OF VEHICLES
(73) Chongqing College of Electronic Engineering
(72) Guozhong Wang
Zhangyong Li
Yaxiong Tao
(74) ir. M.B. Plaggenborg

(51) G08G 1/01
G08G 1/08
G08G 1/04
G08G 1/054
G08G 1/0967
G08G 1/0968
G06V 20/54
H04W 4/44
(11) 2037148
(47) 27.01.2025
(22) 29.02.2024
(54) VEHICLE-ROAD COLLABORATIVE TRAFFIC CONTROL SYSTEM
(73) Chongqing College of Electronic Engineering
(72) Yaxiong Tao
Bin Wang
Guozhong Wang
(74) ir. M.B. Plaggenborg

(51) G10K 11/16
(11) 2035366
(47) 24.01.2025
(22) 13.07.2023
(54) Noise mitigation system and method for mitigating underwater sound emissions from a source of sound
(73) TME B.V.
(72) Ruben Hooikammer
Jasper Hollewand
(74) ir. F.A. Geurts c.s.

(51) G16H 50/20
A61B 3/00
G06N 5/01
(11) 2035344
(47) 24.01.2025
(22) 11.07.2023

(54) METHOD FOR DETERMINING SPECTACLE PRESCRIPTION BASED ON DIOPTER EVALUATION
(73) Tianjin Eye Hospital
(72) Yan Wang
Shufan Ji
Mengdi Li
Xiao Liu
Haohan Zou
(74) ir. W.J.J.M. Kempes

(51) H01L 21/02
H01L 21/04
H01L 21/20
(11) 2035350
(47) 27.01.2025
(22) 11.07.2023
(54) Bonded diamond structures
(73) Technische Universiteit Delft
(72) Ryoichi Ishihara
Salahuddin Nur
(74) ir. A.R. Aalbers

(51) H01R 13/62
H01R 13/24
H01R 13/627
H01R 24/38
H01R 31/06
H01R 107/00
(11) 2035404
(47) 28.01.2025
(22) 17.07.2023
(54) DOCKING UNIT, CONNECTOR UNIT, AND DC POWER SUPPLY ASSEMBLY
(73) Smarter Living B.V.
(72) Milosz Rafal Bertman
Jean-Paul Otto
Willem Nicolaas Leendertse
(74) dr. ir. M.C.J.C.M. Kramer

(51) H02G 3/08
H02G 3/12
(11) 2035363
(47) 27.01.2025
(22) 13.07.2023
(54) WALL BOX
(73) Pipelife Nederland B.V.
(72) Mark Ploeg
Michel Wilhelmus Petrus Johannes Maria Aartsen
(74) dr. R.C. van Duijvenbode c.s.

(51) H02G 3/20
H02G 3/08
H02G 3/14
F21V 17/12
F21V 21/03
(11) 2035360
(47) 24.01.2025
(22) 12.07.2023
(54) An assembly for attaching a device to a wall, a building comprising a wall provided with the wall and a device attached via an assembly to the wall and a method for realising an attachment of a device to a wall
(73) Hertek B.V.
(72) Gerardus Johannes Franciscus de Crom
Koen Kwaspen
(74) ir. A. Blokland c.s.

(51) H02J 3/00
H02J 3/06
(11) 2035333
(47) 24.01.2025
(22) 10.07.2023
(54) ACTIVE DISTRIBUTION NETWORK GLOBAL OPTIMAL DISPATCHING METHOD BASED ON TIME SCALE
(73) University of South China
(72) Juan Wen
Xing Qu
Yuhong Zhao
Yanghong Tan
Jinfeng Xiao
Yifa Sheng
(74) ir. M.B. Plaggenborg

(51) H02J 3/36
H02M 1/00
(11) 2035351
(47) 27.01.2025
(22) 12.07.2023
(54) A Voltage Source Converter, VSC, of a VSC-High Voltage Direct Current, HVDC, network, as well as corresponding method.
(73) Technische Universiteit Delft
(72) Jose Luis Rueda Torres
Arcadio David Perilla Guerra
Martinus Arnoldus Matheus Maria van der Meijden
(74) ir. A. Blokland c.s.

(51) H02K 19/10
H02K 1/14
H02K 1/18
H02K 1/24
H02K 1/17
H02K 1/28
H02K 21/44
(11) 2034615
(47) 27.01.2025
(22) 18.04.2023
(54) TRANSVERSE AND SECTIONAL TYPE MAGNETIC FLUX HYBRID EXCITATION SWITCHED RELUCTANCE MOTOR
(73) CHONGQING JIAOTONG UNIVERSITY
(72) Xu Li
Zhaoxue Deng
Sunke Zhu
Sasa Zhang
(74) ir. M.B. Plaggenborg
(31) 202210833576.0
(32) 15.07.2022
(33) China

(51) H02S 20/23
F24S 25/61
F24S 25/33
F24S 40/00
(11) 2035393
(47) 28.01.2025
(22) 15.07.2023
(54) Montagesysteem voor montage van zonnepanelen op een dak
(73) Wilhelmus Johannes Leonardus de Gouw
(72) Wilhelmus Johannes Leonardus de Gouw
(74) ir. G.J.M. Verhees

(51) H02S 20/23
F24S 25/61
F24S 25/613
F24S 25/632
H02S 30/00
(11) 2035358
(47) 27.01.2025
(22) 12.07.2023
(54) SOLAR PANEL INSTALLATION SYSTEM
(73) ROEF B.V.
(72) Hendrik Philip Ferdinand Schaling
(74) ir. J.C. Volmer c.s.

(51) H02S 20/24
H02S 40/12
H02S 40/44
H02S 40/42
(11) 2035395
(47) 28.01.2025
(22) 17.07.2023
(54) Lichtgewicht zonnedak voorzien van koeling/verwarming
(73) WEDA Holland B.V.
(72) Richard Donkers
(74) ir. G.J.M. Verhees

(51) H02S 20/26
H02S 20/30
H02S 30/10
(11) 2036898
(47) 27.01.2025
(22) 26.01.2024
(54) BUILDING INTEGRATED PHOTOVOLTAICS STRUCTURE
(73) Heilongjiang Institute Of Construction Technology
Harbin Institute Of Technology
(72) Long Ma
Shiliang Lu
Maoqing Cao
Qi Guo
Zijun Wang
Riqiang Li
Lei Li
Wenrui Cao
(74) dr. T. Wittop Koning PhD

(51) H02S 99/00
B66C 1/22
A62C 99/00
(11) 2035314
(47) 24.01.2025
(22) 08.07.2023
(54) System and method for removing solar panels from a roof
(73) Diederik Jan van der Worp
(72) Gerhardus van der Worp
(74) J.G. Laddé MSc

NP3

Nederlandse octrooien na gedeeltelijke afstand ex artikel 63 van de Rijksoctrooiwet 1995.
Netherlands patents after partial limitation ex Article 63 of the NL Patent Law 1995.

EP1

Vertaalde conclusies van Europese octrooiaanvragen.
Translations of the claims of European patent applications.

EP2

Voor Nederland verleende Europese octrooien.
European patents granted for the Netherlands.

(51) A01B 29/04
(11) EP4245104
(21) EP22162511.4
(47) 29.01.2025
(22) 16.03.2022
(54) APPARATUS FOR PACKING SOIL AND METHOD OF MANUFACTURE OF THE APPARATUS
(73) Kverneland Group Operations Norway AS
(72) Sigmundstad, Stian
Werner, Dag Arne

(51) A01B 59/043
A01B 59/06
A01B 59/00
(11) EP3892076
(21) EP21167628.3
(47) 29.01.2025
(22) 09.04.2021
(54) HOLDING DEVICE FOR AN UPPER LINK
(73) CLAAS Tractor S.A.S.
(72) Gehrke, Rudolf
(31) 202020001522 U
(32) 11.04.2020
(33) Germany

(51) A01B 63/111
A01B 63/00
A01B 79/00
(11) EP4133921
(21) EP22168285.9
(47) 29.01.2025
(22) 14.04.2022
(54) METHOD FOR COLLECTING AGRICULTURAL MEASUREMENT DATA IN AN AGRICULTURAL WORKING MACHINE
(73) CLAAS Tractor SAS
(72) Wieckhorst, Jan Carsten
Ehlert, Christian
Birkmann, Christian
(31) 102021120757
(32) 10.08.2021
(33) Germany

(51) A01B 79/00
G06T 7/13
G06V 10/44
G06V 10/54
G06V 20/10
(11) EP4042851
(21) EP22156167.3
(47) 29.01.2025
(22) 10.02.2022
(54) SYSTEMS AND METHODS FOR SOIL CLOD DETECTION
(73) CNH Industrial Belgium NV
(72) HENRY,, James W.
WARWICK,, Christopher Nicholas
(31) 202117175138
(32) 12.02.2021
(33) United States of America

(51) A01C 7/04
A01C 7/08
A01C 21/00
(11) EP4233511
(21) EP23180444.4
(47) 29.01.2025
(22) 08.05.2019
(54) PLANTING UNIT FOR A SEEDING MACHINE
(73) Deere & Company
(72) WERNER, Roland
KREMMER, Martin
(31) 201916298689
201862669018 P
(32) 11.03.2019
09.05.2018
(33) United States of America
United States of America

(51) A01C 7/04
A01C 7/08
A01C 21/00
(11) EP4233512
(21) EP23180446.9
(47) 29.01.2025
(22) 08.05.2019
(54) PLANTING UNIT FOR A SEEDING MACHINE
(73) Deere & Company
(72) KREMMER, Martin
WERNER, Roland
(31) 201916298689
201862669018 P
(32) 11.03.2019
09.05.2018
(33) United States of America
United States of America

(51) A01C 7/04
A01C 15/00
(11) EP4305942
(21) EP22184396.4
(47) 29.01.2025
(22) 12.07.2022
(54) SOWING CORE WITH STIRRER FOR A SOWING MACHINE
(73) Kverneland Group Soest GmbH
(72) Korn, Karl-Ulrich

(51) A01C 7/10
A01C 7/20
(11) EP4049523
(21) EP22401003.3
(47) 29.01.2025
(22) 14.02.2022
(54) METHOD FOR CONTACTLESS SENSING OF GRANULAR MATERIAL WITHIN AN AGRICULTURAL SPREADER
(73) Amazonen-Werke H. Dreyer SE & Co. KG
(72) Radeke, Jan Philipp
Wien, Thomas
Bulmahn, Simon
(31) 102021104531
(32) 25.02.2021
(33) Germany

(51) A01C 7/20
A01B 63/02
A01C 7/00
(11) EP4066612
(21) EP21166481.8
(47) 29.01.2025
(22) 31.03.2021
(54) WORKING UNIT OF A CULTIVATOR
(73) Czajkowski Maszyny Sp. z o.o.
(72) Czajkowski, Maciej

(51) A01C 15/00
B65D 21/08
B65D 6/26
(11) EP4307875
(21) EP22717001.6
(47) 29.01.2025
(87) IB2022052319
22.09.2022
(22) 15.03.2022
(54) RAISED WALL FOR HOPPERS, IN PARTICULAR FOR FERTILIZER SPREADING MACHINES AND HOPPER OBTAINED IN THIS MANNER
(73) Maschio Gaspardo S.p.A.
(72) ZARAMELLA, Stefano
MASCHIO, Andrea
(31) 202100006416
(32) 17.03.2021
(33) Italy

(51) A01D 34/00
A01D 34/78
A01D 34/81
(11) EP3888440
(21) EP21166290.3
(47) 29.01.2025
(22) 31.03.2021
(54) A ROBOTIC MOWER WITH INTEGRATED ASSEMBLIES
(73) Globe (Jiangsu) Co., Ltd.
(72) ZHUANG, Xian
ZHOU, Yupu
PU, Zhigao
CAO, Jin
WANG, Huage
GAO, Jie
LI, Wanghao
STRANDBERG, Stefan
BUI, Van Cuong
LI, Zhiyuan
(31) 202023091979 U
202023094522 U
202011519837
202023094544 U
202011518322
202023096313 U
202011518419
202023096201 U
202011518432

202023096221 U
202011519711
202023096114 U
202011533027
202020991642 U
202020800248 U
202020799218 U
202020732348 U
202010376995
202020731501 U
202010384328
202020731675 U
202020731685 U
202020701949 U
202020441934 U
(32) 21.12.2020
21.12.2020
21.12.2020
21.12.2020
21.12.2020
21.12.2020
21.12.2020
21.12.2020
21.12.2020
21.12.2020
21.12.2020
21.12.2020
21.12.2020
03.06.2020
14.05.2020
14.05.2020
07.05.2020
07.05.2020
07.05.2020
07.05.2020
07.05.2020
07.05.2020
30.04.2020
31.03.2020
(33) China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China
China

(51) A01D 34/00
G05D 1/00
(11) EP4085745
(21) EP22166422.0
(47) 29.01.2025
(22) 03.04.2022
(54) IMPROVED NAVIGATION FOR A ROBOTIC WORK TOOL
(73) HUSQVARNA AB
(72) FORSMAN, Pär
ÄRLIG, Ulf
(31) 2150560
(32) 03.05.2021
(33) Sweden

(51) A01D 34/416
(11) EP3981242
(21) EP21200441.0
(47) 29.01.2025
(22) 01.10.2021
(54) TOOL FOR MECHANICAL WEEDING, SUCKERING, OR BRUSHING THE SOIL
(73) Rad-Hub S.r.l.
(72) ALBERTI, Davide Francesco
(31) 202000023509
(32) 06.10.2020
(33) Italy

(51) A01D 34/416
(11) EP4066615
(21) EP22173924.6
(47) 29.01.2025
(22) 07.08.2019
(54) GRASS CUTTING HEAD
(73) Nanjing Chervon Industry Co., Ltd.
(72) REN, Dehong
GUO, Jianpeng
PENG, Ming
(31) 201810892146
(32) 07.08.2018
(33) China

(51) A01D 41/12
(11) EP4052558
(21) EP22159764.4
(47) 29.01.2025
(22) 02.03.2022
(54) SWING-OUT SPREADER FOR AGRICULTURAL COMBINES
(73) CNH Industrial Belgium NV
(72) Ohms, Travis
Hammer, Kevin
Murray, Craig E.
Sorenson, William
Seedorf, James
(31) 202163156582 P
(32) 04.03.2021
(33) United States of America

(51) A01D 46/247
(11) EP3809815
(21) EP18830439.8
(47) 29.01.2025
(87) EP2018085238
26.12.2019
(22) 17.12.2018
(54) FRUIT HARVESTING TOOL
(73) HUSQVARNA AB
(72) RENNER, Thomas
KLOOS, Michaela
(31) 102018004933
(32) 21.06.2018
(33) Germany

(51) A01F 15/07
A01F 15/08
(11) EP4129045
(21) EP22168341.0
(47) 29.01.2025
(22) 14.04.2022
(54) ROUND BALER AND METHOD FOR OPENING AN EJECTION FLAP OF A ROUND BALER
(73) Usines Claas France S.A.S
(72) Fritsch, Jeremie
Risse, Nicolas
Mörsch, Daniel
Obellianne, Steve
Dachelet, Thibaut
Wucher, Renaud
Rennert, Justus
Fuchs, Volker
Batancourt, Grégory
(31) 102021120404
(32) 05.08.2021
(33) Germany

(51) A01G 7/00
G01N 33/00
A01G 24/00
(11) EP4213614
(21) EP21783408.4
(47) 29.01.2025
(87) EP2021075144
24.03.2022
(22) 13.09.2021
(54) APPARATUS AND METHOD FOR CONTROLLING A GROWTH ENVIRONMENT OF A PLANT
(73) Vivent SA
(72) CARROLL, Caleb
(31) 202014673
(32) 17.09.2020
(33) United Kingdom

(51) A01G 9/033
(11) EP4466982
(21) EP23175309.6
(47) 29.01.2025
(22) 25.05.2023
(54) ROOF GREENING MODULE
(73) Comma GmbH
(72) BARGFELD, Oliver

(51) A01G 9/24
A01G 13/06
(11) EP4111851
(21) EP22181569.9
(47) 29.01.2025
(22) 28.06.2022
(54) AGRIVOLTAIC METHOD AND DEVICE FOR PROTECTING A PLANT AGAINST FREEZING
(73) Electricité de France
(72) DUPUIS, JULIEN
GRAND, PIERRE-PHILIPPE
GUERARD, CEDRIC
VAN ISEGHEM, Mike
BRIERE, ETIENNE
DUFOSSE, EVE
(31) 2106922
(32) 28.06.2021
(33) France

(51) A01G 13/06
A01G 13/08
(11) EP4104674
(21) EP22305882.7
(47) 29.01.2025

(22) 17.06.2022
(54) MODULE FOR PROTECTING A CULTIVATED SURFACE AGAINST FREEZING
(73) Ferrier, Philippe
Perrinet, Pierre
(72) Perrinet, Pierre
Ferrier, Philippe
(31) 2106499
(32) 18.06.2021
(33) France

(51) A01G 15/00
C08J 9/28
C08L 1/02
(11) EP4301126
(21) EP22707559.5
(47) 29.01.2025
(87) US2022016256
09.09.2022
(22) 14.02.2022
(54) METHOD OF GEOENGINEERING TO REDUCE SOLAR RADIATION
(73) Eastman Kodak Company
(72) NAIR, Mridula
LOBO, Lloyd Anthony
(31) 202217586876
202163155356 P
(32) 28.01.2022
02.03.2021
(33) United States of America
United States of America

(51) A01G 20/30
A01G 25/09
(11) EP4351315
(21) EP22721748.6
(47) 29.01.2025
(87) EP2022059470
15.12.2022
(22) 08.04.2022
(54) STATION AND SYSTEM FOR A SELF-MOVING DEVICE
(73) Husqvarna AB
(72) RENNER, Thomas
(31) 21178788
(32) 10.06.2021
(33) European Patent Office (EPO)

(51) A01G 25/09
(11) EP4329477
(21) EP21843712.7
(47) 29.01.2025
(87) EP2021087034
03.11.2022
(22) 21.12.2021
(54) GARDEN CARE VEHICLE, WATER SUPPLY STATION AND SYSTEM COMPRISING A GARDEN CARE VEHICLE AND A WATER SUPPLY STATION
(73) HUSQVARNA AB
(72) SCHENK, Christoph
(31) 21171507
(32) 30.04.2021
(33) European Patent Office (EPO)

(51) A01H 6/82
C12Q 1/68
(11) EP2648500
(21) EP11807988.8
(47) 29.01.2025
(87) IB2011003088
14.06.2012
(22) 07.12.2011
(54) PHYTOPHTHORA RESISTANCE IN SWEET PEPPERS
(73) HM.CLAUSE
(72) SICARD, Ophélie
BASTERREIX, Claude
MOREAU, Michael
MARCHAL, Cécile
DENET, Frédéric
(31) 963200
(32) 08.12.2010
(33) United States of America

(51) A01J 25/11
A23C 19/024
(11) EP4070651
(21) EP22160721.1
(47) 29.01.2025
(22) 08.03.2022
(54) METHOD FOR ADJUSTING THE DRY MATTER CONTENT OF CONCENTRATES IN QUARK PRODUCTION AND DEVICE FOR CARRYING OUT THE METHOD
(73) GEA Westfalia Separator Group GmbH
(72) WITTELMANN, Kai
BUSSMANN, Daniel
VEER, Thomas
BEICK, Lennart
(31) 102021108269
(32) 31.03.2021
(33) Germany

(51) A01K 7/02
C02F 1/32
(11) EP3626057
(21) EP19198170.3
(47) 29.01.2025
(22) 19.09.2019
(54) A LIQUID DISPENSER FOR ANIMALS
(73) LG Electronics Inc.
(72) KIM, Youngdon
EUN, Yousook
YOO, Hyunsun
YOUN, Jekwang
KIM, Sunkyung
KIM, Myongsun
KIM, Joogyeom
CHUN, Jaehung
(31) 20190088431
20190088430
20190075692
20190070281
20190070282
20190070284
20190070278
201862733393 P
(32) 22.07.2019
22.07.2019
25.06.2019
13.06.2019
13.06.2019
13.06.2019
13.06.2019
19.09.2018
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
United States of America

(51) A01K 15/00
A61D 7/00
(11) EP4312524
(21) EP22719891.8
(47) 29.01.2025
(87) EP2022058546
06.10.2022
(22) 31.03.2022
(54) NOSE RING FOR RUMINANTS
(73) Ceva Santé Animale
(72) GUIMBERTEAU, Florence
TIMSIT, Edouard
LACOSTE, Sandrine
(31) 21166768
(32) 01.04.2021
(33) European Patent Office (EPO)

(51) A01K 29/00
G06Q 50/02
G10L 25/66
G10L 17/26
(11) EP4412448
(21) EP23749118.8
(47) 29.01.2025
(87) EP2023071933
15.02.2024
(22) 08.08.2023
(54) METHOD AND SYSTEM FOR ASSESSING LIVESTOCK WELFARE BASED ON THE ANALYSIS OF ANIMALS VOCALIZATION AUDIO SIGNALS
(73) Cealvet Slu
(72) FORMIGA I FANALS, Lluís
PANISELLO MONJO, Maria Teresa
GINOVART PANISELLO, Gerardo José
(31) 22382773
(32) 09.08.2022
(33) European Patent Office (EPO)

(51) A01K 61/60
A01K 61/55
A01K 61/54
(11) EP3626073
(21) EP19198502.7
(47) 29.01.2025
(22) 20.09.2019
(54) AQUAFARMING SYSTEM
(73) Bouctouche Bay Industries Ltd.
(72) GUNDERSON, Steen Nicholas
(31) 3018010
(32) 20.09.2018
(33) Canada

(51) A01K 67/033
(11) EP4285718
(21) EP23172245.5
(47) 29.01.2025
(22) 09.05.2023
(54) APPARATUS AND METHOD FOR GROWING ARTHROPODS
(73) de Asmundis Green Research BV
(72) DE ASMUNDIS, Fulvio Antonio
(31) 202200011567
(32) 31.05.2022

(33) Italy

(51) A01K 89/01
(11) EP4260699
(21) EP23155208.4
(47) 29.01.2025
(22) 06.02.2023
(54) FISHING REEL
(73) Globeride, Inc.
(72) HORIE, Hironori
TSUSHIMA, Daisuke
(31) 2022057882
(32) 31.03.2022
(33) Japan

(51) A01M 7/00
(11) EP3981248
(21) EP21201502.8
(47) 29.01.2025
(22) 07.10.2021
(54) APPARATUS FOR SPRAYING CROPS
(73) Martignani Ing. C. Di Martignani Stefano & C. S.r.l.
(72) MORELLI, Massimo
MARTIGNANI, Stefano
(31) 202000023995
(32) 12.10.2020
(33) Italy

(51) A01N 1/02
A61L 27/38
A61L 27/54
C12N 5/071
A61P 5/00
A61P 17/02
A61P 43/00
(11) EP3227431
(21) EP15865131.5
(47) 29.01.2025
(87) US2015063114
09.06.2016
(22) 01.12.2015
(54) METHODS FOR DEVELOPMENT AND USE OF MINIMALLY POLARIZED FUNCTION CELL MICRO-AGGREGATE UNITS IN TISSUE APPLICATIONS USING LGR4, LGR5 AND LGR6 EXPRESSING EPITHELIAL STEM CELLS
(73) Grander Acquisition LLC
(72) LOUGH, Denver, M.
(31) 201514954335
201462086526 P
(32) 30.11.2015
02.12.2014
(33) United States of America
United States of America

(51) A01N 33/00
C05G 1/00
C05G 3/00
C05F 11/00
C12P 13/00
C05F 11/10
C05G 5/10
C05G 5/12
C05C 9/00
(11) EP3935943
(21) EP19919526.4
(47) 29.01.2025
(87) ES2019000019
17.09.2020
(22) 08.03.2019
(54) FERTILISER COMPOSITION THAT INCLUDES TYRAMINE AS AN ENHANCER OF NITROGEN THAT CAN BE ASSIMILATED BY PLANTS AND USE OF SAME
(73) Fertinagro Biotech, S.L.
(72) ROMERO LOPEZ, Joaquin
ATARES REAL, Sergio
YANCE CHAVEZ, Tula Del Carmen
CABALLERO MOLADA, Marcos
FUERTES DOÑATE, Carlos
FERRER GINES, Maria
SALAET MADORRAN, Ignasi

(51) A01N 43/40
A61L 31/10
A01P 1/00
(11) EP4475678
(21) EP23840685.4
(47) 29.01.2025
(87) EP2023087593
27.06.2024
(22) 22.12.2023
(54) A MEDICAL DEVICE COMPRISING A COATING FOR MITIGATION OF FORMATION AND/OR GROWTH OF BIOFILM
(73) Cytacoat AB
(72) WIRSÉN, Per
BROOKES, Graeme
RHODES, Alan
(31) 2251571
(32) 23.12.2022
(33) Sweden

(51) A01N 55/00
A01P 1/00
A01N 33/12
A01N 43/66
(11) EP4258879
(21) EP21830777.5
(47) 29.01.2025
(87) IB2021061411
16.06.2022
(22) 07.12.2021
(54) SURFACE ANTIMICROBIAL TREATMENTS
(73) Crossing S.r.l.
(72) BEGHETTO, Valentina
GATTO, Vanessa
CONCA, Silvia
BARDELLA, Noemi
(31) 202000030179
(32) 11.12.2020
(33) Italy

(51) A01N 59/00
A01N 59/16
A01P 1/00
C02F 1/46
C02F 1/461
C02F 1/72
C09D 5/14
A01N 25/08
A01N 25/34
(11) EP4048074
(21) EP21729470.1
(47) 29.01.2025
(87) EP2021064108
02.12.2021
(22) 26.05.2021
(54) BIOACTIVE COMPOSITION FOR KILLING CELLS
(73) AGXX Intellectual Property Holding GmbH
(72) WAGNER, Olaf
MEYER, Carsten
ABUL-ELLA, Ayad
LANDAU, Uwe
(31) 20195684
20176476
(32) 11.09.2020
26.05.2020
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) A01N 63/00
A01N 59/00
A01P 1/00
(11) EP4135522
(21) EP21721587.0
(47) 29.01.2025
(87) GB2021050900
21.10.2021
(22) 14.04.2021
(54) KIT COMPRISING TWO OR THREE SOLID COMPOSITION FOR PRODUCING ANTIBACTERIAL, ANTIVIRAL, ANTIFUNGAL AND DISINFECTANT SOLUTIONS
(73) Qures Group Ltd
(72) STEAD, Richard
(31) 202005432
(32) 14.04.2020
(33) United Kingdom

(51) A01N 63/38
A01N 61/00
A01P 21/00
(11) EP3897157
(21) EP19829407.6
(47) 29.01.2025
(87) EP2019084063
25.06.2020
(22) 06.12.2019
(54) A PLANT GROWTH PROMOTER COMPOSITION, PROCESSES FOR PREPARING THE SAME AND USES THEREOF
(73) Green Innovation GmbH
UPM-Kymmene Corporation
(72) HÜBSCH, Christian
LEONARDI, Giuliano
PIETARINEN, Suvi
(31) 201800020869
(32) 21.12.2018
(33) Italy

(51) A22C 15/00
(11) EP4275505
(21) EP22172758.9
(47) 29.01.2025
(22) 11.05.2022
(54) HANGING LINE WITH SMOKING ROD LENGTH MEASUREMENT
(73) Poly-clip System GmbH & Co. KG
(72) Waldstädt, Manfred
Scheding, Markus

(51) A22C 21/00
(11) EP4275507
(21) EP23165278.5

(47) 29.01.2025
(22) 30.03.2023
(54) SYSTEM FOR REHANGING POULTRY
(73) Meyn Food Processing Technology B.V.
(72) AL, René Gerardus Hendricus
VAN STRALEN, Rick Sebastiaan
VAN STEIJN, Aloysius Christianus Maria
(31) 2031855
(32) 13.05.2022
(33) Netherlands

(51) A23C 1/16
A23L 2/10
A23L 2/84
A23L 5/20
A23L 11/00
A23L 11/30
(11) EP4351348
(21) EP22733036.2
(47) 29.01.2025
(87) EP2022065670
15.12.2022
(22) 09.06.2022
(54) A HYDROLYZED WHOLE COCONUT PRODUCT, USEFUL FOR EXAMPLE, AS A BEVERAGE OR AS A POWDER FOR DESERTS AND COOKING
(73) Société des Produits Nestlé S.A.
(72) MOCCAND, Cyril
TAN, Ching Theng
WAING, Seinn Lae
ANANTA, Edwin
DING, Xian Qiao
(31) 21179066
(32) 11.06.2021
(33) European Patent Office (EPO)

(51) A23C 20/02
(11) EP4422409
(21) EP23715961.1
(47) 29.01.2025
(87) IB2023053352
19.10.2023
(22) 03.04.2023
(54) SURFACE-RIPENED VEGAN FOOD PRODUCT AND METHOD OF MAKING THEREOF
(73) Eidgenössisches Departement für Wirtschaft, Bildung und Forschung (WBF) Agroscope
(72) BACHMANN, Hans-Peter
STOFFERS, Helena
SCHMIDT, Remo
(31) 22168069
(32) 13.04.2022
(33) European Patent Office (EPO)

(51) A23D 9/02
A23J 1/00
A23J 1/04
A23J 3/34
A23K 10/20
A23K 10/14
A23K 20/142
A23K 20/147
A23K 20/158
A23K 50/80
A23L 33/17
C11B 1/02
C11B 1/06
(11) EP4075994
(21) EP20828568.4
(47) 29.01.2025
(87) NL2020050801
24.06.2021
(22) 17.12.2020
(54) METHOD FOR THE CONVERSION OF INSECTS INTO INSECT PULP AND NUTRIENT STREAMS, INSECT PULP OBTAINABLE BY THIS METHOD
(73) Protix B.V.
(72) PAUL, Aman
(31) 2025547
2024481
PCT/NL2020/050571
(32) 11.05.2020
17.12.2019
16.09.2020
(33) Netherlands
Netherlands
World Intellectual Property Office (WIPO)

(51) A23G 9/00
A23G 9/08
A23G 9/28
F25C 5/12
A23G 9/16
A23G 9/22
A23G 9/30
A23G 9/12
(11) EP4265119
(21) EP23189378.5
(47) 29.01.2025
(22) 30.04.2019
(54) DOOR AND BAFFLE INTERFACE ASSEMBLY FOR FROZEN DESSERT MACHINES
(73) Taylor Commercial Foodservice, LLC
(72) MATZ, Nathan
BUSH, Mark, E.
(31) 201862665764 P
(32) 02.05.2018
(33) United States of America

(51) A23K 10/22
A23K 50/80
(11) EP2908658
(21) EP13779206.5
(47) 29.01.2025
(87) EP2013071687
24.04.2014
(22) 17.10.2013
(54) PROCESS FOR PRODUCTION OF ANIMAL FEED COMPONENTS BASED ON MUSSELS
(73) MusselFeed AB
(72) LINDAHL, Odd
(31) 12188952
(32) 18.10.2012
(33) European Patent Office (EPO)

(51) A23L 2/02
A23L 5/20
(11) EP3930478
(21) EP20718000.1
(47) 29.01.2025
(87) US2020019646
03.09.2020
(22) 25.02.2020
(54) STABLE PROTEIN FORMULATIONS
(73) Amano Enzyme USA Co., Ltd.
Amano Enzyme Inc.
(72) OKUDA, Keita
LIOUTAS, Theodore S.
(31) 201962810891 P
(32) 26.02.2019
(33) United States of America

(51) A23L 5/00
A23L 5/10
(11) EP3967152
(21) EP20802019.8
(47) 29.01.2025
(87) JP2020018624
12.11.2020
(22) 08.05.2020
(54) PROCESSED FOOD AND MANUFACTURING METHOD THEREOF
(73) Nisshin Seifun Welna Inc.
(72) ITO, Takashi
HIWATASHI, Souichiro
SHIGEMATSU, Toru
TAKASU, Ryosuke
TSUJI, Akito
(31) 2019089060
(32) 09.05.2019
(33) Japan

(51) A23L 7/10
A23L 23/10
A23L 27/40
A23L 33/21
A23P 10/20
A23P 10/25
A23P 10/28
A23P 30/10
A23L 29/00
A23L 29/212
A23L 33/16
A21D 2/02
(11) EP3772996
(21) EP19713496.8
(47) 29.01.2025
(87) EP2019058192
10.10.2019
(22) 01.04.2019
(54) PROCESS FOR PREPARING A BOUILLON TABLET
(73) Société des Produits Nestlé S.A.
(72) BOZON, Annabel
KIM, Youngbin
BOBE, Ulrich
KEHLENBECK, Volker
GADDIPATI, Sanyasi
SCHROEDER, Volker
PERDANA, Jimmy
(31) 18166021
(32) 06.04.2018
(33) European Patent Office (EPO)

(51) A23L 7/109
A21D 13/40
A21C 11/20
A21C 3/04
(11) EP4369945
(21) EP22736312.4
(47) 29.01.2025
(87) EP2022069638
19.01.2023
(22) 13.07.2022
(54) PROCESS FOR THE PRODUCTION OF PASTA BY MEANS OF EXTRUSION

THROUGH A BRONZE DIE PLATE INSERT WITH GROOVES
(73) BARILLA G. e R. Fratelli S.p.A.
(72) PIZZABIOCCA, Flavia
BARDIANI, Italo
BARBA, Francesco
PANTO', Francesco
(31) 202100018494
(32) 13.07.2021
(33) Italy

(51) A23L 17/60
A23L 29/212
A23L 29/238
A23L 29/244
A23L 29/256
A23L 29/269
A23C 9/137
A23C 9/154
A23K 20/163
A61K 8/9706
A61Q 19/00
A61Q 19/10
A61Q 5/02
(11) EP3790411
(21) EP19713671.6
(47) 29.01.2025
(87) US2019023405
26.09.2019
(22) 21.03.2019
(54) METHOD OF PRODUCING A SEAWEED-BASED POWDER
(73) Cargill, Incorporated
(72) MAZOYER, Jacques André Christian
LOAEC, Aurélie
LEROY, Helene Christelle Odette
AGODA-TANDJAWA, Gueba
(31) 18163052
(32) 21.03.2018
(33) European Patent Office (EPO)

(51) A23L 23/10
A23L 27/40
A23L 33/16
A23P 10/20
A23P 10/25
A23P 10/28
A23P 30/10
A23L 29/00
A23L 29/231
A23L 29/262
A23L 33/22
(11) EP3773000
(21) EP19713085.9
(47) 29.01.2025
(87) EP2019058183
10.10.2019
(22) 01.04.2019
(54) PROCESS FOR PREPARING A BOUILLON TABLET
(73) Société des Produits Nestlé S.A.
(72) SCHROEDER, Volker
PERDANA, Jimmy
GADDIPATI, Sanyasi
BOZON, Annabel
KEHLENBECK, Volker
BOBE, Ulrich
KIM, Youngbin
(31) 18166011
(32) 06.04.2018
(33) European Patent Office (EPO)

(51) A23L 23/10
A23L 33/16
A23P 10/20
A23P 10/25
A23P 10/28
A23P 30/10
A23L 29/00
A23L 27/40
A23L 33/21
A23L 33/22
A23L 7/10
(11) EP3773001
(21) EP19713495.0
(47) 29.01.2025
(87) EP2019058188
10.10.2019
(22) 01.04.2019
(54) PROCESS FOR PREPARING A BOUILLON TABLET
(73) Société des Produits Nestlé S.A.
(72) GADDIPATI, Sanyasi
KIM, Youngbin
KEHLENBECK, Volker
BOBE, Ulrich
SCHROEDER, Volker
BOZON, Annabel
PERDANA, Jimmy
(31) 18166013
(32) 06.04.2018
(33) European Patent Office (EPO)

(51) A23L 29/212
A23L 27/40
A23L 23/10
A23P 10/25
A23P 10/28
A23P 30/10
A23P 10/20
A23L 29/00
A23L 29/219
A21D 2/02
(11) EP3773009
(21) EP19713086.7
(47) 29.01.2025
(87) EP2019058184
10.10.2019
(22) 01.04.2019
(54) PROCESS FOR PREPARING A SALT-STARCH POWDER WITH BINDING PROPERTIES
(73) Société des Produits Nestlé S.A.
(72) GADDIPATI, Sanyasi
SCHROEDER, Volker
BOBE, Ulrich
PERDANA, Jimmy
KIM, Youngbin
(31) 18166017
(32) 06.04.2018
(33) European Patent Office (EPO)

(51) A23L 29/256
A23K 50/90
A23K 20/163
A23K 20/24
(11) EP4369948
(21) EP22755243.7
(47) 29.01.2025
(87) FR2022051384
19.01.2023
(22) 08.07.2022
(54) METHOD FOR PREPARING A GEL BLOCK
(73) Ynsect
(72) SARTON DU JONCHAY, Thibault
PERYCHOU, Fanny
KIRECHE, Adam
LAFFORGUE, Anthony
(31) 2107607
(32) 13.07.2021
(33) France

(51) A23L 33/19
A61P 37/00
A61P 37/08
A23L 33/00
(11) EP4072322
(21) EP20820981.7
(47) 29.01.2025
(87) EP2020085752
17.06.2021
(22) 11.12.2020
(54) NUTRITIONAL COMPOSITION FOR IMPROVING IMMUNE FITNESS
(73) N.V. Nutricia
(72) POTAPPEL - VAN 'T LAND, Belinda
ABBRING, Suzanne
LOBATO-VAN ESCH, Betty
GARSSEN, Johan
(31) 19215272
(32) 11.12.2019
(33) European Patent Office (EPO)

(51) A23P 10/20
A23P 10/25
A23P 10/28
A23P 30/10
A23L 29/00
A23L 29/212
A23L 27/40
A23L 23/10
(11) EP3773015
(21) EP19714434.8
(47) 29.01.2025
(87) EP2019058185
10.10.2019
(22) 01.04.2019
(54) PROCESS FOR PREPARING A BOUILLON TABLET
(73) Société des Produits Nestlé S.A.
(72) GADDIPATI, Sanyasi
PERDANA, Jimmy
SCHROEDER, Volker
BOBE, Ulrich
KIM, Youngbin
(31) 18166019
(32) 06.04.2018
(33) European Patent Office (EPO)

(51) A24B 3/14
(11) EP4117459
(21) EP21717214.7
(47) 29.01.2025
(87) IB2021052037
16.09.2021
(22) 11.03.2021
(54) METHOD AND PLANT FOR PRODUCING RECONSTITUTED TOBACCO
(73) COMAS - COSTRUZIONI MACCHINE SPECIALI - S.p.A.

(72) GRANZOTTO, Gianfranco
(31) 202000005503
(32) 13.03.2020
(33) Italy

(51) A24F 40/40
A24F 40/20
A24F 40/46
A24D 1/20
A61M 11/04
A61M 15/00
A61M 15/06
(11) EP4337042
(21) EP22728452.8
(47) 29.01.2025
(87) EP2022062498
17.11.2022
(22) 09.05.2022
(54) AEROSOL GENERATING DEVICE COMPRISING A CUP-SHAPED HEATING CHAMBER DEFINING AN OPEN END AND A SEALED END
(73) JT International S.A.
(72) AKIYAMA, Takeshi
(31) 21173025
(32) 10.05.2021
(33) European Patent Office (EPO)

(51) A24F 40/40
A61M 11/04
A61M 15/06
A24F 40/465
A24F 40/50
A24F 40/95
(11) EP4238432
(21) EP23184932.4
(47) 29.01.2025
(22) 10.05.2022
(54) AEROSOL GENERATION DEVICE
(73) Japan Tobacco Inc.
(72) Nagahama, Toru
Yoshida, Ryo
Kawanago, Hiroshi
Aoyama, Tatsunari
Fujiki, Takashi
(31) 2021079911
(32) 10.05.2021
(33) Japan

(51) A24F 40/46
A24F 40/70
A24F 40/20
(11) EP4110116
(21) EP21707288.3
(47) 29.01.2025
(87) EP2021054895
02.09.2021
(22) 26.02.2021
(54) HEATER ARRANGEMENT
(73) JT International SA
(72) HUPKES, Ernst
MENNO, Bijlsma
(31) 20160261
(32) 28.02.2020
(33) European Patent Office (EPO)

(51) A24F 40/465
A24F 40/485
(11) EP4230066
(21) EP23182810.4
(47) 29.01.2025
(22) 07.05.2020
(54) LEAKAGE PREVENTION STRUCTURE IN A VAPORIZER DEVICE
(73) Philip Morris Products S.A.
(72) BLELOCH, Andrew L.
NYSEN, Peter
(31) 201962844392 P
(32) 07.05.2019
(33) United States of America

(51) A24F 40/485
A24F 40/30
A24F 40/42
A24F 40/10
A24F 40/20
(11) EP3178334
(21) EP15198555.3
(47) 29.01.2025
(22) 09.12.2015
(54) ELECTRONIC SMOKING DEVICE WITH A LIQUID RESERVOIR THAT ALLOWS THE ADDITION OF ADDITIVES
(73) Fontem Ventures B.V.
(72) Kowalke, Ulrike
Reinitz, Timo

(51) A24F 47/00
A61M 15/06
A61M 11/04
A24F 40/485
A24F 40/30
(11) EP4014773
(21) EP22155357.1
(47) 29.01.2025
(22) 09.03.2016
(54) AEROSOL DELIVERY DEVICE WITH MICROFLUIDIC DELIVERY COMPONENT
(73) RAI Strategic Holdings, Inc.
(72) DAVIS, Michael F.
SEBASTIAN, Andries D.
TALUSKIE, Karen V.
HUNT, Eric Taylor
SEARS, Stephen, Benson
CHANG, Yi-Ping
(31) 201514643626
(32) 10.03.2015
(33) United States of America

(51) A41C 3/00
D04B 1/24
D04B 1/10
(11) EP4250989
(21) EP21827258.1
(47) 29.01.2025
(87) US2021059526
02.06.2022
(22) 16.11.2021
(54) KNIT BRA
(73) NIKE Innovate C.V.
(72) TOTH, Amy
BURTON, Jesse L.
MONTGOMERY, Paul R.
PENNINGTON, Tara
WOODARD, Samantha E.G.
(31) 202117526310
202063119378 P
(32) 15.11.2021
30.11.2020
(33) United States of America
United States of America

(51) A41D 13/005
A44C 5/00
A61F 7/00
A61F 7/02
(11) EP3054800
(21) EP14851667.7
(47) 29.01.2025
(87) US2014060100
16.04.2015
(22) 10.10.2014
(54) METHODS AND APPARATUSES FOR MANIPULATING TEMPERATURE
(73) EMBR Labs IP LLC
(72) GIBSON, Michael
COHEN-TANUGI, David
SHAMES, Samuel
SMITH, Matthew, J.
(31) 201361889996 P
(32) 11.10.2013
(33) United States of America

(51) A41D 13/015
A41D 31/28
C08K 3/36
(11) EP3849365
(21) EP19778435.8
(47) 29.01.2025
(87) EP2019074278
19.03.2020
(22) 11.09.2019
(54) AN ENERGY ABSORBING MATERIAL
(73) Rheon Labs Ltd
(72) PLANT, Daniel, James
(31) 201814816
(32) 11.09.2018
(33) United Kingdom

(51) A41D 19/00
F03G 7/06
G06F 3/01
(11) EP4322787
(21) EP22719612.8
(47) 29.01.2025
(87) GB2022050944
20.10.2022
(22) 13.04.2022
(54) HAPTIC GLOVE
(73) Cambridge Mechatronics Limited
(72) BROWN, Andrew Benjamin Simpson
OOI, David
BUNTING, Stephen Matthew
HOWARTH, James
(31) 202115907
202113969
202105221
(32) 04.11.2021
29.09.2021
13.04.2021
(33) United Kingdom
United Kingdom
United Kingdom

(51) A41D 27/08
B44C 3/12
D06Q 1/10
(11) EP3984396
(21) EP21201716.4
(47) 29.01.2025
(22) 08.10.2021
(54) MACHINE AND METHOD FOR APPLYING RHINESTONES
(73) G.S.M. S.r.l.

(72) ROSSI, Giuliano
FORGHIERI, Maria Grazia
(31) 202000024151
(32) 13.10.2020
(33) Italy

(51) A42B 7/00
A42B 3/06
(11) EP4274444
(21) EP22700037.9
(47) 29.01.2025
(87) EP2022050071
14.07.2022
(22) 04.01.2022
(54) CONNECTOR
(73) MIPS AB
(72) POMERING, Amy Louise
BINKOWSKI, Patrik
(31) 202100076
(32) 05.01.2021
(33) United Kingdom

(51) A43B 5/02
A43B 5/06
A43B 13/14
A43B 13/26
A43C 15/16
(11) EP3397103
(21) EP16869423.0
(47) 29.01.2025
(87) AU2016051197
08.06.2017
(22) 05.12.2016
(54) FOOTBALL BOOT
(73) Masau Pty Ltd
(72) WARDLE, Gavin
(31) 2015905017
(32) 03.12.2015
(33) Australia

(51) A43B 13/18
A43B 13/20
A43B 13/14
(11) EP4226804
(21) EP23174791.6
(47) 29.01.2025
(22) 09.04.2019
(54) SOLE STRUCTURE WITH PLATES AND INTERVENING FLUID-FILLED BLADDER AND METHOD OF MANUFACTURING
(73) NIKE Innovate C.V.
(72) LINDNER, Troy C.
RASMUSSEN, Jeffrey George
YOUNGS, Bryan K.
PICCO, Bryan R.
CONRAD, Bryan P.
KLEIN, Ross
(31) 201862715056 P
201862660547 P
(32) 06.08.2018
20.04.2018
(33) United States of America
United States of America

(51) A44B 18/00
(11) EP4319594
(21) EP22761335.3
(47) 29.01.2025
(87) US2022073731
02.02.2023
(22) 14.07.2022
(54) MOLD-IN FASTENER PRODUCTS
(73) Velcro IP Holdings LLC
(72) VOIGT, Paul Joseph
CLARNER, Mark A.
KHEIL, Victor Horst
(31) 202163226780 P
(32) 29.07.2021
(33) United States of America

(51) A45B 23/00
A45B 3/00
A45B 3/04
A45B 25/02
H04R 1/02
H04R 1/20
(11) EP4151117
(21) EP20938165.6
(47) 29.01.2025
(87) CN2020108553
02.12.2021
(22) 12.08.2020
(54) BLUETOOTH AUDIO COMPONENT FOR SUNSHADE
(73) Tempo Manufacturing LLC.
(72) LUO, Xiong
(31) 202010467912
(32) 28.05.2020
(33) China

(51) A45C 5/00
A45C 5/03
A45C 13/26
A61B 50/31
B65D 25/28
A45C 7/00
A45C 13/18
A45C 13/28
A45C 13/00
(11) EP4388920
(21) EP22216544.1
(47) 29.01.2025
(22) 23.12.2022
(54) EMERGENCY CASE AND USE OF A (EMERGENCY) CASE
(73) W. Söhngen GmbH
(72) ARNOLD, Pascal
MAY, Melanie

(51) A45D 20/12
(11) EP4351381
(21) EP21733077.8
(47) 29.01.2025
(87) EP2021065480
16.12.2021
(22) 09.06.2021
(54) HAIR DRYING AND/OR STYLING DEVICE AND ATTACHMENT FOR DRYING AND/OR STYLING HAIR
(73) Japham Group Limited
(72) NELSON, James Robert
HUGHES, Mark Christopher
SOREN, Suraj
HOLLAND, Janusz Lucien
DEBENEDICTIS, Alfredo
HARRIS, Martin Malcolm

(51) A45D 20/52
A45D 20/10
A45D 20/12
A46B 15/00
(11) EP3922130
(21) EP21000151.7
(47) 29.01.2025
(22) 07.06.2021
(54) HAIR BRUSH AND HAIR STYLING SYSTEM
(73) Purostyle Srl
(72) Bono, Gianluca
Rotella, Andrea
Incani, Luciano
Penati, Fabio
(31) 202000013660
(32) 08.06.2020
(33) Italy

(51) A45D 33/00
A45D 33/24
(11) EP4327692
(21) EP22213842.2
(47) 29.01.2025
(22) 15.12.2022
(54) ECO-FRIENDLY COSMETIC CONTAINER
(73) CTK Co., Ltd.
(72) UM, In Young
KIM, Myung Joong
LEE, Ji Yong
OH, Minji
LEE, Won Eui
CHUNG, In Yong
KANG, Kyung Ho
(31) 20220104919
(32) 22.08.2022
(33) Korea (Republic)

(51) A45D 33/00
A45D 40/22
(11) EP4319597
(21) EP22720708.1
(47) 29.01.2025
(87) EP2022058991
13.10.2022
(22) 05.04.2022
(54) COMPACT CASE
(73) Cosnova GmbH
(72) GEIGER, Axel
MATHIEZ, Jean-Louis Marie Marcel
(31) 21305442
(32) 07.04.2021
(33) European Patent Office (EPO)

(51) A45D 34/00
B65D 47/20
(11) EP4381991
(21) EP23150003.4
(47) 29.01.2025
(22) 02.01.2023
(54) A COSMETIC PACKAGING BOTTLE RESTRICTING BACKFLOW
(73) Guangzhou Candear Packing Products Co., Ltd
(72) Cai, Guoxiang
(31) 202223284958 U
(32) 06.12.2022
(33) China

(51) A46B 9/02
A46B 9/04
A46D 1/00
A46D 1/08
A46D 3/04
A46D 3/08
(11) EP3869997
(21) EP19794128.9

(47) 29.01.2025
(87) EP2019078605
30.04.2020
(22) 21.10.2019
(54) APPARATUS AND METHOD FOR FORMING BRISTLE BUNDLES, BRUSH MANUFACTURING MACHINE, USE OF AN APPARATUS FOR FORMING BRISTLE BUNDLES, BRUSH, COMPUTER PROGRAM AND COMPUTER-READABLE MEDIUM
(73) Zahoransky AG
(72) KÖNIG, Marc
KUMPF, Ingo
KIEFER, Florian
(31) 102018126202
(32) 22.10.2018
(33) Germany

(51) A47B 57/58
A47B 88/417
A47B 47/05
(11) EP3960028
(21) EP21174538.5
(47) 29.01.2025
(22) 18.05.2021
(54) ADJUSTABLE SHELVING RACK AND METHOD FOR USING THE SAME
(73) Cambro Manufacturing Company
(72) Le, Johannes
(31) 202017004466
(32) 27.08.2020
(33) United States of America

(51) A47B 88/95
(11) EP4355173
(21) EP22733103.0
(47) 29.01.2025
(87) EP2022066166
22.12.2022
(22) 14.06.2022
(54) CONNECTING ELEMENTS FOR CONNECTING SIDE OR FRONT WALL TO BOTTOM OF DRAWERS
(73) Paul Hettich GmbH & Co. KG
(72) HARTMANN, Florian
WEICHELT, Rainer
(31) 102021115873
(32) 18.06.2021
(33) Germany

(51) A47B 96/02
A47B 88/90
A47B 96/20
(11) EP4088619
(21) EP22169930.9
(47) 29.01.2025
(22) 26.04.2022
(54) SUPPORT FRAME FOR A TRAY
(73) KESSEBÖHMER HOLDING KG
(72) Brockschmidt, Friedhelm
Dr. Buschermöhle, Hermann
Storck, Holger
(31) 102021112371
(32) 12.05.2021
(33) Germany

(51) A47B 97/00
F16B 12/26
(11) EP3903641
(21) EP21170294.9
(47) 29.01.2025
(22) 23.04.2021
(54) FURNITURE ACCESSORY
(73) Formenti & Giovenzana S.p.A.
(72) FORMENTI, Leonardo
(31) 202000009352
(32) 29.04.2020
(33) Italy

(51) A47C 1/16
A47C 1/12
(11) EP4140362
(21) EP22202152.9
(47) 29.01.2025
(22) 02.03.2022
(54) CHAIR COMPRISING A RECYCLED SEAT SHELL AND A CHAIR FRAME CONNECTED TO THE SEAT SHELL
(73) stadichair GmbH & Co. KG
(72) Braamt, Jonas
(31) 202021101364 U
(32) 17.03.2021
(33) Germany

(51) A47F 3/04
F25D 21/04
F25D 23/02
F25D 27/00
(11) EP4085799
(21) EP22176712.2
(47) 29.01.2025
(22) 22.03.2018
(54) REFRIGERATOR
(73) LG Electronics Inc.
(72) LEE, Ikkyu
KANG, Chanuk
LEE, Sangmyung
KIM, Junghwan
KWON, Hyuk
(31) 20170166450
20170037839
(32) 06.12.2017
24.03.2017
(33) Korea (Republic)
Korea (Republic)

(51) A47F 5/08
A47B 5/04
A47B 46/00
A61G 1/06
A61G 3/02
A61G 3/08
(11) EP3883431
(21) EP19886282.3
(47) 29.01.2025
(87) FI2019050833
28.05.2020
(22) 21.11.2019
(54) ARRANGEMENT FOR MOUNTING A PLANE ON A WALL
(73) Frestems Oy
(72) HIETARANTA, Marko
HIETARANTA, Markus
VUORENOJA, Ari-Matti
(31) 20185993
(32) 23.11.2018
(33) Finland

(51) A47G 21/02
A47G 21/00
(11) EP4258951
(21) EP21840433.3
(47) 29.01.2025
(87) AT2021060462
16.06.2022
(22) 06.12.2021
(54) LENGTH-ADJUSTABLE CUTLERY ITEM
(73) Greiner Packaging International GmbH
CARDBOX Packaging Holding GmbH
(72) MILOSEVSKY, Libor
(31) 510712020
(32) 09.12.2020
(33) Austria

(51) A47J 31/06
A47J 31/20
(11) EP4385372
(21) EP24173721.2
(47) 29.01.2025
(22) 14.06.2023
(54) DEVICE AND METHOD FOR THE AUTOMATED PRODUCTION OF A BREWED BEVERAGE
(73) Tröltzsch, Carin-Martina
Veltins, Michael
(72) Pircher, Karl Emilio
(31) 102022121349
(32) 24.08.2022
(33) Germany

(51) A47J 31/44
A23F 5/26
A47J 31/00
A47J 31/24
A47J 31/40
A47J 31/46
(11) EP4003107
(21) EP20847387.6
(47) 29.01.2025
(87) US2020043723
04.02.2021
(22) 27.07.2020
(54) SYSTEM AND METHOD FOR FILTERING A HOT BEVERAGE
(73) Johnson, Julianne
(72) Johnson, Julianne
(31) 201962878787 P
(32) 26.07.2019
(33) United States of America

(51) A47J 31/44
A47J 31/60
A47J 31/46
(11) EP4282309
(21) EP23203312.6
(47) 29.01.2025
(22) 08.06.2018
(54) MILK MODULE FOR GENERATING MILK FOAM OR MILK BEVERAGES, PREFERABLY FOR INSTALLING INTO A COFFEE MACHINE
(73) Steiner AG Weggis
(72) STEINER, Adrian
(31) 8752017
(32) 06.07.2017
(33) Switzerland

(51) A47J 36/02
A47J 27/00
(11) EP4218509
(21) EP23176871.4
(47) 29.01.2025
(22) 19.05.2020
(54) CULINARY ARTICLE COMPRISING AN ALUMINIUM CUP

(73) SEB S.A.
(72) AUBIN, Laurent
(31) 1905455
(32) 23.05.2019
(33) France

(51) A47J 36/16
A47J 37/06
A47J 43/07
B01F 27/1123
B01F 27/07
B01F 27/808
(11) EP4234075
(21) EP23177088.4
(47) 29.01.2025
(22) 18.05.2021
(54) BLADE FOR STIRRING FOOD FOR A COOKING APPLIANCE AND CORRESPONDING APPLIANCE
(73) SEB S.A.
(72) BIZARD, Jean-Claude
PETITALLOT, Johann
(31) 2005050
(32) 19.05.2020
(33) France

(51) A47J 37/00
A47J 37/06
A47J 37/08
(11) EP3847932
(21) EP21159551.7
(47) 29.01.2025
(22) 16.04.2013
(54) WAFFLE MAKER
(73) Breville PTY Limited
(72) HOARE, Richard
FOXLEE, Brendan John
ROSE, Vyvyan
MARSH-CROFT, Ashley
CRAIG, Emma
(31) 2012903873
(32) 06.09.2012
(33) Australia

(51) A47J 37/06
(11) EP4280920
(21) EP21769339.9
(47) 29.01.2025
(87) CN2021114315
28.07.2022
(22) 24.08.2021
(54) A COOKING UTENSIL
(73) Zhejiang Shaoxing Supor Domestic Electrical Appliance Co., Ltd.
(72) ZHOU, Wei
LENG, Jiong
(31) 202120168275 U
(32) 21.01.2021
(33) China

(51) A47J 37/07
(11) EP4193894
(21) EP22208091.3
(47) 29.01.2025
(22) 17.11.2022
(54) OUTDOOR GAS GRILL
(73) RÖSLE GROUP GmbH
(72) Jung, David
(31) 102022201583
202021004012 U
(32) 16.02.2022
08.12.2021
(33) Germany
Germany

(51) A47J 37/07
(11) EP4199794
(21) EP22769081.5
(47) 29.01.2025
(87) DE2022200187
19.05.2023
(22) 17.08.2022
(54) BARBECUE OR COOKER
(73) LotusGrill GmbH
(72) OHLER, Mischa
PAAKKANEN, Harri
(31) 102021212606
(32) 09.11.2021
(33) Germany

(51) A47J 37/12
A23D 9/00
A23L 5/10
G01N 27/20
G01N 27/22
G01N 21/359
G01N 33/03
G01N 21/3577
(11) EP3902453
(21) EP19905070.9
(47) 29.01.2025
(87) US2019068587
02.07.2020
(22) 26.12.2019
(54) EDIBLE OIL MANAGEMENT INCLUDING SENSING AND MODELING
(73) Cargill, Incorporated
(72) DEBONTE, Lorin Roger
IASSONOVA, Diliara
(31) 201862785441 P
(32) 27.12.2018
(33) United States of America

(51) A47J 42/00
A47J 42/40
A47G 19/34
(11) EP4252601
(21) EP22174763.7
(47) 29.01.2025
(22) 23.05.2022
(54) AN ELECTRIC GRINDER
(73) Zhuhai Kelitong Electronic Co., Ltd
(72) Song, Xiaoxian
(31) 202220673748 U
(32) 01.04.2022
(33) China

(51) A47J 42/18
A47J 42/28
A47J 42/46
(11) EP3866653
(21) EP19873956.7
(47) 29.01.2025
(87) US2019056235
23.04.2020
(22) 15.10.2019
(54) COFFEE GRINDER THAT AUTOMATICALLY SETS GRIND LEVEL
(73) Clive Holdings, LLC
(72) RAPER, Adam
JEBB, Mike
PITMAN, Tony
MOSHER, Ken
LEHMAN, Paul
GUILES, Benjamin Thomas
(31) 201862745789 P
(32) 15.10.2018
(33) United States of America

(51) A47K 3/36
A47K 3/30
(11) EP3914134
(21) EP20744139.5
(47) 29.01.2025
(87) IE2020000002
30.07.2020
(22) 22.01.2020
(54) AN ADJUSTABLE RETENTION DEVICE AND A FRAME ASSEMBLY COMPRISING THE ADJUSTABLE RETENTION DEVICE
(73) Merlyn Industries Limited
(72) KINSELLA, Paul
KEALY, Patrick
(31) S20190010
(32) 22.01.2019
(33) Ireland

(51) A47K 5/12
B05B 11/00
B05B 1/28
(11) EP4312686
(21) EP21716980.4
(47) 29.01.2025
(87) EP2021058202
06.10.2022
(22) 29.03.2021
(54) PUMP ASSEMBLY WITH SHIELD
(73) Essity Hygiene and Health Aktiebolag
(72) HODOSSY, Sofia
NILSSON, Hugo

(51) A47K 10/16
B32B 37/12
(11) EP4324367
(21) EP22937657.9
(47) 29.01.2025
(87) JP2022046611
02.11.2023
(22) 19.12.2022
(54) METHOD FOR PRODUCING TOILET PAPER ROLL
(73) Corelex Shin-Ei Co., Ltd.
(72) KUROSAKI, Satoshi
(31) 2022074149
(32) 28.04.2022
(33) Japan

(51) A47K 10/16
B32B 37/12
(11) EP4324368
(21) EP22937660.3
(47) 29.01.2025
(87) JP2022046613
02.11.2023
(22) 19.12.2022
(54) TOILET PAPER ROLL MANUFACTURING METHOD
(73) Corelex Shin-Ei Co., Ltd.
(72) KUROSAKI, Satoshi
(31) 2022074150
(32) 28.04.2022
(33) Japan

(51) A47K 10/36
A47K 10/42

(11) EP3937745
(21) EP19711537.1
(47) 29.01.2025
(87) EP2019055970
17.09.2020
(22) 11.03.2019
(54) DISPENSER FOR DISPENSING SHEET PRODUCTS
(73) Essity Hygiene and Health Aktiebolag
(72) THORÉN, Lars
WALHEIM, Karl
MÖLLER, Per

(51) A47L 4/02
(11) EP4373372
(21) EP22730899.6
(47) 29.01.2025
(87) EP2022064632
26.01.2023
(22) 30.05.2022
(54) BLIND CLEANER DEVICE
(73) Husqvarna AB
(72) MOCK, Axel
(31) 21186664
(32) 20.07.2021
(33) European Patent Office (EPO)

(51) A47L 5/24
A47L 5/28
A47L 9/28
A47L 9/32
(11) EP4248822
(21) EP23162190.5
(47) 29.01.2025
(22) 15.03.2023
(54) HAND-HELD VACUUM CLEANER WITH DETACHABLE HANDLE
(73) SEB S.A.
(72) BELLEPEAU, Xavier
BENOIT, Alexandre
(31) 2202671
(32) 25.03.2022
(33) France

(51) A47L 5/24
A47L 9/16
A47L 9/20
(11) EP4260778
(21) EP23165299.1
(47) 29.01.2025
(22) 30.03.2023
(54) RESTITUTION OF ENERGY GENERATED BY AN AIR STREAM WITHIN A SUCTION APPARATUS
(73) SEB S.A.
(72) FUIN, Matthieu
TADDEI, Valentin
DELHOM, Jérémy
(31) 2203377
(32) 12.04.2022
(33) France

(51) A47L 9/00
A47L 9/04
(11) EP4346533
(21) EP22728963.4
(47) 29.01.2025
(87) GB2022051377
08.12.2022
(22) 30.05.2022
(54) FLOOR CLEANING HEAD FOR A SUCTION CLEANER
(73) Techtronic Cordless GP
(72) BURNHAM, Gavin
HOPKIN, Chris
MCGOVERN, Francis
DAVIES, Peter
(31) 202107952
(32) 03.06.2021
(33) United Kingdom

(51) A47L 9/00
A47L 11/40
(11) EP3957223
(21) EP21195096.9
(47) 29.01.2025
(22) 30.11.2017
(54) AUTONOMOUS CLEANING ROBOT
(73) Shenzhen Rock Times Technology Co., Ltd.
(72) LU, Youcheng
PENG, Song
LI, Xing
(31) 201710061574
(32) 26.01.2017
(33) China

(51) A47L 9/02
(11) EP4280926
(21) EP21834845.6
(47) 29.01.2025
(87) GB2021053275
28.07.2022
(22) 14.12.2021
(54) AUTONOMOUS SURFACE TREATMENT APPARATUS
(73) DYSON TECHNOLOGY LIMITED
(72) COX, Robert
STUBBS, Matthew
GENN, Stuart
(31) 202100851
(32) 22.01.2021
(33) United Kingdom

(51) A47L 9/24
(11) EP4278937
(21) EP22192764.3
(47) 29.01.2025
(22) 30.08.2022
(54) BENDABLE JOINT, CLEANER CONNECTING PIPE, AND CLEANER
(73) Beijing Shunzao Technology Co., Ltd.
Beijing Xiaomi Mobile Software Co., Ltd.
(72) Duan, FEi
ZHANG, Tiantian
TANG, Cheng
(31) 202221236816 U
(32) 19.05.2022
(33) China

(51) A47L 9/24
A47L 9/04
(11) EP3982804
(21) EP19730742.4
(47) 29.01.2025
(87) EP2019065157
17.12.2020
(22) 11.06.2019
(54) VACUUM CLEANER NOZZLE
(73) Aktiebolaget Electrolux
(72) ISAKSSON, Josef
FRANZÉN, Fredrik
LEFFLER, Jens
DAHLBECK, Erik

(51) A47L 9/28
A47L 11/32
A47L 11/40
(11) EP4307977
(21) EP21713632.4
(47) 29.01.2025
(87) EP2021056886
22.09.2022
(22) 17.03.2021
(54) ROBOTIC CLEANER SYSTEM AND THERETO RELATED METHOD
(73) AKTIEBOLAGET ELECTROLUX
(72) WENNERSTRÖM, Magnus
KLINTEMYR, Andreas

(51) A47L 9/32
(11) EP4275566
(21) EP23153980.0
(47) 29.01.2025
(22) 30.01.2023
(54) ADJUSTABLE AND LOCKABLE JOINT FOR FLOOR CLEANING MACHINES
(73) Lindhaus S.r.l.
(72) MASSARO, Michele
(31) 202200009203
(32) 05.05.2022
(33) Italy

(51) A47L 11/20
A47L 11/202
A47L 11/40
A47L 9/04
A47L 9/06
(11) EP4233663
(21) EP23173292.6
(47) 29.01.2025
(22) 22.04.2019
(54) CLEANER NOZZLE
(73) LG Electronics Inc.
(72) KIM, Jinho
YANG, Ingyu
RYU, Jungwan
RYOU, Kyoungho
KWON, Hyeri
KIM, Youngsoo
SHIN, Jinhyouk
KIM, Sungjun
(31) 20180094341
20180050059
20180050085
(32) 13.08.2018
30.04.2018
30.04.2018
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) A47L 13/16
A47L 13/20
(11) EP4384057
(21) EP22764298.0
(47) 29.01.2025
(87) DE2022100611
02.03.2023
(22) 17.08.2022
(54) MULTI-LAYER DISPOSABLE FLOOR WIPE WITH ABRASIVE STRIP
(73) Dr. Schumacher GmbH
(72) BIRKELBACH, Anke
POHL, Kai-Uwe

REHM, Marie-Elisabeth
BALLEZ, Mike
POGRZEBA, Jessica
SCHWEINSBERG, Selina
(31) 102021122041
(32) 25.08.2021
(33) Germany

(51) A47L 13/51
A47L 13/58
(11) EP4230106
(21) EP23154342.2
(47) 29.01.2025
(22) 31.01.2023
(54) WETTING DEVICE OF FLOOR CLEANING CLOTHS AND TROLLEY FOR CLEANING SURFACES COMPRISING SUCH WETTING DEVICE
(73) Taxon S.r.l.
(72) Ravasio, Alberto
(31) 202200003287
(32) 22.02.2022
(33) Italy

(51) A47L 15/00
A47L 15/22
A47L 15/42
A47L 15/50
(11) EP4225118
(21) EP21928851.1
(47) 29.01.2025
(87) CN2021131835
09.09.2022
(22) 19.11.2021
(54) DISHWASHER WITH TUBULAR SPRAY ELEMENT DRINKWARE WASHING SYSTEM
(73) Midea Group Co., Ltd.
(72) FAWAZ, Bassam
(31) 202117189749
(32) 02.03.2021
(33) United States of America

(51) A47L 15/42
(11) EP3851018
(21) EP20217474.4
(47) 29.01.2025
(22) 29.12.2020
(54) A WATER INLET ASSEMBLY AND A WASHING DEVICE COMPRISING SAME
(73) Vestel Beyaz Esya Sanayi ve Ticaret A.S.
(72) OZNAZLI, Gurkan
(31) 202000700
(32) 17.01.2020
(33) Türkiye

(51) A47L 15/42
(11) EP4324378
(21) EP23191293.2
(47) 29.01.2025
(22) 14.08.2023
(54) DISHWASHER WITH INTEGRATED BARRIER MEMBER
(73) Whirlpool Corporation
(72) BHAT, Ajinkya, Anish
TIDKE, Malhar, Devidas
MUZYKA, Waldemar, Piotr
(31) 202217888681
(32) 16.08.2022
(33) United States of America

(51) A47L 15/42
D06F 35/00
D06F 39/00
(11) EP3730026
(21) EP20165937.2
(47) 29.01.2025
(22) 26.03.2020
(54) A WASHING DEVICE AND AN OPERATION METHOD OF THE WASHING DEVICE
(73) Vestel Beyaz Esya Sanayi ve Ticaret A.S.
(72) ASIK, Rustem
(31) 201906036
(32) 24.04.2019
(33) Türkiye

(51) A47L 15/48
A47L 15/42
(11) EP4082418
(21) EP22170665.8
(47) 29.01.2025
(22) 28.04.2022
(54) DISHWASHER WITH DOOR CONDENSATION AND DOOR OPENING SYSTEM WITH AIR BARRIER
(73) Whirlpool Corporation
(72) Czarnecki, Philip J.
Stuart, Annie Marie
Wolowicz, Mateusz Michal
(31) 202117245738
(32) 30.04.2021
(33) United States of America

(51) A47L 15/48
A47L 15/42
(11) EP4252612
(21) EP23186566.8
(47) 29.01.2025
(22) 22.10.2021
(54) DISHWASHER
(73) LG Electronics Inc.
(72) KANG, Kijoong
KIM, Seungyoun
KIM, Kyung Rae
KIM, Jeong In
JEONG, Min Jae
(31) 20200137868
(32) 22.10.2020
(33) Korea (Republic)

(51) A61B 1/00
(11) EP3344110
(21) EP16763683.6
(47) 29.01.2025
(87) US2016049743
09.03.2017
(22) 31.08.2016
(54) ENDOSCOPE WITH PANNABLE CAMERA
(73) DEKA Products Limited Partnership
(72) HAGGERTY, Andrew, M.
GRANT, Kevin, L.
MOREAU, Timothy, D.
VONDRAS, Peter, K.
DEMERS, Jason, A.
DAVIS, Daniel, B.
(31) 201662306288 P
201562212871 P
(32) 10.03.2016
01.09.2015
(33) United States of America
United States of America

(51) A61B 1/00
A61B 1/04
(11) EP4108156
(21) EP22179867.1
(47) 29.01.2025
(22) 20.06.2022
(54) ENDOSCOPE EYEPIECE GRASPING MECHANISM AND ENDOSCOPE CAMERA HEAD WITH ENDOSCOPE EYEPIECE GRASPING MECHANISM
(73) Karl Storz SE & Co. KG
(72) ANHALT, Thomas
(31) 202117353106
(32) 21.06.2021
(33) United States of America

(51) A61B 1/00
A61B 1/12
(11) EP3528687
(21) EP17784311.7
(47) 29.01.2025
(87) EP2017076704
26.04.2018
(22) 19.10.2017
(54) METHOD AND SYSTEM FOR RECONDITIONING A MEDICAL INSTRUMENT, IN PARTICULAR AN ENDOSCOPE
(73) Steelco S.p.A.
(72) ZARDINI, Fabio
(31) 201600105276
(32) 19.10.2016
(33) Italy

(51) A61B 1/267
A61B 34/20
A61B 6/03
A61B 6/04
A61B 5/06
(11) EP3890585
(21) EP19828022.4
(47) 29.01.2025
(87) US2019064115
11.06.2020
(22) 03.12.2019
(54) ELECTROMAGNETIC NAVIGATION ASSEMBLY AND COMPUTED TOMOGRAPHY SCANNER PATIENT TABLE, SURGERY SYSTEM INCLUDING THE SAME, AND METHOD USING THE SAME
(73) Covidien LP
(72) BRANNAN, Joseph D.
(31) 201862775575 P
(32) 05.12.2018
(33) United States of America

(51) A61B 3/00
G02C 13/00
(11) EP3420887
(21) EP17179209.6
(47) 29.01.2025
(22) 30.06.2017
(54) METHOD FOR DETERMINING THE POSITION OF THE EYE ROTATION CENTER OF THE EYE OF A SUBJECT, AND ASSOCIATED DEVICE
(73) Essilor International

(72) GRAND-CLEMENT, Didier

(51) A61B 3/10
(11) EP3628212
(21) EP19195482.5
(47) 29.01.2025
(22) 05.09.2019
(54) OPHTHALMIC IMAGING APPARATUS, CONTROLLING METHOD THEREOF, OPHTHALMIC IMAGING METHOD, AND RECORDING MEDIUM
(73) Topcon Corporation
(72) MINO, Toshihiro
YAMAGUCHI, Tatsuo
HIROSE, Ryoichi
(31) 2018180763
(32) 26.09.2018
(33) Japan

(51) A61B 3/10
(11) EP3845119
(21) EP19853334.1
(47) 29.01.2025
(87) JP2019022665
05.03.2020
(22) 07.06.2019
(54) OPHTHALMOLOGY DEVICE, AND CONTROL METHOD THEREFOR
(73) TOPCON CORPORATION
(72) YAMAGUCHI, Tatsuo
SAKAIHARA, Manabu
HIROSE, Ryoichi
(31) 2018160419
(32) 29.08.2018
(33) Japan

(51) A61B 3/10
A61B 3/00
(11) EP3369364
(21) EP16859643.5
(47) 29.01.2025
(87) JP2016080887
04.05.2017
(22) 19.10.2016
(54) OPHTHALMOLOGICAL IMAGING DEVICE
(73) Topcon Corporation
(72) MORIGUCHI, Yoshikiyo
(31) 2015212805
(32) 29.10.2015
(33) Japan

(51) A61B 3/10
A61B 5/05
A61B 5/1477
G02C 7/04
G02C 7/08
G06K 7/10
A61B 5/053
A61B 5/11
A61B 5/16
A61B 5/00
B29D 11/00
G02C 11/00
(11) EP4312076
(21) EP23216391.5
(47) 29.01.2025
(22) 20.12.2019
(54) IMPEDANCE SENSOR FOR OPHTHALMIC DEVICE USING SHARED ANTENNA ELECTRODE
(73) Verily Life Sciences LLC
(72) ZHANG, Tong
LEE, Shungneng
(31) 201862784205 P
(32) 21.12.2018
(33) United States of America

(51) A61B 3/103
(11) EP4298988
(21) EP23204381.0
(47) 29.01.2025
(22) 17.02.2022
(54) APPARATUS AND METHOD FOR DETERMINING THE REFRACTIVE ERROR OF AN EYE
(73) Carl Zeiss Vision International GmbH
(72) SUCHKOV, Nikolai
WAHL, Siegfried
LEUBE, Alexander
(31) 21157673
(32) 17.02.2021
(33) European Patent Office (EPO)

(51) A61B 5/00
A61B 5/06
A61N 5/06
(11) EP4408257
(21) EP22793712.5
(47) 29.01.2025
(87) EP2022076354
06.04.2023
(22) 22.09.2022
(54) SKIN TREATMENT DEVICE WITH AN IMAGING UNIT, AND METHOD THEREOF
(73) Koninklijke Philips N.V.
(72) VAN ABEELEN, Frank Anton
THUMMA, Kiran Kumar
BOAMFA, Marius Iosif
VERHAGEN, Rieko
(31) 21200278
(32) 30.09.2021
(33) European Patent Office (EPO)

(51) A61B 5/00
A61B 5/08
A61B 5/091
G16H 40/63
G16H 40/67
G16H 50/20
G16H 50/30
(11) EP3435862
(21) EP17717046.1
(47) 29.01.2025
(87) US2017024889
05.10.2017
(22) 30.03.2017
(54) SYSTEMS AND METHODS FOR DETECTING WORSENING HEART FAILURE
(73) Cardiac Pacemakers, Inc.
(72) ZHANG, Yi
AVERINA, Viktoria A.
THAKUR, Pramodsingh Hirasingh
AN, Qi
(31) 201662316905 P
(32) 01.04.2016
(33) United States of America

(51) A61B 5/00
A61B 5/08
A61B 5/11
A61B 5/113
A61B 5/024
A61B 5/0245
A61M 16/00
A61B 5/087
A61B 5/091
(11) EP3860433
(21) EP19783264.5
(47) 29.01.2025
(87) EP2019076662
09.04.2020
(22) 01.10.2019
(54) SYSTEMS AND COMPUTER PROGRAMS FOR USING BREATH EVENTS IN SLEEP STAGING
(73) Koninklijke Philips N.V.
(72) KLEE, Mareike
GRASSI, Angela
KANE, Michael Thomas
MATTHEWS, Gregory Delano
VASKO, JR., Raymond Charles
FERREIRA DOS SANTOS DA FONSECA, Pedro Miguel
(31) 201862739591 P
(32) 01.10.2018
(33) United States of America

(51) A61B 5/00
A61B 5/087
A61M 16/00
(11) EP3302235
(21) EP16729808.2
(47) 29.01.2025
(87) EP2016062162
15.12.2016
(22) 30.05.2016
(54) DEVICE FOR DIAGNOSING THE EFFICACY OF VENTILATION OF A PATIENT AND METHOD FOR DETERMINING THE VENTILATORY EFFICACY OF A PATIENT
(73) Université de Franche-Comté
Centre Hospitalier Régional Universitaire de Besançon
ARCHEON
(72) PAZART, Lionel
DE LUCA, Alban
KHOURY, Abdo
SALL, Fatimata, Seydou
VINCHANT, Jean-François
SAILLARD, Pierre-Edouard
NITA, Florin, Dan
CAPELLIER, Gilles
(31) 1555220
(32) 08.06.2015
(33) France

(51) A61B 5/00
A61B 5/103
G16H 50/20
G06T 7/90
G06V 10/00
(11) EP4412513
(21) EP22789604.0
(47) 29.01.2025
(87) EP2022077110
13.04.2023
(22) 29.09.2022
(54) METHODS AND APPARATUS FOR ANALYSING IMAGES OF HAIR AND SKIN ON A BODY OF A SUBJECT

(73) Koninklijke Philips N.V.
(72) PALERO, Jonathan Alambra
VERHAGEN, Rieko
VARGHESE, Babu
BOURQUIN, Yannyk Parulian Julian
(31) 21201516
(32) 07.10.2021
(33) European Patent Office (EPO)

(51) A61B 5/00
A61B 5/145
A61B 5/1455
A61B 5/1459
A61B 5/07
(11) EP3713473
(21) EP18804569.4
(47) 29.01.2025
(87) EP2018081304
31.05.2019
(22) 15.11.2018
(54) IMPLANTABLE GLUCOSE MONITOR
(73) Sanofi
(72) KLEMM, Thomas
(31) 17306607
(32) 21.11.2017
(33) European Patent Office (EPO)

(51) A61B 5/00
A61B 5/291
(11) EP3552541
(21) EP19168794.6
(47) 29.01.2025
(22) 11.04.2019
(54) SYSTEM FOR THE DETECTION OF ELECTROENCEPHALOGRAPHIC SIGNALS
(73) SPES MEDICA S.P.A.
(72) Cotella, Elena
Phelan, Patrick
Mistretta, Matteo
(31) 201800004455
(32) 12.04.2018
(33) Italy

(51) A61B 5/00
A61M 21/00
(11) EP3520686
(21) EP18154689.6
(47) 29.01.2025
(22) 01.02.2018
(54) SYSTEM WITH VITAL DATA SENSOR
(73) Vorwerk & Co. Interholding GmbH
(72) Holz, Christian
Mosebach, Andrej

(51) A61B 5/00
A61N 1/362
A61B 5/02
A61B 5/361
A61N 1/365
(11) EP4084677
(21) EP20910361.3
(47) 29.01.2025
(87) US2020065028
08.07.2021
(22) 15.12.2020
(54) MODEL-BASED THERAPY PARAMETERS FOR HEART FAILURE
(73) Medtronic, Inc.
(72) GILLBERG, Jeffrey M.
CORNELUSSEN, Richard
JACKSON, Troy E.
(31) 202017120429
201962955625 P
(32) 14.12.2020
31.12.2019
(33) United States of America
United States of America

(51) A61B 5/01
A61B 5/0205
A61B 7/00
A61B 7/02
A61B 7/04
A61B 5/024
A61B 5/1455
(11) EP4346569
(21) EP22730542.2
(47) 29.01.2025
(87) EP2022064524
08.12.2022
(22) 30.05.2022
(54) DEVICE AND METHOD FOR MEASURING PARAMETERS OF A PATIENT
(73) Hopitaux Universitaires de Genève
Université de Genève
(72) GERVAIX, Alain
PEREZ, Alexandre
(31) 21177615
(32) 03.06.2021
(33) European Patent Office (EPO)

(51) A61B 5/02
A61B 5/0215
A61B 5/00
(11) EP4151147
(21) EP22201286.6
(47) 29.01.2025
(22) 27.07.2018
(54) SYSTEMS FOR ASSESSING FRACTIONAL FLOW RESERVE
(73) Boston Scientific Scimed, Inc.
(72) LI, Wenguang
(31) 201762541069 P
(32) 03.08.2017
(33) United States of America

(51) A61B 5/02
A61B 5/024
A61B 5/00
A61B 5/1455
(11) EP3345541
(21) EP16850339.9
(47) 29.01.2025
(87) CN2016100425
06.04.2017
(22) 27.09.2016
(54) APPARATUS AND METHOD FOR MEASURING VITAL SIGNS
(73) Qi, Xin
(72) QI, Xin
LIU, Ting
(31) 201510651334
(32) 30.09.2015
(33) China

(51) A61B 5/02
A61B 5/026
A61B 5/0295
A61B 5/00
A61B 5/1455
(11) EP3928689
(21) EP20182503.1
(47) 29.01.2025
(22) 26.06.2020
(54) APPARATUS AND METHOD FOR COMPENSATING ASSESSMENT OF PERIPHERAL ARTERIAL TONE
(73) Ectosense NV
(72) Van Pee, Bart
Geeurickx, Wout
Massie, Frederik
Vits, Steven

(51) A61B 5/02
A61B 5/107
A61B 6/00
A61B 5/00
A61B 5/026
A61B 5/021
G01N 21/59
A61B 6/50
G01B 15/00
G06T 7/62
G16H 50/30
(11) EP3518751
(21) EP17780700.5
(47) 29.01.2025
(87) EP2017075021
05.04.2018
(22) 02.10.2017
(54) APPARATUS FOR DETERMINING A FUNCTIONAL INDEX FOR STENOSIS ASSESSMENT
(73) Koninklijke Philips N.V.
(72) BULLENS, Roland, Wilhelmus, Maria
OLIVAN BESCOS, Javier
SCHMITT, Holger
AUVRAY, Vincent, Maurice, André
RONGEN, Peter, Maria, Johannes
VAN DER HORST, Arjen
GRASS, Michael
FLORENT, Raoul
VAN RENS, Bram, Antonius, Philomena
GAURIAU, Romane, Isabelle, Marie-Bernard
HAASE, Christian
(31) 16191781
(32) 30.09.2016
(33) European Patent Office (EPO)

(51) A61B 5/022
(11) EP4329599
(21) EP22725739.1
(47) 29.01.2025
(87) EP2022060944
03.11.2022
(22) 26.04.2022
(54) DETERMINING BLOOD PRESSURE
(73) Koninklijke Philips N.V.
(72) FRANCK, Christoph Florian
(31) 21171027
(32) 28.04.2021
(33) European Patent Office (EPO)

(51) A61B 5/022
A61B 5/0225
G16H 50/30
A61B 5/024
A61B 5/00
(11) EP4271260
(21) EP22715119.8
(47) 29.01.2025
(87) FI2022050117

09.09.2022
(22) 23.02.2022
(54) AN APPARATUS AND A METHOD FOR MEASURING FLOW RESISTANCES OF BLOOD VESSELS
(73) Turun Yliopisto
(72) PANULA, Tuukka
SIRKIÄ, Jukka-Pekka
KAISTI, Matti
(31) 20215239
(32) 04.03.2021
(33) Finland

(51) A61B 5/024
A61B 5/00
(11) EP4391902
(21) EP22765147.8
(47) 29.01.2025
(87) EP2022073070
02.03.2023
(22) 18.08.2022
(54) FETAL HEART RATE SIGNAL PROCESSING
(73) Nemo Healthcare B.V.
(72) MELAET, Raoul
VULLINGS, Rik
KOK, René David
(31) 21193169
(32) 26.08.2021
(33) European Patent Office (EPO)

(51) A61B 5/024
A61B 5/1455
A61B 5/00
(11) EP4215108
(21) EP22857109.7
(47) 29.01.2025
(87) CN2022116614
15.06.2023
(22) 01.09.2022
(54) PHOTODETECTOR, PPG SENSOR AND ELECTRONIC DEVICE
(73) Honor Device Co., Ltd.
(72) LIU, Bingxin
SHANG, Ruiying
TAN, Yinjiong
CAI, Xinpei
(31) 202111485328
(32) 07.12.2021
(33) China

(51) A61B 5/0536
(11) EP4008248
(21) EP20211987.1
(47) 29.01.2025
(22) 04.12.2020
(54) A SYSTEM AND METHOD FOR ELECTRICAL IMPEDANCE TOMOGRAPHY OF AN OBJECT, AND AN IMPEDANCE MEASUREMENT UNIT
(73) Stichting IMEC Nederland
(72) KOO, Nahm Il
LEE, Seulki
KONIJNENBURG, Mario
VAN GESTEL, Gijs

(51) A61B 5/0536
A61B 5/06
A61B 5/00
A61B 5/08
G16H 30/40
(11) EP3537967
(21) EP17801004.7
(47) 29.01.2025
(87) CH2017000096
17.05.2018
(22) 11.11.2017
(54) SENSOR BELT AND POSITIONING AID FOR ELECTRO-IMPEDANCE TOMOGRAPHY IMAGING IN NEONATES
(73) Swisstom AG
(72) KRAMMER, Peter
BRUNNER, Josef
WALDMANN, Andreas
(31) 14982016
(32) 11.11.2016
(33) Switzerland

(51) A61B 5/0537
A61B 5/107
(11) EP4052645
(21) EP22159104.3
(47) 29.01.2025
(22) 28.02.2022
(54) METHOD OF BIOIMPEDANCE TECHNOLOGY TO EVALUATE LOCAL OR WHOLE BODY BONE MINERAL DENSITY
(73) Starbia Meditek Co., Ltd.
(72) Hsieh, Kuen-Chang
(31) 110107862
(32) 05.03.2021
(33) Taiwan, Chinese Taipei

(51) A61B 5/06
A61B 5/00
A61B 5/367
(11) EP4311485
(21) EP23187412.4
(47) 29.01.2025
(22) 25.07.2023
(54) TRACKING COORDINATES OF ELECTRODES
(73) BIOSENSE WEBSTER (ISRAEL) LTD.
(72) GOVARI, Assaf
(31) 202217874214
(32) 26.07.2022
(33) United States of America

(51) A61B 5/08
A61B 5/00
(11) EP4258987
(21) EP21827667.3
(47) 29.01.2025
(87) IB2021061625
23.06.2022
(22) 13.12.2021
(54) INTRA ORAL RESPIROMETER
(73) Politecnico di Milano
(72) SORESINI, Giulia
ESMAILBEIGI, Hananeh
ALIVERTI, Andrea
(31) 202063125112 P
(32) 14.12.2020
(33) United States of America

(51) A61B 5/11
A61B 5/00
G01P 21/00
A61B 5/024
(11) EP3688474
(21) EP18860291.6
(47) 29.01.2025
(87) US2018053276
04.04.2019
(22) 28.09.2018
(54) SENSOR CALIBRATION CONSIDERING SUBJECT-DEPENDENT VARIABLES AND/OR BODY POSITIONS
(73) Vital Connect, Inc.
(72) AGA, Arshan
TRAN, Thang
SELVARAJ, Nandakumar
(31) 201715718560
(32) 28.09.2017
(33) United States of America

(51) A61B 5/11
G01C 22/00
(11) EP3331441
(21) EP16750779.7
(47) 29.01.2025
(87) EP2016068796
09.02.2017
(22) 05.08.2016
(54) METHOD FOR CHARACTERISING A GAIT
(73) Univ Paris XIII Paris-Nord Villetaneuse
Université Paris Cité
Etat Français - Ministère De La Défense
Direction Centrale du Service de Santé des Armées
Centre National de la Recherche Scientifique (CNRS)
Ecole Normale Supérieure de Paris-Saclay
(72) YELNIK, Alain
TRUONG, Charles
MOREAU, Thomas
VAYATIS, Nicolas
BARROIS-MULLER, Rémi
OUDRE, Laurent
DE WAELE, Catherine
RICARD, Damien
VIDAL, Pierre Paul
DADASHI, Robert
(31) 1557582
16020149
(32) 06.08.2015
20.04.2016
(33) France
European Patent Office (EPO)

(51) A61B 5/11
G01S 7/40
G01S 7/41
G01S 13/42
G01S 13/58
G01S 13/86
G01S 13/88
G08B 21/04
G08B 25/01
G01S 7/48
G01S 7/497
G01S 17/46
G01S 17/86
G01S 17/88
G01S 17/42
G01S 13/34
G01S 15/88
G08B 13/181
(11) EP4153047
(21) EP21732996.0

(47) 29.01.2025
(87) IL2021050593
25.11.2021
(22) 21.05.2021
(54) A DEVICE FOR MEASURING 3D-COORDINATES ASSOCIATED WITH AN OBJECT
(73) Essence Smartcare Ltd.
(72) KATZ, Barak
AMIR, Ohad
(31) 202008033
(32) 21.05.2020
(33) United Kingdom

(51) A61B 5/11
G16H 20/30
G16H 40/60
(11) EP3217875
(21) EP15801253.4
(47) 29.01.2025
(87) IB2015058712
19.05.2016
(22) 11.11.2015
(54) CARDIO-RESPIRATORY FITNESS ASSESSMENT
(73) Koninklijke Philips N.V.
(72) SARTOR, Francesco
PAPINI, Gabriele
BONOMI, Alberto Giovanni
(31) 201462093661 P
201462079849 P
(32) 18.12.2014
14.11.2014
(33) United States of America
United States of America

(51) A61B 5/12
A61B 5/00
H04R 29/00
H04R 25/00
(11) EP4201324
(21) EP21883025.5
(47) 29.01.2025
(87) KR2021012599
28.04.2022
(22) 15.09.2021
(54) ELECTRONIC DEVICE AND METHOD FOR CONTROLLING SAME
(73) Samsung Electronics Co., Ltd.
(72) PARK, Jungkeun
HAN, Jonghee
LEE, Taehan
JEONG, Seonghun
KIM, Kiyean
KIM, Taeseon
(31) 20200136737
(32) 21.10.2020
(33) Korea (Republic)

(51) A61B 5/145
G01N 21/78
G01N 21/84
G01N 33/52
(11) EP4278967
(21) EP22174560.7
(47) 29.01.2025
(22) 20.05.2022
(54) METHOD OF DETERMINING A FINAL NUMERICAL ANALYTE RESULT VALUE CORRESPONDING TO A CONCENTRATION OF AN ANALYTE IN A BODILY FLUID USING A MOBILE DEVICE
(73) F. Hoffmann-La Roche AG
(72) HAILER, Frederik
BERG, Max
LIMBURG, Bernhard
HINZMANN, Rolf

(51) A61B 5/145
G16H 20/10
G16H 50/20
G16H 50/30
A61B 5/00
(11) EP4084687
(21) EP20842147.9
(47) 29.01.2025
(87) US2020066746
08.07.2021
(22) 23.12.2020
(54) COMPUTER-IMPLEMENTED DIABETES MANAGEMENT METHODS
(73) Roche Diabetes Care GmbH
(72) KUHR, Hans-Juergen
KREY, David Christopher
(31) 201962955338 P
(32) 30.12.2019
(33) United States of America

(51) A61B 5/1455
A61B 5/00
(11) EP3934536
(21) EP20710455.5
(47) 29.01.2025
(87) EP2020055706
10.09.2020
(22) 04.03.2020
(54) DEVICE FOR MONITORING OXYGEN SATURATION LEVELS IN CLINICAL CONDITIONS
(73) Koninklijke Philips N.V.
(72) PATIL, Meru Adagouda
(31) 201962814890 P
(32) 07.03.2019
(33) United States of America

(51) A61B 5/16
A61B 5/00
G16H 20/70
(11) EP4111970
(21) EP21199455.3
(47) 29.01.2025
(22) 28.09.2021
(54) ADMINISTERING EXPOSURE TREATMENTS OF A COGNITIVE BEHAVIORAL THERAPY USING A SMARTPHONE APP
(73) Koa Health Digital Solutions S.L.U.
(72) GARRIGA CALLEJA, Roger
ESTELLA AGUERRI, Iñaki
(31) 202117365283
(32) 01.07.2021
(33) United States of America

(51) A61B 5/35
A61B 5/366
A61B 5/145
A61B 5/1477
(11) EP2593001
(21) EP11807466.5
(47) 29.01.2025
(87) US2011043883
19.01.2012
(22) 13.07.2011
(54) NON-INVASIVE MONITORING OF PHYSIOLOGICAL CONDITIONS
(73) MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH
(72) FRIEDMAN, Paul A.
BENNET, Kevin E.
BRUCE, Charles J.
SOMERS, Virend K.
(31) 364317 P
(32) 14.07.2010
(33) United States of America

(51) A61B 5/372
A61B 5/00
(11) EP4210576
(21) EP21786066.7
(47) 29.01.2025
(87) US2021049249
17.03.2022
(22) 07.09.2021
(54) SYSTEMS AND METHODS FOR SEIZURE DETECTION WITH A STATISTICAL ANALYSIS AND AN ARTIFICIAL INTELLIGENCE ANALYSIS
(73) Advanced Global Clinical Solutions Inc.
(72) HECOX, Kurt E.
(31) 202063075621 P
(32) 08.09.2020
(33) United States of America

(51) A61B 6/00
(11) EP3600046
(21) EP18718579.8
(47) 29.01.2025
(87) EP2018057590
04.10.2018
(22) 26.03.2018
(54) ANGIOGRAPHY PANNING DURING X-RAY ROADMAP
(73) Koninklijke Philips N.V.
(72) HAMERSLAG, Gijsbert Klaas
(31) 17163517
(32) 29.03.2017
(33) European Patent Office (EPO)

(51) A61B 6/00
A61B 6/03
(11) EP4081122
(21) EP20839255.5
(47) 29.01.2025
(87) EP2020086486
01.07.2021
(22) 16.12.2020
(54) COMPUTER-ASSISTED TOMOGRAPHY SYSTEM
(73) Otto-von-Guericke-Universität Magdeburg
(72) GROSSER, Oliver
LEOPOLD, Mathias
PECH, Maciej
ROSE, Georg
HOFFMANN, Thomas
(31) 102019135780
(32) 23.12.2019
(33) Germany

(51) A61B 6/00
A61B 6/03
(11) EP4147644
(21) EP22192553.0
(47) 29.01.2025

(22) 29.08.2022
(54) PATIENT ANATOMY AND TASK SPECIFIC AUTOMATIC EXPOSURE CONTROL IN COMPUTED TOMOGRAPHY
(73) GE Precision Healthcare LLC
The Board of Trustees of the Leland Stanford Junior University
(72) WANG, Adam S.
ZUCKER, Evan
WANG, Sen
IMRAN, Abdullah-Al-Zubaer
PAL, Debashish
PATEL, Bhavik Natvar
(31) 202117471420
(32) 10.09.2021
(33) United States of America

(51) A61B 6/00
A61B 6/03
A61B 6/12
A61B 34/20
A61B 90/00
G06T 7/70
A61B 8/08
A61B 18/18
A61B 34/00
G06T 7/73
A61B 18/00
A61B 34/10
(11) EP3720354
(21) EP17934129.2
(47) 29.01.2025
(87) CN2017114461
13.06.2019
(22) 04.12.2017
(54) AUTOMATIC ABLATION ANTENNA SEGMENTATION FROM CT IMAGE
(73) Covidien LP
(72) TANG, Qi
GIROTTO, Darren
OU, Jianxin

(51) A61B 6/00
A61B 6/03
A61B 6/50
(11) EP4285826
(21) EP23173558.0
(47) 29.01.2025
(22) 16.05.2023
(54) MEDICAL DEVICE, SCANNING METHOD, AND STORAGE MEDIUM
(73) GE Precision Healthcare LLC
(72) SETO, Masaru
(31) 2022088114
(32) 30.05.2022
(33) Japan

(51) A61B 6/00
A61B 6/58
(11) EP4380456
(21) EP22747049.9
(47) 29.01.2025
(87) EP2022070508
09.02.2023
(22) 21.07.2022
(54) MEDICAL IMAGING SYSTEM
(73) Koninklijke Philips N.V.
(72) BRAUNAGEL, Andre
(31) 21189269
(32) 03.08.2021
(33) European Patent Office (EPO)

(51) A61B 6/03
A61B 6/00
(11) EP4153059
(21) EP21737325.7
(47) 29.01.2025
(87) US2021070752
30.12.2021
(22) 23.06.2021
(54) COOLING SYSTEM INTEGRATED WITHIN MODULAR, DETECTOR ELECTRONIC ASSEMBLY FOR A DIAGNOSTIC MEDICAL IMAGING APPARATUS
(73) Siemens Medical Solutions USA, Inc.
(72) KELLER, John
CORBEIL, James L.
BURBAR, Ziad
MOOR, Andrew Philip
(31) 202063198079 P
202016946514
PCT/US2020/070462
(32) 28.09.2020
25.06.2020
26.08.2020
(33) United States of America
United States of America
World Intellectual Property Office (WIPO)

(51) A61B 6/03
A61B 6/00
(11) EP4135581
(21) EP21788711.6
(47) 29.01.2025
(87) US2021028015
21.10.2021
(22) 19.04.2021
(54) AN IMAGING SYSTEM ISOLATION ENCLOSURE FOR PATHOGEN CONTAINMENT DURING MEDICAL IMAGING PROCEDURES
(73) General Electric Company
(72) SMITH, Chad Allan
FITZGERALD, Paul Francis
RISHEL, Michael James
ARAUJO, Stephen Lorenco
STALTER, Ross Christopher
WIEDMANN, Uwe
(31) 202063011473 P
(32) 17.04.2020
(33) United States of America

(51) A61B 6/03
A61B 6/04
A61B 6/00
(11) EP4340729
(21) EP21778344.8
(47) 29.01.2025
(87) CN2021116210
05.01.2023
(22) 02.09.2021
(54) MEDICAL DEVICE UNDERCARRIAGE AND MEDICAL DEVICE SYSTEM
(73) Siemens Shanghai Medical Equipment Ltd.
(72) WANG, Li
LI, Min
XIANG, Yin Jie
(31) 202110729994
(32) 29.06.2021
(33) China

(51) A61B 6/03
G01N 23/04
(11) EP3927238
(21) EP19916065.6
(47) 29.01.2025
(87) SE2019051238
27.08.2020
(22) 06.12.2019
(54) ENHANCED SPECTRAL X-RAY IMAGING
(73) Prismatic Sensors AB
(72) BORNEFALK, Hans
GRÖNBERG, Fredrik
DANIELSSON, Mats
(31) 201962807457 P
(32) 19.02.2019
(33) United States of America

(51) A61B 6/04
A61B 6/51
(11) EP4098202
(21) EP22176018.4
(47) 29.01.2025
(22) 30.05.2022
(54) X-RAY IMAGING APPARATUS
(73) Vatech Co., Ltd.
Vatech Ewoo Holdings Co., Ltd.
(72) Han, Da Hea
Na, Han Sik
(31) 20210076905
20210072424
(32) 14.06.2021
03.06.2021
(33) Korea (Republic)
Korea (Republic)

(51) A61B 6/10
A61B 6/00
(11) EP4173570
(21) EP22201777.4
(47) 29.01.2025
(22) 17.10.2022
(54) X-RAY IMAGING SYSTEM AND COLLISION PREVENTION METHOD THEREFOR
(73) GE Precision Healthcare LLC
(72) LI, Jinfeng
XU, Yong
LI, Yuqing
ZHU, Chao
XUE, Bingkun
(31) 202111271221
(32) 29.10.2021
(33) China

(51) A61B 6/50
G01T 1/29
A61B 6/03
A61B 6/00
(11) EP3841405
(21) EP19851236.0
(47) 29.01.2025
(87) CA2019051164
27.02.2020
(22) 23.08.2019
(54) LIQUID COOLING SYSTEM FOR PRECISE TEMPERATURE CONTROL OF RADIATION DETECTOR FOR POSITRON EMISSION MAMMOGRAPHY

(73) Radialis Medical, Inc.
(72) BUBON, Oleksandr
GILLESPIE, Christopher
REZNIK, Alla
(31) 201862722490 P
(32) 24.08.2018
(33) United States of America

(51) A61B 7/00
(11) EP3893757
(21) EP19828520.7
(47) 29.01.2025
(87) US2019065455
18.06.2020
(22) 10.12.2019
(54) HFPEF DETECTION USING EXERTIONAL HEART SOUNDS
(73) Cardiac Pacemakers, Inc.
(72) THAKUR, Pramodsingh Hirasingh
MI, Bin
(31) 201862777977 P
(32) 11.12.2018
(33) United States of America

(51) A61B 8/08
(11) EP4358851
(21) EP22733143.6
(47) 29.01.2025
(87) EP2022066356
29.12.2022
(22) 15.06.2022
(54) ULTRASOUND SYSTEMS AND METHODS FOR MONITORING A VALSALVA MANOEUVRE
(73) Koninklijke Philips N.V.
(72) XU, Jingping
HONG, Xiaowei
(31) PCT/CN2021/101445
21201927
(32) 22.06.2021
11.10.2021
(33) World Intellectual Property Office (WIPO)
European Patent Office (EPO)

(51) A61B 8/08
A61B 8/00
(11) EP4412532
(21) EP22798089.3
(47) 29.01.2025
(87) EP2022077143
13.04.2023
(22) 29.09.2022
(54) IMPROVING CARDIAC ULTRASOUND IMAGING
(73) Koninklijke Philips N.V.
(72) YU, Jason Richard
GOOSSEN, André
MERAL, Faik Can
LOSSAU, Tanja
WILD, Sebastian
WAECHTER-STEHLE, Irina
WEBER, Frank Michael
NGUYEN, Man M.
GROTH, Alexandra
VIGNON, Francois Guy Gerard Marie
(31) 202163253569 P
21202674
(32) 08.10.2021
14.10.2021
(33) United States of America
European Patent Office (EPO)

(51) A61B 8/12
A61B 8/00
H04B 5/00
(11) EP4291098
(21) EP22703667.0
(47) 29.01.2025
(87) EP2022052797
18.08.2022
(22) 06.02.2022
(54) COUPLING ELECTRICAL SIGNALS ACROSS AN ELECTRICALLY INSULATING BARRIER
(73) Koninklijke Philips N.V.
(72) KAHLMAN, Josephus Arnoldus Johannes Maria
IMMINK, Albert Hendrik Jan
(31) 21156506
(32) 11.02.2021
(33) European Patent Office (EPO)

(51) A61B 10/02
A61B 17/34
A61B 17/3205
A61B 17/322
A61M 1/00
(11) EP4005499
(21) EP22150983.9
(47) 29.01.2025
(22) 14.08.2013
(54) APPARATUS FOR TISSUE HARVESTING
(73) The General Hospital Corporation
(72) TAM, Joshua
ANDERSON, Richard R.
FRANCO, Walfre
JIMENEZ-LOZANO, Joel N.
FARINELLI, William A.
(31) 201261682969 P
(32) 14.08.2012
(33) United States of America

(51) A61B 10/04
A61B 1/00
A61B 8/00
A61B 10/02
(11) EP3266382
(21) EP15884688.1
(47) 29.01.2025
(87) JP2015083913
15.09.2016
(22) 02.12.2015
(54) ENDOSCOPE PUNCTURE NEEDLE AND BIOPSY SYSTEM
(73) Olympus Corporation
(72) MAMIYA Tomohiko
(31) 2015044880
(32) 06.03.2015
(33) Japan

(51) A61B 10/04
A61B 10/02
(11) EP4233733
(21) EP23176928.2
(47) 29.01.2025
(22) 08.10.2019
(54) BIOPSY INSTRUMENT, KIT OF PARTS AND METHOD
(73) BibbInstruments AB
(72) Dymling, Stephan
Walther, Charles
Walther, Bruno
(31) 18199230
(32) 09.10.2018
(33) European Patent Office (EPO)

(51) A61B 17/00
A61B 17/122
A61B 17/3205
A61B 1/00
A61B 17/128
A61B 17/30
(11) EP4225155
(21) EP21802871.0
(47) 29.01.2025
(87) US2021054266
14.04.2022
(22) 08.10.2021
(54) ENDOSCOPIC RESECTION ASSEMBLY
(73) United States Endoscopy Group, Inc.
(72) GREGAN, Darren
BYERS, Seth
RUSSO, Jessica
MOHAMMADPOUR, Reza
(31) 202063089360 P
(32) 08.10.2020
(33) United States of America

(51) A61B 17/00
A61M 39/22
(11) EP3876845
(21) EP18807525.3
(47) 29.01.2025
(87) US2018059628
14.05.2020
(22) 07.11.2018
(54) DUAL CHECK VALVE ONE HANDED APPLICATOR
(73) Baxter International Inc.
Baxter Healthcare SA
(72) PARMAR, Krishnakumarsinh Hitendrasinh
SCHAFER, Jerome
SANDERS, Paul J.

(51) A61B 17/06
A61B 34/30
A61B 17/00
A61B 17/04
(11) EP4101395
(21) EP22162407.5
(47) 29.01.2025
(22) 16.03.2022
(54) APPARATUS FOR CLOSING A SURGICAL SITE
(73) Munday, George Swope
(72) Munday, George Swope
(31) 202217571992
202117341497
(32) 10.01.2022
08.06.2021
(33) United States of America
United States of America

(51) A61B 17/06
A61L 31/10
A61L 31/14
A61M 5/32
(11) EP4289451
(21) EP23204866.0
(47) 29.01.2025
(22) 21.10.2010
(54) SURGICAL NEEDLE COATINGS AND METHODS

(73) Ethicon LLC
(72) HAMILTON, Michael
WILKES, Thomas
MAURER, Robert
BAR, S. Neil
HINRICHS, Eric
(31) 85848510
61466509
(32) 18.08.2010
09.11.2009
(33) United States of America
United States of America

(51) A61B 17/072
(11) EP4295785
(21) EP23207744.6
(47) 29.01.2025
(22) 12.08.2019
(54) FIRING SYSTEM FOR LINEAR SURGICAL STAPLER
(73) Ethicon LLC
(72) JONES, Jason
DECK, Andrew C.
SCHINGS, Brian D.
BAKOS, Gregory J.
(31) 201816102164
(32) 13.08.2018
(33) United States of America

(51) A61B 17/072
A61B 17/00
(11) EP3501416
(21) EP18214454.3
(47) 29.01.2025
(22) 20.12.2018
(54) SYSTEMS OF DISPLAYING A KNIFE POSITION DURING TRANSECTION FOR A SURGICAL INSTRUMENT
(73) Ethicon LLC
(72) LEIMBACH, Richard L.
PARFETT, Raymond E.
(31) 201715849785
(32) 21.12.2017
(33) United States of America

(51) A61B 17/072
A61B 17/29
A61B 17/00
A61B 34/30
(11) EP4169458
(21) EP22213205.2
(47) 29.01.2025
(22) 26.07.2021
(54) SURGICAL INSTRUMENTS WITH DOUBLE SPHERICAL ARTICULATION JOINTS WITH PIVOTABLE LINKS
(73) Cilag GmbH International
(72) WITTE, Spencer J.
(31) 202117360176
202063057432 P
202063057430 P
(32) 28.06.2021
28.07.2020
28.07.2020
(33) United States of America
United States of America
United States of America

(51) A61B 17/115
A61B 17/02
A61B 17/11
A61B 17/12
A61B 18/14
A61B 34/20
A61B 34/37
A61B 90/98
A61B 34/10
A61N 7/00
A61B 17/22
A61B 17/34
A61B 17/29
(11) EP4267015
(21) EP22787002.9
(47) 29.01.2025
(87) IB2022059109
06.04.2023
(22) 26.09.2022
(54) SURGICAL ANCHORING SYSTEMS FOR ENDOLUMINAL ACCESS
(73) Cilag GmbH International
(72) HASSAN, Alexander Tarek
HARRIS, Jason L.
SHELTON, IV, Frederick E.
SCHEIB, Charles J.
SCHUH, Travis Michael
(31) 202117449767
202163249980 P
(32) 01.10.2021
29.09.2021
(33) United States of America
United States of America

(51) A61B 17/12
A61B 17/00
(11) EP4218617
(21) EP23162995.7
(47) 29.01.2025
(22) 13.11.2012
(54) DEVICE FOR OCCLUDING ABNORMAL OPENINGS IN A PATIENT'S VASCULATURE
(73) St. Jude Medical, Cardiology Division, Inc.
(72) Glimsdale, Mathias C.
(31) 201113300322
(32) 18.11.2011
(33) United States of America

(51) A61B 17/15
A61B 17/80
A61B 17/56
A61B 90/00
(11) EP3471632
(21) EP17732208.8
(47) 29.01.2025
(87) GB2017051806
28.12.2017
(22) 20.06.2017
(54) A SURGICAL ASSEMBLY, STABILISATION PLATE AND METHOD OF MANUFACTURE
(73) 3D Metal Printing Limited
(72) CASONATO, Alberto
TOMS, Andrew
MACLEOD, Alisdair
GILL, Richie
(31) 201610809
(32) 21.06.2016
(33) United Kingdom

(51) A61B 17/16
A61B 17/92
(11) EP4005508
(21) EP22152661.9
(47) 29.01.2025
(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 17/17
A61B 17/72
A61B 17/74
(11) EP4252682
(21) EP23180192.9
(47) 29.01.2025
(22) 20.09.2019
(54) A FEMORAL NAIL AND INSTRUMENTATION SYSTEM
(73) OrthoXel DAC
(72) Keane, Micheál
Harty, James
Kiely, Gerard
Daly, Charles
O'Callaghan, Sean
(31) 18196003
(32) 21.09.2018
(33) European Patent Office (EPO)

(51) A61B 17/17
A61B 34/10
G16H 40/63
(11) EP3628245
(21) EP19209711.1
(47) 29.01.2025
(22) 10.10.2014
(54) METHOD FOR DESIGNING AND PRODUCING A SHOULDER SURGERY GUIDE
(73) Stryker European Operations Limited
(72) WALCH, Gilles
CHAOUI, Jean
(31) 201361889213 P
(32) 10.10.2013
(33) United States of America

(51) A61B 17/22
A61M 25/10
A61M 37/00
(11) EP3764925
(21) EP19713949.6
(47) 29.01.2025
(87) US2019022016
19.09.2019
(22) 13.03.2019
(54) BALLOON-BASED INTRAVASCULAR ULTRASOUND SYSTEM FOR TREATMENT OF VASCULAR LESIONS
(73) Boston Scientific Scimed, Inc.
(72) PAGORIA, Douglas Dean
MASSIMINI, Daniel Frank
MCGOWAN, Roger W.
TRAN, Binh C.
SMUK, Christopher
(31) 201916351186
201862642830 P
(32) 12.03.2019
14.03.2018
(33) United States of America
United States of America

(51) A61B 17/221
(11) EP4271287
(21) EP21841051.2
(47) 29.01.2025
(87) US2021061540
07.07.2022
(22) 02.12.2021
(54) DEVICE FOR ELECTRICALLY ENHANCED RETRIEVAL OF MATERIAL FROM VESSEL LUMENS
(73) Covidien LP
(72) NGUYEN, Hoai
DAVIDSON, James Andrew
(31) 202017247897
(32) 29.12.2020
(33) United States of America

(51) A61B 17/221
(11) EP4262588
(21) EP21827483.5
(47) 29.01.2025
(87) US2021060272
30.06.2022
(22) 22.11.2021
(54) ELECTRICALLY ENHANCED RETRIEVAL OF MATERIAL FROM VESSEL LUMENS
(73) Covidien LP
(72) DEEN, Daniel
NGUYEN, Hoai
NAGESWARAN, Ashok
(31) 202117453624
202063199352 P
(32) 04.11.2021
21.12.2020
(33) United States of America
United States of America

(51) A61B 17/24
A61F 2/18
A61F 5/08
A61M 25/04
A61M 37/00
A61B 17/34
(11) EP4233746
(21) EP23177542.0
(47) 29.01.2025
(22) 28.03.2018
(54) NASAL DELIVERY TOOLS
(73) Stryker Corporation
(72) DOMECUS, Brian J.
BARON, Scott J.
MIRIZZI, Michael S.
ROSENTHAL, Michael H.
SALINAS, Sergio
(31) 201762477829 P
(32) 28.03.2017
(33) United States of America

(51) A61B 17/29
A61B 17/072
(11) EP4008275
(21) EP21211630.5
(47) 29.01.2025
(22) 01.12.2021
(54) SURGICAL INSTRUMENT WITH ARTICULATION ASSEMBLY
(73) Covidien LP
(72) CAPPOLA, Kenneth M.
BARIL, Jacob C.
(31) 202017111692
(32) 04.12.2020
(33) United States of America

(51) A61B 17/32
A61M 3/02
A61B 17/16
A61B 90/00
A61M 25/09
A61M 39/10
(11) EP4215134
(21) EP23161503.0
(47) 29.01.2025
(22) 04.02.2019
(54) DEVICE AND IRRIGATION SYSTEM FOR SECURING AN ELONGATE MEMBER TO A MEDICAL INSTRUMENT
(73) Stryker European Operations Holdings LLC
(72) CUSHEN, Patrick Eoin
WHITFORD, Alan Peter
(31) 201862626440 P
(32) 05.02.2018
(33) United States of America

(51) A61B 17/3207
(11) EP3735190
(21) EP18834299.2
(47) 29.01.2025
(87) US2018067764
11.07.2019
(22) 27.12.2018
(54) ATHERECTOMY SYSTEM
(73) Boston Scientific Medical Device Limited
(72) NARAYANAN, Nandu
GUPTA, Akhilan
FRANCIS, Bastin
KP, Nithin Prasanth
(31) 201862613016 P
(32) 02.01.2018
(33) United States of America

(51) A61B 17/322
(11) EP4162886
(21) EP22209567.1
(47) 29.01.2025
(22) 30.10.2017
(54) METHODS FOR ASSEMBLING TISSUE GRAFTS
(73) THE GENERAL HOSPITAL CORPORATION
(72) Franco, Walfre
Wang, Ying
Purschke, Martin
Anderson, Richard Rox
Farinelli, William
Tam, Joshua
(31) 201762478207 P
201662414405 P
(32) 29.03.2017
28.10.2016
(33) United States of America
United States of America

(51) A61B 17/322
A61B 17/3205
A61B 17/3209
A61B 10/02
A61F 2/02
A61B 17/50
A61B 17/00
A61B 17/30
(11) EP3858268
(21) EP21164139.4
(47) 29.01.2025
(22) 01.04.2009
(54) APPARATUS FOR TISSUE GRAFTING
(73) The General Hospital Corporation
(72) ANDERSON, Richard Rox
FARINELLI, William A.
HAMBLIN, Michael R.
MANSTEIN, Dieter
(31) 41587 P
(32) 01.04.2008
(33) United States of America

(51) A61B 17/34
A61B 17/00
(11) EP4203820
(21) EP21786688.8
(47) 29.01.2025
(87) US2021049475
17.03.2022
(22) 08.09.2021
(54) ASPIRATION APPARATUS FOR INTRAOSSEOUS ACCESS SYSTEM
(73) Bard Access Systems, Inc.
(72) PETT, Daniel
(31) 202063076189 P
(32) 09.09.2020
(33) United States of America

(51) A61B 17/34
A61F 9/007
A61F 9/00
A61M 5/32
(11) EP3554401
(21) EP17884992.3
(47) 29.01.2025
(87) US2017067126
28.06.2018
(22) 18.12.2017
(54) OCULAR TREATMENT DEVICES
(73) New World Medical, Inc.
(72) KAHOOK, Malik Y.
(31) 201662436099 P
(32) 19.12.2016
(33) United States of America

(51) A61B 17/70
(11) EP4149376
(21) EP21724311.2
(47) 29.01.2025
(87) EP2021062514
18.11.2021
(22) 11.05.2021
(54) IMPLANTABLE DEVICE, IN PARTICULAR OF THE INTERVERTEBRAL SPACER TYPE
(73) Cousin Biotech
(72) BECQUART, Lucie
CAILLIBOTTE, Michel
HOFFMANN, Eléonore
(31) 2100980
2004780
(32) 02.02.2021
14.05.2020
(33) France
France

(51) A61B 17/70
A61B 17/86
A61B 17/88
(11) EP4240263

(21) EP21830386.5
(47) 29.01.2025
(87) EP2021081169
12.05.2022
(22) 09.11.2021
(54) MULTIPLE SET SCREW INSERTION INSTRUMENT
(73) Medos International Sarl
(72) MILLER, William
EMIL, Cory
MANSON, Alec
BIESTER, Eric
FOURNIER, Richard
(31) 202063111610 P
(32) 09.11.2020
(33) United States of America

(51) A61B 17/70
A61B 17/86
F16B 7/04
F16B 25/00
F16B 33/02
(11) EP4223240
(21) EP22155488.4
(47) 29.01.2025
(22) 07.02.2022
(54) BONE ANCHOR
(73) Biedermann Technologies GmbH & Co. KG
(72) BIEDERMANN, Timo
DANNECKER, Berthold
FISCHER, Bernd

(51) A61B 17/70
A61B 90/00
(11) EP4225176
(21) EP21794246.5
(47) 29.01.2025
(87) NL2021050611
14.04.2022
(22) 08.10.2021
(54) CONNECTOR FOR SPINAL CORRECTION
(73) UMC Utrecht Holding B.V.
(72) KRUYT, Moyo C.
CASTELEIN, René M.
(31) 2026643
(32) 08.10.2020
(33) Netherlands

(51) A61B 17/70
A61L 27/14
A61L 27/54
A61L 27/56
A61B 17/86
(11) EP3508151
(21) EP17866442.1
(47) 29.01.2025
(87) ES2017070712
11.05.2018
(22) 24.10.2017
(54) INTERVERTEBRAL FUSION DEVICE COMPRISING AN INTERVERTEBRAL STABILISING SCREW AND A COMPOSITION FOR BONE REMODELLING
(73) Endospine, S.L.
(72) MORGENSTERN LOPEZ, Rudolf
MORGENSTERN DE MULLER, Christian Rudolf
(31) 201631413
(32) 07.11.2016
(33) Spain

(51) A61B 17/80
(11) EP3946106
(21) EP20721436.2
(47) 29.01.2025
(87) EP2020059817
08.10.2020
(22) 06.04.2020
(54) A BONE REDUCTION AND FIXATION PLATE
(73) Nephin Ventures Limited
(72) O'DONNELL, Turlough
LAING, Alan
(31) 201904862
(32) 05.04.2019
(33) United Kingdom

(51) A61B 18/02
A61B 18/06
A61B 18/08
A61B 18/14
A61B 18/18
A61B 18/22
A61F 7/12
A61B 17/24
A61B 17/00
A61B 18/00
(11) EP3471638
(21) EP17814143.8
(47) 29.01.2025
(87) US2017037798
21.12.2017
(22) 15.06.2017
(54) DEVICES FOR TREATING A LATERAL SURFACE OF A NASAL CAVITY
(73) Arrinex, Inc.
(72) SAADAT, Vahid
FOX, William Jason
SAADAT, Mojgan
(31) 201662350445 P
(32) 15.06.2016
(33) United States of America

(51) A61B 18/14
A61B 18/00
A61B 18/18
(11) EP3426177
(21) EP17771093.6
(47) 29.01.2025
(87) US2017023660
28.09.2017
(22) 22.03.2017
(54) DEVICES FOR ENERGY DELIVERY AND THERAPY
(73) Microcube, LLC
(72) SHROFF, Ketan
TATE, Christine M.
WALKE, Amrish J.
MODY, Dinesh I.
(31) 201662311839 P
(32) 22.03.2016
(33) United States of America

(51) A61B 18/22
A61B 1/00
G01M 11/00
G02B 6/42
A61B 18/18
(11) EP3804652
(21) EP19810570.2
(47) 29.01.2025
(87) JP2019021076
05.12.2019
(22) 28.05.2019
(54) CATHETER DEVICE FOR LASER ABLATION COMPRISING A FIBER STATE DETECTION SYSTEM
(73) FURUKAWA ELECTRIC CO., LTD.
(72) NOMURA, Yoshiki
MATSUSHITA, Shunichi
(31) 2018106290
(32) 01.06.2018
(33) Japan

(51) A61B 34/00
(11) EP3200714
(21) EP14784414.6
(47) 29.01.2025
(87) EP2014070880
07.04.2016
(22) 30.09.2014
(54) PROFILE FOR THE ATTACHMENT OF AN IMMOBILISATION MASK
(73) Orfit Industries
(72) DE GRUYTERE, Simon

(51) A61B 34/00
A61B 34/20
(11) EP3810015
(21) EP19742097.9
(47) 29.01.2025
(87) US2019036971
26.12.2019
(22) 13.06.2019
(54) MIXED-REALITY SURGICAL SYSTEM WITH PHYSICAL MARKERS FOR REGISTRATION OF VIRTUAL MODELS
(73) Howmedica Osteonics Corp.
(72) MOORE, Jesse G.
CARIOU, Damien
CHAOUI, Jean
POLTARETSKYI, Sergii
(31) 201962804383 P
201962804402 P
201962804392 P
201862778791 P
201862778782 P
201862778796 P
201862778772 P
201862778760 P
201862778788 P
201862778778 P
201862778797 P
201862778764 P
201862778789 P
201862778774 P
201862739406 P
201862687014 P
(32) 12.02.2019
12.02.2019
12.02.2019
12.12.2018
12.12.2018
12.12.2018
12.12.2018
12.12.2018
12.12.2018
12.12.2018
12.12.2018
12.12.2018

12.12.2018
12.12.2018
01.10.2018
19.06.2018
(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 34/00
A61B 34/20
A61B 17/34
A61B 17/17
A61B 34/30
A61B 34/10
A61B 90/11
(11) EP4240267
(21) EP21816263.4
(47) 29.01.2025
(87) US2021058249
12.05.2022
(22) 05.11.2021
(54) ROBOTIC HAND-HELD SURGICAL INSTRUMENT SYSTEMS
(73) Stryker Corporation
(72) MICHAELSON, Phillip, Bryce
(31) 202063110685 P
(32) 06.11.2020
(33) United States of America

(51) A61B 34/00
A61B 34/30
A61B 17/29
B25J 17/02
(11) EP3461450
(21) EP18197703.4
(47) 29.01.2025
(22) 28.09.2018
(54) POWER AXLE WRIST FOR ROBOTIC SURGICAL TOOL
(73) Ethicon LLC
(72) RYAN, Andrew
CONSTANTINEAU, Cole
BRUEHWILER, Michel
SAEEDI, Khodabakhsh
(31) 201715720699
(32) 29.09.2017
(33) United States of America

(51) A61B 34/00
A61B 34/37
(11) EP4166108
(21) EP20943882.9
(47) 29.01.2025
(87) JP2020026766
13.01.2022
(22) 08.07.2020
(54) MEDICAL OPERATION APPARATUS
(73) RIVERFIELD Inc.
(72) SUZUKI, Masataka
TADANO, Kotaro

(51) A61B 34/00
A61B 34/37
A61B 34/30
(11) EP3386414
(21) EP16816336.8
(47) 29.01.2025
(87) GB2016053895
15.06.2017
(22) 09.12.2016
(54) SURGICAL INSTRUMENT SHAFT SPOKES
(73) CMR Surgical Limited
(72) PHOOLCHUND, Nikki Priyam Su-Ling
MARSHALL, Keith
CHAPLIN, Ben Robert
(31) 201521807
(32) 10.12.2015
(33) United Kingdom

(51) A61B 34/00
A61H 1/02
A61H 3/00
A61B 34/30
(11) EP3998036
(21) EP22150070.5
(47) 29.01.2025
(22) 03.11.2014
(54) WALKING ASSISTANCE ROBOT AND METHOD OF CONTROLLING THE WALKING ASSISTANCE ROBOT
(73) Samsung Electronics Co., Ltd.
(72) Lim, Bok Man
Seo, Kee Hong
(31) 20130134784
(32) 07.11.2013
(33) Korea (Republic)

(51) A61B 34/10
(11) EP4013332
(21) EP20746992.5
(47) 29.01.2025
(87) EP2020071762
25.02.2021
(22) 03.08.2020
(54) DETERMINING ABLATION PROBE CONFIGURATION
(73) Koninklijke Philips N.V.
(72) BARAGONA, Marco
NEUKIRCHEN, Christoph
ISOLA, Alfonso Agatino
(31) 19192015
(32) 16.08.2019
(33) European Patent Office (EPO)

(51) A61B 34/10
A61B 17/34
(11) EP4161425
(21) EP21737222.6
(47) 29.01.2025
(87) US2021033517
09.12.2021
(22) 20.05.2021
(54) PORT PLACEMENT GUIDE BASED ON INSUFFLATED PATIENT TORSO MODEL AND NORMALIZED SURGICAL TARGETS
(73) Verb Surgical Inc.
(72) MONTEVERDE, David R.
BZOSTEK, Andrew
FER, Danyal
(31) 202016894625
(32) 05.06.2020
(33) United States of America

(51) A61B 34/10
A61B 34/20
A61B 34/00
(11) EP4003205
(21) EP20754490.9
(47) 29.01.2025
(87) US2020043218
28.01.2021
(22) 23.07.2020
(54) POSITIONING A CAMERA FOR PERSPECTIVE SHARING OF A SURGICAL SITE
(73) Howmedica Osteonics Corp.
(72) CARIOU, Damien
MORVAN, Yannick
(31) 201962878573 P
(32) 25.07.2019
(33) United States of America

(51) A61B 34/10
G06T 7/12
G06T 7/33
A61B 34/30
A61B 90/00
G06T 7/00
G06T 7/10
G06T 7/30
(11) EP4049609
(21) EP22156977.5
(47) 29.01.2025
(22) 16.02.2022
(54) CROSS-MODALITY PLANNING USING FEATURE DETECTION
(73) Mazor Robotics Ltd.
(72) ZUCKER, Ido
(31) 202217589951
202163153513 P
(32) 01.02.2022
25.02.2021
(33) United States of America
United States of America

(51) A61B 34/20
A61B 34/32
A61B 90/00
A61B 34/10
A61B 34/30
A61B 17/00
(11) EP4355249
(21) EP22741336.6
(47) 29.01.2025
(87) FR2022051136
22.12.2022
(22) 14.06.2022
(54) MEDICAL ROBOT FOR PLACEMENT OF MEDICAL INSTRUMENTS UNDER ULTRASOUND GUIDANCE
(73) Quantum Surgical
(72) NAHUM, Bertin
BLONDEL, Lucien
BADANO, Fernand
SUDRE, Mathieu
(31) 2106350
(32) 16.06.2021
(33) France

(51) A61B 34/20

A61B 90/00
A61B 17/00
(11) EP4344667
(21) EP22198383.6
(47) 29.01.2025
(22) 28.09.2022
(54) BONE CLAMP AND SURGICAL TRACKING SYSTEM COMPRISING THE BONE CLAMP
(73) Stryker European Operations Limited
(72) S, Bharath
BEDI, Inderjeet Singh
WEEDE, Oliver
SCHOEPP, Hans

(51) A61B 34/20
A61B 90/00
A61B 90/50
A61B 17/00
A61B 34/10
G02B 27/01
G06T 7/00
A61B 34/00
G06T 7/73
G06T 19/00
(11) EP3280344
(21) EP16718475.3
(47) 29.01.2025
(87) IB2016051924
13.10.2016
(22) 05.04.2016
(54) SYSTEM FOR UTILIZING AUGMENTED REALITY TO IMPROVE SURGERY
(73) King Abdullah University Of Science And Technology
(72) BESUCHET, Jonathan
CALI, Corrado
(31) 201562143923 P
(32) 07.04.2015
(33) United States of America

(51) A61B 34/30
F16G 3/12
B25J 9/10
F16H 55/00
F16H 7/02
F16H 7/18
F16H 55/36
F16H 55/46
B65H 75/08
A61B 17/00
F16G 11/00
A61B 34/00
F16C 11/04
(11) EP4101410
(21) EP21899756.7
(47) 29.01.2025
(87) CN2021125032
09.06.2022
(22) 20.10.2021
(54) PULLEY AND ROBOTIC ARM HAVING THE SAME CONNECTED WITH AN END EFFECTOR
(73) Cornerstone Technology (Shenzhen) Limited
(72) WANG, Zerui
(31) 202011402465
(32) 02.12.2020
(33) China

(51) A61B 34/37
A61B 1/00
A61B 1/005
A61B 90/00
B25J 9/16
A61B 34/30
A61B 34/20
(11) EP4021335
(21) EP19762759.9
(47) 29.01.2025
(87) EP2019073245
04.03.2021
(22) 30.08.2019
(54) IMAGE BASED MOTION CONTROL CORRECTION
(73) Brainlab AG
(72) BIRKENBACH, Rainer

(51) A61B 34/37
A61B 46/10
(11) EP4103096
(21) EP21704019.5
(47) 29.01.2025
(87) IB2021051028
19.08.2021
(22) 09.02.2021
(54) STERILE BARRIER ASSEMBLY AND ROBOTIC SURGERY SYSTEM
(73) Medical Microinstruments, Inc.
(72) LAZZARI, Giorgio
SIMI, Massimiliano
(31) 202000002536
202000002545
(32) 10.02.2020
10.02.2020
(33) Italy
Italy

(51) A61B 50/33
A61B 50/36
A61B 50/00
A61B 50/18
A61B 50/30
(11) EP3860500
(21) EP19850800.4
(47) 29.01.2025
(87) US2019068487
02.07.2020
(22) 24.12.2019
(54) MEDICAL DEVICE CONTAINMENT AND TRANSPORTATION SYSTEMS
(73) Boston Scientific Scimed, Inc.
(72) DANDIN, Jenny
BOLICK, Alyson
COLLINS, Mark
TALSKY, Joshua
LAFLAMME, Ryan
CUMMINGS, Nathan T.
DALENA, Michele E.
(31) 201962847142 P
201862784995 P
(32) 13.05.2019
26.12.2018
(33) United States of America
United States of America

(51) A61B 90/00
A61F 2/40
A61F 2/30
A61B 17/56
(11) EP4312864
(21) EP22714696.6
(47) 29.01.2025
(87) US2022020488
29.09.2022
(22) 16.03.2022
(54) SHIELD GUIDE ASSEMBLY
(73) Arthrex, Inc.
(72) GALLEN, Kevin John
VAN DER MERWE, Michael Stephan
UHING, Frank
FELKEL, Bernd
CLEVETT, Tyler
PATERSON, John David
RAVENSCROFT, Matthew John
GRIFFIN, Justin William
SCHEWE, Steven P.
(31) 202117214067
(32) 26.03.2021
(33) United States of America

(51) A61B 90/13
A61B 34/30
A61B 5/055
A61B 6/03
A61B 90/00
G09B 23/28
A61B 17/34
A61B 34/20
A61B 6/00
(11) EP4279016
(21) EP23165756.0
(47) 29.01.2025
(22) 31.03.2023
(54) DEVICE AND METHOD FOR ALIGNING A MEDICAL OBJECT
(73) Siemens Healthineers AG
(72) Regensburger, Alois
Hornung, Oliver
(31) 102022204859
(32) 17.05.2022
(33) Germany

(51) A61B 90/50
A61B 50/28
F16M 13/02
F21V 23/00
(11) EP3946137
(21) EP20721023.8
(47) 29.01.2025
(87) US2020025286
01.10.2020
(22) 27.03.2020
(54) MEDICAL DEVICE SUSPENSION SYSTEM HAVING CABLE MANAGEMENT ASSEMBLY
(73) American Sterilizer Company
(72) HESER, Michael Joseph
BELLOWS, Lance Clark
MOSS, Bernard John
(31) 201962825078 P
(32) 28.03.2019
(33) United States of America

(51) A61B 90/70
A61B 34/30
A61B 34/00
A61L 2/26
(11) EP3763316
(21) EP20184684.7
(47) 29.01.2025
(22) 08.07.2020

(54) ROBOTIC SURGICAL TOOL CLEANING SYSTEM
(73) Ethicon LLC
(72) KLOPPENBORG, Nicholas Martin
SABO, Bradley Jacob
RADERMACHER, Ryne Derrick
BURCHNALL, Mark Ronningen
(31) 202016920989
201962871963 P
(32) 06.07.2020
09.07.2019
(33) United States of America
United States of America

(51) A61C 1/08
A61C 8/00
(11) EP4422545
(21) EP23833044.3
(47) 29.01.2025
(87) EP2023085745
27.06.2024
(22) 14.12.2023
(54) SYSTEM FOR PREPARING FOR AND/OR CARRYING OUT A DENTAL IMPLANT INSERTION
(73) TRI Dental Implants Int. AG
(72) PEREZ, Rafael
VENANZONI, Sandro
(31) 102022134517
(32) 22.12.2022
(33) Germany

(51) A61C 5/73
A61C 5/77
A61C 13/00
A61C 13/08
B33Y 80/00
B33Y 50/00
(11) EP3984494
(21) EP20215945.5
(47) 29.01.2025
(22) 21.12.2020
(54) METHOD FOR PRODUCING A DENTAL RESTORATION
(73) Ivoclar Vivadent AG
(72) NIEDRIG, Christian
JUSSEL, Rudolf
JOHN, Hendrik
(31) 20201553
(32) 13.10.2020
(33) European Patent Office (EPO)

(51) A61C 8/00
(11) EP4285861
(21) EP22176986.2
(47) 29.01.2025
(22) 02.06.2022
(54) DENTAL IMPLANT
(73) SIC Invent AG
(72) VON MALOTTKI, Marcus
JÖRN TANCK, Oke
WINTERHOFF, Jörg

(51) A61C 8/00
A61C 13/235
A61C 19/04
(11) EP4262615
(21) EP21816470.5
(47) 29.01.2025
(87) EP2021083507
23.06.2022
(22) 30.11.2021

(54) DENTAL ATTACHMENT SYSTEM
(73) Ivoclar Vivadent AG
(72) MUELLER, Frank
SCHUELKE, Andreas
GROSSE-HONEBRINK, Alexander
SENTI, Theresa Sujata Maria
(31) 20214669
(32) 16.12.2020
(33) European Patent Office (EPO)

(51) A61C 9/00
(11) EP4048192
(21) EP20799796.6
(47) 29.01.2025
(87) GB2020052628
29.04.2021
(22) 19.10.2020
(54) A TUBE AND A METHOD FOR PREPARATION OF A BITE REGISTRATION
(73) Chawich, Wassim
(72) Chawich, Wassim
(31) 201915219
(32) 21.10.2019
(33) United Kingdom

(51) A61C 13/20
A61C 13/00
A61C 5/77
B33Y 80/00
(11) EP4048193
(21) EP20804152.5
(47) 29.01.2025
(87) EP2020079500
29.04.2021
(22) 20.10.2020
(54) METHOD FOR PRODUCING A COLD-CASTING MOULD, AND COLD-CASTING MOULD FOR THE PRODUCTION OF MOULDED PARTS, IN PARTICULAR DENTURES
(73) WDT-Wolz-Dental-Technik GmbH
(72) WOLZ, Stefan
(31) 102019128336
(32) 21.10.2019
(33) Germany

(51) A61C 13/265
(11) EP4171436
(21) EP21742515.6
(47) 29.01.2025
(87) IB2021055738
06.01.2022
(22) 28.06.2021
(54) DENTAL DEVICE
(73) Muggia, Davide
Maet Sagl
Di Edoardo, Emanuele
(72) MASSANO, Daniele
(31) 202000015652
(32) 29.06.2020
(33) Italy

(51) A61C 17/024
A61B 17/22
A61C 17/20
(11) EP3634643
(21) EP18738198.3
(47) 29.01.2025
(87) EP2018064659
20.12.2018
(22) 04.06.2018

(54) CLEANING, HEALING AND REGENERATION OF TISSUE AND WOUNDS
(73) Sloan Water Technology Limited
(72) ZHU, Mengyang
DOLDER, Craig
LEIGHTON, Timothy
SECKER, Thomas
VOEGELI, David
HARLING, Christopher
(31) 201708901
(32) 05.06.2017
(33) United Kingdom

(51) A61F 2/00
(11) EP3694443
(21) EP18795823.6
(47) 29.01.2025
(87) US2018051460
18.04.2019
(22) 18.09.2018
(54) REPAIR PROSTHETIS WITH CURL MITIGATION FEATURE
(73) C. R. Bard, Inc.
(72) RATHBUN, Tami, L.
MARSHALL, Tyler, William
FELIX, Augustus
CORREIA, Cameron, Michael
TREXLER, Jonathan, Bruce
(31) 201715782120
(32) 12.10.2017
(33) United States of America

(51) A61F 2/00
A61F 2/01
(11) EP3840691
(21) EP19762612.0
(47) 29.01.2025
(87) US2019047434
27.02.2020
(22) 21.08.2019
(54) SYSTEMS FOR PROTECTING THE CEREBRAL VASCULATURE
(73) Boston Scientific Scimed, Inc.
(72) HAMILL, Whittaker Ian
BLAESER, David J.
FIFER, Daniel W.
YUAN, Shih-hsiung Albert
(31) 201862720816 P
(32) 21.08.2018
(33) United States of America

(51) A61F 2/04
A61B 17/24
A61K 9/00
A61K 9/70
A61F 2/18
A61F 2/86
A61F 2/89
A61F 2/915
A61F 2/95
(11) EP3791826
(21) EP20203807.1
(47) 29.01.2025
(22) 12.12.2008
(54) SELF-EXPANDING DEVICES
(73) Intersect ENT, Inc.
(72) HUANG, Bin
KAUFMAN, Richard, Eric
EATON, Donald, J
ABBATE, Anthony, J.

GALE, David, C.
ZALER, Gail, Meredith
(31) 58803 P
14653 P
(32) 04.06.2008
18.12.2007
(33) United States of America
United States of America

(51) A61F 2/07
A61F 2/856
A61F 2/06
(11) EP4319685
(21) EP22721034.1
(47) 29.01.2025
(87) EP2022059106
13.10.2022
(22) 06.04.2022
(54) VASCULAR PROSTHESIS
(73) Université Gustave Eiffel
Assistance Publique Hôpitaux de Marseille
Universite d'Aix Marseille
Bypass Solutions
(72) ALIMI, Yves Simon
BAAS, David
MOURET, Frédéric
GARITEY, Vincent
(31) 21305438
(32) 06.04.2021
(33) European Patent Office (EPO)

(51) A61F 2/16
(11) EP4408345
(21) EP22786014.5
(47) 29.01.2025
(87) EP2022075815
06.04.2023
(22) 16.09.2022
(54) ACCOMMODATIVE INTRAOCULAR LENS FOR PRODUCING A RESTORING FORCE
(73) Carl Zeiss Meditec AG
(72) SRBINOSKA, Hristina
BUCHHEISTER, Jan
WOLF, Uwe
NICOLI, Francesca
SCHREIBER, Benjamin
WOLFSTEIN, André
(31) 102021125295
(32) 29.09.2021
(33) Germany

(51) A61F 2/24
(11) EP3902503
(21) EP19839458.7
(47) 29.01.2025
(87) US2019065119
02.07.2020
(22) 09.12.2019
(54) ELEVATED OUTER CUFF FOR REDUCING PARAVALVULAR LEAKAGE AND INCREASING STENT FATIGUE LIFE
(73) St. Jude Medical, Cardiology Division, Inc.
(72) LI, Xue, Mei
(31) 201862784923 P
(32) 26.12.2018
(33) United States of America

(51) A61F 2/24
A61B 17/04
A61B 17/29
A61B 17/00
A61F 2/95
A61B 90/00
(11) EP3886725
(21) EP19816244.8
(47) 29.01.2025
(87) EP2019083159
04.06.2020
(22) 29.11.2019
(54) DEVICE FOR HEART REPAIR
(73) Cardiomech AS
(72) HIORTH, Hans Emil
HIORTH, Nikolai
BLIX, John B.
(31) 201913360
201913057
201911812
201911817
201907110
201904688
201820990
201820258
201819490
201819484
201819489
201819480
(32) 16.09.2019
10.09.2019
16.08.2019
16.08.2019
20.05.2019
03.04.2019
21.12.2018
12.12.2018
29.11.2018
29.11.2018
29.11.2018
29.11.2018
(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom

(51) A61F 2/24
A61F 2/06
A61F 2/90
(11) EP4185244
(21) EP21846978.1
(47) 29.01.2025
(87) US2021042472
27.01.2022
(22) 21.07.2021
(54) LOW PROFILE EXPANDABLE HEART VALVE
(73) St. Jude Medical, Cardiology Division, Inc.
(72) MOORE, Brandon
(31) 202063055402 P
(32) 23.07.2020
(33) United States of America

(51) A61F 2/24
A61F 2/95
(11) EP4353202
(21) EP23217909.3
(47) 29.01.2025
(22) 23.06.2017
(54) COMPACT CRIMPING DEVICE
(73) Edwards Lifesciences Corporation
(72) Rinberg, Gregory
Saar, Tomer
(31) 201715630711
201662354551 P
(32) 22.06.2017
24.06.2016
(33) United States of America
United States of America

(51) A61F 2/46
(11) EP4142654
(21) EP21722804.8
(47) 29.01.2025
(87) EP2021060994
04.11.2021
(22) 27.04.2021
(54) FEMORAL HEAD RESTORATION
(73) DePuy Ireland Unlimited Company
(72) NAYLOR, Jason
WITHER, Caroline
(31) 202006158
(32) 27.04.2020
(33) United Kingdom

(51) A61F 2/46
A61B 17/17
(11) EP4370071
(21) EP22744719.0
(47) 29.01.2025
(87) EP2022068764
19.01.2023
(22) 06.07.2022
(54) POSITIONING DEVICE FOR IMPLANTATION OF PROSTHESIS IN A LONG BONE, IN PARTICULAR FOR IMPLANTATION OF HUMERAL PROSTHESIS
(73) Limacorporate S.p.A.
(72) FATTORI, Andrea
PRANZETTI, Antony
PRESSACCO, Michele
(31) 202100018728
(32) 15.07.2021
(33) Italy

(51) A61F 2/46
A61N 1/05
A61N 1/375
A61B 17/11
A61B 17/56
A61B 17/00
A61F 2/28
A61B 90/10
(11) EP4035725
(21) EP19954465.1
(47) 29.01.2025
(87) CN2019121535
03.06.2021
(22) 28.11.2019
(54) AUXILIARY TOOL FOR SURGERY
(73) SceneRay Co., Ltd.
(72) WU, Guoliang

ZHANG, Haitao
(51) A61F 2/50
A61F 2/66
A61F 2/76
(11) EP4125735
(21) EP21714786.7
(47) 29.01.2025
(87) US2021021788
07.10.2021
(22) 10.03.2021
(54) TRACTION SYSTEM FOR AN AMBULATORY SUPPORT
(73) NIKE Innovate C.V.
(72) SIGURDSSON, Sindri Pall
ANDRESSON, Bjarni
ORAND, Austin J.
LECOMTE, Christophe Guy
CLAUSEN, Arinbjorn Viggo
HATFIELD, Tobie D.
XANTHOS, George A.
SVEINBJORNSDOTTIR, Maria Gudrun
ALBERTSSON, Aron Kristbjorn
(31) 202063004698 P
(32) 03.04.2020
(33) United States of America

(51) A61F 2/58
A61F 2/68
(11) EP3735205
(21) EP18829332.8
(47) 29.01.2025
(87) EP2018085659
11.07.2019
(22) 18.12.2018
(54) GRIPPING DEVICE
(73) Otto Bock Healthcare Products GmbH
(72) EDER, Florian
(31) 102018100173
(32) 05.01.2018
(33) Germany

(51) A61F 2/60
A61F 2/64
A61F 2/74
(11) EP4104800
(21) EP22178968.8
(47) 29.01.2025
(22) 14.06.2022
(54) ARTIFICIAL KNEE JOINT, METHOD OF CONTROLLING ARTIFICIAL KNEE JOINT, AND PROGRAM TO CONTROL ARTIFICIAL KNEE JOINT
(73) Nabtesco Corporation
(72) Hashimoto, Hiroaki
(31) 2021098688
(32) 14.06.2021
(33) Japan

(51) A61F 2/95
A61B 18/14
A61L 29/02
A61L 29/14
A61B 17/00
A61L 15/00
A61L 29/00
(11) EP3808316
(21) EP18922575.8
(47) 29.01.2025
(87) CN2018099489
19.12.2019
(22) 09.08.2018
(54) HOT-PUNCTURE STENT IMPLANTATION DEVICE
(73) Shengjing Hospital of China Medical University
Micro-Tech (Nanjing) Co., Ltd.
(72) GUO, Jintao
LIU, Chunjun
WEI, Jianyu
GE, Nan
SUN, Jialing
LENG, Derong
SHEN, Zhenghua
LI, Changqing
SUN, Siyu
(31) 201810606565
(32) 13.06.2018
(33) China

(51) A61F 5/44
A61F 5/445
(11) EP4106687
(21) EP21708315.3
(47) 29.01.2025
(87) GB2021050392
26.08.2021
(22) 18.02.2021
(54) AN OUTLET VALVE FOR AN OSTOMY APPLIANCE
(73) ConvaTec Limited
(72) HOLROYD, Simon
TAAL, Stefan
BAKER, Dominic
(31) 202002316
202002314
(32) 19.02.2020
19.02.2020
(33) United Kingdom
United Kingdom

(51) A61F 5/453
(11) EP4076301
(21) EP20842751.8
(47) 29.01.2025
(87) US2020065234
24.06.2021
(22) 16.12.2020
(54) APPARATUS AND METHODS FOR RECEIVING DISCHARGED URINE
(73) Purewick Corporation
(72) WOLFE, Justin
JOHANNES, Ashley Marie
(31) 201962949187 P
(32) 17.12.2019
(33) United States of America

(51) A61F 5/56
A61B 5/03
A61B 5/00
A61B 5/22
(11) EP4284312
(21) EP22704514.3
(47) 29.01.2025
(87) EP2022052245
04.08.2022
(22) 31.01.2022
(54) DEVICE FOR DETERMINING TONGUE POSITION BY MEASURING NEGATIVE PRESSURE IN THE ORAL CAVITY, FOR MEASURING INHALATION PRESSURE IN THE NASOPHARYNGEAL CAVITY, AND ASSOCIATED TERMINAL
(73) Engelke, Wilfried Gerhard Hermann
Kahn, Sandra Vivian
(72) Engelke, Wilfried Gerhard Hermann
Kahn, Sandra Vivian
(31) 202130232
202163143399 P
(32) 16.03.2021
29.01.2021
(33) Spain
United States of America

(51) A61F 6/14
(11) EP4288003
(21) EP21836438.8
(47) 29.01.2025
(87) EP2021085119
25.08.2022
(22) 10.12.2021
(54) CONTRACEPTIVE DEVICE AND ION-DELIVERING BODY
(73) Dühlmeyer, Meira
(72) Dühlmeyer, Meira
(31) 202021100798 U
102021201558
(32) 18.02.2021
18.02.2021
(33) Germany
Germany

(51) A61F 7/00
A61H 33/00
A61H 33/06
A61H 35/00
(11) EP4324438
(21) EP23191319.5
(47) 29.01.2025
(22) 14.08.2023
(54) CRYOGENIC PHYSICAL THERAPY CABIN AND CRYOGENIC PHYSICAL THERAPY CABIN SYSTEM
(73) Long, Zhigang
(72) Long, Zhigang
(31) 202210974146
(32) 15.08.2022
(33) China

(51) A61F 9/007
(11) EP4178507
(21) EP21746564.0
(47) 29.01.2025
(87) IB2021055963
13.01.2022
(22) 02.07.2021
(54) OPHTHALMIC CURETTE
(73) Johnson & Johnson Surgical Vision, Inc.
(72) GOVARI, Assaf
ALGAWI, Yehuda
AHARON, Eran
SITNITSKY, Ilya
ALTMANN, Andres Claudio
(31) 202016922200
(32) 07.07.2020
(33) United States of America

(51) A61F 13/00
A61F 13/02
A61B 5/00
(11) EP3810051
(21) EP19822061.8
(47) 29.01.2025
(87) US2019038662
26.12.2019

(22) 24.06.2019
(54) ADHESIVE OVERLAY
(73) Vital Connect, Inc.
(72) MOGHADAM, Rod
COLLIOU, Oliver
(31) 201816015482
(32) 22.06.2018
(33) United States of America

(51) A61F 13/00
A61F 13/0203
A61F 13/0206
A61F 13/02
A61K 31/198
A61K 31/785
A61L 15/28
A61L 15/46
C08L 1/28
(11) EP4262902
(21) EP21844198.8
(47) 29.01.2025
(87) EP2021085616
23.06.2022
(22) 14.12.2021
(54) METHOD FOR THE MANUFACTURE OF A WOUND CARE PRODUCT
(73) Lohmann & Rauscher GmbH
(72) BUCHEGGER, Patricia
ROLJIC, Milijana
PANHÖLZL, Christopher
LEEB, Tina
SCHIPALI, Stefanie
HARREITHER, Wolfgang
(31) 102020133583
(32) 15.12.2020
(33) Germany

(51) A61F 13/02
(11) EP4262654
(21) EP20829771.3
(47) 29.01.2025
(87) EP2020086899
23.06.2022
(22) 17.12.2020
(54) WOUND DRESSING
(73) Essity Hygiene and Health Aktiebolag
(72) SCHULZE, Christian
SCHÜTZ, Patrick

(51) A61F 13/0206
A61F 13/0203
A61F 13/06
A61F 13/10
(11) EP4076314
(21) EP20841898.8
(47) 29.01.2025
(87) EP2020086836
24.06.2021
(22) 17.12.2020
(54) MEDICAL ARTICLE FOR THE PROPHYLAXIS OF DECUBITUS ULCERS
(73) Paul Hartmann Aktiengesellschaft
(72) KRÄMER, Maja
ECKSTEIN, Axel
(31) 102019135061
(32) 19.12.2019
(33) Germany

(51) A61F 13/05
A61F 13/0203
(11) EP4157176
(21) EP21727873.8
(47) 29.01.2025
(87) EP2021063755
02.12.2021
(22) 24.05.2021
(54) A NEGATIVE PRESSURE WOUND THERAPY (NPWT) DRESSING
(73) Mölnlycke Health Care AB
(72) BOLYOS, Elinor
HOLMÉN, Malin
SKEPPSTEDT, Viktoria
SVENSSON, Malin
(31) 20176254
(32) 25.05.2020
(33) European Patent Office (EPO)

(51) A61F 13/15
A61F 13/511
A61F 13/512
D04H 1/54
B29C 59/04
(11) EP4236890
(21) EP21772968.0
(47) 29.01.2025
(87) CN2021116697
05.05.2022
(22) 06.09.2021
(54) ABSORBENT ARTICLE
(73) The Procter & Gamble Company
(72) SUN, Kun
LIU, Xiaoxin
DONG, Xiaohui
WANG, Sijia
WANG, Fancheng
TONG, Tong
(31) PCT/CN2020/125264
(32) 30.10.2020
(33) World Intellectual Property Office (WIPO)

(51) A61F 13/15
A61F 13/56
A61F 13/58
(11) EP4265232
(21) EP23165172.0
(47) 29.01.2025
(22) 29.03.2023
(54) A METHOD FOR PRODUCING ABSORBENT SANITARY ARTICLES WITH SIDE PANELS
(73) Fameccanica.Data S.p.A.
(72) GIANSANTE, Antonio
SABLONE, Gabriele
(31) 202200007979
(32) 22.04.2022
(33) Italy

(51) A61F 13/47
A61F 13/56
(11) EP4271337
(21) EP20841951.5
(47) 29.01.2025
(87) EP2020087973
07.07.2022
(22) 29.12.2020
(54) DISPOSABLE HYGIENE ARTICLE WITH IMPROVED FIT
(73) Essity Hygiene and Health Aktiebolag
(72) ELIASSON, Louise
SOHL, Josefin
LIPSCHUTZ, Oscar
EKSTEDT, Sofia

(51) A61F 13/49
A61F 13/514
(11) EP3865103
(21) EP19935749.2
(47) 29.01.2025
(87) JP2019047521
10.06.2021
(22) 04.12.2019
(54) ABSORBENT ARTICLE
(73) KAO CORPORATION
(72) FUKUDA, Yuko
ISHIBASHI, Kyoko

(51) A61F 13/534
A61F 13/535
A61F 13/537
A61F 13/53
A61F 13/539
A61F 13/531
(11) EP3207906
(21) EP16206908.2
(47) 29.01.2025
(22) 31.01.2014
(54) MULTI-LAYER ABSORBENT MATERIAL
(73) Ontex BV
(72) WEBER, Ainas
DE POORTER, Annick

(51) A61F 13/84
A61F 13/53
(11) EP3838243
(21) EP19218866.2
(47) 29.01.2025
(22) 20.12.2019
(54) INCONTINENCE ARTICLE WITH PH REGULATOR
(73) Paul Hartmann AG
(72) SWEREV, Maximilian
GAUSE, Enno
STALTER, Isabel
ESQUERRA, Juan
BÄHRLE, Christian
HIDALGO, Luis
KESSELMEIER, Rüdiger

(51) A61G 3/08
B60P 3/073
(11) EP3989899
(21) EP20830715.7
(47) 29.01.2025
(87) US2020039106
30.12.2020
(22) 23.06.2020
(54) WHEELCHAIR DOCKING SYSTEM AND METHOD THEREOF
(73) The Braun Corporation
(72) WOJDYLA, Adam
BADALLO, Carlos
PUGH, Michael, R.
(31) 201962866064 P
(32) 25.06.2019
(33) United States of America

(51) A61G 5/04
A61G 5/14
(11) EP4302741
(21) EP22183660.4
(47) 29.01.2025
(22) 07.07.2022
(54) POWERED MIDWHEEL DRIVE WHEELCHAIR WITH STANDING CAPABILITY

(73) Permobil AB
(72) VAN DE WAL, Herbert
DANIELSSON, Anton
LÖFVANDER, Ulrik

(51) A61G 5/06
A61G 5/12
B62D 55/02
(11) EP4225244
(21) EP21783358.1
(47) 29.01.2025
(87) IB2021059102
21.04.2022
(22) 05.10.2021
(54) WHEELCHAIR
(73) Acha S.r.L.
(72) BONFIGLIOLI, Giancarlo
(31) 202000023926
(32) 12.10.2020
(33) Italy

(51) A61G 7/057
A61B 5/00
A61B 5/103
G01L 1/14
(11) EP3927304
(21) EP20758665.2
(47) 29.01.2025
(87) US2020019486
27.08.2020
(22) 24.02.2020
(54) PRESSURE SENSING MAT
(73) Wellsense, Inc.
(72) ROFE, Arik
BROSH, Asaf
GREENWALD, Oola
(31) 201962809158 P
(32) 22.02.2019
(33) United States of America

(51) A61G 7/10
(11) EP4233824
(21) EP23179097.3
(47) 29.01.2025
(22) 03.02.2020
(54) PATIENT LIFT APPARATUS
(73) Invacare International GmbH
(72) MONTEIRO, Mark
DE SEIXAS GUIMARÃES, Tiago
FERREIRA, Joaquim
LIPPERT, Stefan
(31) 19155847
19155846
(32) 06.02.2019
06.02.2019
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) A61G 10/00
(11) EP4335425
(21) EP21730970.7
(47) 29.01.2025
(87) ES2021070303
10.11.2022
(22) 04.05.2021
(54) FOLDABLE DEVICE FOR ISOLATING A PATIENT
(73) Rekreando, S.L.
(72) PÉREZ SÁEZ, David
FERNÁNDEZ ENTENZA, Jose Enrique

(51) A61G 13/00
(11) EP4171467
(21) EP21745453.7
(47) 29.01.2025
(87) IL2021050775
30.12.2021
(22) 24.06.2021
(54) ROTATABLE FIXATION BRIDGE
(73) Mazor Robotics Ltd.
(72) JUNIO, Dany
CHEN, Yuval
USHPIZIN, Yonatan
RATZABI, Elad
(31) 202063044535 P
(32) 26.06.2020
(33) United States of America

(51) A61G 13/10
A61B 90/14
(11) EP4312935
(21) EP21715217.2
(47) 29.01.2025
(87) EP2021057567
29.09.2022
(22) 24.03.2021
(54) PATIENT TABLE MOUNTING FRAME
(73) Brainlab AG
(72) PLASSKY, Norman
HOFBERGER, Stefan

(51) A61H 9/00
A61H 7/00
(11) EP4190300
(21) EP22210797.1
(47) 29.01.2025
(22) 01.12.2022
(54) GAS-TYPE MASSAGE DEVICE AND GAS-TYPE MASSAGE APPARATUS
(73) Techno Takatsuki Co., Ltd.
(72) SHIMIZU, Kazuma
(31) 2021196444
(32) 02.12.2021
(33) Japan

(51) A61H 31/00
(11) EP3773409
(21) EP19774714.0
(47) 29.01.2025
(87) US2019024927
03.10.2019
(22) 29.03.2019
(54) CPR COMPRESSION DEVICE WITH COOLING SYSTEM AND BATTERY REMOVAL DETECTION
(73) Zoll Circulation, Inc.
(72) LAWRENCE, David, T.
MANOUKIAN, Ari, M.
PETERSEN, Kelsey, A.
REYNOLDS, Byron, J.
SMITH, Ian
(31) 201815942309
(32) 30.03.2018
(33) United States of America

(51) A61H 37/00
A61H 15/00
A61H 7/00
(11) EP3982903
(21) EP20823025.0
(47) 29.01.2025
(87) US2020037089
17.12.2020
(22) 10.06.2020
(54) PRESSURE RELEASE AND MASSAGE TOOL
(73) Aletha Inc.
(72) KOTH, Christine Annette
(31) 202016850801
201962860222 P
(32) 16.04.2020
11.06.2019
(33) United States of America
United States of America

(51) A61J 1/20
A61M 5/178
(11) EP4146135
(21) EP21729931.2
(47) 29.01.2025
(87) IB2021053733
11.11.2021
(22) 04.05.2021
(54) FLUIDIC GROUP AND RELATED APPARATUS FOR DRUG PREPARATION
(73) Biovalley Group S.p.A.
(72) PAROVEL, Bostjan
DESCHMANN, Bastiano
GIRIBONA, Paolo
MERLANI, Enrico
(31) 202000009751
(32) 04.05.2020
(33) Italy

(51) A61J 3/00
(11) EP4146136
(21) EP21729930.4
(47) 29.01.2025
(87) IB2021053728
11.11.2021
(22) 04.05.2021
(54) APPARATUS FOR DRUG PREPARATION, WEIGHING DEVICE INCLUDED IN THE APPARATUS, AND METHOD FOR DRUG PREPARATION
(73) Biovalley Group S.p.A.
(72) PAROVEL, Bostjan
GIRIBONA, Paolo
MERLANI, Enrico
DESCHMANN, Bastiano
(31) 202000009745
(32) 04.05.2020
(33) Italy

(51) A61K 6/20
A61K 6/30
A61K 6/887
(11) EP3328342
(21) EP16751522.0
(47) 29.01.2025
(87) EP2016067947
02.02.2017
(22) 27.07.2016
(54) DENTAL ADHESIVE
(73) Dentsply DeTrey GmbH
(72) KLEE, Joachim
FIK, Christoph P.
POHLE, Sven
(31) 15178517
(32) 27.07.2015
(33) European Patent Office (EPO)

(51) A61K 6/30
A61K 6/849
C08L 33/10

C09J 149/00
C08L 33/08
C08F 222/10
C08F 2/50
C08L 35/02
C08K 9/06
C08K 3/40
C08K 3/36
C08K 3/22
(11) EP3646847
(21) EP18823843.0
(47) 29.01.2025
(87) JP2018024700
03.01.2019
(22) 28.06.2018
(54) TWO-PASTE TYPE DENTAL CURABLE COMPOSITION
(73) Kuraray Noritake Dental Inc.
(72) ABE, Momoe
KAWANA, Mariko
HATANAKA, Kenji
(31) 2017126707
(32) 28.06.2017
(33) Japan

(51) A61K 8/19
A61K 8/42
A61K 8/73
A61Q 11/00
A61K 8/49
(11) EP4301323
(21) EP22709739.1
(47) 29.01.2025
(87) EP2022055497
09.09.2022
(22) 04.03.2022
(54) ORAL CARE COMPOSITION
(73) Unilever IP Holdings B.V.
(72) JIN, Huajin
LIU, Weining
(31) PCT/CN2021/079381
21168023
(32) 05.03.2021
13.04.2021
(33) World Intellectual Property Office (WIPO)
European Patent Office (EPO)

(51) A61K 8/28
A61Q 15/00
A61K 8/44
A61K 8/20
(11) EP4366682
(21) EP22744160.7
(47) 29.01.2025
(87) EP2022068405
12.01.2023
(22) 04.07.2022
(54) METHOD OF MANUFACTURE OF ANTIPERSPIRANT SALTS
(73) Unilever IP Holdings B.V.
(72) LUCKWELL, Craig James
KAY, Cameron
(31) 21184287
(32) 07.07.2021
(33) European Patent Office (EPO)

(51) A61K 8/33
A61K 8/34
A61K 8/35
A61K 8/37
A61K 8/49
A61Q 19/00
A61L 9/01
(11) EP4096618
(21) EP20842554.6
(47) 29.01.2025
(87) EP2020085184
16.06.2022
(22) 09.12.2020
(54) A MIXTURE COMPRISING 1,2-ALKANEDIOLS
(73) Symrise AG
(72) BUGDAHN, Nikolas
SIEGEL, Sven
LANGE, Sabine

(51) A61K 9/06
A61P 27/16
A61K 31/045
A61K 9/16
A61K 47/34
A61K 38/18
A61K 31/436
A61K 31/05
A61K 31/13
A61K 31/137
A61K 31/43
A61P 25/02
A61P 25/22
A61P 31/04
A61P 37/02
A61P 43/00
A61K 31/325
A61K 31/519
A61K 31/5513
A61K 31/5517
(11) EP2278999
(21) EP09734483.2
(47) 29.01.2025
(87) US2009041320
29.10.2009
(22) 21.04.2009
(54) AURIS FORMULATIONS FOR TREATING OTIC DISEASES AND CONDITIONS
(73) The Regents of the University of California
Dompé farmaceutici S.p.A.
(72) DURÓN, Sergio, G.
LEBEL, Carl
TRAMMEL, Andrew, M.
DELLAMARY, Luis, A.
LICHTER, Jay
SCAIFE, Michael, Christopher
HARRIS, Jeffrey, P.
VOLLRATH, Benedikt
PIU, Fabrice
YE, Qiang
(31) 82450 P
160233 P
140033 P
101112 P
94384 P
88275 P
87951 P
87905 P
86094 P
86105 P
83830 P
83871 P
76567 P
76576 P
74583 P
73716 P
60425 P
55625 P
127713 P
48878 P
46543 P
(32) 21.07.2008
13.03.2009
22.12.2008
29.09.2008
04.09.2008
12.08.2008
11.08.2008
11.08.2008
04.08.2008
04.08.2008
25.07.2008
25.07.2008
27.06.2008
27.06.2008
20.06.2008
18.06.2008
10.06.2008
23.05.2008
14.05.2008
29.04.2008
21.04.2008
(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
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) A61K 9/08
A61K 31/473
A61K 31/485
C07D 215/14
A61K 47/02
A61K 47/10
A61K 47/40
C07D 221/18
(11) EP4009973
(21) EP20849662.0
(47) 29.01.2025
(87) US2020045338
11.02.2021
(22) 07.08.2020
(54) PHARMACEUTICAL COMPOSITIONS OF (6AS)-6-

METHYL-5,6,6A,7-TETRAHYDRO-4H-DIBENZO[DE,G]QUINOLINE-10,11-DIOL
(73) Aclipse One, Inc.
(72) SHAN, Ning
(31) 201962883910 P
(32) 07.08.2019
(33) United States of America

(51) A61K 9/107
A61K 31/337
A61K 47/34
A61K 47/69
A61P 35/00
C08G 79/02
(11) EP4069214
(21) EP20896616.8
(47) 29.01.2025
(87) US2020062945
10.06.2021
(22) 02.12.2020
(54) POLYPHOSPHAZENE DRUG CARRIERS
(73) Onselex Pharmaceuticals, Inc.
(72) SHIN, Ernest
(31) 201962942978 P
(32) 03.12.2019
(33) United States of America

(51) A61K 9/127
A61K 31/5575
(11) EP3496704
(21) EP17754572.0
(47) 29.01.2025
(87) US2017045939
15.02.2018
(22) 08.08.2017
(54) LIPOSOMAL COMPOSITION CONTAINING MILD ACIDIC ACTIVE AGENT
(73) Taiwan Liposome Co., Ltd.
TLC Biopharmaceuticals, Inc.
(72) CHEN, He-Ru
HUANG, Ke-Ming
HONG, Keelung
(31) 201662375698 P
201662372096 P
(32) 16.08.2016
08.08.2016
(33) United States of America
United States of America

(51) A61K 9/127
A61K 49/08
A61K 49/10
A61K 49/18
A61K 31/4745
A61K 31/704
(11) EP3302434
(21) EP16729331.5
(47) 29.01.2025
(87) GB2016051693
15.12.2016
(22) 08.06.2016
(54) NANOPARTICLES
(73) King's College London
(72) THANOU, Maria
GEDROYC, Wladyslaw
WRIGHT, Michael James Lee
CENTELLES, Miguel
MILLER, Andrew David
(31) 201509934
(32) 08.06.2015
(33) United Kingdom

(51) A61K 9/16
A61K 9/20
A61K 9/28
A61K 31/505
(11) EP4014968
(21) EP21214648.4
(47) 29.01.2025
(22) 15.12.2021
(54) A FILM COATED TABLET COMPRISING MICRONIZED AMBRISENTAN
(73) Sanovel Ilac Sanayi ve Ticaret A.S.
(72) PEHLIVAN AKALIN, Nur
GÜLER, Tolga
(31) 202020618
(32) 16.12.2020
(33) Türkiye

(51) A61K 9/20
A61K 31/496
A61K 9/00
(11) EP3329908
(21) EP17204906.6
(47) 29.01.2025
(22) 01.12.2017
(54) ORALLY DISPERSIBLE TABLET FORM OF ARIPIPRAZOLE MONOHYDRATE FORMULATIONS
(73) Sanovel Ilac Sanayi ve Ticaret A.S.
(72) ÖNDER, Ramazan
TÜRKYILMAZ, Ali
PEHLIVAN AKALIN, Nur
AYHAN, Merve
(31) 201617675
(32) 02.12.2016
(33) Türkiye

(51) A61K 9/48
A61K 47/02
A61K 47/32
A61K 47/36
A61K 47/38
(11) EP3485911
(21) EP17824263.2
(47) 29.01.2025
(87) JP2017024564
11.01.2018
(22) 04.07.2017
(54) HARD CAPSULE HAVING IMPROVED HARDNESS, AND METHOD FOR MANUFACTURING SAME
(73) Qualicaps Co., Ltd.
(72) OSAKI, Yoshiro
USUI, Toshimitsu
ASO, Makoto
(31) 2016134353
(32) 06.07.2016
(33) Japan

(51) A61K 9/51
A61K 39/395
A61K 39/00
A61P 27/02
A61P 35/00
A61P 31/00
C07K 16/22
C07K 16/28
(11) EP3641737
(21) EP18734785.1
(47) 29.01.2025
(87) EP2018066639
27.12.2018
(22) 21.06.2018
(54) ALBUMIN NANOPARTICLES FOR THE TREATMENT OF CANCER AND OCULAR DISEASES
(73) Universidad de Navarra
Universidad Nacional De Cordoba
Consejo Nacional de Investigaciones Científicas y Técnicas
(72) LUIS DE REDÍN SUBIRÁ, Inés
PEÑUELAS SÁNCHEZ, Iván
LLABOT, Juan Manuel
QUINCOCES FERNÁNDEZ, Gemma
ALLEMANDI, Daniel Alberto
IRACHE GARRETA, Juan Manuel
BOIERO, Carolina
(31) 17382383
(32) 21.06.2017
(33) European Patent Office (EPO)

(51) A61K 31/09
A61K 31/706
A61P 1/16
A61P 31/14
A61P 35/00
(11) EP4049656
(21) EP22168395.6
(47) 29.01.2025
(22) 16.03.2018
(54) COMBINATION OF NICOTINAMIDE RIBOSIDE AND PTEROSTILBENE FOR USE IN TREATING OR PREVENTING LIVER DAMAGE
(73) Elysium Health, Inc.
(72) ROEL SANTOS, Santiago
PERSHING GUARENTE, Leonard
MORRIS, Mark
DELLINGER, Ryan
MARCOTULLI, Eric
ALMINANA, Dan
(31) 201762472883 P
(32) 17.03.2017
(33) United States of America

(51) A61K 31/201
A61K 31/202
A61K 31/23
A61K 47/12
A61K 47/14
A23L 33/115
A23L 33/12
A23L 33/17
A23L 33/185
A23L 33/21
A23L 33/00
A61K 31/19
A61K 31/733
A61P 3/02
A61P 25/08
A61P 25/28
A23L 33/15
A61K 9/00
A61K 36/48
A61P 25/06
(11) EP4301161
(21) EP22711342.0
(47) 29.01.2025
(87) IT2022050031
09.09.2022

(22) 23.02.2022
(54) LIQUID FOOD PRODUCT TO MANAGE THE KETOGENIC DIET
(73) Dr. Schär S.P.A.
(72) BARBAN, Fabio
CERNE, Virna Lucia
(31) 202100005009
(32) 04.03.2021
(33) Italy

(51) A61K 31/27
A61K 31/407
A61K 31/4178
A61K 31/439
A61K 31/522
A61P 27/10
A61P 27/02
A61K 9/00
(11) EP4210690
(21) EP21786063.4
(47) 29.01.2025
(87) US2021048985
17.03.2022
(22) 03.09.2021
(54) COMPOSITIONS AND METHODS FOR TREATING PRESBYOPIA, HYPEROPIA, ASTIGMATISM, DECREASED STEREOPSIS, AND DECREASED CONTRAST SENSITIVITY
(73) Intratus-Nevada, Inc.
(72) NANDURI, Padma
DYER, Aaron
(31) 202063077142 P
(32) 11.09.2020
(33) United States of America

(51) A61K 31/335
A61K 31/00
A61K 45/06
A61K 31/44
A61K 31/138
A61K 31/16
A61K 31/19
A61P 35/00
(11) EP3846789
(21) EP19857142.4
(47) 29.01.2025
(87) IN2019050637
12.03.2020
(22) 05.09.2019
(54) COMPOSITION COMPRISING HISTONE DEACETYLASE INHIBITOR AND ESTROGEN RECEPTOR ANTAGONIST FOR USE IN A METHOD OF TREATMENT OF CANCER
(73) National Centre For Cell Science
(72) SHASTRY, Padma
(31) 201821033349
(32) 05.09.2018
(33) India

(51) A61K 31/42
A61K 31/422
A61P 33/14
(11) EP3236960
(21) EP15817303.9
(47) 29.01.2025
(87) EP2015080744
30.06.2016
(22) 21.12.2015
(54) FLURALANER FOR USE IN THE TREATMENT OF DEMODICOSIS
(73) Intervet International B.V.
(72) FRENAIS, Régis, Joël, Alain
HECKEROTH, Anja, Regina
WILLIAMS, Heike
TÄNZLER, Janina
(31) 14199562
(32) 22.12.2014
(33) European Patent Office (EPO)

(51) A61K 31/435
A61K 31/44
A61K 31/4402
C07D 213/64
A61P 37/06
(11) EP3661506
(21) EP18841771.1
(47) 29.01.2025
(87) US2018044669
07.02.2019
(22) 31.07.2018
(54) PIRFENIDONE DERIVATIVES FOR MODULATION OF B LYMPHOCYTE ACTIVITY AND ORGAN PROTECTION
(73) Mann, Douglas L.
Dolle, Roland
Washington University
Adamo, Luigi
(72) MANN, Douglas L.
DOLLE, Roland
ADAMO, Luigi
(31) 201862681418 P
201762539309 P
(32) 06.06.2018
31.07.2017
(33) United States of America
United States of America

(51) A61K 31/4427
A61P 35/00
(11) EP4013413
(21) EP20751178.3
(47) 29.01.2025
(87) EP2020072514
18.02.2021
(22) 11.08.2020
(54) TARGETING WNK1 IN BLOOD CANCERS
(73) Københavns Universitet
(72) HELIN, Kristian
AGGER, Karl
(31) 19191246
(32) 12.08.2019
(33) European Patent Office (EPO)

(51) A61K 31/4725
A61P 35/00
C07D 417/14
A61K 9/08
(11) EP4034115
(21) EP20868013.2
(47) 29.01.2025
(87) US2020052514
01.04.2021
(22) 24.09.2020
(54) PHARMACEUTICAL COMPOSITION COMPRISING THROMBOLYTIC PEPTIDE-TETRAHYDROISOQUINOLINE CONJUGATE
(73) Lumosa Therapeutics Co., Ltd.
(72) CHOU, David Chih-Kuang
(31) 201962905679 P
(32) 25.09.2019
(33) United States of America

(51) A61K 31/485
A61P 25/32
(11) EP4223296
(21) EP23163177.1
(47) 29.01.2025
(22) 27.06.2013
(54) NALMEFENE FOR REDUCTION OF ALCOHOL CONSUMPTION IN SPECIFIC TARGET POPULATIONS
(73) H. Lundbeck A/S
(72) ABBARIKI, Afsaneh
BLADSTRÖM, Anna
MEULIEN, Didier
TORUP, Lars
ØSTERGAARD, Jette, Buch
PERSSON, Christine
SØRENSEN, Per
JENSEN, Thomas, Jon
(31) 201361788810 P
201261736740 P
201261721539 P
201261664804 P
(32) 15.03.2013
13.12.2012
02.11.2012
27.06.2012
(33) United States of America
United States of America
United States of America
United States of America

(51) A61K 31/49
A23L 33/00
A61K 9/00
A61P 31/14
(11) EP4142728
(21) EP21723639.7
(47) 29.01.2025
(87) EP2021000051
04.11.2021
(22) 26.04.2021
(54) 6'-METHOXYCINCHONAN-9-OLS FOR THE TREATMENT OF CORONAVIRAL INFECTIONS
(73) Immunologik GmbH
(72) SCHUBERT, Ulrich
SETZ, Christian
RHEBER, Sascha
(31) 20000172
20000170
(32) 28.04.2020
27.04.2020
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) A61K 31/519
A61P 15/00
(11) EP3634419
(21) EP18731976.9
(47) 29.01.2025
(87) EP2018064767
13.12.2018
(22) 05.06.2018
(54) DOSING REGIMEN COMPRISING A GONADOTROPIN-RELEASING

HORMONE ANTAGONIST FOR TREATING UTERINE FIBROIDS AND REDUCING MENSTRUAL BLOOD LOSS
(73) Kissei Pharmaceutical Co., Ltd.
(72) LOUMAYE, Ernest
POHL, Oliver
GOTTELAND, Jean-Pierre
(31) 201762515232 P
(32) 05.06.2017
(33) United States of America

(51) A61K 31/5377
A61P 35/04
C07K 16/28
A61K 45/06
A61K 39/395
(11) EP3849554
(21) EP19860430.8
(47) 29.01.2025
(87) US2019050373
19.03.2020
(22) 10.09.2019
(54) COMBINATION THERAPY WITH A PHOSPHOINOSITIDE 3-KINASE INHIBITOR WITH A ZINC BINDING MOIETY
(73) Curis, Inc.
(72) PATTERSON, Troy, David
WANG, Jing
TIAN, Ze
(31) 201862729648 P
(32) 11.09.2018
(33) United States of America

(51) A61K 31/65
A61K 9/00
A61K 47/02
A61K 47/18
A61K 9/19
(11) EP4289419
(21) EP23177238.5
(47) 29.01.2025
(22) 05.06.2023
(54) A FREEZE DRIED PARENTERAL COMPOSITION OF OMADACYCLINE TOSYLATE WITH IMPROVED STABILITY
(73) Gufic Biosciences Limited
(72) PATEL, Mitesh Natavarlal
ANKLESARIA, Beena Pourusashap
CHOKSI, Pranavkumar Jayesh
DAVE, Mafatlal Tribhovandas
(31) 202223033552
(32) 11.06.2022
(33) India

(51) A61K 31/745
A61K 9/16
A61K 9/50
A61K 31/785
A61P 1/00
A61P 1/12
(11) EP3664782
(21) EP18758981.7
(47) 29.01.2025
(87) SE2018050803
14.02.2019
(22) 09.08.2018
(54) CHOLESTYRAMINE PELLETS, ORAL CHOLESTYRAMINE FORMULATIONS AND MEDICAL USE THEREOF
(73) Albireo AB
(72) GILLBERG, Per-Göran
LÖVGREN, Kurt
GUSTAFSSON, Nils Ove
(31) 1750977
(32) 09.08.2017
(33) Sweden

(51) A61K 33/14
A61Q 19/00
A61K 9/00
A61K 45/06
A61K 31/194
A61K 33/04
A61K 33/20
A61K 33/40
A61P 17/02
A61P 31/02
A61P 29/00
(11) EP3218069
(21) EP15798353.7
(47) 29.01.2025
(87) EP2015076260
19.05.2016
(22) 10.11.2015
(54) COSMETIC AND PHARMACEUTICAL AGENTS FOR TREATING WOUNDS AND/OR HEMORRHAGING OF THE SKIN, MUCOUS MEMBRANES OR THE GUM, IN PARTICULAR FOR EXAMPLE, SUPERFICIAL CRACKS (RHAGADEN) OR PERODONTITIS
(73) Bogaert, Jean-Pierre
(72) Bogaert, Jean-Pierre
(31) 17502014
(32) 11.11.2014
(33) Switzerland

(51) A61K 35/50
A61P 27/02
(11) EP4098270
(21) EP22175710.7
(47) 29.01.2025
(22) 27.05.2022
(54) USE OF SECRETOME OF AMNIOTIC FLUID STEM CELLS IN THE TREATMENT OF DRY EYE DISEASE
(73) U-Neuron Biomedical Inc.
(72) Hsieh, Chen-An
Lin, Pei-Cheng
Hwang, Shiaw-Min
(31) 202117335477
(32) 01.06.2021
(33) United States of America

(51) A61K 36/185
A61K 36/31
A61K 36/52
A61K 36/54
A61K 36/73
A61K 36/889
A61P 39/00
(11) EP4142762
(21) EP21728115.3
(47) 29.01.2025
(87) IB2021053567
04.11.2021
(22) 29.04.2021
(54) SUPERFOOD FOR PROLONGING THE LONGEVITY OF AN INDIVIDUAL
(73) Giuliani S.p.A.
(72) PINTO, Daniela
GOBBETTI, Marco
DI CAGNO, Raffaella
GIULIANI, Giammaria
TLAIS, Ali Zein Alabiden
RINALDI, Fabio
FIORINO, Giuseppina Maria
MARZANI, Barbara
(31) 202000009610
(32) 30.04.2020
(33) Italy

(51) A61K 38/095
A61K 31/165
A61K 31/4425
A61K 31/451
A61K 38/18
C07K 7/16
(11) EP3528828
(21) EP17862085.2
(47) 29.01.2025
(87) US2017057601
26.04.2018
(22) 20.10.2017
(54) TERLIPRESSIN COMPOSITION FOR USE IN TREATING ASCITES
(73) Amryt Endo, Inc.
(72) PATOU, Gary
(31) 201762472291 P
201662410971 P
(32) 16.03.2017
21.10.2016
(33) United States of America
United States of America

(51) A61K 38/14
A61K 31/7052
A61K 47/36
A61K 47/30
A61K 47/26
A61K 9/19
C07K 9/00
C12P 21/02
A61P 31/04
(11) EP3169345
(21) EP15821589.7
(47) 29.01.2025
(87) US2015040736
21.01.2016
(22) 16.07.2015
(54) HIGH PURITY ORITAVANCIN AND METHOD OF PRODUCING SAME
(73) Melinta Therapeutics, LLC
(72) PRUYNE, Julie J.
CHEMBURKAR, Sanjay R.
KRISHNA, Gopal
DING, Min
REAMER, Douglas M.
RAFAI FAR, Adel
PETZEL, James P.
KNABLE, Carl M.
(31) 201462025737 P
(32) 17.07.2014
(33) United States of America

(51) A61K 38/21
(11) EP3558342
(21) EP17829194.4

(47) 29.01.2025
(87) EP2017083949
28.06.2018
(22) 20.12.2017
(54) MEDICAL USE OF INTERFERON-LAMBDA FOR THE TREATMENT OF FIBROSIS
(73) UCB Biopharma SRL
Five Prime Therapeutics, Inc.
(72) JOHNSON, Timothy Scott
KELLAR, Danielle E.
TWOMEY, Breda
POWERS, Janine
(31) 201621728
(32) 20.12.2016
(33) United Kingdom

(51) A61K 38/26
A61K 9/00
A61K 47/10
A61K 47/18
A61K 47/26
(11) EP4262745
(21) EP21836185.5
(47) 29.01.2025
(87) EP2021086147
23.06.2022
(22) 16.12.2021
(54) PHARMACEUTICAL COMPOSITION OF GLP-1/GLP-2 DUAL AGONISTS
(73) Zealand Pharma A/S
(72) VILLADSEN, Jesper Skodborg
GIEHM, Lise
(31) 20214562
(32) 16.12.2020
(33) European Patent Office (EPO)

(51) A61K 38/28
C07K 14/62
(11) EP3270949
(21) EP16765572.9
(47) 29.01.2025
(87) US2016022390
22.09.2016
(22) 14.03.2016
(54) INSULIN ANALOGUES CONTAINING A GLUCOSE-REGULATED CONFORMATIONAL SWITCH
(73) Case Western Reserve University
(72) WEISS, Michael
(31) 201562132704 P
201562133251 P
(32) 13.03.2015
13.03.2015
(33) United States of America
United States of America

(51) A61K 39/00
C07K 16/18
(11) EP3551220
(21) EP17817624.4
(47) 29.01.2025
(87) US2017064869
14.06.2018
(22) 06.12.2017
(54) ANTI-TAU ANTIBODIES AND METHODS OF USE
(73) AC Immune SA
Genentech, Inc.
(72) DICARA, Danielle
ADOLFSSON, Oskar
HOTZEL, Isidro
(31) 201662431180 P
(32) 07.12.2016
(33) United States of America

(51) A61K 39/39
A61K 31/7115
A61K 31/7125
A61K 47/50
C07H 21/00
A61K 9/51
A61P 35/00
(11) EP3442542
(21) EP17767464.5
(47) 29.01.2025
(87) US2017022568
21.09.2017
(22) 15.03.2017
(54) NANOPARTICLES, CONTROLLED-RELEASE DOSAGE FORMS, AND METHODS FOR DELIVERING AN IMMUNOTHERAPEUTIC AGENT
(73) North Carolina State University
(72) YE, Yanqi
WANG, Chao
GU, Zhen
(31) 201662380711 P
201662308513 P
(32) 29.08.2016
15.03.2016
(33) United States of America
United States of America

(51) A61K 39/395
A61K 35/17
C07K 14/725
C07K 14/705
C07K 14/735
C07K 16/28
C07K 16/30
A61K 39/00
(11) EP3600407
(21) EP18712231.2
(47) 29.01.2025
(87) EP2018057566
04.10.2018
(22) 26.03.2018
(54) IMPROVED ANTIGEN BINDING RECEPTORS
(73) F. Hoffmann-La Roche AG
(72) STUBENRAUCH, Kay-Gunnar
KLEIN, Christian
MOESSNER, Ekkehard
DAROWSKI, Diana
(31) 17163090
(32) 27.03.2017
(33) European Patent Office (EPO)

(51) A61K 39/395
A61K 45/06
C07K 16/32
A61P 35/00
(11) EP4234033
(21) EP23172794.2
(47) 29.01.2025
(22) 11.10.2012
(54) USES FOR AND ARTICLE OF MANUFACTURE INCLUDING HER2 DIMERIZATION INHIBITOR PERTUZUMAB
(73) F. Hoffmann-La Roche AG
(72) KWONG GLOVER, Zephania W.
RATNAYAKE, Jayantha
CLARK, Emma I.
AMLER, Lukas C.
BENYUNES, Mark C.
WALKER, Ru-Amir
ALAVATTAM, Sreedhara
ROSS, Graham A.
MITCHELL, Lada
DE TOLEDO PELIZON, Christina H.
(31) 201261694584 P
201261682037 P
201261657669 P
201161567015 P
201161547535 P
(32) 29.08.2012
10.08.2012
08.06.2012
05.12.2011
14.10.2011
(33) United States of America
United States of America
United States of America
United States of America
United States of America

(51) A61K 39/395
A61K 51/10
C07K 16/28
C07K 14/705
A61K 38/00
A61K 48/00
A61P 35/00
A61P 37/02
A61P 43/00
A61K 39/00
(11) EP3506943
(21) EP17845645.5
(47) 29.01.2025
(87) IB2017055281
08.03.2018
(22) 01.09.2017
(54) METHODS AND COMPOSITIONS INVOLVING INTERLEUKIN-6 RECEPTOR ALPHA-BINDING SINGLE CHAIN VARIABLE FRAGMENTS
(73) The Regents of the University of California
(72) CHEN, Yvonne Yu-Hsuan
LIN, Meng-Yin
(31) 201762443509 P
201662440991 P
201662383237 P
(32) 06.01.2017
30.12.2016
02.09.2016
(33) United States of America
United States of America
United States of America

(51) A61K 47/14
A61K 47/44
A61K 31/355
A61P 15/06
(11) EP4346900
(21) EP22729540.9
(47) 29.01.2025
(87) EP2022063177
01.12.2022
(22) 16.05.2022

(54) COMPOSITION COMPRISING AN ESTER OF ALPHA-TOCOPHEROL FOR REDUCING THE RISK OF PRETERM BIRTH
(73) HULKA S.R.L.
(72) PANIN, Giorgio
(31) 202100013898
(32) 27.05.2021
(33) Italy

(51) A61K 47/64
A61P 35/00
A61K 31/5365
(11) EP3452096
(21) EP17723745.0
(47) 29.01.2025
(87) GB2017051250
09.11.2017
(22) 04.05.2017
(54) BICYCLIC PEPTIDE-TOXIN CONJUGATES SPECIFIC FOR MT1-MMP
(73) BicycleRD Limited
(72) BALDASSARRE, Leonardo
PAVAN, Silvia
TEUFEL, Daniel
(31) 201607827
(32) 04.05.2016
(33) United Kingdom

(51) A61K 47/68
A61K 31/7084
A61K 47/65
A61P 35/00
A61P 35/02
A61P 43/00
C07H 21/02
C07K 16/00
(11) EP3848054
(21) EP19857433.7
(47) 29.01.2025
(87) JP2019035198
12.03.2020
(22) 06.09.2019
(54) ANTIBODY-DRUG CONJUGATES OF CYCLIC DINUCLEOTIDE DERIVATIVES
(73) Daiichi Sankyo Company, Limited
(72) WADA, Teiji
ISHIZAKI, Masayuki
ARAI, Masami
WATANABE, Hideaki
HARA, Kyoko
KOBAYASHI, Hiroyuki
TABUCHI, Toshiki
TSUDA, Toshifumi
(31) 2018167369
(32) 06.09.2018
(33) Japan

(51) A61L 2/26
G09F 3/20
(11) EP3551236
(21) EP17818080.8
(47) 29.01.2025
(87) EP2017081701
14.06.2018
(22) 06.12.2017
(54) INTERFACE FOR FASTENING ATTACHMENT PARTS TO STERILE CONTAINERS
(73) Aesculap AG
(72) BAUER, Stephan
AMANN, Joachim
MALIGLOWKA, Johann
FRECH, Bozica
HÖFLER, Martina
SCHEIT, Michael
HENKE, Matthias
MOTZ, Corvin
ZIERIS, Gerold
BOHNENSTENGEL, Philipp
STEINER, Sabrina
(31) 102016123864
(32) 08.12.2016
(33) Germany

(51) A61L 9/12
A61K 8/11
A61L 9/012
A01M 1/20
B32B 1/00
A45D 34/04
(11) EP4262897
(21) EP21840671.8
(47) 29.01.2025
(87) IB2021061644
23.06.2022
(22) 13.12.2021
(54) DIFFUSER OF VOLATILE LIQUID SUBSTANCES EQUIPPED WITH A VAPOR PERMEABLE MEMBRANE, ACTIVATED AT THE TIME OF USE
(73) Zobele Holding SpA
(72) SORDO, Walter
DEFLORIAN, Stefano
(31) 202000030848
(32) 15.12.2020
(33) Italy

(51) A61L 15/40
A61K 35/28
A61L 27/38
A61L 27/52
A61L 27/60
C12N 5/095
(11) EP3092989
(21) EP14877608.1
(47) 29.01.2025
(87) KR2014006068
16.07.2015
(22) 07.07.2014
(54) MESENCHYMAL STEM CELLS-HYDROGEL-BIODEGRADABLE OR MESENCHYMAL STEM CELLS-HYDROGEL-NON-DEGRADABLE SUPPORT COMPOSITION FOR SKIN REGENERATION OR WOUND HEALING
(73) Anterogen Co., Ltd.
(72) KIM, Mihyung
LEE, Sung-Koo
KIM, Inok
(31) 20140065816
20140003499
(32) 30.05.2014
10.01.2014
(33) Korea (Republic)
Korea (Republic)

(51) A61L 27/20
A61L 27/38
A61L 27/48
A61L 27/50
A61L 27/52
A61L 27/54
B33Y 10/00
B33Y 70/00
(11) EP4292617
(21) EP22179834.1
(47) 29.01.2025
(22) 20.06.2022
(54) COMPOSITION FOR ADDITIVE MANUFACTURING COMPRISING A COMPOSITE HYDROGEL, PROCESS FOR OBTAINING SAID COMPOSITION, AND PROCESS OF ADDITIVE MANUFACTURING OF AN OBJECT USING SAID COMPOSITION
(73) Universidade de Aveiro
(72) CUNHA VILELA, CARLA ANDREIA
DA ROCHA FREIRE BARROS, CARMEN SOFIA
FERNANDES CARVALHO, JOÃO PEDRO
DOMINGUES SILVESTRE, ARMANDO JORGE
MARTINHO MARQUES DE OLIVEIRA, JOSÉ
(31) 2022118047
(32) 15.06.2022
(33) Portugal

(51) A61L 27/20
A61L 27/50
A61L 27/52
A61L 27/22
A61L 27/26
(11) EP4169539
(21) EP22197284.7
(47) 29.01.2025
(22) 26.06.2018
(54) SILK-HYALURONIC ACID BASED TISSUE FILLERS AND METHODS OF USING THE SAME
(73) Evolved by Nature, Inc.
(72) XU, Peng
JIN, Erlei
ALTMAN, Gregory H.
(31) 201862641095 P
201762525131 P
(32) 09.03.2018
26.06.2017
(33) United States of America
United States of America

(51) A61L 27/26
(11) EP3180042
(21) EP15831684.4
(47) 29.01.2025
(87) US2015045494
18.02.2016
(22) 17.08.2015
(54) COMPOSITE MATERIAL FOR TISSUE RESTORATION
(73) The Johns Hopkins University
Technology Ventures
(72) SACKS, Justin
BRANDACHER, Gerald
MARTIN, Russell
JIANG, Xuesong
MAO, Hai-quan
REDDY, Sashank

FENG, Kevin
LI, Xiaowei
(31) 201462038030 P
(32) 15.08.2014
(33) United States of America

(51) A61L 27/36
A61L 27/38
A61L 27/54
A61K 9/133
A61P 35/00
A61P 17/02
(11) EP4268892
(21) EP23198075.6
(47) 29.01.2025
(22) 02.03.2017
(54) MATRIX BOUND NANOVESICLES AND THEIR USE
(73) University of Pittsburgh- Of the Commonwealth System of Higher Education
(72) HULEIHEL, Luai
HUSSEY, George, S.
BADYLAK, Stephen Francis
NARANJO GUTIERREZ, Juan Diego
(31) 201662302626 P
(32) 02.03.2016
(33) United States of America

(51) A61M 1/00
(11) EP3727492
(21) EP18830655.9
(47) 29.01.2025
(87) US2018065936
27.06.2019
(22) 17.12.2018
(54) HEART RATE MEASUREMENT USING BLOOD PUMP IMPELLER LOCATION
(73) Boston Scientific Scimed, Inc.
(72) CASAS, Fernando
REYES, Carlos
WOLMAN, Justin
(31) 201762607478 P
(32) 19.12.2017
(33) United States of America

(51) A61M 1/00
H01Q 1/08
H01H 13/82
A61F 13/0246
(11) EP3519002
(21) EP17781295.5
(47) 29.01.2025
(87) US2017053557
05.04.2018
(22) 26.09.2017
(54) CONSTRUCTION AND PROTECTION OF COMPONENTS IN NEGATIVE PRESSURE WOUND THERAPY SYSTEMS
(73) Smith & Nephew, Inc
(72) HARTWELL, Edward Yerbury
GREGORY, William W.
QUINTANAR, Felix C.
(31) 201762468258 P
201662401728 P
(32) 07.03.2017
29.09.2016
(33) United States of America
United States of America

(51) A61M 1/14
F04B 43/073
F04B 23/08
(11) EP3824919
(21) EP20213906.9
(47) 29.01.2025
(22) 27.10.2017
(54) MEDICAL FLUID THERAPY MACHINE INCLUDING PNEUMATIC PUMP BOX AND ACCUMULATORS THEREFORE
(73) Baxter International Inc
Vantive Health GmbH
(72) BOYLAN,, Charles Wayne
(31) 201615336266
(32) 27.10.2016
(33) United States of America

(51) A61M 1/28
(11) EP3958923
(21) EP20723669.6
(47) 29.01.2025
(87) US2020027613
29.10.2020
(22) 10.04.2020
(54) DIALYSIS MACHINE TUBING PROTECTION
(73) Fresenius Medical Care Holdings, Inc.
(72) STEUBER, Jessica M.
LECLERC, Jonathan F.
TAMAYO-COFFEY, Maria T.
YUDS, David J.
BERGMAN, Eric D.
(31) 201916391576
(32) 23.04.2019
(33) United States of America

(51) A61M 1/36
(11) EP4137172
(21) EP22190460.0
(47) 29.01.2025
(22) 16.08.2022
(54) CONTROL OF FLUID FLOW DURING PRIMING OF A FLUID FLOW CIRCUIT
(73) Fenwal, Inc.
(72) KATZ, Steven R.
CRAMPTON, Robert
MAHER, Jeffrey R.
DELACEY, Ryan
CASE, Brian C.
PRENDERGAST, Jonathan W.
(31) 202163234276 P
(32) 18.08.2021
(33) United States of America

(51) A61M 1/36
A61M 1/34
(11) EP3932448
(21) EP19922287.8
(47) 29.01.2025
(87) JP2019049465
08.10.2020
(22) 17.12.2019
(54) BLOOD PURIFICATION DEVICE
(73) Nikkiso Co., Ltd.
(72) KAZINCZI, Ferenc
YOKOTA, Yuji
FURUHASHI, Tomohiro
MAKI, Hideto
(31) 2019069630
(32) 01.04.2019
(33) Japan

(51) A61M 5/142
A61M 5/168
A61B 5/00
A61M 5/172
A61K 31/05
A61P 23/00
G16H 20/17
G16H 40/63
G16H 50/30
(11) EP3452145
(21) EP17721974.8
(47) 29.01.2025
(87) EP2017059502
09.11.2017
(22) 21.04.2017
(54) CONTROL DEVICE FOR CONTROLLING THE ADMINISTRATION OF PROPOFOL TO A PATIENT
(73) Fresenius Vial SAS
(72) GUERRINI, Alexandre
COTTIN, Pauline
(31) PCT/EP2016/305507
(32) 02.05.2016
(33) World Intellectual Property Office (WIPO)

(51) A61M 5/145
(11) EP3920999
(21) EP19817342.9
(47) 29.01.2025
(87) EP2019085157
13.08.2020
(22) 13.12.2019
(54) INFUSION DEVICE FOR ADMINISTERING A MEDICAL FLUID TO A PATIENT
(73) Fresenius Vial SAS
(72) PAOLI, Mathieu
ARCHAT, Damien
TRAVERSAZ, Philippe
(31) 19305129
(32) 04.02.2019
(33) European Patent Office (EPO)

(51) A61M 5/178
A61M 5/19
A61M 5/28
A61M 5/32
A61B 5/15
A61B 5/153
A61B 5/154
A61M 5/315
A61P 9/00
(11) EP4154927
(21) EP22203311.0
(47) 29.01.2025
(22) 15.06.2017
(54) SYRINGE SYSTEMS FOR MULTI-STAGE FLUID DELIVERY
(73) TRUE CONCEPTS MEDICAL TECHNOLOGIES, INC
(72) Hopkins, Michael
(31) 201662350341 P
(32) 15.06.2016
(33) United States of America

(51) A61M 5/20
A61M 5/315
(11) EP3302638
(21) EP16727173.3
(47) 29.01.2025
(87) EP2016062449
08.12.2016

(22) 02.06.2016
(54) DRUG DELIVERY DEVICE
(73) Sanofi-Aventis Deutschland GmbH
(72) MOSEBACH, Carsten
KEMP, Thomas Mark
(31) 15170581
(32) 03.06.2015
(33) European Patent Office (EPO)

(51) A61M 5/24
A61M 5/28
A61M 5/315
(11) EP3071258
(21) EP14799431.3
(47) 29.01.2025
(87) EP2014074702
28.05.2015
(22) 17.11.2014
(54) DRUG DELIVERY DEVICE WITH END OF DOSE FEEDBACK
(73) Sanofi-Aventis Deutschland GmbH
(72) SCHNEIDER, Christiane
BLANCKE, Stefan
JUGL, Michael
TEUCHER, Axel
(31) 201361907473 P
14165746
(32) 22.11.2013
24.04.2014
(33) United States of America
European Patent Office (EPO)

(51) A61M 5/31
G01N 21/90
A61M 5/50
G01B 11/08
G01N 21/958
(11) EP3182101
(21) EP16203283.3
(47) 29.01.2025
(22) 09.12.2016
(54) SYSTEM FOR OPTICAL DETECTION OF THE FLANGE OF A SYRINGE
(73) Gerresheimer Bünde GmbH
(72) Hellmich, Matthias
Acker, Wolfram
(31) 102015121758
(32) 14.12.2015
(33) Germany

(51) A61M 5/315
G01D 5/245
(11) EP3554585
(21) EP17822884.7
(47) 29.01.2025
(87) US2017065251
21.06.2018
(22) 08.12.2017
(54) MEDICATION DELIVERY DEVICE WITH SENSING SYSTEM
(73) Eli Lilly and Company
(72) FOSTER, Clark Berg
RINGENBERGER, Kimberly Ann
BOONZAIER, James Angus
(31) 201662434684 P
(32) 15.12.2016
(33) United States of America

(51) A61M 5/42
A61B 5/15
(11) EP4331646
(21) EP23194416.6
(47) 29.01.2025
(22) 31.08.2023
(54) DEVICE FOR FIXING SKIN VEINS
(73) Reumschüssel, Jens-Arne
(72) Reumschüssel, Jens-Arne
(31) 102022122016
(32) 31.08.2022
(33) Germany

(51) A61M 11/00
A61M 15/00
A61M 15/08
B05B 11/02
(11) EP4291272
(21) EP22708993.5
(47) 29.01.2025
(87) FR2022050266
18.08.2022
(22) 14.02.2022
(54) DISPENSING HEAD FOR A DEVICE FOR DISPENSING A FLUID OR POWDER PRODUCT INTO THE NOSE
(73) APTAR France SAS
(72) NORRANT, Matthieu
GRAINE, Lila
(31) 2101439
(32) 15.02.2021
(33) France

(51) A61M 11/00
A61M 16/04
A61M 16/08
A61M 16/14
A61M 16/16
(11) EP4215232
(21) EP22216961.7
(47) 29.01.2025
(22) 28.12.2022
(54) A FLUID DELIVERY SYSTEM FOR DELIVERY OF AEROSOLIZED LIQUID TO A VENTILATED PATIENT
(73) Covidien LP
(72) Sanchez, Gabriel
Rachlin, Thomas M.
Shaver, Scott M.
Novkov, Donald J.
Dreher, Frank M.
Honeycutt, Alexander J.
Kaus, Stanley B.
Phillips, Matthew J.
Phillips, Karen Ann
(31) 202218065056
202263391543 P
202163294671 P
(32) 13.12.2022
22.07.2022
29.12.2021
(33) United States of America
United States of America
United States of America

(51) A61M 11/02
A61M 11/04
A61M 15/00
A61M 15/06
(11) EP4218866
(21) EP23164457.6
(47) 29.01.2025
(22) 19.06.2020
(54) AEROSOL DELIVERY DEVICE
(73) Imperial Tobacco Limited
(72) AUSTIN, Andrew
LORD, Chris
SAJTOS, Tamas
LOMAS, Pete
(31) 19181683
19181694
19181686
(32) 21.06.2019
21.06.2019
21.06.2019
(33) European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)

(51) A61M 16/00
A61M 16/06
A61M 16/08
(11) EP4223337
(21) EP21885310.9
(47) 29.01.2025
(87) CN2021127436
05.05.2022
(22) 29.10.2021
(54) NASAL PLUG FOR NASAL OXYGEN CATHETER, NASAL OXYGEN CATHETER AND VENTILATION THERAPY DEVICE
(73) BMC Medical Co., Ltd.
(72) ZHENG, Fang
ZHUANG, Zhi
CHEN, Yunjing
LIU, Jiuzhong
(31) 202022479479 U
(32) 30.10.2020
(33) China

(51) A61M 16/00
A61M 16/10
A61M 16/16
(11) EP4241811
(21) EP23158095.2
(47) 29.01.2025
(22) 27.05.2015
(54) REMOTE RESPIRATORY THERAPY DEVICE MANAGEMENT
(73) ResMed, Inc.
(72) DELANGRE, Peter
CUTCLIFFE, Graham Stephen
SOMAIYA, Chinmayee
BIRCHALL, Paul Frederick
CHURCHILL, Dawn Rosemary
ROBERTS, Christopher John
TRULL, Wendall Eric
TEMPLETON, Bradley Scott
TYLER, Matthew Scott
(31) 2014901999
(32) 27.05.2014
(33) Australia

(51) A61M 16/00
A61M 21/02
(11) EP4313224
(21) EP22711925.2
(47) 29.01.2025
(87) EP2022055390
06.10.2022
(22) 03.03.2022
(54) VENTILATION APPARATUS
(73) Koninklijke Philips N.V.
(72) DELLIMORE, Kiran, Hamilton, J.
PRIORI, Rita

SAINI, Privender, Kaur
GRASSI, Angela
TROXELL, David, Aaron
FONSECA, Pedro, Miguel, Ferreira dos Santos da
(31) 202163170202 P
(32) 02.04.2021
(33) United States of America

(51) A61M 16/04
(11) EP4197578
(21) EP22207159.9
(47) 29.01.2025
(22) 14.11.2022
(54) ENDOTRACHEAL TUBE
(73) Med-Europe European Medical Supplies S.r.l.
(72) BONALDI, Efrem
CHECCACCI CARBONI, Stefano
GENNARO, Paolo
(31) 202100031256
(32) 14.12.2021
(33) Italy

(51) A61M 16/04
(11) EP4223339
(21) EP23165160.5
(47) 29.01.2025
(22) 14.03.2014
(54) CATHETER MOUNT WITH SUCTION PORT
(73) Fisher & Paykel Healthcare Limited
(72) MARTIN, Madeleine Bess
MILLAR, Gavin Walsh
LYONS, Edwin Joseph
KEMPS, David Robert
(31) 201361785798 P
(32) 14.03.2013
(33) United States of America

(51) A61M 16/06
(11) EP4173666
(21) EP22202116.4
(47) 29.01.2025
(22) 16.12.2009
(54) RESPIRATORY MASK SEALING INTERFACE
(73) Fisher & Paykel Healthcare Limited
(72) OLSEN, Gregory James
STEPHENSON, Matthew Roger
MCAULEY, Alastair Edwin
(31) 138194 P
(32) 17.12.2008
(33) United States of America

(51) A61M 16/06
(11) EP4137186
(21) EP22190367.7
(47) 29.01.2025
(22) 15.08.2022
(54) PATIENT INTERFACE
(73) Wellell Inc.
(72) LIN, SHU-CHI
TSENG, YI-TING
CHIEN, CHIH-TSAN
(31) 202163233777 P
(32) 17.08.2021
(33) United States of America

(51) A61M 16/06
A61M 16/00
G06V 20/60
(11) EP3891659
(21) EP19892196.7
(47) 29.01.2025
(87) US2019065295
11.06.2020
(22) 09.12.2019
(54) INTELLIGENT SETUP AND RECOMMENDATION SYSTEM FOR SLEEP APNEA DEVICE
(73) ResMed Inc.
(72) NATHWANI, Rehana
KENNEDY, Colin Bradley
SODHI, Rajwant
(31) 201862777044 P
(32) 07.12.2018
(33) United States of America

(51) A61M 16/06
A61M 16/08
(11) EP4197579
(21) EP22203609.7
(47) 29.01.2025
(22) 21.12.2018
(54) CONDUIT HEADGEAR CONNECTOR FOR PATIENT INTERFACE
(73) ResMed Pty Ltd
(72) BALUCHAGI, Ravikumar
SANGADI, Nookarajesh Varma
GOLDSPINK, Lachlan Richard
EVES, Matthew
(31) 201762609909 P
(32) 22.12.2017
(33) United States of America

(51) A61M 16/06
A61M 16/08
A61M 16/16
A61M 16/20
A61M 16/00
(11) EP4076608
(21) EP19957007.8
(47) 29.01.2025
(87) IB2019061217
24.06.2021
(22) 20.12.2019
(54) PATIENT INTERFACE WITH FOAM CUSHION
(73) Resmed Asia Pte. Ltd.
(72) BATE, Andrew James
SEET, Lik Tze
LAW, Kam Man
YEW, Robin

(51) A61M 16/10
A61M 16/16
A61M 16/00
(11) EP4079362
(21) EP22177936.6
(47) 29.01.2025
(22) 19.08.2005
(54) APPARATUS FOR MEASURING PROPERTIES OF GASES SUPPLIED TO A PATIENT
(73) Fisher & Paykel Healthcare Limited
(72) CLARK, Andrew Baden
O'DONNELL, Kevin Peter
PAYTON, Matthew Jon
QUILL, Christopher Simon James
HAWKINS, Peter Geoffrey
(31) 53485304
(32) 20.08.2004
(33) New Zealand

(51) A61M 16/16
(11) EP4194042
(21) EP22216245.5
(47) 29.01.2025
(22) 16.04.2020
(54) THIN FILM MANUFACTURING
(73) ResMed Pty Ltd
(72) TSAI, Ernie Wei-Chih
CHAN, Andrew
KROL-MAZUR, Katarzyna Anna
TAN, Chia Ik
DENT, Michael James
WORKMAN, Jeremy William
MAURER, Dimitri Marco
VERMA, Hargopal
KABILAFKAS, Max William Andrew
MAIKIM, Jessie Cindy
FORMICA, Justin John
(31) 201962897558 P
201962835094 P
(32) 09.09.2019
17.04.2019
(33) United States of America
United States of America

(51) A61M 60/13
A61M 60/81
A61M 60/216
(11) EP4084856
(21) EP20842845.8
(47) 29.01.2025
(87) US2020066389
08.07.2021
(22) 21.12.2020
(54) BLOOD PUMP DISTAL OUTFLOW CAGE
(73) Abiomed, Inc.
(72) BERNAZANI, Michael, J.
(31) 201962955603 P
(32) 31.12.2019
(33) United States of America

(51) A61N 1/04
A61N 1/36
(11) EP4197586
(21) EP21216173.1
(47) 29.01.2025
(22) 20.12.2021
(54) PERSONALIZED AURICULAR STIMULATION ELECTRODE INTERFACE
(73) Hochschule Offenburg
Hahn-Schickard-Gesellschaft für angewandte Forschung e. V.
(72) SIKORA, Axel
KELLER, Steffen
HERRLICH, Simon

(51) A61N 1/04
A61N 1/36
A61N 1/40
(11) EP4277698
(21) EP22713745.2
(47) 29.01.2025
(87) IB2022052655
29.09.2022
(22) 23.03.2022
(54) APPARATUS FOR DETECTING AND RESPONDING TO CHANGES IN SUBJECTS

(73) Novocure GmbH
(72) WASSERMAN, Yoram
BOMZON, Zeev
PELES ZEEVI, Oren
SHAMIR, Reuven Ruby
MARCIANO, Tal
(31) 202217701470
202163196528 P
202163168059 P
202163164957 P
(32) 22.03.2022
03.06.2021
30.03.2021
23.03.2021
(33) United States of America
United States of America
United States of America
United States of America

(51) A61N 1/05
(11) EP4000681
(21) EP21305824.1
(47) 29.01.2025
(22) 16.06.2021
(54) ACTIVE FIXATION LEAD
(73) Sorin CRM SAS
(72) Ollivier, Jean-François
(31) 2011721
(32) 16.11.2020
(33) France

(51) A61N 1/05
A61N 1/36
A61B 18/14
A61B 18/12
A61B 8/00
A61B 90/00
A61N 7/02
A61N 7/00
A61B 18/00
(11) EP4233991
(21) EP23183916.8
(47) 29.01.2025
(22) 14.03.2014
(54) CONTROLLED NEUROMODULATION SYSTEMS
(73) Medtronic Ardian Luxembourg S.à.r.l.
(72) SHAH, Jignesh
(31) 201361801091 P
(32) 15.03.2013
(33) United States of America

(51) A61N 1/36
(11) EP4259272
(21) EP21836697.9
(47) 29.01.2025
(87) US2021062023
16.06.2022
(22) 06.12.2021
(54) PROGRAMMING RANK INDEX FOR ELECTRICAL STIMULATION AND RECORDING
(73) Medtronic, Inc.
(72) VAIDYANATHAN, Janardan
(31) 202017117955
(32) 10.12.2020
(33) United States of America

(51) A61N 1/36
A61N 1/372
(11) EP4183443
(21) EP22206983.3
(47) 29.01.2025
(22) 11.11.2022
(54) THERAPY PROGRAMMING BASED ON EVOKED COMPOUND ACTION POTENTIALS
(73) Medtronic, Inc.
(72) SIMONS, David
BORNHOFT, Reid K.
EDWARDS, Christopher
SCHMELING, Andrew L.
HAGEMAN, Kristin N.
MIRON, Rebecca A.
TANDON, Nikita
DINSMOOR, David A.
BINK, Hank
(31) 202218049971
202163280976 P
(32) 26.10.2022
18.11.2021
(33) United States of America
United States of America

(51) A61N 1/36
A61N 1/372
(11) EP4183444
(21) EP22206997.3
(47) 29.01.2025
(22) 11.11.2022
(54) THERAPY PROGRAMMING BASED ON EVOKED COMPOUND ACTION POTENTIALS
(73) Medtronic, Inc.
(72) MIRON, REBECCA A.
TANDON, NIKITA
SIMONS, DAVID
BORNHOFT, REID K.
EDWARDS, CHRISTOPHER
SCHMELING, ANDREW L.
(31) 202218049960
202163280967 P
(32) 26.10.2022
18.11.2021
(33) United States of America
United States of America

(51) A61N 1/362
A61N 1/365
A61B 5/00
A61N 1/37
A61N 1/372
A61B 5/283
A61B 5/349
A61B 5/35
(11) EP3908366
(21) EP19816764.5
(47) 29.01.2025
(87) EP2019084871
16.07.2020
(22) 12.12.2019
(54) IMPLANTABLE ASSEMBLY FOR STIMULATING A HUMAN OR ANIMAL HEART
(73) BIOTRONIK SE & Co. KG
(72) DOERR, Thomas
(31) 102019100610
19172209
(32) 11.01.2019
02.05.2019
(33) Germany
European Patent Office (EPO)

(51) A61N 1/362
A61N 1/368
A61N 1/375
(11) EP4074374
(21) EP22167686.9
(47) 29.01.2025
(22) 11.04.2022
(54) RATE SMOOTHING IN ATRIAL SYNCHRONOUS VENTRICULAR PACEMAKER
(73) Medtronic, Inc.
(72) GRINBERG, Yanina
SHELDON, Todd J.
SAIKIN, Aaron M.
ESCALANTE, Keelia M.
(31) 202217697795
202163173523 P
(32) 17.03.2022
12.04.2021
(33) United States of America
United States of America

(51) A61N 1/372
A61N 1/375
A61N 1/39
A61N 1/368
H04B 13/00
(11) EP4070853
(21) EP22155857.0
(47) 29.01.2025
(22) 09.02.2022
(54) SYSTEMS AND METHODS FOR REMOTE PROGRAMMING OF, AND OTHER FOLLOW-UP CAPABILITIES WITH, LEADLESS PACEMAKERS
(73) Pacesetter, Inc.
(72) PERSSON, Benjamin T
SADEGHI, Mostafa
SHAHANDEH, Reza
MOUCHAWAR, Gabriel
FISHLER, Matthew G
GURUNATHAN, Suresh
(31) 202217587456
202163243601 P
202117222242
(32) 28.01.2022
13.09.2021
05.04.2021
(33) United States of America
United States of America
United States of America

(51) A61N 1/378
H02J 50/80
H02J 7/00
A61B 5/00
A61M 60/178
A61M 60/216
A61M 60/875
H02J 50/10
H02J 50/90
(11) EP4090418
(21) EP20845251.6
(47) 29.01.2025
(87) US2020065499
22.07.2021
(22) 17.12.2020
(54) INTEGRITY MONITORING FOR A TRANSCUTANEOUS ENERGY SYSTEM

(73) Medtronic, Inc.
(72) PEICHEL, David J.
ROBERTS, Jonathan P.
SCHILLING, Eric A.
ARTMANN, Joel B.
REINERT, Michael A.
(31) 202017111590
202062962334 P
(32) 04.12.2020
17.01.2020
(33) United States of America
United States of America

(51) A61N 2/02
H01F 27/02
H01F 27/10
H01F 27/28
H01F 27/30
(11) EP4259276
(21) EP21820286.9
(47) 29.01.2025
(87) EP2021085004
16.06.2022
(22) 09.12.2021
(54) APPLICATOR FOR MAGNETIC THERAPY
(73) EL.EN. S.p.A.
(72) TAGLIAFERRI, Marco
BUSCEMI, Calogero
BENI, Samuele
MASOTTI, Leonardo
(31) 202000030524
(32) 11.12.2020
(33) Italy

(51) A61P 27/06
C07D 231/12
C07D 231/18
C07D 403/12
A61K 31/415
(11) EP3845276
(21) EP20213242.9
(47) 29.01.2025
(22) 10.12.2020
(54) BETA-AMINO ACID DERIVATIVE, KINASE INHIBITOR AND PHARMACEUTICAL COMPOSITION CONTAINING THE SAME, AND USE OF THE SAME
(73) Industrial Technology Research Institute
(72) Liu, Chih-Peng
Chen, Yi-Hsun
Tu, Chia-Mu
Fu, Chih-Wei
Hung, Chiu-Lien
(31) 201962955683 P
(32) 31.12.2019
(33) United States of America

(51) A61P 33/00
C07D 215/42
C07D 311/58
C07D 405/12
C07D 471/04
A61K 31/4709
A61K 31/4706
A61K 31/5377
A61K 31/4375
A61K 31/519
A61K 31/353
(11) EP3897842
(21) EP19832821.3
(47) 29.01.2025
(87) US2019066302
25.06.2020
(22) 13.12.2019
(54) BICYCLIC DERIVATIVES
(73) Elanco Tiergesundheit AG
(72) RAGEOT, Denise
PAUTRAT, Francois
TAHTAOUI, Chouaib
DUCRAY, Pierre
(31) 201862781132 P
(32) 18.12.2018
(33) United States of America

(51) A61P 43/00
A61K 39/00
(11) EP4262859
(21) EP21854946.7
(47) 29.01.2025
(87) US2021063641
23.06.2022
(22) 15.12.2021
(54) METHODS OF MANUFACTURING BIOLOGICAL THERAPIES
(73) Amgen Inc.
(72) NARHI, Linda Owers
RIEDER, Noel J.
ZHANG, Zhongqi
KLEEMANN, Gerd Richard
JOUBERT, Marisa K.
TOKUDA, Joshua M.
JOH, Nathan
ZHANG, Yunlong
(31) 202163242395 P
202063126274 P
(32) 09.09.2021
16.12.2020
(33) United States of America
United States of America

(51) A62B 17/00
(11) EP4292669
(21) EP23178607.0
(47) 29.01.2025
(22) 12.06.2023
(54) KIT FOR REMOVING A PROTECTIVE SUIT FROM HUMANS
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) SAUREL, Nicolas
(31) 2205750
(32) 14.06.2022
(33) France

(51) A62B 35/00
(11) EP3766548
(21) EP20186806.4
(47) 29.01.2025
(22) 20.07.2020
(54) A VEST AND A BELT WITH MULTIPLE ANCHOR POINTS
(73) CRIB GOGH LTD
(72) BILLINGSLEY, Ian Richard
HEAWORD, Steven Rhys
(31) 201910414
(32) 19.07.2019
(33) United Kingdom

(51) A62B 35/00
A62B 35/04
(11) EP3397355
(21) EP16819753.1
(47) 29.01.2025
(87) US2016064332
06.07.2017
(22) 01.12.2016
(54) FALL DETECTION ALERT/ALARM DEVICE AND METHOD
(73) Honeywell International Inc.
(72) HUSETH, Steve
THEISEN, Gina Marie
MCPHERSON, Steven James
PHAM, Hai
(31) 201562273853 P
(32) 31.12.2015
(33) United States of America

(51) A62B 35/00
A62B 35/04
(11) EP4234045
(21) EP23168613.0
(47) 29.01.2025
(22) 01.08.2018
(54) FALL INDICATOR FOR FALL PROTECTION SYSTEMS
(73) Honeywell International Inc.
(72) SULC, David
HROUZEK, Jan

(51) A62B 35/00
B64D 17/30
F03D 80/50
A62B 1/22
F03D 1/00
F03D 80/00
(11) EP4249081
(21) EP23161958.6
(47) 29.01.2025
(22) 15.03.2023
(54) DEVICE FOR RESCUING A PERSON FROM A WIND TURBINE, AND A WIND TURBINE ITSELF
(73) Paratec Fallschirmbau - Technik - Service Vertrieb GmbH
(72) ERTLER, Stefan
(31) 501703
(32) 24.03.2022
(33) Luxembourg

(51) A62C 2/06
A62C 3/16
A62C 8/06
(11) EP3799935
(21) EP20198874.8
(47) 29.01.2025
(22) 29.09.2020
(54) INTUMESCENT COVER FOR FIRE PROTECTION
(73) Soletanche Freyssinet
(72) RAILLARD, Vincent
(31) 1910968
(32) 03.10.2019
(33) France

(51) A62C 2/24
(11) EP4011458
(21) EP20212800.5
(47) 29.01.2025
(22) 09.12.2020
(54) THERMAL TRIGGER DEVICE FOR AUTOMATIC CLOSING OF A FIRE DAMPER BASED ON A TRIGGERING

SIGNAL OR A NON-TRIGGERING SIGNAL
(73) Siemens Schweiz AG
(72) Marder, Marco
Buehler, Lukas

(51) A62C 5/02
(11) EP4072689
(21) EP20821424.7
(47) 29.01.2025
(87) IB2020061830
17.06.2021
(22) 11.12.2020
(54) CAFS SYSTEM PROVIDED WITH AN IMPROVED AIR MANAGEMENT SYSTEM
(73) IVECO MAGIRUS AG
(72) HUMMERJOHANN, Tim
RIETSCHEL, Simon
FOEKEN, Peter
(31) 201900023679
(32) 11.12.2019
(33) Italy

(51) A62C 35/68
A62C 37/11
A62C 37/46
(11) EP4319890
(21) EP22711294.3
(47) 29.01.2025
(87) GB2022050658
13.10.2022
(22) 15.03.2022
(54) GAS-OPERATED VALVE
(73) Reacton Fire Suppression Ltd
(72) KOUTSOS, Theodoros
(31) 202107554
21386024
(32) 27.05.2021
08.04.2021
(33) United Kingdom
European Patent Office (EPO)

(51) A63B 21/012
A63B 21/02
(11) EP4183456
(21) EP22213432.2
(47) 29.01.2025
(22) 27.11.2019
(54) A FLYWHEEL ARRANGEMENT FOR A MULTIFUNCTIONAL EXERCISE APPARATUS
(73) Danish Aerospace Company A/S
(72) Hansen, Daniel Hasse Hagen
(31) PA201870787
PA201870786
PA201870785
PA201870784
(32) 28.11.2018
28.11.2018
28.11.2018
28.11.2018
(33) Denmark
Denmark
Denmark
Denmark

(51) A63C 19/06
E01F 9/688
E01F 9/70
(11) EP4176947
(21) EP22205997.4
(47) 29.01.2025
(22) 08.11.2022
(54) MARKER LIFTING SYSTEM AND MARKER THEREFOR
(73) Kaiser, Andreas
(72) Kaiser, Andreas
(31) 202021106082 U
(32) 08.11.2021
(33) Germany

(51) A63F 7/06
A63F 7/36
F16C 31/02
F16C 35/02
F16C 33/04
(11) EP4249092
(21) EP22163804.2
(47) 29.01.2025
(22) 23.03.2022
(54) BEARING UNIT
(73) Bangratz, René
(72) Schlaup, Eduard
Bangratz, René

(51) A63F 13/24
A63F 13/22
(11) EP4162993
(21) EP21202015.0
(47) 29.01.2025
(22) 11.10.2021
(54) A MODULAR CONTROLLER
(73) Byowave Ltd
(72) Blacoe, Brandon

(51) A63F 13/86
A63F 13/30
A63F 13/335
A63F 13/35
A63F 13/352
A63F 13/355
A63F 13/87
A63F 13/5258
A63F 13/61
(11) EP3758821
(21) EP19761523.0
(47) 29.01.2025
(87) US2019016694
06.09.2019
(22) 05.02.2019
(54) SCALED VR ENGAGEMENT AND VIEWS IN AN E-SPORTS EVENT
(73) Sony Interactive Entertainment LLC
(72) TROMBETTA, Steven
FAIRBAIRN, James
THIELBAR, Christopher
(31) 201815908704
(32) 28.02.2018
(33) United States of America

(51) A63G 21/22
F16D 63/00
B61H 9/02
(11) EP4219265
(21) EP23170604.5
(47) 29.01.2025
(22) 14.11.2018
(54) TROLLEY SYSTEM AND ASSOCIATED RAILS AND TRACKS
(73) Whoosh Hold LP
(72) LEWIS, Daniel Charles
THOMSON, Mark Harinui
PYE, Macaulay James
NEWMAN, Alexander Peter Hannibal
DIEHL, Andrew Karl
COCHETAS, Peter David
(31) 201862624045 P
201762586033 P
(32) 30.01.2018
14.11.2017
(33) United States of America
United States of America

(51) A63H 3/20
A63H 3/40
(11) EP4225458
(21) EP21785922.2
(47) 29.01.2025
(87) EP2021077690
14.04.2022
(22) 07.10.2021
(54) DIDACTIC EYE ACTIVATION SYSTEM FOR A DOLL
(73) MGA Zapf Creation GmbH
(72) GIERNOTH, Markus
(31) 202005695
(32) 07.10.2020
(33) Belgium

(51) A63H 11/00
A63H 5/00
(11) EP4056245
(21) EP20886041.1
(47) 29.01.2025
(87) JP2020039845
14.05.2021
(22) 23.10.2020
(54) AUTONOMOUS MOBILE BODY, INFORMATION PROCESSING METHOD, PROGRAM, AND INFORMATION PROCESSING DEVICE
(73) Sony Group Corporation
(72) NAGAHARA Junichi
FUJIMOTO Yoshihide
TAKAHASHI Kei
(31) 2019202083
(32) 07.11.2019
(33) Japan

(51) B01D 1/28
C02F 1/04
(11) EP4154957
(21) EP21199491.8
(47) 29.01.2025
(22) 28.09.2021
(54) USE OF A PROCESS SYSTEM COMPRISING A MECHANICAL VAPOR COMPRESSION (MVC/MVR) SUBSYSTEM AND A METHOD FOR OPERATING A PROCESS SYSTEM
(73) Aquafair AB
(72) CARLMAN, Fredrik
ÅHRSTRÖM, Bert-Olof

(51) B01D 15/20
B01D 15/38
B01J 49/60
(11) EP3041593
(21) EP14841863.5
(47) 29.01.2025
(87) US2014054313
12.03.2015
(22) 05.09.2014

(54) METHOD OF CLEANING A CHROMATOGRAPHY MATERIAL FOR ITS REUSE
(73) F. Hoffmann-La Roche AG
(72) MAHAJAN, Ekta
SO, Joanna
WERBER, Jay
KOTHARY, Kapil
(31) 201361874305 P
(32) 05.09.2013
(33) United States of America

(51) B01D 19/00
B01D 61/00
B01D 61/58
B01D 63/02
(11) EP3903899
(21) EP19901994.4
(47) 29.01.2025
(87) JP2019050650
02.07.2020
(22) 24.12.2019
(54) DEGASSING SYSTEM, METHOD FOR DEGASSING LIQUIDS AND DEGASSING-SYSTEM MANUFACTURING METHOD
(73) DIC Corporation
(72) SANO Kenji
OI Kazumi
YAMAMOTO Wataru
IGARI Katsuhiko
(31) 2018246967
(32) 28.12.2018
(33) Japan

(51) B01D 27/00
(11) EP4393563
(21) EP23165402.1
(47) 29.01.2025
(22) 30.03.2023
(54) FILTER HOLDER
(73) Caware Filtering Corporation
(72) MA, Wu-Yang
CHANG, Min-Hua
(31) 111150842
(32) 30.12.2022
(33) Taiwan, Chinese Taipei

(51) B01D 29/01
B01D 17/04
B01D 27/06
B01D 35/00
B01D 29/33
B01D 17/06
B01D 36/00
B01D 17/00
(11) EP3996830
(21) EP20857751.0
(47) 29.01.2025
(87) US2020047438
04.03.2021
(22) 21.08.2020
(54) ENHANCED FUEL WATER SEPARATION USING STRUCTURAL EMBOSSING
(73) Parker-Hannifin Corporation
(72) BOKKA, Sreevalli
TATE, Jason L.
(31) 201962891458 P
(32) 26.08.2019
(33) United States of America

(51) B01D 29/64
B01D 46/681
A47L 15/00
D06F 39/00
D06F 58/00
(11) EP4115966
(21) EP22181735.6
(47) 29.01.2025
(22) 29.06.2022
(54) FILTER SYSTEM AND METHOD FOR CLEANING A FILTER SURFACE
(73) BSH Hausgeräte GmbH
(72) Eglmeier, Hans
Bischof, Andreas
(31) 102021207119
(32) 07.07.2021
(33) Germany

(51) B01D 35/14
B01D 35/02
A61B 18/02
A61F 7/00
A61B 18/00
A61N 5/06
B05B 15/40
(11) EP4327911
(21) EP22816406.7
(47) 29.01.2025
(87) KR2022007611
08.12.2022
(22) 27.05.2022
(54) FILTER MODULE USED FOR COOLING SYSTEM AND COOLING DEVICE
(73) Ulsan National Institute of Science and Technology (UNIST)
Recensmedical, Inc.
(72) KIM, Gun-Ho
PARK, Boo Seong
LEE, Chulho
(31) 20210070379
(32) 31.05.2021
(33) Korea (Republic)

(51) B01D 45/12
B01D 46/24
B01D 50/00
F01M 13/04
(11) EP4240510
(21) EP21802436.2
(47) 29.01.2025
(87) IB2021060028
12.05.2022
(22) 29.10.2021
(54) BLOW-BY GAS FILTRATION ASSEMBLY WITH ANNULAR ALIGNMENT AND FIXING GROUP
(73) Ufi Filters s.p.a.
(72) GIRONDI, Giorgio
(31) 202000026194
(32) 03.11.2020
(33) Italy

(51) B01D 46/00
B01D 46/121
(11) EP4306197
(21) EP23184638.7
(47) 29.01.2025
(22) 11.07.2023
(54) FILTER WITH V-SHAPED FILTER MEDIA PACKS AND A FRAME OF FOUR ELEMENTS
(73) Carl Freudenberg KG
(72) Schumacher, Sascha
Tapper, Renate
Schroth, Thomas
Weber, Patrick
(31) 102022117650
(32) 14.07.2022
(33) Germany

(51) B01D 46/00
B01D 46/121
(11) EP4306198
(21) EP23184800.3
(47) 29.01.2025
(22) 11.07.2023
(54) FILTER WITH V-SHAPED MEDIA PACKETS AND PROTECTIVE GRID
(73) Carl Freudenberg KG
(72) Tapper, Renate
Schumacher, Sascha
Schroth, Thomas
Weber, Patrick
Fritz, Florian
(31) 102022117649
(32) 14.07.2022
(33) Germany

(51) B01D 46/00
B01D 46/121
(11) EP4306199
(21) EP23184827.6
(47) 29.01.2025
(22) 11.07.2023
(54) FILTER WITH V-SHAPED FILTER MEDIA PACKS AND FLOW-OPTIMISED SHAPING
(73) Carl Freudenberg KG
(72) Schumacher, Sascha
Schroth, Thomas
Weber, Patrick
Tapper, Renate
(31) 102022117648
(32) 14.07.2022
(33) Germany

(51) B01D 46/00
B01D 46/24
B01D 46/46
B01D 46/44
F02M 35/08
(11) EP4192599
(21) EP21745440.4
(47) 29.01.2025
(87) IB2021056508
10.02.2022
(22) 19.07.2021
(54) SELF-CLEANING AIR FILTER SYSTEM
(73) AGCO International GmbH
(72) HAMMERLE, Stefan
REISCH, Andreas
GAST, Peter
CAPELLE, Thorsten
LEISTLE, Hans
KLEINHENZ, Andreas
(31) 202012138
(32) 05.08.2020
(33) United Kingdom

(51) B01D 46/00
B01D 46/24
B01D 46/64
(11) EP4279165

(21) EP23171808.1
(47) 29.01.2025
(22) 05.05.2023
(54) MULTI-STAGE COALESCING FILTER
(73) Walker Filtration Ltd
(72) MARSHALL, Philip
(31) 202207194
(32) 17.05.2022
(33) United Kingdom

(51) B01D 53/02
B01D 53/14
C10G 25/00
C10G 31/09
C10G 45/02
C10G 65/12
C10G 67/06
C10G 69/02
C11B 13/00
C11C 3/00
(11) EP4374949
(21) EP23211686.3
(47) 29.01.2025
(22) 23.11.2023
(54) COUPLING PROCESS FOR PRODUCING BIODIESEL FROM WASTE FOG
(73) Fuzhou University
(72) CAO, Yanning
CAI, Zhenping
HUANG, Kuan
MA, Yongde
JIANG, Lilong
(31) 202211488975
(32) 25.11.2022
(33) China

(51) B01D 53/14
C01B 3/52
C10K 1/00
B01D 53/26
(11) EP4245402
(21) EP22162889.4
(47) 29.01.2025
(22) 18.03.2022
(54) METHOD AND SYSTEM FOR REMOVING CARBON DIOXIDE AND WATER FROM SYNTHESIS GAS
(73) L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE
(72) Linicus, Matthias
Schmidt, Sophia

(51) B01D 53/34
B01D 53/86
C07C 51/31
C12P 7/44
(11) EP4277728
(21) EP22700017.1
(47) 29.01.2025
(87) EP2022050139
21.07.2022
(22) 05.01.2022
(54) PROCESS FOR WORKING-UP A NITROUS OXIDE COMPRISING OFF-GAS STREAM
(73) BASF SE
(72) LORENZ, Michael
REBLE, Marcus
WATERS, Gerrit
WEICKGENANNT, Andreas
GMEINER, Wolfgang
FRIEDRICH, Holger
WÖLFERT, Andreas
(31) 21151410
(32) 13.01.2021
(33) European Patent Office (EPO)

(51) B01D 53/94
B01D 53/96
B01J 23/40
B01J 23/63
B01J 23/96
B01J 29/70
B01J 37/02
F02D 41/02
F01N 3/10
(11) EP3673978
(21) EP20156727.8
(47) 29.01.2025
(22) 21.12.2011
(54) METHOD FOR REGENERATING AN OXIDATION CATALYST FOR A LEAN BURN INTERNAL COMBUSTION ENGINE
(73) Johnson Matthey Public Limited Company
(72) CHIFFEY, Andrew Francis
FEUERSTEIN, Marie
SWALLOW, Daniel
PHILLIPS, Paul Richard
STREHLAU, Wolfgang
WYLIE, James
BERGEAL, David
(31) 201021887
201061425464 P
(32) 23.12.2010
21.12.2010
(33) United Kingdom
United States of America

(51) B01D 63/02
B01D 53/26
(11) EP4041439
(21) EP20812449.5
(47) 29.01.2025
(87) SK2020050018
15.04.2021
(22) 08.10.2020
(54) A MEMBRANE GAS SEPARATOR WITH A BUILT-IN VALVE AND THE METHOD OF ITS OPENING AND CLOSING
(73) Ekom Spol. S R.O.
(72) MIKSOVSKY, Jaromir
(31) PP1092019
(32) 10.10.2019
(33) Slovakia

(51) B01D 67/00
B81C 1/00
C12Q 1/6869
G01N 33/487
(11) EP3894056
(21) EP19827651.1
(47) 29.01.2025
(87) EP2019084581
18.06.2020
(22) 11.12.2019
(54) SYSTEMS AND METHODS FOR SELF-LIMITING PROTEIN PORE INSERTION IN A MEMBRANE
(73) F. Hoffmann-La Roche AG
(72) YANG, Charlotte
BARRALL, Geoffrey
KOMADINA, Jason
HARADA, Takeshi
CARMAN, George, John
MANEY Jr., J. William
(31) 201862777976 P
(32) 11.12.2018
(33) United States of America

(51) B01F 23/23
B01F 23/231
B01F 23/2373
C02F 1/74
A01K 63/04
B06B 1/06
(11) EP4108322
(21) EP21818037.0
(47) 29.01.2025
(87) JP2021006590
09.12.2021
(22) 22.02.2021
(54) BUBBLE GENERATION DEVICE AND BUBBLE GENERATION SYSTEM
(73) Murata Manufacturing Co., Ltd.
(72) HASHIMOTO, Junichi
SHIMIZU, Mie
FUJIMOTO, Katsumi
(31) 2020097058
(32) 03.06.2020
(33) Japan

(51) B01F 23/232
B01F 23/2375
B01F 25/4314
B01F 25/431
(11) EP4376992
(21) EP23772549.4
(47) 29.01.2025
(87) FI2023050518
11.04.2024
(22) 12.09.2023
(54) APPARATUS AND SYSTEM FOR CATALYZING NANOBUBBLES IN WATER
(73) EOD Oy
(72) The designation of the inventor has not yet been filed
(31) 20225902
(32) 07.10.2022
(33) Finland

(51) B01F 23/41
B01F 27/81
B01F 27/84
B01F 27/40
B01F 27/921
(11) EP3957391
(21) EP19925214.9
(47) 29.01.2025
(87) JP2019016233
22.10.2020
(22) 15.04.2019
(54) STIRRER
(73) M. Technique Co., Ltd.
(72) ENOMURA, Masakazu

(51) B01F 23/53
B01F 23/50
B01F 23/70
B01F 25/52

B01F 25/53
B01F 25/64
B01F 35/71
H01M 4/139
H01M 10/0562
(11) EP3705175
(21) EP18874017.9
(47) 29.01.2025
(87) JP2018032580
09.05.2019
(22) 03.09.2018
(54) SLURRY MANUFACTURING DEVICE AND OPERATING METHOD FOR SLURRY MANUFACTURING DEVICE
(73) Nihon Spindle Manufacturing Co., Ltd.
(72) ASAMI Keiichi
OONISHI Tatsuaki
ONISHI Keiichiro
(31) 2017209325
(32) 30.10.2017
(33) Japan

(51) B01F 29/10
(11) EP4031273
(21) EP20866849.1
(47) 29.01.2025
(87) US2020051830
25.03.2021
(22) 21.09.2020
(54) ROTATION MIXER WITH IMPROVED BELT DRIVE
(73) Flacktek, Inc.
(72) GULDEN, Maxiliaan
FLACKETT, Dale R.
GROSS, Matthew L.
(31) 201962902860 P
(32) 19.09.2019
(33) United States of America

(51) B01J 8/00
B01J 8/02
B01J 8/04
(11) EP3542894
(21) EP18163386.8
(47) 29.01.2025
(22) 22.03.2018
(54) PARTICLE LOADING METHOD AND APPARATUS FOR A RADIAL FLOW VESSEL
(73) AIR PRODUCTS AND CHEMICALS, INC.
(72) TENTARELLI, Stephen Clyde
CHALK, Clive
GIBBON, Stephen John
MALIK, Nasim Ul Hassan
WEIST, Edward Landis, Jr.

(51) B01J 19/00
B01J 19/18
C12M 1/00
C12M 1/12
C12N 1/00
(11) EP4003585
(21) EP20750183.4
(47) 29.01.2025
(87) EP2020070166
28.01.2021
(22) 16.07.2020
(54) BIOREACTORS FOR GROWING MICRO-ORGANISMS
(73) Solar Foods Oyj
(72) VAINIKKA, Pasi
PITKÄNEN, Juha-Pekka
(31) 20195648
(32) 22.07.2019
(33) Finland

(51) B01J 19/00
G11C 13/00
(11) EP4286041
(21) EP22176394.9
(47) 29.01.2025
(22) 31.05.2022
(54) A MOLECULAR SYNTHESIS ARRAY
(73) Imec VZW
Katholieke Universiteit Leuven KU
Leuven Research & Development
(72) HOELZ, Kathrin
HENRY, Olivier
LOCKHART DE LA ROSA, Cesar Javier
WILLEMS, Kherim

(51) B01J 31/34
B01J 31/22
(11) EP4121206
(21) EP21714783.4
(47) 29.01.2025
(87) US2021021688
23.09.2021
(22) 10.03.2021
(54) IMPROVED RING OPENING METATHESIS CATALYST SYSTEMS FOR CYCLIC OLEFIN POLYMERIZATION
(73) ExxonMobil Chemical Patents Inc.
(72) ZABULA, Alexander, V.
LUO, Lubin
CANICH, Jo, Ann M.
GALUSKA, Alan, A.
HALBACH, Robert, L.
LOPEZ-BARRON, Carlos, R.
(31) 202062992002 P
(32) 19.03.2020
(33) United States of America

(51) B01J 35/64
B01J 35/66
B01J 35/69
(11) EP3556465
(21) EP17880629.5
(47) 29.01.2025
(87) JP2017044753
21.06.2018
(22) 13.12.2017
(54) CATALYST AND METHOD FOR REMOVING NOx FROM COMBUSTION EXHAUST GAS
(73) Mitsubishi Heavy Industries, Ltd.
(72) NOCHI, Katsumi
MASUDA, Tomotsugu
HIGASHINO, Koji
(31) 2016243167
(32) 15.12.2016
(33) Japan

(51) B01L 3/00
(11) EP3862088
(21) EP20211621.6
(47) 29.01.2025
(22) 27.10.2016
(54) METHOD OF MANUFACTURING MICROFLUIDIC ELECTROWETTING DEVICE HAVING A COVALENTLY BOUND HYDROPHOBIC SURFACE
(73) Bruker Cellular Analysis, Inc.
(72) MCEWEN, Jason, M.
PEI, Shao, Ning
LOWE, Randall, D., Jr.
MASTROIANNI, Alexander, J.
VALLEY, Justin, K
GONG, Jian
(31) 201662410238 P
201662342131 P
201615135707
201562247725 P
201562246605 P
(32) 19.10.2016
26.05.2016
22.04.2016
28.10.2015
27.10.2015
(33) United States of America
United States of America
United States of America
United States of America
United States of America

(51) B01L 3/00
A01N 1/00
G01K 1/02
B01L 7/00
B01L 9/00
F25D 3/10
A01N 1/02
B01L 7/04
G01N 35/00
F25D 25/00
(11) EP3478413
(21) EP17818757.1
(47) 29.01.2025
(87) AU2017050683
04.01.2018
(22) 30.06.2017
(54) MONITORING APPARATUS FOR TEMPERATURE-CONTROLLED SAMPLE COLLECTION AND TRANSPORT
(73) Bluechiip Ltd
(72) JOHNSTON, Ian
MCLELLAN, Andrew
TURNER, Scott
(31) 2016902600
(32) 01.07.2016
(33) Australia

(51) B01L 3/00
C12M 1/00
G01N 1/40
B01D 39/00
(11) EP3154694
(21) EP15733576.1
(47) 29.01.2025
(87) US2015035584
17.12.2015
(22) 12.06.2015
(54) PRODUCTS AND METHODS TO ISOLATE MITOCHONDRIA
(73) Children's Medical Center Corporation
Beth Israel Deaconess Medical Center, Inc.
(72) PACAK, Christina A.
LEVITSKY, Sidney

MCCULLY, James D.
COWAN, Douglas B.
(31) 201462012045 P
(32) 13.06.2014
(33) United States of America

(51) B01L 3/00
C12M 1/00
G01N 35/00
(11) EP3703860
(21) EP18836602.5
(47) 29.01.2025
(87) GB2018000144
16.05.2019
(22) 12.11.2018
(54) THIN WALLED MICROPLATE
(73) 4titude Ltd
(72) DAY, Paul Francis
(31) 201718615
(32) 10.11.2017
(33) United Kingdom

(51) B01L 3/02
B01L 3/00
G01N 35/10
G01N 35/08
B01F 23/00
(11) EP3774005
(21) EP19782031.9
(47) 29.01.2025
(87) US2019025244
10.10.2019
(22) 01.04.2019
(54) SYSTEMS AND METHODS FOR SERIAL FLOW EMULSION PROCESSES
(73) Dropworks, Inc.
(72) BARICH, Michael
PERKINS, Christopher Michael
KELLEY, Donna
HOLUB, Kristopher
KAO, Pin
DUNN, Matthew Ryan
LARSEN, Andrew Carl
(31) 201862651619 P
(32) 02.04.2018
(33) United States of America

(51) B02C 13/09
B02C 13/286
B02C 23/02
(11) EP4347131
(21) EP22734064.3
(47) 29.01.2025
(87) IT2022050148
01.12.2022
(22) 27.05.2022
(54) DEVICE AND METHOD FOR INTRODUCING INCOHERENT MATERIAL INTO A MACHINE
(73) RAF - RICAMBI ATTREZZATURE PER LA FRANTUMAZIONE S.P.A.
(72) PONTELLI, Eddy
ANDREUSSI, Olivia
VENEROSO, Enrico
ANDREUSSI, Guido
(31) 202100013820
(32) 27.05.2021
(33) Italy

(51) B02C 23/02
(11) EP4205856
(21) EP22214818.1
(47) 29.01.2025
(22) 20.12.2022
(54) PRODUCT TRANSFER SYSTEM
(73) Frewitt fabrique de machines S.A.
(72) VIRDIS, Antoine
RHEME, Christian
(31) 0707742021
(32) 22.12.2021
(33) Switzerland

(51) B03C 3/12
B03C 3/41
B03C 3/66
(11) EP4230298
(21) EP22182008.7
(47) 29.01.2025
(22) 29.06.2022
(54) CABIN AIR FILTER WITH POLARISATION
(73) Hengst SE
(72) Rölver, Martin
Borchard, Andreas
Robert, Stefan
(31) 22157505
(32) 18.02.2022
(33) European Patent Office (EPO)

(51) B03C 3/86
B03C 3/47
B03C 3/08
F16B 45/00
F16B 47/00
B05B 12/12
B05B 12/08
(11) EP4058198
(21) EP21770805.6
(47) 29.01.2025
(87) KR2021002986
23.09.2021
(22) 10.03.2021
(54) ELECTROSTATIC DUST COLLECTING APPARATUS AND METHOD OF MANUFACTURING THE SAME
(73) Samsung Electronics Co., Ltd.
(72) SHIN, Joonoh
GIL, Hyewon
KOCHIYAMA, Yasuhiko
SHIN, Kyuho
YUN, Soyoung
NOH, Hyongsoo
(31) 20200064817
20200033047
(32) 29.05.2020
18.03.2020
(33) Korea (Republic)
Korea (Republic)

(51) B04B 1/08
B04B 7/14
(11) EP3501659
(21) EP18212706.8
(47) 29.01.2025
(22) 14.12.2018
(54) SEPARATING MILK
(73) Tetra Laval Holdings & Finance S.A.
(72) Månsson, Rolf
(31) 17208513
(32) 19.12.2017
(33) European Patent Office (EPO)

(51) B04B 7/02
B04B 7/08
(11) EP4234091
(21) EP22159129.0
(47) 29.01.2025
(22) 28.02.2022
(54) LOCKING MECHANISM FOR A LID OF A ROTOR OF A CENTRIFUGE AND CENTRIFUGE ROTOR
(73) Thermo Electron LED GmbH
(72) Naumann, Johann

(51) B04B 15/02
B04B 7/02
B04B 13/00
(11) EP4008439
(21) EP22151831.9
(47) 29.01.2025
(22) 13.09.2017
(54) THERMAL REGULATION OF ROTORS DURING CENTRIFUGATION
(73) Beckman Coulter, Inc.
(72) VON SEGGERN, Eric
SCHORSCH, Joe
RAMIN, Thomas
HUNTING, Brad
(31) 201662395261 P
(32) 15.09.2016
(33) United States of America

(51) B05B 1/00
(11) EP3900839
(21) EP21170325.1
(47) 29.01.2025
(22) 23.04.2021
(54) SYSTEM AND METHOD FOR SPRAYING HOT-MELT ADHESIVE ONTO GLUED SURFACES AND HOT-MELT ADHESIVE COMPOSITION
(73) ARCIN Spolka z ograniczona odpowiedzialnoscia
(72) Popow, Slawomir
(31) 43367420
43367320
43367220
(32) 24.04.2020
24.04.2020
24.04.2020
(33) Poland
Poland
Poland

(51) B05B 11/00
B05B 11/10
(11) EP4272874
(21) EP23164609.2
(47) 29.01.2025
(22) 28.03.2023
(54) A FLUID SUBSTANCE DISPENSING DEVICE
(73) Lumson S.p.A.
(72) MORETTI, Matteo
(31) 202200006758
(32) 06.04.2022
(33) Italy

(51) B05B 13/04
B41J 3/407
B05B 15/68
B41J 25/316
B64F 5/10
B41J 25/00
F16H 19/04

(11) EP4098372
(21) EP22176248.7
(47) 29.01.2025
(22) 30.05.2022
(54) SYSTEM AND METHOD FOR ACTUATING A TREATMENT DEVICE
(73) The Boeing Company
(72) Miller, John Eric
Arthur, Shane Edward
(31) 202163202243 P
(32) 02.06.2021
(33) United States of America

(51) B05B 15/00
B05B 1/08
B05B 1/18
B05B 3/04
B05B 15/522
(11) EP3628409
(21) EP18795145.4
(47) 29.01.2025
(87) CN2018085302
08.11.2018
(22) 02.05.2018
(54) WATER OUTFLOW DEVICE CAPABLE OF SELF-CLEANING AND WATER OUTFLOW DEVICE CAPABLE OF VARYING WATER FLOW
(73) Xiamen Solex High-Tech Industries Co., Ltd.
(72) CHEN, Wenxing
FAN, Qihua
CHEN, Donghai
ZHANG, Mingfu
(31) 201720480295 U
201710303792
(32) 03.05.2017
03.05.2017
(33) China
China

(51) B05B 15/50
B05B 3/10
B05B 13/04
(11) EP4028176
(21) EP19768756.9
(47) 29.01.2025
(87) EP2019074017
18.03.2021
(22) 10.09.2019
(54) METHODS OF DETERMINING CLOGGING AND CLOGGING CHARACTERISTICS OF COATING MEDIUM APPARATUS, COATING MEDIUM APPARATUS, CALIBRATION SYSTEM AND INDUSTRIAL ROBOT
(73) ABB Schweiz AG
(72) FINNESTAD, Yngve
MOSSIGE, Morten
GUNASELVAM KASTHURI THILAGAM, Aravindhan
SKAAR, Andreas
LANDSNES, Øyvind

(51) B05C 1/02
B05C 1/08
B05C 9/12
(11) EP3725422
(21) EP20168066.7
(47) 29.01.2025
(22) 03.04.2020
(54) DEVICE FOR LACQUER TRANSFER
(73) Airbus Operations GmbH
Airbus (S.A.S.)
(72) Schepp, Christian
Kress, Daniel
Zahlen, Pierre
Kümmel, Waldemar
(31) 102019109790
(32) 12.04.2019
(33) Germany

(51) B05D 1/26
H01M 4/04
B05C 11/10
B05C 5/02
(11) EP3698888
(21) EP20169387.6
(47) 29.01.2025
(22) 04.06.2012
(54) METHOD OF APPLYING A COATING TO A WEB
(73) Durr Systems, Inc.
(72) Glenn, George
Anderson, Kim A.
Maki, Eric
(31) 201161493046 P
(32) 03.06.2011
(33) United States of America

(51) B05D 5/06
B05D 3/00
B05D 3/06
(11) EP3911450
(21) EP19827767.5
(47) 29.01.2025
(87) EP2019087072
23.07.2020
(22) 27.12.2019
(54) PROCESS FOR PRODUCING OPTICAL EFFECT LAYERS
(73) Sicpa Holding SA
(72) SCHMID, Mathieu
DESPLAND, Claude-Alain
MUELLER, Edgar
LOGINOV, Evgeny
(31) 19151899
(32) 15.01.2019
(33) European Patent Office (EPO)

(51) B06B 1/02
B06B 3/02
G08B 3/00
G10K 7/00
G10K 11/00
H03F 3/183
H03F 3/21
H03F 1/02
H03G 3/00
B60Q 5/00
G10K 9/12
(11) EP4140602
(21) EP22192027.5
(47) 29.01.2025
(22) 24.08.2022
(54) SPECIAL SIGNAL SYSTEM
(73) Haberl Electronic GmbH & Co. KG
(72) Dicklberger, Richard
Haberl, Christian
(31) 202021104667 U
(32) 30.08.2021
(33) Germany

(51) B06B 1/06
(11) EP4173729
(21) EP22203207.0
(47) 29.01.2025
(22) 24.10.2022
(54) MICRO-ELECTRO-MECHANICAL DEVICE FOR TRANSDUCING HIGH-FREQUENCY ACOUSTIC WAVES IN A PROPAGATION MEDIUM AND MANUFACTURING PROCESS THEREOF
(73) STMicroelectronics S.r.l.
(72) GIUSTI, Domenico
PRELINI, Carlo Luigi
QUAGLIA, Fabio
(31) 202100027425
(32) 26.10.2021
(33) Italy

(51) B07B 1/06
B07B 13/04
G01G 13/02
(11) EP4021651
(21) EP20728137.9
(47) 29.01.2025
(87) GB2020051156
04.03.2021
(22) 12.05.2020
(54) SLACK SEPARATION SYSTEM AND METHOD
(73) Ishida Europe Limited
(72) YOUNG, Kevin
(31) 201912242
(32) 27.08.2019
(33) United Kingdom

(51) B07B 1/12
D21D 5/16
(11) EP3790669
(21) EP19737660.1
(47) 29.01.2025
(87) EP2019000199
09.01.2020
(22) 01.07.2019
(54) SIEVE DEVICE
(73) Andritz Fiedler Gmbh
(72) REINSTEIN, Michael
MICKELAT, Thomas
LEHMANN, Jürgen
(31) 102018005307
(32) 04.07.2018
(33) Germany

(51) B07B 1/14
B07B 15/00
(11) EP4252925
(21) EP23165247.0
(47) 29.01.2025
(22) 29.03.2023
(54) PLANT FOR SEPARATING SOLID MATERIALS INTO MULTIPLE FRACTIONS AND PROCESS FOR SEPARATING SOLID MATERIALS INTO MULTIPLE FRACTIONS BY MEANS OF SAID PLANT
(73) Ecostargreen S.r.l.
(72) CAPPOZZO, Domenico
(31) 202200006128
(32) 29.03.2022
(33) Italy

(51) B07B 1/22

B07B 1/24
B07B 13/16
(11) EP4251337
(21) EP21824667.6
(47) 29.01.2025
(87) IB2021060980
02.06.2022
(22) 25.11.2021
(54) APPARATUS FOR THE SELECTION OF MATERIALS.
(73) White Black Slag Technology S.R.L.
(72) PIZZATO, Edoardo
CARLESSO, Franco
(31) 202000028850
(32) 27.11.2020
(33) Italy

(51) B07C 5/18
A22C 17/00
(11) EP3999223
(21) EP20736372.2
(47) 29.01.2025
(87) EP2020069384
21.01.2021
(22) 09.07.2020
(54) A METHOD FOR TRIM BLENDING
(73) CABINPLANT INTERNATIONAL A/S
(72) INGEMANN HANSEN, Henning
(31) 19186314
(32) 15.07.2019
(33) European Patent Office (EPO)

(51) B07C 5/342
G01B 11/00
G01B 11/06
(11) EP4178732
(21) EP21739718.1
(47) 29.01.2025
(87) EP2021069121
13.01.2022
(22) 09.07.2021
(54) VORRICHTUNG UND VERFAHREN ZUR INSPEKTION VON BEWEGTEN OBJEKTEN UND MASCHINE MIT EINER SOLCHEN VORRICHTUNG
(73) Pellenc Selective Technologies
(72) BOURELY, Antoine
GROTUS, Nicolas
(31) 2007346
(32) 10.07.2020
(33) France

(51) B08B 1/00
(11) EP4252926
(21) EP23157874.1
(47) 29.01.2025
(22) 21.02.2023
(54) JOINT FOR COUPLING A FIRST OBJECT AND A SECOND OBJECT TO EACH OTHER
(73) CUSTOMARE PRODUCTION OY
(72) LAITINEN, Kimmo

(51) B08B 3/02
(11) EP3733315
(21) EP20171880.6
(47) 29.01.2025
(22) 28.04.2020
(54) SYSTEMS AND METHODS FOR CLEANING PRESSURE POT COVER ASSEMBLY
(73) RTX Corporation
(72) RUGLIO, Anthony G
WRIGHT, Christopher
REYNOLDS, George H Jr
(31) 201916403068
(32) 03.05.2019
(33) United States of America

(51) B09B 3/00
A24C 5/36
A24F 47/00
B09B 5/00
C08J 11/08
C08L 1/12
(11) EP3930933
(21) EP20706367.8
(47) 29.01.2025
(87) IB2020051324
03.09.2020
(22) 18.02.2020
(54) METHOD AND PLANT FOR OBTAINING THERMOPLASTIC RAW MATERIAL FROM CIGARETTE FILTERS, METHOD TO MANUFACTURE AN OBJECT FROM THE OBTAINED RAW MATERIAL AND TO RECYCLE CIGARETTE BUTTS.
(73) Fimognari, Marco
(72) Fimognari, Marco
(31) 201900002915
(32) 28.02.2019
(33) Italy

(51) B21B 1/46
B21B 13/22
(11) EP4297918
(21) EP22708862.2
(47) 29.01.2025
(87) EP2022053671
01.09.2022
(22) 15.02.2022
(54) COMPOSITE CASTING AND ROLLING SYSTEM AND METHOD FOR PRODUCING HOT STRIP HAVING A FINAL THICKNESS OF LESS THAN 1.2 MM ON THE COMPOSITE CASTING AND ROLLING SYSTEM
(73) Primetals Technologies Austria GmbH
(72) FÜRST, Heinz
SEILINGER, Alois
LENGAUER, Thomas
LINZER, Bernd
WATZINGER, Irene
PREULER, Lukas
(31) 21159381
(32) 25.02.2021
(33) European Patent Office (EPO)

(51) B21B 27/02
(11) EP4056293
(21) EP21172611.2
(47) 29.01.2025
(22) 06.05.2021
(54) METHOD AND PLANT FOR PRODUCING FLAT ROLLED PRODUCTS
(73) DANIELI & C. OFFICINE MECCANICHE S.P.A.
(72) Bulfone, Matteo Remy
Bobig, Paolo
Benedetti, Gianpietro
(31) 202100005663
(32) 10.03.2021
(33) Italy

(51) B21C 23/00
B21C 23/08
B21C 29/00
(11) EP4140609
(21) EP22186181.8
(47) 29.01.2025
(22) 21.07.2022
(54) EXTRUSION METHOD AND ROTARY EXTRUDER
(73) KME Mansfeld GmbH
(72) Busch, Dr. Hendrik
Schwedler, Dr. Olaf
(31) 102021120427
(32) 05.08.2021
(33) Germany

(51) B21C 23/18
B21C 23/20
B21D 51/24
B21D 51/26
(11) EP3575007
(21) EP19175666.7
(47) 29.01.2025
(22) 21.05.2019
(54) METHOD FOR PRODUCING AN AEROSOL CAN MAIN PART, METHOD FOR PRODUCING AN AEROSOL CAN MAIN PART, DEVICE FOR PRODUCING AN AEROSOL CAN MAIN PART AND AEROSOL CAN MAIN PART
(73) Tubex Packaging GmbH
(72) Stumpp, Sebastian
Wiest, Dietmar
(31) 102018208319
(32) 25.05.2018
(33) Germany

(51) B21C 47/06
B21C 47/26
B21B 1/40
B65H 18/26
(11) EP3590619
(21) EP18181326.2
(47) 29.01.2025
(22) 03.07.2018
(54) METHOD AND DEVICE FOR WINDING A METAL STRIP AND USE OF A CONTACT ROLLER
(73) Speira GmbH
(72) Draese, Stephan
Seiferth, Oliver
Kemper, Bernd
Schmitz, Volker

(51) B21C 47/26
B21F 11/00
B21C 51/00
(11) EP4275807
(21) EP22173287.8
(47) 29.01.2025
(22) 13.05.2022
(54) AN AUTOMATIC TRIMMING APPARATUS FOR WIRE COILS
(73) Yeminy Inc.
(72) NYLANDER, Jens

(51) B21D 5/00
B21D 5/02
B25J 5/02
B25J 18/00

B25J 15/04
B25J 9/04
B25J 9/00
B21D 43/10
(11) EP4267348
(21) EP21843870.3
(47) 29.01.2025
(87) AT2021060481
30.06.2022
(22) 21.12.2021
(54) BENDING INSTALLATION AND MANIPULATOR WITH ROTATABLE GRIPPER ARRANGEMENT
(73) TRUMPF Maschinen Austria GmbH & Co. KG.
(72) EDLBAUER, Richard
KEPLINGER, Walter
HAUSMANN, Florian
FREUDENTHALER, Klemens
THEIS, Helmut
STEININGER, Verena
HÖRL, Matthias
MAIER, Florian
GUGLER, Gerhard
SCHERNHAMMER, Michael
AUSTALLER, Alois
KOVJENIC, Nenad
ANGERER, Gerhard
(31) 511372020
(32) 23.12.2020
(33) Austria

(51) B21D 5/01
B21C 37/08
(11) EP3851220
(21) EP18933413.9
(47) 29.01.2025
(87) JP2018034145
19.03.2020
(22) 14.09.2018
(54) STEEL PIPE MANUFACTURING METHOD AND PRESS DIE
(73) JFE Steel Corporation
(72) HORIE, Masayuki
KAWANO, Tomohiro
HINATA, Kosuke
TAMURA, Yukuya

(51) B21D 5/08
B21D 11/18
B21H 7/00
B21J 5/08
B21D 19/04
B21B 1/08
B21B 1/22
B21D 47/01
(11) EP4294586
(21) EP22702956.8
(47) 29.01.2025
(87) EP2022052250
25.08.2022
(22) 01.02.2022
(54) CROSS EDGE ROLLING
(73) fischerwerke GmbH & Co. KG
(72) WIEDNER, Christoph
(31) 102021103576
(32) 16.02.2021
(33) Germany

(51) B21D 5/12
B21D 26/033
B21D 37/16
C21D 9/50
C21D 11/00
C21D 8/10
B21C 37/08
C21D 1/26
C22C 21/00
B21D 35/00
C21D 1/34
C21D 1/42
C21D 1/52
(11) EP4259356
(21) EP21840314.5
(47) 29.01.2025
(87) US2021063009
23.06.2022
(22) 13.12.2021
(54) ROLL FORMING SYSTEM WITH HEAT TREATMENT AND ASSOCIATED METHODS
(73) Novelis, Inc.
(72) IYER, Natasha
RAIS, Adolfo
KIDWELL, Carolyn Grace
PEARSON, Cullen
GAENSBAUER, David Anthony
TALLA, Rajasekhar
ROY, Debdutta
HO, John Min
(31) 202063199202 P
(32) 14.12.2020
(33) United States of America

(51) B21D 7/024
B21D 7/12
B21F 1/00
G05B 13/04
(11) EP4267324
(21) EP21835870.3
(47) 29.01.2025
(87) IB2021062268
30.06.2022
(22) 23.12.2021
(54) BENDING METHOD AND BENDING MACHINE FOR THE EXECUTION OF A BENDING METHOD
(73) BLM S.p.A.
(72) BARALDO, Andrea
BASCETTA, Luca
PONTI, Angelo
CAPROTTI, Fabrizio
FERRETTI, Gianni
(31) 202000032258
(32) 23.12.2020
(33) Italy

(51) B21D 22/02
B21D 53/88
B32B 15/01
C21D 1/25
C21D 1/613
C21D 1/673
C21D 1/74
C21D 8/04
C21D 8/00
C23C 2/12
C23C 2/26
C23C 28/02
C23C 28/04
C23C 8/02
C23C 8/10
C23C 8/14
B21D 22/20
B21D 35/00
C21D 9/48
C22C 38/02
C22C 38/04
C21D 9/00
C22C 38/00
C22C 38/14
(11) EP3778060
(21) EP19785517.4
(47) 29.01.2025
(87) JP2019015517
17.10.2019
(22) 09.04.2019
(54) PRODUCTION METHOD FOR HOT PRESS MOLDED ARTICLES, PRESS MOLDED ARTICLE, DIE MOLD, AND MOLD SET
(73) NIPPON STEEL CORPORATION
(72) IRIKAWA, Hideaki
KUBO, Masahiro
NAKAZAWA, Yoshiaki
FUJITA, Soshi
FUDA, Masahiro
(31) 2018077794
(32) 13.04.2018
(33) Japan

(51) B21D 39/03
G05B 19/00
(11) EP3834957
(21) EP20212659.5
(47) 29.01.2025
(22) 09.12.2020
(54) METHOD FOR JOINING TWO SHEETS WITH A VARIABLE TOTAL THICKNESS
(73) Eckold GmbH & Co. KG
(72) Florian, Unger
(31) 102019134024
(32) 11.12.2019
(33) Germany

(51) B21D 43/09
(11) EP4344801
(21) EP23198554.0
(47) 29.01.2025
(22) 20.09.2023
(54) PLATE-LIKE MATERIAL FEEDING DEVICE
(73) Aida Engineering Ltd.
(72) NAKOSHI, Seiji
(31) 2022154651
(32) 28.09.2022
(33) Japan

(51) B22C 9/04
B22C 9/22
B22C 9/24
B22D 19/04
B22D 19/16
B22D 21/02
B22D 27/04
C30B 29/52
C30B 11/00
C30B 29/60
C30B 29/66
(11) EP4081360
(21) EP20845587.3
(47) 29.01.2025

(87) FR2020052459
01.07.2021
(22) 15.12.2020
(54) METHOD FOR MANUFACTURING A TURBINE ENGINE VANE AND TURBINE ENGINE VANE
(73) Safran Helicopter Engines
(72) BELAYGUE, Philippe Gabriel Louis
LARROUY, Baptiste Romain
BERTEAUX, Olivier Philippe David
(31) 1915444
(32) 23.12.2019
(33) France

(51) B22D 11/00
C22C 38/12
C22C 38/14
C22C 38/32
C21C 7/00
C21C 7/04
C21C 7/06
(11) EP4178743
(21) EP21737180.6
(47) 29.01.2025
(87) IB2021056078
13.01.2022
(22) 07.07.2021
(54) A METHOD OF CASTING A STEEL SEMI-PRODUCT WITH HIGH TITANIUM CONTENT
(73) ArcelorMittal
(72) BONNET, Frédéric
MASTRORILLO, Thierry
DAESCHLER, Valerie
(31) PCT/IB2020/056418
(32) 08.07.2020
(33) World Intellectual Property Office (WIPO)

(51) B22D 41/22
B22D 41/34
B22D 41/38
B22D 41/42
(11) EP4337403
(21) EP22728902.2
(47) 29.01.2025
(87) EP2022063048
17.11.2022
(22) 13.05.2022
(54) MAINTENANCE METHOD OF A SLIDING CLOSURE ON A MOLTEN METAL-CONTAINING VESSEL, AND SLIDING CLOSURE
(73) Refractory Intellectual Property GmbH & Co. KG
(72) BUTTIGNOL, Stefano
RENGGLI, Raphael
(31) 21173829
(32) 14.05.2021
(33) European Patent Office (EPO)

(51) B22F 9/04
C22C 1/04
C22C 33/02
C22C 12/00
C22C 28/00
C22C 38/00
B22F 3/10
H10N 10/853
(11) EP3859798
(21) EP19865620.9
(47) 29.01.2025
(87) JP2019037494
02.04.2020
(22) 25.09.2019
(54) THERMOELECTRIC CONVERSION MATERIAL, THERMOELECTRIC CONVERSION MODULE USING SAME, AND METHOD OF MANUFACTURING THERMOELECTRIC CONVERSION MATERIAL
(73) Proterial, Ltd.
(72) KAMITANI, Yoshihiro
MATSUDA, Michiko
SHIMADA, Takeshi
(31) 2018180925
(32) 26.09.2018
(33) Japan

(51) B22F 10/28
B22F 3/10
B22F 10/16
B33Y 70/00
B33Y 10/00
B33Y 70/10
(11) EP4387794
(21) EP22768375.2
(47) 29.01.2025
(87) EP2022073244
23.02.2023
(22) 19.08.2022
(54) PARTICULATE FEEDSTOCK COMPOUND FOR USE IN A POWDER BED ADDITIVE MANUFACTURING PROCESS, AND SHAPING AND SINTERING PROCESS
(73) Headmade Materials GmbH
(72) FISCHER, Christian
STAUDIGEL, Christian
(31) 21192113
21192110
21192103
(32) 19.08.2021
19.08.2021
19.08.2021
(33) European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)

(51) B22F 10/28
B22F 10/322
B22F 12/00
B22F 12/70
B22F 12/86
B29C 64/153
B29C 64/259
B33Y 10/00
B33Y 30/00
B22F 10/32
B22F 12/41
B22F 12/44
B22F 12/49
(11) EP4116018
(21) EP22193536.4
(47) 29.01.2025
(22) 08.03.2018
(54) DEVICE AND METHOD FOR MANUFACTURING THREE-DIMENSIONAL WORKPIECES
(73) Nikon SLM Solutions AG
(72) Krol, Toni Adam
Hoppe, Birk
Haack, Bodo
Rolink, Gesa
(31) 102017205027
(32) 24.03.2017
(33) Germany

(51) B22F 10/28
B33Y 10/00
B33Y 30/00
B33Y 50/00
B33Y 50/02
G01N 23/203
G01N 23/2251
G05B 19/4099
B22F 12/90
B22F 10/36
B22F 12/13
B22F 12/67
(11) EP3746776
(21) EP19703265.9
(47) 29.01.2025
(87) EP2019052066
08.08.2019
(22) 29.01.2019
(54) METHOD AND ELECTRON BEAM SYSTEM FOR THE ADDITIVE PRODUCTION OF A WORKPIECE
(73) pro-beam GmbH & Co. KGaA
(72) LÖWER, Thorsten
(31) 102018102082
(32) 30.01.2018
(33) Germany

(51) B23B 27/04
B23B 27/08
(11) EP3930946
(21) EP20706352.0
(47) 29.01.2025
(87) EP2020055379
10.09.2020
(22) 01.03.2020
(54) INDEXABLE CUTTING INSERT
(73) Whizcut of Sweden AB
(72) SCHMIDT, Erik
(31) 19160319
(32) 01.03.2019
(33) European Patent Office (EPO)

(51) B23B 29/24
B23B 29/20
B23B 29/04
(11) EP3771510
(21) EP20175642.6
(47) 29.01.2025
(22) 20.05.2020
(54) TOOL HOLDER, MACHINE TOOL WITH MOVABLE TOOL HOLDER, AND TOOL BRACKET FOR SAME
(73) ESA Eppinger GmbH
(72) Liedecke, Rolf
Judas, Joel
(31) 102019120522
(32) 30.07.2019
(33) Germany

(51) B23D 21/08
B26D 3/16
(11) EP3181279
(21) EP16202453.3
(47) 29.01.2025
(22) 06.12.2016
(54) C-TYPE TUBING CUTTER

(73) Ridge Tool Company
(72) WU, Duan
ZHOU, Qi
(31) 201615291401
201562268064 P
(32) 12.10.2016
16.12.2015
(33) United States of America
United States of America

(51) B23D 59/00
B27B 17/12
B27B 17/00
(11) EP4344809
(21) EP23191849.1
(47) 29.01.2025
(22) 17.08.2023
(54) CHAINSAW
(73) Nanjing Chervon Industry Co., Ltd.
(72) XIAO, Minggui
HU, Kai
WANG, Huaishu
ZHU, Huaguo
XU, Zhen
DUAN, Junya
(31) 202211206993
202211207122
(32) 30.09.2022
30.09.2022
(33) China
China

(51) B23H 7/04
B23H 1/02
B23H 7/20
(11) EP3674026
(21) EP19217788.9
(47) 29.01.2025
(22) 19.12.2019
(54) CONTROL METHOD OF WIRE ELECTRICAL DISCHARGE MACHINE
(73) FANUC CORPORATION
(72) Furuta, Tomoyuki
Tsuchiya, Yousuke
(31) 2018240687
(32) 25.12.2018
(33) Japan

(51) B23H 7/10
(11) EP3505285
(21) EP18248176.2
(47) 29.01.2025
(22) 28.12.2018
(54) WIRE ELECTRICAL DISCHARGE MACHINE AND AUTO WIRE FEEDING METHOD OF WIRE ELECTRICAL DISCHARGE MACHINE
(73) FANUC CORPORATION
(72) Makino, Yoshinori
Song, Shijin
(31) 2017252888
(32) 28.12.2017
(33) Japan

(51) B23K 1/00
B23K 1/20
B23K 20/16
F16B 31/02
G01L 5/24
B23K 101/20
(11) EP4221927
(21) EP21786126.9
(47) 29.01.2025
(87) EP2021076590
07.04.2022
(22) 28.09.2021
(54) METHOD FOR PRODUCING LOAD-INDICATING CONNECTION COMPONENTS, AND CORRESPONDING LOAD-INDICATING CONNECTION COMPONENT
(73) Intellifast GmbH
(72) HÖRING, Gert
(31) 102020125707
(32) 01.10.2020
(33) Germany

(51) B23K 1/005
B23K 26/03
B23K 26/21
B23K 26/38
B23K 31/00
B23K 31/12
(11) EP4146426
(21) EP21725064.6
(47) 29.01.2025
(87) EP2021061724
11.11.2021
(22) 04.05.2021
(54) METHOD FOR ANALYSING A LASER MACHINING PROCESS, SYSTEM FOR ANALYSING A LASER MACHINING PROCESS AND LASER MACHINING SYSTEM COMPRISING A SYSTEM OF THIS TYPE
(73) Precitec GmbH & Co. KG
(72) KRAUSE, Martin
MACK, Fabian
SCHWARZ, Joachim
(31) 102020112116
(32) 05.05.2020
(33) Germany

(51) B23K 3/047
B23K 1/00
B23K 3/03
G06F 13/42
B23K 101/36
(11) EP4052828
(21) EP22160452.3
(47) 29.01.2025
(22) 07.08.2018
(54) SOLDERING IRON CONTROL DEVICE, COMBINATION OF SUCH DEVICE AND A SOLDERING IRON, AND SOLDERING IRON MANAGEMENT SYSTEMS
(73) Hakko Corporation
(72) MATSUZAKI, Kenji
TAKEUCHI, Hitoshi
NAKAMURA, Kenta
(31) 2018131639
201762543797 P
(32) 11.07.2018
10.08.2017
(33) Japan
United States of America

(51) B23K 11/11
B23K 11/25
(11) EP4289543
(21) EP23169512.3
(47) 29.01.2025
(22) 24.04.2023
(54) DEVICE FOR MEASURING THE WELDING FORCE AND FOR DETECTING THE ELECTRIC WELDING VOLTAGE DURING A WELDING PROCESS OF A RESISTANCE WELDING DEVICE
(73) Kistler Holding AG
(72) Koch, Stefan
Lehmann, Andri
Naegeli, Davorin
(31) 22150765
(32) 08.06.2022
(33) European Patent Office (EPO)

(51) B23K 20/12
(11) EP4284588
(21) EP21806129.9
(47) 29.01.2025
(87) AT2021060403
04.08.2022
(22) 04.11.2021
(54) FRICTION STIR WELDING TOOL AND FRICTION STIR WELDING METHOD
(73) Stirtec GmbH
(72) WEINBERGER, Thomas
FIGNER, Gunter
OPPENEIGER, Lucas
CALISKANOGLU, Ozan
PFEIFFER, Christian
(31) 500452021
(32) 27.01.2021
(33) Austria

(51) B23K 20/12
B64G 1/50
H05K 7/20
(11) EP3666444
(21) EP19215404.5
(47) 29.01.2025
(22) 11.12.2019
(54) A METHOD OF MANUFACTURING A MULTILAYER MEMBER FOR AERONAUTIC AND AEROSPACE APPLICATIONS
(73) Thales Alenia Space Italia S.p.A. Con Unico Socio
(72) BERTONE, Massimo
MONTABONE, Mauro
STASI, Mariassunta Francesca
SIMONE, Antonia
(31) 201800010987
(32) 11.12.2018
(33) Italy

(51) B23K 26/03
B23K 26/06
B23K 26/082
B23K 26/08
B23K 26/38
B23K 31/12
(11) EP4304802
(21) EP22711546.6
(47) 29.01.2025
(87) EP2022056022
15.09.2022
(22) 09.03.2022
(54) DEVICE AND METHOD FOR LASER CUTTING A WORKPIECE AND PRODUCING WORKPIECE PARTS
(73) Bystronic Laser AG

(72) HAAS, Titus
SCHEIDIGER, Simon
BERGER, Michael
STEINLIN, Markus
(31) 21161527
(32) 09.03.2021
(33) European Patent Office (EPO)

(51) B23K 26/21
B23K 103/10
(11) EP4196315
(21) EP21759063.7
(47) 29.01.2025
(87) EP2021072255
17.02.2022
(22) 10.08.2021
(54) WELDING METHOD
(73) Continental Autonomous Mobility Germany GmbH
Vitesco Technologies GmbH
(72) SEEGER, Johannes
BRAUN, Christian
GUGEL, Hajo
(31) 102020210182
(32) 11.08.2020
(33) Germany

(51) B23K 26/21
G02B 3/00
B23K 26/06
B23K 26/064
B23K 26/073
G02B 3/06
G02B 7/10
G02B 13/12
H01S 3/00
(11) EP4122636
(21) EP20926072.8
(47) 29.01.2025
(87) CN2020089531
23.09.2021
(22) 11.05.2020
(54) LASER WELDING DEVICE
(73) United Winners Laser Co., Ltd.
(72) CHKUN, Tatsuro
HAN, Jinlong
NIU, Zengqiang
LU, Guojie
CHEN, Guoning
(31) 202010187307
(32) 17.03.2020
(33) China

(51) B23K 26/24
B23K 26/34
B23K 26/211
B23K 26/082
(11) EP3907034
(21) EP21176590.4
(47) 29.01.2025
(22) 18.09.2017
(54) METHOD OF AND SYSTEM FOR WELDING USING AN ENERGY BEAM SCANNED REPEATIVELY IN TWO DIMENSIONS
(73) Etxe-Tar, S.A.
(72) Gabilondo, José Juan
(31) 16382442
(32) 21.09.2016
(33) European Patent Office (EPO)

(51) B23K 26/53
C03B 33/09
(11) EP4164835
(21) EP21734593.3
(47) 29.01.2025
(87) US2021034127
16.12.2021
(22) 26.05.2021
(54) METHODS FOR LASER PROCESSING COATED SUBSTRATES USING A TOP-HAT ENERGY DISTRIBUTION
(73) Corning Incorporated
(72) HOEHM, Sandra
STUTE, Uwe
(31) 202063037126 P
(32) 10.06.2020
(33) United States of America

(51) B23P 21/00
G05B 19/418
G06Q 50/04
(11) EP3643445
(21) EP18841281.1
(47) 29.01.2025
(87) JP2018017999
07.02.2019
(22) 09.05.2018
(54) PRODUCTION MANAGEMENT SYSTEM AND PRODUCTION MANAGEMENT METHOD
(73) Daikin Industries, Ltd.
(72) KAYAMA, Norio
OHTANI, Yousuke
SEKIDA, Naoto
UCHIYAMA, Masaaki
OHI, Takashi
KISHIMA, Hiroshi
SANO, Masakazu
YOKOTA, Yoshihiko
(31) 2017147962
(32) 31.07.2017
(33) Japan

(51) B23Q 1/00
F16J 15/00
(11) EP3615266
(21) EP18724148.4
(47) 29.01.2025
(87) EP2018060511
01.11.2018
(22) 24.04.2018
(54) SEALING UNIT
(73) EWS Weigele GmbH & Co. KG
(72) WEIGELE, Matthias
WEIGELE, Frank
(31) 102017108744
(32) 24.04.2017
(33) Germany

(51) B23Q 1/48
B23B 3/06
B23F 23/06
B23F 23/12
(11) EP4424464
(21) EP24401009.6
(47) 29.01.2025
(22) 01.03.2024
(54) WORKPIECE HOLDING UNIT FOR A MACHINE TOOL, IN PARTICULAR IN A MACHINING CENTRE
(73) Starrag GmbH
(72) Vogel, Eckardt
Hoppe, Thomas
Claus, Sascha
Sand, Phillip
(31) 102023105009
(32) 01.03.2023
(33) Germany

(51) B23Q 3/06
B23Q 1/00
(11) EP3895840
(21) EP19897111.1
(47) 29.01.2025
(87) JP2019047790
18.06.2020
(22) 06.12.2019
(54) CLAMP DEVICE
(73) Kosmek Ltd.
(72) YOSHIMI, Masahiro
GOTO, Junichi
(31) 2018230576
(32) 10.12.2018
(33) Japan

(51) B23Q 3/08
B25B 11/00
B23Q 1/03
B23Q 1/32
(11) EP3774173
(21) EP19785826.9
(47) 29.01.2025
(87) US2019026441
17.10.2019
(22) 09.04.2019
(54) STATIC FLEXIBLE TOOLING SYSTEM
(73) Kirby, Larry, Don
Advanced Machine Works, LLC
(72) KIRBY, Larry, Don
(31) 201862656795 P
(32) 12.04.2018
(33) United States of America

(51) B24B 9/06
H01L 21/02
(11) EP3888846
(21) EP21166606.0
(47) 29.01.2025
(22) 01.04.2021
(54) SEMICONDUCTOR SUBSTRATE AND METHOD FOR MANUFACTURING THE SAME
(73) Novel Crystal Technology, Inc.
(72) WATANABE, Shinya
YOKOO, Masanori
(31) 2020065514
(32) 01.04.2020
(33) Japan

(51) B24B 55/05
B25F 5/00
B24B 23/02
(11) EP3892420
(21) EP20213435.9
(47) 29.01.2025
(22) 11.12.2020
(54) ELECTRICAL TOOL
(73) C. & E. Fein GmbH
(72) Burkhardt, Thomas
Frey, Simon
Dürnegger, Wolfgang
Schweitzer, Marco
Hokenmaier, Tobias
Mayer, Bernd

(31) 202020101891 U
(32) 06.04.2020
(33) Germany

(51) B24C 3/06
B24C 1/04
B24C 7/00
B24C 9/00
(11) EP3873699
(21) EP19827596.8
(47) 29.01.2025
(87) DE2019100947
07.05.2020
(22) 04.11.2019
(54) SURFACE CLEANING AND ENGRAVING MACHINE USING VACUUM BLASTING
(73) Systeco GmbH
(72) DYBALLA, Uwe
(31) 102018127450
(32) 04.11.2018
(33) Germany

(51) B24D 3/28
B24D 11/02
B24D 11/00
B24B 37/22
C09K 3/14
B24D 3/06
B24D 18/00
(11) EP3532249
(21) EP17865908.2
(47) 29.01.2025
(87) US2017055602
03.05.2018
(22) 06.10.2017
(54) STRUCTURED ABRASIVE ARTICLES AND METHODS OF MAKING THE SAME
(73) 3M Innovative Properties Company
(72) JANSEN, Vincent, R.
NELSON, Thomas, J.
ECKEL, Joseph, B.
NIENABER, Aaron, K.
PETERSON, Scott, W.
(31) 201662412427 P
(32) 25.10.2016
(33) United States of America

(51) B24D 11/00
B24D 11/02
(11) EP4419289
(21) EP22737926.0
(47) 29.01.2025
(87) FI2022050382
01.06.2023
(22) 03.06.2022
(54) ABRASIVE PRODUCT
(73) Mirka Oy
(72) HÄGGBLOM, Anders
GRÖN, Jan
HEDE, Courtney
KAVANDER, Christer
(31) 20216207
(32) 25.11.2021
(33) Finland

(51) B25B 5/00
B25B 5/10
(11) EP4415927
(21) EP22801495.7
(47) 29.01.2025
(87) EP2022079137
27.04.2023
(22) 19.10.2022
(54) CLAMPING AND HOLDING TOOL FOR DECKING, FLOORING OR CLADDING BOARDS
(73) Gp Droïde
(72) GARCIA, Pascal
(31) 2111121
(32) 20.10.2021
(33) France

(51) B25B 5/10
B25B 5/16
(11) EP4234166
(21) EP23185750.9
(47) 29.01.2025
(22) 09.07.2020
(54) LOCKING ASSEMBLY
(73) Techlok Solutions, LLC
(72) LATCHA, Michael A.
ANGOTT, Paul G.
ANGOTT, Ryan J.
(31) 201962871764 P
(32) 09.07.2019
(33) United States of America

(51) B25B 27/10
B25B 27/14
B25F 5/00
(11) EP4011559
(21) EP20315488.5
(47) 29.01.2025
(22) 09.12.2020
(54) DEVICE HAVING A QUICK COUPLING SYSTEM FOR FASTENING AN EXCHANGEABLE HEAD
(73) Dubuis et Cie
(72) Vervier, Patrick
Cerfeuillet, Vincent

(51) B25F 1/00
H02K 3/00
(11) EP4205910
(21) EP22211541.2
(47) 29.01.2025
(22) 06.12.2022
(54) POWER TOOL
(73) Nanjing Chervon Industry Co., Ltd.
(72) HU, Chenglong
WANG, Han
XU, Qian
YANG, Dezhong
(31) 202222498842 U
202111630035
(32) 21.09.2022
28.12.2021
(33) China
China

(51) B25F 5/00
B25B 21/02
(11) EP4056325
(21) EP22161310.2
(47) 29.01.2025
(22) 10.03.2022
(54) IMPACT WRENCH
(73) CEMBRE S.p.A.
(72) LUCIANI, Gianpaolo
BAREZZANI, Gualtiero
(31) 202100005939
(32) 12.03.2021
(33) Italy

(51) B25F 5/00
B25F 5/02
B25B 21/02
(11) EP4056326
(21) EP22161319.3
(47) 29.01.2025
(22) 10.03.2022
(54) IMPACT WRENCH
(73) CEMBRE S.p.A.
(72) LUCIANI, Gianpaolo
BAREZZANI, Gualtiero
(31) 202100005933
(32) 12.03.2021
(33) Italy

(51) B25F 5/00
B25G 3/38
(11) EP4245466
(21) EP22315062.4
(47) 29.01.2025
(22) 14.03.2022
(54) PORTABLE HYDRAULIC TOOL COMPRISING A HANDLE
(73) Dubuis et Cie
(72) Cerfeuillet, Vincent
Vervier, Patrick

(51) B25F 5/00
G07C 3/08
G07C 9/38
(11) EP3126098
(21) EP15772767.8
(47) 29.01.2025
(87) US2015023243
08.10.2015
(22) 30.03.2015
(54) ELECTRONIC TOOL LOCK
(73) Ridge Tool Company
(72) POND, Frederick D.
KREUZER, Rudolf
KRONDORFER, Harald
(31) 201461973932 P
(32) 02.04.2014
(33) United States of America

(51) B25F 5/02
B24B 23/00
B24B 23/02
B24B 47/00
B24B 23/03
B24B 23/04
(11) EP4368350
(21) EP22206141.8
(47) 29.01.2025
(22) 08.11.2022
(54) HAND-HELD ELECTRIC POLISHING OR SANDING POWER TOOL
(73) Valentini, Andrea
(72) Valentini, Andrea

(51) B25F 5/02
H01M 50/204
H01M 50/213
H01M 50/256
H01M 50/262
H01M 50/296
H01M 50/512
H01M 50/574
H01M 50/598
H01M 50/244

H01M 50/247
H01M 50/284
H01M 50/522
(11) EP3660951
(21) EP19212890.8
(47) 29.01.2025
(22) 02.12.2019
(54) TRANSPORT SYSTEM FOR CONVERTIBLE BATTERY PACK
(73) Globe (Jiangsu) Co., Ltd.
(72) MAO, Wei
WANG, Doushi
LIU, Chuanjun
GUO, Xinzhong
(31) 201811457229
(32) 30.11.2018
(33) China

(51) B25H 3/04
B23Q 3/155
B23Q 7/14
B23Q 13/00
(11) EP4000813
(21) EP21207499.1
(47) 29.01.2025
(22) 10.11.2021
(54) FEEDING DEVICE, FEEDING SYSTEM, TRANSPORT SYSTEM AND METHOD FOR FEEDING AN INSTALLATION
(73) E. Zoller GmbH & Co. KG Einstell- und Messgeräte
(72) Pfau, Christian
Zoller, Alexander
(31) 102020130799
(32) 20.11.2020
(33) Germany

(51) B25J 9/00
B25J 19/02
B25J 5/00
B25J 11/00
B25J 13/08
B25J 9/16
(11) EP4279225
(21) EP22187200.5
(47) 29.01.2025
(22) 27.07.2022
(54) METHOD FOR CALIBRATING A CONSTRUCTION ROBOT
(73) Hilti Aktiengesellschaft
(72) Zanona, Julia
Brugger, Peter
(31) 22174203
(32) 19.05.2022
(33) European Patent Office (EPO)

(51) B25J 9/10
G05B 19/418
B25J 9/16
(11) EP4238712
(21) EP21885870.2
(47) 29.01.2025
(87) JP2021037388
05.05.2022
(22) 08.10.2021
(54) WORKPIECE TRANSPORT SYSTEM AND WORKPIECE TRANSPORT METHOD
(73) Amada Co., Ltd.
(72) TAKATSU Satoshi
TERASAKI Shuhei
MIURA Naofumi
KUBOTA Teruyuki
(31) 2020180480
(32) 28.10.2020
(33) Japan

(51) B25J 9/16
(11) EP4112240
(21) EP22180194.7
(47) 29.01.2025
(22) 21.06.2022
(54) AUTONOMOUS MANIPULATION OF A FLEXIBLE PRIMARY PACKAGE IN A DIMENSIONALLY STABLE SECONDARY PACKAGE BY MEANS OF ROBOTS
(73) Bayer AG
(72) Thomas, Carsten
Schweiger, Armin
Ordoñez Apræz, Daniel Felipe
Coulon, Carl-Helmut
(31) 21182082
(32) 28.06.2021
(33) European Patent Office (EPO)

(51) B25J 9/16
G05B 13/02
G06N 3/02
G06N 3/08
(11) EP3720666
(21) EP18821947.1
(47) 29.01.2025
(87) US2018063851
13.06.2019
(22) 04.12.2018
(54) LEARNING AND APPLYING EMPIRICAL KNOWLEDGE OF ENVIRONMENTS BY ROBOTS
(73) Google LLC
(72) GREENBERG, Alexa
(31) 201715832705
(32) 05.12.2017
(33) United States of America

(51) B25J 11/00
G10L 25/63
G06V 40/20
G06V 40/16
(11) EP4059673
(21) EP22161901.8
(47) 29.01.2025
(22) 14.03.2022
(54) INFORMATION PROCESSING APPARATUS, NONVERBAL INFORMATION CONVERSION SYSTEM, INFORMATION PROCESSING METHOD, AND CARRIER MEANS
(73) Ricoh Company, Ltd.
(72) Tanaka, Satomi
(31) 2021044286
(32) 18.03.2021
(33) Japan

(51) B25J 15/06
(11) EP3674040
(21) EP19217226.0
(47) 29.01.2025
(22) 17.12.2019
(54) SUCTION HEAD FOR A WASTE SORTING SYSTEM
(73) Bollegraaf Patents and Brands B.V.
(72) Vogelaar, Johannes Sijbrand
(31) 2022320
(32) 28.12.2018
(33) Netherlands

(51) B25J 15/08
B67B 3/20
B25J 9/00
B25J 11/00
B25J 15/00
(11) EP3900893
(21) EP19898444.5
(47) 29.01.2025
(87) JP2019049561
25.06.2020
(22) 18.12.2019
(54) END EFFECTOR AND ROBOT HAVING THE SAME
(73) Kawasaki Jukogyo Kabushiki Kaisha
(72) IWASAKI, Yukio
(31) 2018239928
(32) 21.12.2018
(33) Japan

(51) B26B 19/06
B26B 19/04
(11) EP4363177
(21) EP22735465.1
(47) 29.01.2025
(87) EP2022067898
05.01.2023
(22) 29.06.2022
(54) MOUNTING ASSEMBLY FOR A HAIR CUTTING APPLIANCE
(73) Koninklijke Philips N.V.
(72) RAO, Ramachandra, Ganesh
PETRELLI, Marcus, Cornelis
(31) 21183450
(32) 02.07.2021
(33) European Patent Office (EPO)

(51) B26B 21/22
B26B 21/52
(11) EP4205924
(21) EP21863873.2
(47) 29.01.2025
(87) JP2021011646
10.03.2022
(22) 22.03.2021
(54) HANDLE BENDABLE RAZOR
(73) KAI R&D CENTER CO., LTD.
(72) USUDA, Masashi
(31) 2020149243
(32) 04.09.2020
(33) Japan

(51) B26B 21/40
B26B 21/52
(11) EP4363179
(21) EP22733467.9
(47) 29.01.2025
(87) EP2022066679
05.01.2023
(22) 20.06.2022
(54) MONITORING USAGE OF A HAIR CUTTING DEVICE
(73) Koninklijke Philips N.V.
(72) VAN DE SCHOOTBRUGGE, Mannold DIRKSZ, Daniel Alonzo
(31) 21182267
(32) 29.06.2021

(33) European Patent Office (EPO)

(51) B26D 7/26
B26F 1/40
B26D 5/00
B26F 1/44
(11) EP4201616
(21) EP21942799.4
(47) 29.01.2025
(87) CN2021138070
01.12.2022
(22) 14.12.2021
(54) DIE CUTTER SUPPLY SYSTEM
(73) Quzhou Taiwei Precise Machinery Co., Ltd.
(72) TONG, Junxiang
WANG, Wenyin
TONG, Huizhong
TONG, Xiaozhong
WANG, Xiebin
(31) 202110567905
(32) 24.05.2021
(33) China

(51) B26F 1/38
B26F 1/44
(11) EP4265384
(21) EP23168318.6
(47) 29.01.2025
(22) 17.04.2023
(54) MODULAR SYSTEM AND METHOD FOR ASSEMBLING A PACKAGING CUTTING DIE
(73) Ikarton S.r.l.
(72) Visani, Marco
De Franceschi, Adriano
(31) 202200007715
(32) 19.04.2022
(33) Italy

(51) B26F 1/44
B26F 1/18
(11) EP4241946
(21) EP23160177.4
(47) 29.01.2025
(22) 06.03.2023
(54) PUNCHING TOOL
(73) Rohrer Tools AG
(72) Wenziker, Reto
Lautz, Carsten
Nick, Jürgen
(31) 102022105660
(32) 10.03.2022
(33) Germany

(51) B27K 5/00
F26B 5/04
(11) EP2720839
(21) EP12753814.8
(47) 29.01.2025
(87) IT2012000180
20.12.2012
(22) 15.06.2012
(54) HIGH TEMPERATURE THERMAL MODIFICATION PROCESS OF WOOD IN A VACUUM AUTOCLAVE
(73) WDE MASPELL S.r.l.
(72) PAGNOZZI, Ernesto
(31) RM20110314
(32) 16.06.2011
(33) Italy

(51) B27N 1/00
B27N 1/02
B27N 3/00
B27N 3/18
C08K 5/053
C08K 5/09
C08K 5/092
C08L 97/02
C09J 135/02
C09J 167/02
B27N 3/02
B27N 3/04
C08L 3/08
C08L 5/00
C08L 5/02
C08L 29/04
C08L 33/02
C08L 35/02
C08L 67/00
(11) EP4351852
(21) EP22732121.3
(47) 29.01.2025
(87) EP2022065154
15.12.2022
(22) 03.06.2022
(54) PROCESS OF PRODUCING A LIGNOCELLULOSIC COMPOSITE, CORRESPONDING LIGNOCELLULOSIC COMPOSITE, AND USE THEREOF
(73) BASF SE
(72) KALBE, Michael
SOMMER, Gereon Antonius
WEINKÖTZ, Stephan
(31) 21178063
(32) 07.06.2021
(33) European Patent Office (EPO)

(51) B27N 1/00
B27N 1/02
B27N 3/00
B27N 3/18
C08K 5/053
C08K 5/09
C08K 5/092
C08L 97/02
C09J 135/02
C09J 167/02
B27N 3/02
B27N 3/04
C08L 3/08
C08L 5/00
C08L 5/02
C08L 29/04
C08L 33/02
C08L 35/02
C08L 67/00
(11) EP4351853
(21) EP22732124.7
(47) 29.01.2025
(87) EP2022065162
15.12.2022
(22) 03.06.2022
(54) PROCESS OF PRODUCING A LIGNOCELLULOSIC COMPOSITE, CORRESPONDING LIGNOCELLULOSIC COMPOSITE, AND USE THEREOF
(73) BASF SE
(72) WEINKÖTZ, Stephan
SOMMER, Gereon Antonius
KALBE, Michael
(31) 21178063
(32) 07.06.2021
(33) European Patent Office (EPO)

(51) B27N 1/00
B27N 1/02
B27N 3/00
B27N 3/18
C08K 5/053
C08K 5/09
C08K 5/092
C08L 97/02
C09J 135/02
C09J 167/02
B27N 3/02
B27N 3/04
C08L 3/08
C08L 5/00
C08L 5/02
C08L 29/04
C08L 33/02
C08L 35/02
C08L 67/00
(11) EP4351854
(21) EP22732127.0
(47) 29.01.2025
(87) EP2022065170
15.12.2022
(22) 03.06.2022
(54) PROCESS OF PRODUCING A LIGNOCELLULOSIC COMPOSITE, CORRESPONDING LIGNOCELLULOSIC COMPOSITE, AND USE THEREOF
(73) BASF SE
(72) KALBE, Michael
SOMMER, Gereon Antonius
WEINKÖTZ, Stephan
(31) 21178063
(32) 07.06.2021
(33) European Patent Office (EPO)

(51) B27N 5/00
B32B 3/28
B32B 7/12
B32B 13/10
B32B 15/10
B32B 21/04
B32B 21/08
B32B 21/14
E04C 2/16
E04C 2/32
E04C 2/34
B32B 21/02
(11) EP3208400
(21) EP16000427.1
(47) 29.01.2025
(22) 22.02.2016
(54) LIGHTWEIGHT BOARD CONTAINING UNDULATED ELEMENTS
(73) Wood Innovations Ltd.
(72) Möller, Achim
Eckstein, Thomas

(51) B28B 1/00
E04G 21/04
B01F 27/00
B28C 5/12

B28C 7/04
B28C 7/12
B33Y 10/00
B33Y 30/00
C04B 28/02
B29C 64/209
B01F 25/314
B01F 27/192
B01F 27/50
B29C 64/106
B29C 64/336
(11) EP4134216
(21) EP22188943.9
(47) 29.01.2025
(22) 05.08.2022
(54) DEVICE AND METHOD FOR MANUFACTURING STRUCTURES OR OBJECTS FROM COLOURED CONCRETE
(73) Wilhelm Tölke GmbH & Co. KG
(72) Strietzel, Frank
Härtenberger, Lukas
Hamper, André
(31) 102021121046
(32) 12.08.2021
(33) Germany

(51) B28B 5/04
B28B 15/00
B28B 17/00
B25J 5/04
B28B 7/00
E21D 11/08
B25J 11/00
B28B 11/24
(11) EP3953122
(21) EP20721159.0
(47) 29.01.2025
(87) EP2020059943
15.10.2020
(22) 07.04.2020
(54) PRODUCTION SYSTEM AND METHOD FOR PRODUCING A CONCRETE SEGMENT OF A TUNNEL EXCAVATION SYSTEM
(73) Herrenknecht AG
(72) MEDEL, Stefan
(31) 102019109084
(32) 07.04.2019
(33) Germany

(51) B29C 39/02
B29C 39/34
B81C 99/00
B29C 33/00
B29C 33/52
B01L 3/00
(11) EP4031343
(21) EP20780302.4
(47) 29.01.2025
(87) GB2020052267
25.03.2021
(22) 18.09.2020
(54) METHOD OF MANUFACTURING A MICROFLUIDIC ARCHITECTURE
(73) Unhindr Ltd
(72) TANRIVERDI, Ugur
(31) 201913529
(32) 19.09.2019
(33) United Kingdom

(51) B29C 41/02
B05D 3/10
C08J 5/18
B01D 39/08
D04H 1/4382
B29C 33/42
B29C 43/46
B29C 43/22
B29C 59/02
B29C 41/26
B01D 15/10
B01D 39/16
B08B 17/06
(11) EP3956077
(21) EP19939910.6
(47) 29.01.2025
(87) US2019044511
04.02.2021
(22) 31.07.2019
(54) METHOD FOR MODIFYING THE WETTABILITY OF SURFACES
(73) Ultra Small Fibers, LLC
(72) HOFMEISTER, William Hudson
(31) 201916526287
(32) 30.07.2019
(33) United States of America

(51) B29C 44/34
B29D 35/00
B29D 35/12
B29C 35/08
(11) EP4056346
(21) EP22160118.0
(47) 29.01.2025
(22) 27.10.2016
(54) METHOD OF FOAMING AN INJECTION MOLDED PRECURSOR
(73) Nike Innovate C.V.
(72) Farris, Bryan N.
Turner, David
(31) 201514964914
201562248802 P
(32) 10.12.2015
30.10.2015
(33) United States of America
United States of America

(51) B29C 44/58
B29C 67/20
B29C 44/34
B29C 44/04
B29C 35/08
A43B 13/12
A43B 13/18
B29C 43/02
B29L 31/50
B29K 67/00
B29K 75/00
B29K 105/04
B29K 101/12
B29K 77/00
B29C 44/44
(11) EP3978216
(21) EP21209925.3
(47) 29.01.2025
(22) 01.12.2017
(54) METHOD FOR THE MANUFACTURE OF A PLASTIC COMPONENT, PLASTIC COMPONENT, AND SHOE
(73) adidas AG
(72) LE, Huu Minh Tru
HOLMES, Christopher Edward
KURTZ, Maximilian Philipp
ROBERTSON, Christopher
FATHI, Amir
REUBER, Norbert
ROMANOV, Victor
SEEFRIED, Andreas Johannes
(31) 102016223980
(32) 01.12.2016
(33) Germany

(51) B29C 45/00
C08K 5/01
C08L 53/02
A43B 13/04
A43B 13/12
(11) EP4094918
(21) EP21923175.0
(47) 29.01.2025
(87) JP2021045774
04.08.2022
(22) 13.12.2021
(54) INJECTION MOLDED PRODUCT AND SHOE
(73) ASICS Corporation
(72) SAWADA, Daisuke
(31) 2021012358
(32) 28.01.2021
(33) Japan

(51) B29C 45/17
B65B 5/10
B65B 23/22
B65B 5/06
B65B 35/36
B65B 35/56
(11) EP4188671
(21) EP21743397.8
(47) 29.01.2025
(87) EP2021068740
03.02.2022
(22) 07.07.2021
(54) PACKAGING METHOD FOR PIPETTE TIPS OR MEDICAL REACTION VESSELS, PACKAGING APPARATUS, AND INJECTION-MOULDING SYSTEM
(73) Waldorf Technik GmbH
(72) FUHRMANN, Ralf
BOOS, Christian
(31) 102020120165
(32) 30.07.2020
(33) Germany

(51) B29C 45/77
B29C 45/82
(11) EP4037887
(21) EP20870959.2
(47) 29.01.2025
(87) CA2020051261
08.04.2021
(22) 21.09.2020
(54) STABILIZED ADAPTIVE HYDRAULIC SYSTEM PRESSURE IN AN INJECTION MOLDING SYSTEM
(73) Husky Injection Molding Systems Ltd.
(72) SCHULTZ, Gregory Allan
YU, Weichun
(31) 201962910546 P
(32) 04.10.2019
(33) United States of America

(51) B29C 45/82
B29C 45/28
(11) EP4126497
(21) EP21854939.2
(47) 29.01.2025
(87) IB2021061740
15.09.2022
(22) 15.12.2021
(54) METHOD AND SYSTEM FOR OPERATING A FLUID ACTUATOR
(73) Inglass S.p.A.
(72) DE NADAI, Massimo
ROSSI, Massimo
BISETTO, Massimo
(31) 202100005306
(32) 08.03.2021
(33) Italy

(51) B29C 45/84
G06N 20/00
(11) EP4294621
(21) EP23705401.0
(47) 29.01.2025
(87) EP2023053767
24.08.2023
(22) 15.02.2023
(54) METHOD AND DEVICE FOR DETERMINING THE WEAR ON A DEVICE FOR PROCESSING PLASTICS
(73) Arburg GmbH + Co KG
(72) FAULHABER, Werner
KLOKE, Philipp
(31) 102022103483
(32) 15.02.2022
(33) Germany

(51) B29C 48/34
B29C 48/157
B29C 48/05
B29C 48/12
H05B 3/56
F16L 53/38
B29C 48/285
B29K 705/08
B29C 48/156
(11) EP4331807
(21) EP24151512.1
(47) 29.01.2025
(22) 13.12.2018
(54) DEVICE FOR THE PRODUCTION OF FILAMENTS CAPABLE OF BEING THERMOREGULATED, AS WELL AS FOR THE PRODUCTION OF MANUFACTURED ITEMS CONTAINING SAID FILAMENTS CAPABLE OF BEING THERMOREGULATED
(73) Exgineering SA
(72) CAPELLETTI, Tiziano
MACCAGNAN, Simone

(51) B29C 49/12
B29C 49/42
B29C 49/06
B29C 49/36
B29C 49/46
B29C 49/78
B29L 31/00
(11) EP4400286
(21) EP23217226.2
(47) 29.01.2025
(22) 15.12.2023
(54) METHOD AND BLOW MOULDING MACHINE FOR FORMING PLASTIC PREFORMS INTO PLASTIC CONTAINERS
(73) KHS GmbH
(72) Gerhards, Martin
Woytal, Cord
(31) 102023100739
(32) 13.01.2023
(33) Germany

(51) B29C 51/08
B32B 38/12
H01M 50/116
H01M 50/124
B29C 51/26
B29C 33/68
B29C 33/60
B29C 33/42
B29C 51/28
B29L 31/00
(11) EP4108416
(21) EP21883345.7
(47) 29.01.2025
(87) KR2021014929
28.04.2022
(22) 22.10.2021
(54) BATTERY CASE FORMING APPARATUS, AND BATTERY CASE MANUFACTURING METHOD USING SAME
(73) LG Energy Solution, Ltd.
(72) CHOI, Hang June
MOON, Jeong Oh
PARK, Jin Yong
CHI, Ho June
(31) 20200137864
(32) 22.10.2020
(33) Korea (Republic)

(51) B29C 63/02
(11) EP4263173
(21) EP21838979.9
(47) 29.01.2025
(87) DK2021050376
30.06.2022
(22) 20.12.2021
(54) A DEVICE FOR APPLYING AN ADHESIVE TO A LONGITUDINAL PRODUCT
(73) REDMOND, Jack
(72) REDMOND, Jack
(31) PA202001440
(32) 21.12.2020
(33) Denmark

(51) B29C 63/02
B32B 27/18
(11) EP4201645
(21) EP22214728.2
(47) 29.01.2025
(22) 19.12.2022
(54) APPARATUS AND METHOD FOR MAKING A CONTAINER WHICH COMPRISES A SUPPORTING SKELETON AND A FILM COUPLED TO THE SUPPORTING SKELETON AND RELATED CONTAINER
(73) G. Mondini SpA
(72) MONDINI, Giovanni
(31) 202100032426
(32) 23.12.2021
(33) Italy

(51) B29C 64/112
B29C 64/209
B29C 64/35
B33Y 70/00
B33Y 10/00
B33Y 30/00
(11) EP3906146
(21) EP19836595.9
(47) 29.01.2025
(87) IL2019051438
09.07.2020
(22) 30.12.2019
(54) METHOD AND SYSTEM FOR THREE-DIMENSIONAL PRINTING
(73) Stratasys Ltd.
(72) GLASSMAN, Barak
(31) 201862786577 P
(32) 31.12.2018
(33) United States of America

(51) B29C 64/118
B29C 64/20
B29C 64/209
B29C 64/321
B29C 64/393
B33Y 10/00
B33Y 30/00
B33Y 50/02
(11) EP4291383
(21) EP22704767.7
(47) 29.01.2025
(87) EP2022053222
18.08.2022
(22) 10.02.2022
(54) METHOD OF ADDITIVE MANUFACTURING AND ADDITIVE MANUFACTURING MACHINE FOR CARRYING OUT SAID METHOD
(73) Lines Manufacturing (Société par Actions Simplifiée)
(72) PERNOUX, Niels
GARIP, Rauf
POURSILLIE, Emerik
(31) 2101385
(32) 12.02.2021
(33) France

(51) B29C 64/118
B29C 64/209
B29C 64/336
B33Y 10/00
B33Y 30/00
B33Y 40/00
(11) EP4330012
(21) EP22720792.5
(47) 29.01.2025
(87) NL2022050221
03.11.2022
(22) 26.04.2022
(54) FILAMENT FEEDING ASSEMBLY FOR FUSED FILAMENT FABRICATION SYSTEM
(73) Ultimaker B.V.
(72) ROSSING, Lars
(31) 2028080
(32) 28.04.2021
(33) Netherlands

(51) B29C 65/02

B29C 65/74
B29C 65/78
B65B 51/30
(11) EP4196337
(21) EP21762689.4
(47) 29.01.2025
(87) EP2021072724
17.02.2022
(22) 16.08.2021
(54) DRIVE FOR SEALING JAWS
(73) GEA Food Solutions Weert B.V.
(72) BAUMEISTER, Bruno Gerfried
(31) 20191156
(32) 14.08.2020
(33) European Patent Office (EPO)

(51) B29C 65/02
B29C 70/28
B29C 37/00
B29C 65/00
B29C 70/68
B32B 37/26
B29C 59/10
B29C 59/14
B29C 59/16
(11) EP3981581
(21) EP20840246.1
(47) 29.01.2025
(87) JP2020020785
21.01.2021
(22) 26.05.2020
(54) METHOD FOR PRODUCING COMPOSITE MATERIAL CONJUGATE
(73) Mitsubishi Heavy Industries, Ltd.
(72) TAKAGI, Kiyoka
AKIYAMA, Hiromichi
(31) 2019131067
(32) 16.07.2019
(33) Japan

(51) B29C 65/08
A61F 13/15
B29L 31/48
(11) EP4255720
(21) EP21836062.6
(47) 29.01.2025
(87) EP2021084609
16.06.2022
(22) 07.12.2021
(54) MACHINING ELEMENT WITH STRUCTURAL ELEMENT
(73) Herrmann Ultraschalltechnik GmbH & Co. KG
(72) ZINK, Timo
ROUSSEL-GARCIA, Raquel
BODE, Robin Alexander
(31) 102020132522
(32) 07.12.2020
(33) Germany

(51) B29C 67/00
B29C 64/00
B29C 64/106
B29C 64/295
B29C 64/329
B29C 64/393
B33Y 10/00
B33Y 80/00
B33Y 30/00
(11) EP3626439
(21) EP18802440.0
(47) 29.01.2025
(87) CN2018086489
22.11.2018
(22) 11.05.2018
(54) 3D PRINTING METHOD
(73) Triastek, Inc.
(72) YAO, Juan
CHENG, Senping
DENG, Feihuang
LI, Xiaoling
WU, Wei
LU, Haohui
WANG, Xiaofei
LIU, Haili
(31) 201710347098
PCT/CN2018/071965
(32) 16.05.2017
09.01.2018
(33) China
World Intellectual Property Office (WIPO)

(51) B29C 70/38
B29C 70/30
(11) EP4261022
(21) EP23153955.2
(47) 29.01.2025
(22) 30.01.2023
(54) APPARATUS, SYSTEM AND METHOD FOR APPLYING COMPOSITE LAYUPS
(73) The Boeing Company
(72) Chowdhury, Nayeem
(31) 202217719656
(32) 13.04.2022
(33) United States of America

(51) B29C 70/38
B29C 70/34
B29D 99/00
B64C 1/06
B29C 70/30
B29C 70/44
B29C 70/54
B64C 3/18
B64C 1/00
(11) EP3868548
(21) EP21156085.9
(47) 29.01.2025
(22) 09.02.2021
(54) METHODS FOR FABRICATING SOLID LAMINATE STRINGERS ON A COMPOSITE PANEL
(73) The Boeing Company
(72) CHENG, Jiangtian
(31) 202016793559
(32) 18.02.2020
(33) United States of America

(51) B29C 70/44
B29C 37/00
B29C 70/54
F16L 39/04
F16L 41/03
(11) EP4275872
(21) EP23153964.4
(47) 29.01.2025
(22) 30.01.2023
(54) ROTATING MANIFOLDS AND ASSOCIATED SYSTEMS AND METHODS FOR VACUUM BAGGING LARGE COMPOSITE STRUCTURES
(73) The Boeing Company
(72) Halbritter, Allen J.
Velasquez, Luis F.
(31) 202217662455
(32) 09.05.2022
(33) United States of America

(51) B29C 70/52
B33Y 80/00
F03D 1/06
(11) EP3787888
(21) EP18917309.9
(47) 29.01.2025
(87) US2018030426
07.11.2019
(22) 01.05.2018
(54) METHODS FOR MANUFACTURING SPAR CAPS FOR WIND TURBINE ROTOR BLADES
(73) General Electric Renovables España, S.L.
(72) TOBIN, James, Robert
CARUSO, Christopher, Daniel
YARBROUGH, Aaron, A.
HYNUM, Daniel, Alan

(51) B29C 73/02
B29C 73/16
(11) EP4221964
(21) EP21798747.8
(47) 29.01.2025
(87) FR2021051693
07.04.2022
(22) 30.09.2021
(54) METHOD FOR REPAIRING A LEAK AT THE BOTTOM OF A CONTAINER COMPRISING A REVERSIBLE SEALING OF THE LEAK
(73) BOUYGUES CONSTRUCTION EXPERTISES NUCLEAIRES
(72) LEMAIRE, Olivier
(31) 2010089
(32) 02.10.2020
(33) France

(51) B29D 11/00
B05D 1/40
B05D 1/18
G02C 7/02
B05D 1/00
B05D 3/04
B05D 3/12
(11) EP4334122
(21) EP22727123.6
(47) 29.01.2025
(87) EP2022061887
10.11.2022
(22) 03.05.2022
(54) METHOD FOR COATING LENSES WITH LENSLETS WITH AN IMPROVED CONTROL ON POWER SHIFT
(73) Essilor International
(72) GUILLOU, Hélène
DUC, Olivier
(31) 21305597
(32) 07.05.2021
(33) European Patent Office (EPO)

(51) B29D 11/00
B24B 13/00
B24B 27/00
(11) EP3374170
(21) EP16801129.4

(47) 29.01.2025
(87) EP2016001835
18.05.2017
(22) 07.11.2016
(54) METHOD, INSTALLATION, AND SYSTEM FOR MACHINING OPTICAL LENSES
(73) Schneider GmbH & Co. KG
(72) HUTTENHUIS, Stephan
SCHNEIDER, Gunter
(31) 102015015040
102015014580
(32) 24.11.2015
12.11.2015
(33) Germany
Germany

(51) B29D 11/00
G02B 1/04
G02C 7/04
G02C 7/10
(11) EP4313567
(21) EP22715392.1
(47) 29.01.2025
(87) IB2022053046
06.10.2022
(22) 31.03.2022
(54) METHOD FOR MAKING PHOTOCHROMIC CONTACT LENSES
(73) Alcon Inc.
(72) KUMI, Augustine Twum
ZHENG, Yang
CHANG, Yuan
PLAVNIK, Michelle
ZHANG, Steve Yun
CHENG, Jing
GE, Junhao
(31) 202163169400 P
(32) 01.04.2021
(33) United States of America

(51) B29D 30/00
(11) EP4237233
(21) EP21810721.7
(47) 29.01.2025
(87) IB2021059816
05.05.2022
(22) 25.10.2021
(54) METHOD AND APPARATUS FOR APPLYING RUBBERIZED ELECTRONIC TAGS TO A TYRE BEING PROCESSED
(73) Pirelli Tyre S.p.A.
(72) MARTIN, Damiano
DAVARIO, Alessandro
DE COL, Christian
DE COL, Jury
(31) 202000025825
(32) 30.10.2020
(33) Italy

(51) B29D 30/24
(11) EP3003698
(21) EP14808335.5
(47) 29.01.2025
(87) US2014040885
11.12.2014
(22) 04.06.2014
(54) TIRE BUILDING DRUM WITH INCREASED RANGE OF MOVEMENT
(73) Marcus, Robert L. Jr.
Davian Enterprises, LLC
(72) MARCUS JR., Robert L.
(31) 201361832544 P
(32) 07.06.2013
(33) United States of America

(51) B29D 99/00
B29C 70/86
F03D 1/06
(11) EP3922446
(21) EP20179656.2
(47) 29.01.2025
(22) 12.06.2020
(54) METHOD FOR PRODUCING A WIND TURBINE BLADE AND WIND TURBINE BLADE OBTAINED THEREBY
(73) Siemens Gamesa Renewable Energy A/S
(72) Nielsen, Mogens
Henrichsen, Soeren Randrup Daugaard

(51) B29D 99/00
D01D 5/00
D04H 1/74
B05B 5/16
A61Q 19/00
A45D 34/04
A45D 40/00
A45D 40/26
A61K 8/04
A61M 35/00
B05B 12/12
B05B 5/053
B05B 12/00
A45D 34/00
(11) EP3713754
(21) EP18881009.7
(47) 29.01.2025
(87) US2018061840
31.05.2019
(22) 19.11.2018
(54) ELECTROSPINNING APPARATUS AND SYSTEMS AND METHODS THEREOF
(73) Kao Corporation
(72) KODAMA, Shinji
HEWETT, Carl Gordon
WILLIAMS, Joe Antony
SUGAWARA, Hirokatsu
RUSSELL, Michael Edward Philip
(31) 201762589173 P
(32) 21.11.2017
(33) United States of America

(51) B30B 9/22
B01D 29/82
B30B 15/00
C12G 1/00
B30B 15/32
(11) EP4221970
(21) EP21772758.5
(47) 29.01.2025
(87) EP2021074021
07.04.2022
(22) 31.08.2021
(54) MODULAR PRESS
(73) Willmes Anlagentechnik GmbH
(72) KRAMMER, Volker
(31) 102020125603
102020125608
(32) 30.09.2020
30.09.2020
(33) Germany
Germany

(51) B30B 11/08
B30B 15/00
B30B 15/06
B30B 15/26
(11) EP4034375
(21) EP20780617.5
(47) 29.01.2025
(87) EP2020076488
01.04.2021
(22) 23.09.2020
(54) DEVICE AND METHOD FOR MONITORING A TABLET PRESS MACHINE, PREFERABLY DURING CONTINUOUS OPERATION, BY MEANS OF A MEASURING DEVICE ATTACHED TO A PRESS PUNCH
(73) Korsch AG
(72) MIES, Stephan
KLAER, Ingo
(31) 102019126164
(32) 27.09.2019
(33) Germany

(51) B31D 5/00
(11) EP3634738
(21) EP18732999.0
(47) 29.01.2025
(87) US2018032394
15.11.2018
(22) 11.05.2018
(54) DUNNAGE APPARATUS CARTON FILLER
(73) Pregis Innovative Packaging LLC
(72) WETSCH, Thomas D.
WRIGHT, Eric Charles
(31) 201715592753
(32) 11.05.2017
(33) United States of America

(51) B31D 5/00
B31F 1/00
B31F 1/20
B65B 9/02
B65B 19/34
B26D 3/16
(11) EP4164876
(21) EP21737190.5
(47) 29.01.2025
(87) IT2021050182
16.12.2021
(22) 10.06.2021
(54) MACHINE AND METHOD FOR THE AUTOMATED PRODUCTION OF STRAWS
(73) I.M.A. Industria Macchine Automatiche S.p.A.
(72) DRAGHETTI, Fiorenzo
(31) 202000013822
(32) 10.06.2020
(33) Italy

(51) B32B 5/02
B32B 5/26
B32B 7/14
(11) EP4308373
(21) EP22715577.7
(47) 29.01.2025
(87) EP2022056713
22.09.2022
(22) 15.03.2022

(54) AQUEOUS WATER-BASED BONDING SYSTEM FOR FLAME-RETARDANT COMPOSITE
(73) W.L. Gore & Associates GmbH
(72) FUCHS, Joachim
(31) 202163161091 P
(32) 15.03.2021
(33) United States of America

(51) B32B 5/24
B32B 17/02
C04B 30/02
E04B 1/94
C09K 21/04
C09D 5/18
(11) EP3972829
(21) EP19724844.6
(47) 29.01.2025
(87) EP2019063151
26.11.2020
(22) 21.05.2019
(54) BARRIER, CONSTRUCTION ARTICLE AND METHOD OF MANUFACTURE THEREOF
(73) KINGSPAN HOLDINGS (IRL) LIMITED
(72) VAN HAANDEL, Marco
JAN KUIPER, Gerrit

(51) B32B 7/10
B32B 7/12
B32B 15/08
B32B 27/08
B32B 27/10
B32B 27/16
B32B 27/20
B32B 27/30
B32B 27/32
B32B 15/085
B32B 29/00
B32B 15/20
B41M 1/10
(11) EP3538361
(21) EP17808339.0
(47) 29.01.2025
(87) EP2017078629
17.05.2018
(22) 08.11.2017
(54) SHEETLIKE COMPOSITE FOR PRODUCING DIMENSIONALLY STABLE FOOD AND DRINK PRODUCT CONTAINERS HAVING A POLYMER LAYER HAVING A RATIO OF AROMATIC GROUPS TO CARBONYL GROUPS
(73) SIG Services AG
(72) LEMME, Ulrich
SCHIBULL, Dirk
LEMSKY, Andreas
(31) 202016006881 U
102016222128
(32) 10.11.2016
10.11.2016
(33) Germany
Germany

(51) B32B 9/06
B32B 15/12
B32B 15/20
B32B 27/10
B32B 27/30
B32B 29/00
(11) EP3475079
(21) EP17730517.4
(47) 29.01.2025
(87) EP2017065254
28.12.2017
(22) 21.06.2017
(54) A METHOD OF PRODUCING A PACKAGING MATERIAL FOR A RETORTABLE PACKAGE
(73) Tetra Laval Holdings & Finance S.A.
(72) LINDSTEDT, Mikael
LARSSON, Johan
TUFVESSON, Helena
KARLSSON, Anders
(31) 16175961
(32) 23.06.2016
(33) European Patent Office (EPO)

(51) B32B 15/01
H01M 6/04
H01M 6/08
H01M 50/107
H01M 50/119
H01M 50/124
H01M 50/133
(11) EP3279966
(21) EP16771888.1
(47) 29.01.2025
(87) JP2016053397
06.10.2016
(22) 04.02.2016
(54) METHOD FOR PRODUCING A STEEL PLATE FOR FORMING A BATTERY CAN, ALKALINE BATTERY AND A MANUFACTURING METHOD THEREOF
(73) FDK Corporation
(72) SUZUKI, Takuya
KUNIYA, Shigeyuki
(31) 2015073813
(32) 31.03.2015
(33) Japan

(51) B32B 17/10
B60S 1/08
G01N 27/22
(11) EP3847060
(21) EP19740403.1
(47) 29.01.2025
(87) EP2019069655
12.03.2020
(22) 22.07.2019
(54) DETECTION SYSTEM FOR THE CAPACITIVE DETECTION OF A PHYSICAL QUANTITY ON THE INSIDE AND/OR OUTSIDE OF A VEHICLE OR BUILDING WINDOW OR IN ITS IMMEDIATE VICINITY
(73) Saint-Gobain Glass France
(72) KLAUSS, Bastian
ZEISS, Michael
VARGA, Gabor
EFFERTZ, Christian
(31) 18192153
(32) 03.09.2018
(33) European Patent Office (EPO)

(51) B32B 18/00
F01D 5/14
F01D 5/28
C04B 37/00
C04B 35/80
C04B 35/645
C04B 35/638
C04B 35/634
C04B 35/628
C04B 35/622
C04B 35/573
B29B 11/16
(11) EP4263214
(21) EP21851811.6
(47) 29.01.2025
(87) FR2021052236
23.06.2022
(22) 08.12.2021
(54) METHOD FOR MANUFACTURING A CERAMIC MATRIX COMPOSITE TURBOMACHINE BLADE
(73) Safran Ceramics
(72) DELEHOUZE, Arnaud
ROUSSILLE, Clément, Marie, Benoît
BOUILLON, Eric
GARNIER, Gildas
(31) 2013613
(32) 18.12.2020
(33) France

(51) B32B 27/08
B32B 27/18
B32B 7/02
F16L 11/04
B32B 1/08
B32B 27/34
B32B 27/32
B32B 27/30
B32B 27/22
B32B 27/28
(11) EP3981594
(21) EP21212079.4
(47) 29.01.2025
(22) 12.01.2017
(54) MULTILAYER TUBULAR STRUCTURE WITH IMPROVED RESISTANCE TO EXTRACTION IN THE BIO-ESSENCE AND USE THEREOF
(73) ARKEMA FRANCE
(72) RECOQUILLE, Christelle
VERBAUWHEDE, Bertrand
DECHAMPS, Florent
MONTANARI, Thibaut
DUFAURE, Nicolas
(31) 1650337
(32) 15.01.2016
(33) France

(51) B32B 27/08
B32B 27/36
C08J 5/18
B32B 27/18
B32B 27/20
B32B 27/22
B32B 27/30
(11) EP4271566
(21) EP21840965.4
(47) 29.01.2025
(87) EP2021087140
07.07.2022
(22) 21.12.2021
(54) HIGH-DISINTEGRATION MULTILAYER BIODEGRADABLE FILM
(73) Novamont S.p.A.
(72) VALLERO, Roberto

INGUI', Pier Simone
BASTIOLI, Catia
GESTI GARCIA, Sebastia
MILIZIA, Tiziana
RUSSO, Claudio
(31) 202000032663
(32) 29.12.2020
(33) Italy

(51) B33Y 30/00
B29C 64/153
B29C 64/241
B29C 64/255
B29C 64/307
B29C 64/343
B33Y 40/10
B22F 10/34
B22F 12/57
B22F 10/85
B33Y 50/02
B33Y 10/00
B22F 12/90
B22F 10/28
(11) EP3890976
(21) EP19816860.1
(47) 29.01.2025
(87) GB2019053413
11.06.2020
(22) 03.12.2019
(54) POWDER DOSING SYSTEM
(73) Stratasys Powder Production Ltd
(72) HARTMANN, Anders
TJELLESEN, Frederik
(31) 201819681
(32) 03.12.2018
(33) United Kingdom

(51) B33Y 50/02
B22F 10/30
B29C 67/00
B29C 64/393
G06T 7/00
G01N 29/04
G01N 29/06
G01N 29/24
(11) EP4161779
(21) EP21821185.2
(47) 29.01.2025
(87) US2021036550
16.12.2021
(22) 09.06.2021
(54) PHOTO-ACOUSTIC TOMOGRAPHY DEFECT TESTING SYSTEM AND METHOD
(73) Seurat Technologies, Inc.
(72) BAYRAMIAN, Andrew, J.
LEARD, Francis, L.
DEMUTH, James, A.
(31) 202063036885 P
(32) 09.06.2020
(33) United States of America

(51) B33Y 50/02
H04N 1/40
(11) EP4087739
(21) EP20816471.5
(47) 29.01.2025
(87) EP2020084256
15.07.2021
(22) 02.12.2020
(54) METHOD OF DETERMINING TOOLPATHS FOR AN INFILL STRUCTURE FOR A DIGITAL 3D MODEL
(73) Ultimaker B.V.
(72) KUIPERS, Tim
(31) 20150349
(32) 06.01.2020
(33) European Patent Office (EPO)

(51) B41F 13/14
B26F 1/38
B41F 13/56
B41F 19/00
B41F 33/00
B41F 33/02
(11) EP4288290
(21) EP22721382.4
(47) 29.01.2025
(87) EP2022059441
19.01.2023
(22) 08.04.2022
(54) PROCESSING MACHINE AND METHOD FOR ADJUSTING A PROCESSING LENGTH OF A SHAPING UNIT OF A PROCESSING MACHINE
(73) Koenig & Bauer AG
(72) DEPPISCH, Bastian
MÜLLER, Torsten
SCHNEIDER, Thomas
(31) 102021118031
(32) 13.07.2021
(33) Germany

(51) B41F 19/00
B41F 13/14
B41F 33/00
B41F 33/02
(11) EP4288291
(21) EP22722157.9
(47) 29.01.2025
(87) EP2022059442
19.01.2023
(22) 08.04.2022
(54) PROCESSING MACHINE AND METHOD FOR ADJUSTING A PRINTING LENGTH AND/OR A PROCESSING LENGTH
(73) Koenig & Bauer AG
(72) DEPPISCH, Bastian
SCHNEIDER, Thomas
MÜLLER, Torsten
(31) 102021118033
(32) 13.07.2021
(33) Germany

(51) B41J 2/14
(11) EP4253058
(21) EP23163625.9
(47) 29.01.2025
(22) 23.03.2023
(54) LIQUID EJECTION HEAD AND LIQUID EJECTION APPARATUS
(73) CANON KABUSHIKI KAISHA
(72) IWANO, Takuya
(31) 2022056255
(32) 30.03.2022
(33) Japan

(51) B41J 2/16
B41J 2/14
(11) EP4173829
(21) EP22196780.5
(47) 29.01.2025
(22) 21.09.2022
(54) LIQUID DISCHARGE HEAD AND LIQUID DISCHARGE APPARATUS
(73) Ricoh Company, Ltd.
(72) MIWA, Keishi
(31) 2021175543
(32) 27.10.2021
(33) Japan

(51) B41J 2/165
(11) EP4194209
(21) EP22204081.8
(47) 29.01.2025
(22) 27.10.2022
(54) LIQUID COLLECTION DEVICE AND LIQUID DISCHARGE APPARATUS
(73) Ricoh Company, Ltd.
(72) TANIOKU, Yuichi
(31) 2021199211
(32) 08.12.2021
(33) Japan

(51) B41J 2/17
B41J 29/13
B41J 2/165
B41J 3/407
B41J 29/17
(11) EP4389429
(21) EP23219458.9
(47) 29.01.2025
(22) 21.12.2023
(54) LIQUID EJECTING DEVICE
(73) Seiko Epson Corporation
(72) CHINO, Hashiru
(31) 2022206386
(32) 23.12.2022
(33) Japan

(51) B41J 2/175
(11) EP4190573
(21) EP22210530.6
(47) 29.01.2025
(22) 30.11.2022
(54) TANK UNIT, HEAD SYSTEM, INK SUPPLYING SYSTEM, PRINTING SYSTEM AND PRINTING METHOD
(73) Brother Kogyo Kabushiki Kaisha
(72) DENG, Yuanyuan
WATANABE, Kohei
(31) 2021197300
(32) 03.12.2021
(33) Japan

(51) B41J 2/175
B41J 29/377
B41J 2/18
B41J 2/14
(11) EP4079524
(21) EP22164502.1
(47) 29.01.2025
(22) 25.03.2022
(54) HEAD SYSTEM, LIQUID DISCHARGING DEVICE, PRINTING DEVICE, AND METHOD FOR SUPPLYING LIQUID
(73) Brother Kogyo Kabushiki Kaisha
(72) ISHIZAKI, Hirotoshi
MORIMOTO, Itsuki
TAKAHASHI, Yuki
TORIKAI, Kosuke
TSUBOI, Motohiro

(31) 2021057460
2021057461
(32) 30.03.2021
30.03.2021
(33) Japan
Japan
(51) B41J 2/18
B41F 31/02
B67C 3/16
B41J 2/175
(11) EP3890983
(21) EP18942025.0
(47) 29.01.2025
(87) US2018063918
11.06.2020
(22) 04.12.2018
(54) NEGATIVE PRESSURE RECOVERY OF PRINTING AGENTS
(73) Hewlett-Packard Development Company, L.P.
(72) KNOWLES, Devin Michael
OSBORNE, Paul Allan
ARNOLD, Christopher John

(51) B41J 2/18
B41J 2/17
B41J 2/175
(11) EP4056377
(21) EP22160469.7
(47) 29.01.2025
(22) 07.03.2022
(54) PRINTER, PRINTING SYSTEM, AND PRINTING METHOD
(73) SCREEN Holdings Co., Ltd.
(72) MATSUDA, Takeshi
(31) 2021208897
2021037922
(32) 23.12.2021
10.03.2021
(33) Japan
Japan

(51) B41J 2/325
B41J 2/175
B41J 2/32
B41J 31/00
(11) EP4259444
(21) EP21839096.1
(47) 29.01.2025
(87) EP2021085556
23.06.2022
(22) 13.12.2021
(54) THERMAL PRINTING APPARATUS WITH HIGH AGILITY PRINTING SPEED
(73) Armor
(72) CHARRIER, Maxime
VAN DE WYNCKEL, Werner
(31) 20213802
(32) 14.12.2020
(33) European Patent Office (EPO)

(51) B41J 2/325
B41J 2/175
B41J 31/00
(11) EP4259443
(21) EP21839093.8
(47) 29.01.2025
(87) EP2021085543
23.06.2022
(22) 13.12.2021
(54) THERMAL PRINTING APPARATUS COMPRISING A COOLER
(73) Armor
(72) VERDYCK, Dirk
CHARRIER, Maxime
(31) 20213819
(32) 14.12.2020
(33) European Patent Office (EPO)

(51) B41J 2/325
B41J 2/175
B41J 31/00
(11) EP4259445
(21) EP21839409.6
(47) 29.01.2025
(87) EP2021085518
23.06.2022
(22) 13.12.2021
(54) COATING MODULE FOR COATING A THIN LAYER OF INK ON A RIBBON
(73) Armor
(72) SAURER, Alain
FERCHAUD, Benjamin
CRONE, Klaus Peter
MEIENBERGER, Marc
SCHNEEBERGER, Niklaus
THOMET, Manuel
(31) 20213814
(32) 14.12.2020
(33) European Patent Office (EPO)

(51) B41J 3/36
(11) EP4149766
(21) EP21732808.7
(47) 29.01.2025
(87) EP2021062843
18.11.2021
(22) 14.05.2021
(54) DEVICE FOR GUIDING A PRINTER
(73) COLOP Digital GmbH
(72) HEINL, Cedric
(31) 20174598
(32) 14.05.2020
(33) European Patent Office (EPO)

(51) B41J 11/04
B41J 29/13
B41J 3/407
(11) EP4249276
(21) EP21894531.9
(47) 29.01.2025
(87) JP2021041326
27.05.2022
(22) 10.11.2021
(54) PRINTER
(73) Sato Holdings Kabushiki Kaisha
(72) SHIMIZU, Takayoshi
HOSHI, Kazuyuki
(31) 2020191930
(32) 18.11.2020
(33) Japan

(51) B41J 11/46
B41J 15/04
B41J 29/393
B41J 11/00
B41J 2/21
B41J 29/38
(11) EP3798011
(21) EP20198558.7
(47) 29.01.2025
(22) 25.09.2020
(54) PRINT APPARATUS, METHOD FOR CONTROLLING THE SAME, AND STORAGE MEDIUM
(73) Seiko Epson Corporation
(72) MIZUSAWA, Nobutada
(31) 2019176764
(32) 27.09.2019
(33) Japan

(51) B41J 11/70
B26D 1/02
B26D 1/06
B26D 5/28
B26D 1/00
B41J 3/407
(11) EP4389440
(21) EP23217367.4
(47) 29.01.2025
(22) 15.12.2023
(54) PRINTER
(73) Fujitsu Component Limited
(72) ISHIKAWA, Tetsuhiro
TAKAMURA, Youichi
YADA, Yuji
OGUCHI, Tatsuya
KUBOTA, Takeshi
(31) 2022204598
(32) 21.12.2022
(33) Japan

(51) B41J 15/00
B41J 2/155
B41J 2/515
B41J 2/21
B41M 5/00
B41J 11/00
B65D 75/00
B65D 71/08
B41F 19/00
B65B 61/26
B65B 61/02
B41J 3/407
B41J 15/04
B41J 25/00
B41M 3/00
(11) EP4117928
(21) EP21715727.0
(47) 29.01.2025
(87) US2021021842
16.09.2021
(22) 11.03.2021
(54) SYSTEM AND METHOD FOR PRINTING ON A CLEAR POLYMERIC FILM WEB
(73) Cryovac, LLC
(72) HOOK, Kevin John
CYMAN, Theodore F.
MURZYNOWSKI, Alan Ronald
ROCCO, Frank J.
CONIGLIO, Paul
(31) 202062988467 P
(32) 12.03.2020
(33) United States of America

(51) B41J 15/04
B41J 17/02
B41J 17/32
B65H 16/06
B41J 11/00
(11) EP4023453
(21) EP20873007.7

(47) 29.01.2025
(87) JP2020034865
08.04.2021
(22) 15.09.2020
(54) PRINTING CASSETTE
(73) BROTHER KOGYO KABUSHIKI KAISHA
(72) MURAYAMA Kentaro
(31) 2019178430
(32) 30.09.2019
(33) Japan

(51) B41J 25/34
B41J 25/312
B41J 2/32
B41J 3/407
(11) EP4249267
(21) EP21894536.8
(47) 29.01.2025
(87) JP2021041360
27.05.2022
(22) 10.11.2021
(54) PRINTER AND METHOD FOR REPLACING PRINTING HEAD OF PRINTER
(73) Sato Holdings Kabushiki Kaisha
(72) HOSHI, Kazuyuki
SHIOYA, Takashi
(31) 2020191562
(32) 18.11.2020
(33) Japan

(51) B41J 29/54
B41J 29/13
B41J 11/70
B41J 15/04
B41J 3/407
(11) EP4249273
(21) EP21894538.4
(47) 29.01.2025
(87) JP2021041366
27.05.2022
(22) 10.11.2021
(54) PRINTER
(73) Sato Holdings Kabushiki Kaisha
(72) SHIOYA, Takashi
HOSHI, Kazuyuki
(31) 2020191595
(32) 18.11.2020
(33) Japan

(51) B42D 25/30
B42D 25/324
B42D 25/342
B42D 25/351
B42D 25/355
B42D 25/425
B42D 25/45
(11) EP3356156
(21) EP16777747.3
(47) 29.01.2025
(87) GB2016053000
06.04.2017
(22) 27.09.2016
(54) SECURITY DEVICE
(73) De La Rue International Limited
(72) GODFREY, John
(31) 201517401
(32) 02.10.2015
(33) United Kingdom

(51) B42D 25/305
B42D 25/318
B42D 25/324
B42D 25/351
B42D 25/373
B42D 25/425
B42D 25/455
B42D 25/46
(11) EP4153433
(21) EP21733482.0
(47) 29.01.2025
(87) FR2021000054
25.11.2021
(22) 19.05.2021
(54) SECURITY DOCUMENT PROVIDED WITH A TRANSPARENT WINDOW
(73) Imprimerie Nationale
(72) MICHAU, Pascal-daniel
(31) 2005198
(32) 20.05.2020
(33) France

(51) B42D 25/324
B42D 25/328
B42D 25/36
B42D 25/378
B42D 25/425
B42D 25/455
B42D 25/47
(11) EP4240595
(21) EP21811418.9
(47) 29.01.2025
(87) FR2021051949
12.05.2022
(22) 04.11.2021
(54) METHOD FOR PRODUCING A SECURITY DOCUMENT
(73) Banque De France
(72) BARATS, Michel
CHIKHA, Khalil
(31) 2011403
(32) 06.11.2020
(33) France

(51) B42D 25/337
B42D 25/305
B41M 3/14
G06T 1/00
H04N 1/00
H04N 1/32
G06K 19/06
(11) EP4360900
(21) EP23020281.4
(47) 29.01.2025
(22) 07.06.2023
(54) A METHOD FOR SECURING A DATA CARRIER
(73) Polska Wytwornia Papierow Wartosciowych S.A.
(72) Dymala, Piotr
(31) 44141822
(32) 08.06.2022
(33) Poland

(51) B42D 25/41
B42D 25/351
B42D 25/45
(11) EP3842255
(21) EP20215947.1
(47) 29.01.2025
(22) 21.12.2020
(54) METHOD FOR MANUFACTURING A SAFETY DEVICE WITH OPTICAL VARIABILITY AND ASSOCIATED SAFETY DEVICE
(73) IDEMIA France
(72) MOREL, Yvonnic
AZUELOS, Paul
(31) 1915586
(32) 24.12.2019
(33) France

(51) B42D 25/41
B42D 25/435
B42D 25/455
B42D 25/46
B42D 25/485
B42D 25/324
B42D 25/346
B42D 25/351
B42D 25/23
(11) EP3900944
(21) EP21169495.5
(47) 29.01.2025
(22) 20.04.2021
(54) METHOD FOR MARKING BY MEANS OF LASER PULSES
(73) Bundesdruckerei GmbH
(72) Bielesch, Ulrich
Rötzer, Martin
Kramer, Thomas
(31) 102020111140
(32) 23.04.2020
(33) Germany

(51) B42D 25/485
B42D 25/305
B42D 25/23
G06K 15/02
G06K 19/00
(11) EP4246373
(21) EP23183050.6
(47) 29.01.2025
(22) 06.08.2021
(54) PRODUCING DOCUMENT TEMPLATES HAVING SECURITY FEATURES
(73) Bundesdruckerei GmbH
(72) KNEBEL, Michael
GRIESER, Ralf
KRÜGER, Per
(31) 102020120842
(32) 07.08.2020
(33) Germany

(51) B44C 1/17
(11) EP4230428
(21) EP23175665.1
(47) 29.01.2025
(22) 20.04.2018
(54) HOT-STAMPING FOIL
(73) TOPPAN INC.
(72) YAMAMOTO, Hanako
(31) 2017084548
(32) 21.04.2017
(33) Japan

(51) B44C 5/04
B44F 1/06
B44F 1/02
B05D 5/02
C08J 7/04
C08J 7/046
B32B 27/30
B32B 3/30
B32B 27/00

B05D 3/02
B05D 3/06
(11) EP4101640
(21) EP21914998.6
(47) 29.01.2025
(87) JP2021041624
07.07.2022
(22) 11.11.2021
(54) DECORATIVE SHEET AND METHOD FOR MANUFACTURING DECORATIVE SHEET
(73) TOPPAN INC.
(72) AKUTSU, Erika
(31) 2020218590
(32) 28.12.2020
(33) Japan

(51) B60C 1/00
B60C 11/00
(11) EP4178810
(21) EP21746075.7
(47) 29.01.2025
(87) FR2021051194
13.01.2022
(22) 29.06.2021
(54) TYRE HAVING IMPROVED PROPERTIES OF ENDURANCE AND ROLLING RESISTANCE
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(72) FLEURY, Etienne
REHAB, Hichem
(31) 2007184
(32) 07.07.2020
(33) France

(51) B60C 1/00
B60C 11/00
(11) EP4178809
(21) EP21743225.1
(47) 29.01.2025
(87) FR2021051193
13.01.2022
(22) 29.06.2021
(54) TYRE HAVING IMPROVED ROLLING RESISTANCE PROPERTIES
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(72) FLEURY, Etienne
REHAB, Hichem
(31) 2007182
(32) 07.07.2020
(33) France

(51) B60C 1/00
C08C 19/22
C08C 19/25
C08C 19/44
C08F 236/06
C08F 236/10
C08L 15/00
(11) EP3877197
(21) EP19820831.6
(47) 29.01.2025
(87) FR2019052641
14.05.2020
(22) 07.11.2019
(54) RUBBER COMPOSITION BASED ON A MODIFIED DIENE ELASTOMER
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(72) CHATARD, Julien
ROOS, Kevin
GADENNE, Benoît
DIRE, Charlotte
DE-GAUDEMARIS, Benoît
(31) 1860302
(32) 08.11.2018
(33) France

(51) B60C 1/00
C08C 19/22
C08C 19/25
C08C 19/44
C08F 236/06
C08F 236/10
C08L 15/00
(11) EP3877198
(21) EP19820832.4
(47) 29.01.2025
(87) FR2019052642
14.05.2020
(22) 07.11.2019
(54) RUBBER COMPOSITION BASED ON A MODIFIED DIENE ELASTOMER
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(72) DE-GAUDEMARIS, Benoît
ROOS, Kevin
GADENNE, Benôit
CHATARD, Julien
DIRE, Charlotte
(31) 1860303
(32) 08.11.2018
(33) France

(51) B60C 9/00
B60C 9/20
(11) EP4223557
(21) EP23154486.7
(47) 29.01.2025
(22) 01.02.2023
(54) MOTORCYCLE TIRE
(73) Sumitomo Rubber Industries, Ltd.
(72) ICHIRYU, Yutaka
(31) 2022018191
(32) 08.02.2022
(33) Japan

(51) B60C 9/22
(11) EP4180242
(21) EP22186993.6
(47) 29.01.2025
(22) 26.07.2022
(54) PNEUMATIC TIRE
(73) Sumitomo Rubber Industries, Ltd.
(72) INOUE, Manabu
(31) 2021185908
(32) 15.11.2021
(33) Japan

(51) B60C 11/03
B60C 11/13
(11) EP4151431
(21) EP22190082.2
(47) 29.01.2025
(22) 12.08.2022
(54) TIRE
(73) Sumitomo Rubber Industries, Ltd.
(72) NAKAJIMA, Koichi
(31) 2021152027
(32) 17.09.2021
(33) Japan

(51) B60C 11/12
(11) EP4263242
(21) EP21839915.2
(47) 29.01.2025
(87) EP2021085978
23.06.2022
(22) 15.12.2021
(54) TYRE TREAD WITH IMPROVED SIPE ON THREE LEVELS AND TYRE
(73) Bridgestone Europe NV/SA
(72) AGORETTI, Pasquale
TIRONE, Antonio
RODRIQUEZ, Giuseppe
(31) 202000031364
(32) 18.12.2020
(33) Italy

(51) B60C 13/00
(11) EP4234278
(21) EP22215014.6
(47) 29.01.2025
(22) 20.12.2022
(54) TIRE
(73) Sumitomo Rubber Industries, Ltd.
(72) NAKAJIMA, Koichi
KAWAGOE, Yoshifumi
(31) 2022026993
(32) 24.02.2022
(33) Japan

(51) B60C 15/02
(11) EP4253095
(21) EP23158458.2
(47) 29.01.2025
(22) 24.02.2023
(54) MOTORCYCLE TIRE
(73) Sumitomo Rubber Industries, Ltd.
(72) TOCHIKI, Yuki
(31) 2022054772
(32) 30.03.2022
(33) Japan

(51) B60C 17/06
B60C 7/10
B60C 5/00
(11) EP4155097
(21) EP22196147.7
(47) 29.01.2025
(22) 16.09.2022
(54) TIRE INSERT AND VEHICLE WHEEL COMPRISING SAID INSERT
(73) Gnali, Oscar Ettore
(72) Gnali, Oscar Ettore
(31) 202100024558
(32) 24.09.2021
(33) Italy

(51) B60C 17/06
B60C 7/10
B60C 7/12
(11) EP4271578
(21) EP21845111.0
(47) 29.01.2025
(87) IB2021062419
07.07.2022
(22) 29.12.2021
(54) MODULE IN EXPANDED ELASTOMERIC MATERIAL FOR FILLING A TIRE OF A CYCLE OR MOTORCYCLE

(73) MrWolf S.r.l.
(72) INTERNÒ, Tiziano
(31) 202000032705
(32) 29.12.2020
(33) Italy

(51) B60C 23/04
(11) EP4037921
(21) EP20771217.5
(47) 29.01.2025
(87) EP2020074280
08.04.2021
(22) 01.09.2020
(54) METHOD FOR STORING TYRE PRESSURE VALUES AND TYRE TEMPERATURE VALUES OF VEHICLE TYRES
(73) Continental Reifen Deutschland GmbH
(72) LEHMANN, Joerg
SAHLMÜLLER, Baldo
MENZ, Rüdiger
(31) 102019215109
(32) 01.10.2019
(33) Germany

(51) B60C 23/18
F16D 55/36
F16D 65/78
F16D 65/847
(11) EP4289636
(21) EP22461567.4
(47) 29.01.2025
(22) 08.06.2022
(54) HEAT SHIELD PANEL RETAINER
(73) Goodrich Corporation
(72) ZUK, Bartlomiej
HERRMANN, Nathaniel
Sokolowski, Marcin
STEVENSON, John A.

(51) B60C 29/00
F16K 15/20
B60C 23/04
F16K 27/02
F16K 24/06
B60C 29/06
(11) EP3984787
(21) EP19932997.0
(47) 29.01.2025
(87) CN2019094865
17.12.2020
(22) 05.07.2019
(54) MULTIFUNCTIONAL EXTERNAL INFLATING VALVE AND MOUNTING METHOD FOR LOADING DEVICE OF INFLATING VALVE
(73) Hamaton Automotive Technology Co., Ltd.
(72) ZHU, Baoer
ZHANG, Jianer
(31) 201910499390
(32) 11.06.2019
(33) China

(51) B60D 1/06
B60D 1/54
(11) EP4108481
(21) EP22180734.0
(47) 29.01.2025
(22) 23.06.2022
(54) TOWING DEVICE
(73) MVG Metallverarbeitungsgesellschaft mbH
(72) Michels, Max
Gardenier, Maurice
(31) 102021116185
(32) 23.06.2021
(33) Germany

(51) B60D 5/00
(11) EP4091845
(21) EP22173027.8
(47) 29.01.2025
(22) 12.05.2022
(54) DEVICE FOR CONNECTING A FIRST AND A SECOND UNIT OF AN ARTICULATED VEHICLE
(73) P.E.I. Protezioni Elaborazioni Industriali S.r.l.
(72) MERCANTINI, Matteo
BENEDETTI, Michele
(31) 202100013043
(32) 20.05.2021
(33) Italy

(51) B60G 7/00
B60G 7/02
B60G 9/00
B60G 11/27
B60G 11/46
F16F 1/30
(11) EP4263250
(21) EP21840021.6
(47) 29.01.2025
(87) EP2021086743
30.06.2022
(22) 20.12.2021
(54) TRAILING ARM ASSEMBLY
(73) VDL Weweler B.V.
(72) SCHRIER, Tom
(31) 2027187
(32) 21.12.2020
(33) Netherlands

(51) B60H 1/00
(11) EP4271580
(21) EP21839419.5
(47) 29.01.2025
(87) EP2021085664
23.06.2022
(22) 14.12.2021
(54) HEAT EXCHANGE SYSTEM, HVAC-SYSTEM AND VEHICLE
(73) Lightyear IPCo B.V.
(72) VAN DER GOES, Kjell
(31) 2027099
(32) 14.12.2020
(33) Netherlands

(51) B60H 1/00
B60H 1/32
(11) EP4039513
(21) EP22155653.3
(47) 29.01.2025
(22) 08.02.2022
(54) UNIFIED COOLING UNIT WITH MODULAR STRUCTURE
(73) Courage Technologies S.L.
(72) CLEMENTE ROIG, JUAN LUIS
MAGRANER BENEDICTO, JUAN JOSE
ROIG BAYARRI, CARMEN
CLIMENT LOPEZ, RUBEN
(31) 202230169 U
202100052 U
(32) 03.02.2022
09.02.2021
(33) Spain
Spain

(51) B60H 1/00
B60H 1/32
B60L 1/00
B60L 3/00
B60L 58/24
B60L 58/26
B61D 27/00
B61C 3/02
(11) EP4054887
(21) EP20824130.7
(47) 29.01.2025
(87) EP2020084220
24.06.2021
(22) 02.12.2020
(54) RAIL VEHICLE HAVING A COOLING AND AIR CONDITIONING ASSEMBLY
(73) Siemens Mobility GmbH
(72) BRENDEL, Thomas
(31) 102019220400
(32) 20.12.2019
(33) Germany

(51) B60H 1/32
B61D 27/00
B60H 1/00
(11) EP4074529
(21) EP21747324.8
(47) 29.01.2025
(87) JP2021003595
05.08.2021
(22) 01.02.2021
(54) AIR CONDITIONING DEVICE FOR VEHICLE
(73) Mitsubishi Heavy Industries Thermal Systems, Ltd.
(72) NAKADO Koji
OHTA Masahiro
KOBAYASHI Takayuki
TANABE Hirotaka
HASE Tomoki
TATENOI Hideaki
(31) 2020015517
(32) 31.01.2020
(33) Japan

(51) B60J 5/12
B60P 3/42
B62D 47/00
(11) EP4072879
(21) EP19836521.5
(47) 29.01.2025
(87) IB2019060686
17.06.2021
(22) 12.12.2019
(54) VEHICLE TRUNK WITH TWO FOLDS UPPER LID
(73) Stellantis Auto SAS
(72) BLOSSIER, Jean Emmanuel
WANG, Ziye
WANG, Wei
XING, Xiaomin
ZHU, Yi

(51) B60K 1/00
B60K 1/02
B60K 17/36

B60B 35/12
B60B 35/14
B60B 35/16
F16H 3/091
F16H 3/093
(11) EP4234298
(21) EP23168049.7
(47) 29.01.2025
(22) 19.02.2019
(54) AXLE ASSEMBLY FOR FRAME RAIL VEHICLES
(73) Allison Transmission, Inc.
(72) BAILLIE, Christopher G.
MEPHAM, Shaun
MUPPARTI, Siva Srinivas Rajeev
CHOPRA, Vikram
(31) 201862682679 P
201862639355 P
201862632184 P
201862632214 P
201862632224 P
(32) 08.06.2018
06.03.2018
19.02.2018
19.02.2018
19.02.2018
(33) United States of America
United States of America
United States of America
United States of America
United States of America

(51) B60K 1/00
B60K 17/22
B60K 17/344
B60K 17/356
H01M 10/0525
H01M 50/244
B66F 9/075
B66F 9/065
B60K 1/04
H01M 50/249
(11) EP4373778
(21) EP22740928.1
(47) 29.01.2025
(87) EP2022069356
26.01.2023
(22) 11.07.2022
(54) WORKING MACHINE INCLUDING BATTERY ELEMENTS
(73) MANITOU BF
(72) POUSSET, Alexis
BROCHARD, François
BESSEAU, Maurice
(31) 2107831
2107830
(32) 20.07.2021
20.07.2021
(33) France
France

(51) B60K 1/04
B60K 15/03
B66F 3/40
B66F 3/00
B65G 7/00
B65G 7/02
B65G 7/06
(11) EP3981629
(21) EP20200341.4
(47) 29.01.2025
(22) 06.10.2020
(54) A METHOD FOR MOVING A HEAVY OBJECT
(73) VOLVO TRUCK CORPORATION
(72) KARLSSON, Viktor
BJÖRKMAN, Gunnar

(51) B60K 1/04
B60L 53/80
H01M 50/244
H01M 50/249
F16B 5/02
F16B 37/04
F16B 35/04
(11) EP4177091
(21) EP21948707.1
(47) 29.01.2025
(87) CN2021119184
23.03.2023
(22) 17.09.2021
(54) QUICK SWAP LOCK ASSEMBLY AND LOCKING APPARATUS USING SAID ASSEMBLY
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) WU, Yuanhe
ZHANG, Wenhui
YOU, Shubing
HUANG, Haihua

(51) B60K 1/04
B62K 11/06
B62K 11/10
(11) EP3710297
(21) EP18800618.3
(47) 29.01.2025
(87) EP2018080731
23.05.2019
(22) 09.11.2018
(54) BATTERY MODULE HOUSING AND VEHICLE
(73) Jaguar Land Rover Limited
(72) TRUMAN, Mark
(31) 201719049
(32) 17.11.2017
(33) United Kingdom

(51) B60K 6/387
B60K 6/48
B60K 6/547
B60W 10/11
B60W 10/18
B60W 20/16
B60W 30/02
B60W 30/18
(11) EP4257397
(21) EP23163737.2
(47) 29.01.2025
(22) 23.03.2023
(54) VEHICLE GEAR-SHIFTING CONTROL APPARATUS, AND VEHICLE
(73) MAZDA MOTOR CORPORATION
(72) YAMADA, Makoto
KADO, Taiki
UEMATSU, Tooru
HIGO, Kiminori
YAMASAKI, Atsushi
EJIRI, Keita
(31) 2022062938
(32) 05.04.2022
(33) Japan

(51) B60K 6/52
B60K 6/38
B60W 50/00
B60K 6/48
B60K 6/442
B60K 17/34
B60W 20/30
B60W 20/11
B60W 20/20
B60W 10/06
B60W 10/08
B60W 10/14
B60W 10/02
B60W 30/182
B60K 6/383
B60K 6/365
B60K 6/387
B60K 6/405
B60K 6/485
B60K 6/448
(11) EP4112352
(21) EP22169982.0
(47) 29.01.2025
(22) 26.04.2022
(54) VEHICLE DRIVE DEVICE AND CONTROL METHOD THEREFOR
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) OKUDA, Koichi
TABATA, Atsushi
TAKAIRA, Koji
IMAMURA, Tatsuya
HABATA, Yohei
(31) 2021107131
(32) 28.06.2021
(33) Japan

(51) B60K 6/52
B60K 6/48
B60K 17/344
B60K 6/387
B60K 6/365
B60K 23/08
B60K 6/442
(11) EP4215393
(21) EP22198911.4
(47) 29.01.2025
(22) 30.09.2022
(54) POWER-SPLIT AXLE DRIVE AND AGRICULTURAL VEHICLE
(73) Deere & Company
(72) Botev, Decho
Letscher, Jens
Flemming, Axel
(31) 102022101166
22152192
(32) 19.01.2022
19.01.2022
(33) Germany
European Patent Office (EPO)

(51) B60K 7/00
B62D 21/00
B60G 11/58
B60K 1/02
(11) EP4094966
(21) EP20917253.5
(47) 29.01.2025
(87) JP2020045615
05.08.2021

(22) 08.12.2020
(54) ELECTRIC TRUCK
(73) Daimler Truck AG
(72) THIMMAIYAN, Pradeep Kumar
SURYANARAYANAN, Karthikeyan
CAKMAZ, Aydogan
PREMKUMAR, Karthikeyan
MURUGAN, Gopinath
SAXENA, Manish
(31) 2020010656
(32) 27.01.2020
(33) Japan

(51) B60K 15/03
(11) EP4263258
(21) EP21840511.6
(47) 29.01.2025
(87) EP2021086130
23.06.2022
(22) 16.12.2021
(54) STIFFENING ELEMENT FOR A LIQUID CONTAINER, LIQUID CONTAINER FOR A MOTOR VEHICLE WITH A STIFFENING ELEMENT AND PRODUCTION METHOD FOR A LIQUID CONTAINER HAVING A STIFFENING ELEMENT
(73) Kautex Textron GmbH & Co. KG
(72) QUANT, Frank
GEBERT, Klaus
MARX, Daniel
LORENZ, Harald
(31) 102020133769
(32) 16.12.2020
(33) Germany

(51) B60K 15/067
B60K 15/063
(11) EP4238800
(21) EP22208287.7
(47) 29.01.2025
(22) 18.11.2022
(54) SUSPENSION ARRANGEMENT FOR SUSPENDING A CONTAINER TO A VEHICLE
(73) Dantank A/S
(72) RØGE, Torben Jacob
SØRENSEN, Poul Ole
(31) PA202270088
(32) 04.03.2022
(33) Denmark

(51) B60K 25/02
B60K 6/20
B60K 6/26
B60K 6/48
F02B 67/06
F02N 11/00
F02N 11/04
F02N 15/02
F02N 15/08
F16H 7/00
(11) EP4072888
(21) EP20838291.1
(47) 29.01.2025
(87) IB2020061848
17.06.2021
(22) 11.12.2020
(54) POWERTRAIN FOR A MOTOR VEHICLE AND CONTROL METHOD THEREOF
(73) Muviq S.r.l.
(72) PENNAZZA, Mario
BOEHM, Olivier
(31) 201900023805
(32) 12.12.2019
(33) Italy

(51) B60K 35/00
G02B 27/01
G01C 21/36
G08G 1/16
G08G 1/0962
G08G 1/0968
B60K 35/23
B60K 35/28
(11) EP3978294
(21) EP21195605.7
(47) 29.01.2025
(22) 08.09.2021
(54) HEAD-UP DISPLAY DEVICE AND METHOD FOR OPERATING A HEAD-UP DISPLAY DEVICE
(73) VOLKSWAGEN AG
(72) Kunze, Dr. Alexander
Wuttke, Ulrich
(31) 102020212412
(32) 30.09.2020
(33) Germany

(51) B60K 35/233
B60K 35/28
B60K 35/81
G01C 21/36
G02B 27/01
G06T 11/60
(11) EP3967538
(21) EP21194094.5
(47) 29.01.2025
(22) 31.08.2021
(54) METHOD FOR DEPICTING A VIRTUAL ELEMENT
(73) VOLKSWAGEN AG
(72) Kunze, Alexander
Sadovitch, Vitalij
Tebaibi, Yannis
Sandbrink, Johanna
(31) 102020211301
(32) 09.09.2020
(33) Germany

(51) B60L 50/51
B60L 50/61
(11) EP4275946
(21) EP23162135.0
(47) 29.01.2025
(22) 15.03.2023
(54) MOBILE WORKING MACHINE, IN PARTICULAR WHEEL LOADER, WITH TWO ELECTRIC MOTORS
(73) Weidemann GmbH
(72) GEIGER, Tom
KREISELT, Marcus
(31) 102022111729
(32) 11.05.2022
(33) Germany

(51) B60L 53/68
B60L 58/16
G06Q 10/063
G06Q 10/20
G06Q 30/012
G06Q 40/08
B60L 53/66
B60L 58/12
G01R 31/367
G01R 31/392
G06Q 30/02
G06Q 50/04
(11) EP4060599
(21) EP21818347.3
(47) 29.01.2025
(87) KR2021006896
09.12.2021
(22) 02.06.2021
(54) BATTERY SERVICE PROVIDING SYSTEM AND METHOD
(73) LG Energy Solution, Ltd.
(72) KIM, Jin-Suk
AHN, Hyoung Jun
KIM, Hyun
KIM, Dong-Myung
KIM, Hyung-Sik
(31) 20200066164
(32) 02.06.2020
(33) Korea (Republic)

(51) B60L 53/80
B62M 6/90
B62J 43/16
B62J 43/28
B62J 9/14
(11) EP4334165
(21) EP22718810.9
(47) 29.01.2025
(87) IB2022053683
10.11.2022
(22) 20.04.2022
(54) ELECTRIC OR HYBRID RIDEABLE SADDLE VEHICLE COMPRISING AN EXTRACTABLE RECHARGEABLE BATTERY AND A BATTERY LOCKING DEVICE
(73) Piaggio & C. SpA
(72) CUTRI', Niccolò
GUIDI, Emiliano
(31) 202100011432
(32) 05.05.2021
(33) Italy

(51) B60L 58/22
G01R 31/54
H01M 10/48
(11) EP3812784
(21) EP19306373.2
(47) 29.01.2025
(22) 23.10.2019
(54) SYSTEMS AND METHODS INVOLVING MEASUREMENT OF BATTERY CELLS
(73) NXP USA, Inc.
(72) CASSAGNES, Thierry Dominique Yves
MALLARD, Thomas
DIETSCH, Jérôme

(51) B60M 1/02
B60M 1/30
B60L 53/12
(11) EP4129754
(21) EP22196790.4
(47) 29.01.2025
(22) 28.03.2017
(54) METHOD AND ELECTRIC ROAD SYSTEM FOR ENABLING ELECTRICAL

POWER DELIVERY TO VEHICLES DURING TRAVEL
(73) Elonroad AB
(72) SÖRENSEN, Andreas
ZETHRAEUS, Dan
(31) 1650404
(32) 29.03.2016
(33) Sweden

(51) B60N 2/02
B60N 2/01
B60N 3/00
B60N 2/75
B60R 21/231
B60R 11/00
(11) EP4045355
(21) EP20792597.5
(47) 29.01.2025
(87) EP2020078655
22.04.2021
(22) 12.10.2020
(54) VEHICLE CONSOLE SYSTEM AND MOTOR VEHICLE
(73) VOLKSWAGEN AKTIENGESELLSCHAFT
(72) HARTMANN, Stephan
HAHN, Janna
BORK, Simon
GOERGENS, René
SCHUR, Frank
(31) 102019215985
(32) 17.10.2019
(33) Germany

(51) B60N 2/08
B60N 2/07
(11) EP4108516
(21) EP22178894.6
(47) 29.01.2025
(22) 14.06.2022
(54) SEAT RAIL LOCKING DEVICE FOR VEHICLE
(73) Hyundai Transys Inc.
(72) KIM, Cheon
HWANG, Seong Jun
(31) 20210083323
(32) 25.06.2021
(33) Korea (Republic)

(51) B60N 2/22
(11) EP4292874
(21) EP23178600.5
(47) 29.01.2025
(22) 12.06.2023
(54) RECLINING SEAT
(73) Geven S.p.A.
(72) VENERUSO, Alberto
(31) 202200012446
(32) 13.06.2022
(33) Italy

(51) B60P 1/43
B60P 3/06
B60P 1/18
B62D 53/06
(11) EP4308416
(21) EP22719006.3
(47) 29.01.2025
(87) FI2022050164
22.09.2022
(22) 14.03.2022
(54) TRAILER
(73) Sleipner Finland Oy
(72) MIETTINEN, Joona
(31) 20215282
(32) 15.03.2021
(33) Finland

(51) B60P 3/20
B60K 1/00
B60K 1/04
B60K 25/00
(11) EP4122762
(21) EP21780362.6
(47) 29.01.2025
(87) JP2021013322
07.10.2021
(22) 29.03.2021
(54) ELECTRIC WORK VEHICLE
(73) Daimler Truck AG
(72) TAKAGUCHI, Hidehiko
MATSUMOTO, Katsuhiko
(31) 2020062204
(32) 31.03.2020
(33) Japan

(51) B60Q 1/04
F21S 41/20
B60R 19/50
(11) EP4281320
(21) EP21851969.2
(47) 29.01.2025
(87) FR2021052356
28.07.2022
(22) 16.12.2021
(54) OPTICAL UNIT WITH LENS DEFINED BY CONTROLLED BI-INJECTION FOR A VEHICLE
(73) Stellantis Auto SAS
(72) VIDEIRA, Filipe
ROYER, Guillaume
(31) 2100531
(32) 20.01.2021
(33) France

(51) B60Q 1/30
B60P 1/44
(11) EP4303075
(21) EP23179411.6
(47) 29.01.2025
(22) 15.06.2023
(54) LOADING TAILGATE FOR VEHICLES
(73) Palfinger Tail Lifts GmbH
(72) Larisch, Roman
(31) 102022121438
102022117109
(32) 24.08.2022
08.07.2022
(33) Germany
Germany

(51) B60Q 1/34
B60Q 11/00
H05B 45/14
H05B 45/58
(11) EP4077048
(21) EP20816202.4
(47) 29.01.2025
(87) EP2020084443
24.06.2021
(22) 03.12.2020
(54) VEHICLE HEADLAMP COMPRISING AN ELECTRONIC CIRCUIT SYSTEM
(73) ZKW Group GmbH
(72) GRAF, Harald
(31) 19216444
(32) 16.12.2019
(33) European Patent Office (EPO)

(51) B60R 1/00
(11) EP4173893
(21) EP22200338.6
(47) 29.01.2025
(22) 07.10.2022
(54) METHOD FOR PROVIDING A DISPLAY IN A MOTOR VEHICLE, AND MOTOR VEHICLE
(73) VOLKSWAGEN AG
(72) Hornung, Norman
(31) 102021212176
(32) 28.10.2021
(33) Germany

(51) B60R 3/00
(11) EP4267435
(21) EP21844233.3
(47) 29.01.2025
(87) EP2021086865
30.06.2022
(22) 20.12.2021
(54) AN INSTEP ENCLOSURE ARRANGEMENT FOR A CABIN OF A VEHICLE
(73) VOLVO TRUCK CORPORATION
(72) K S, Madhuchandra
M, Arvind
HEGDE, Gangubai
(31) 202041056143
(32) 23.12.2020
(33) India

(51) B60R 7/04
(11) EP4190639
(21) EP22210073.7
(47) 29.01.2025
(22) 29.11.2022
(54) VEHICLE INTERIOR ASSEMBLY WITH TAMBOUR DOOR
(73) Faurecia Interior Systems, Inc.
(72) REA, Julien
BALBUENA MÉNDEZ, Adrián
LECLERCQ, Maxime
PICCIN, Hugo
(31) 202117538112
(32) 30.11.2021
(33) United States of America

(51) B60R 7/04
B60N 3/02
B60R 21/02
B60R 11/00
(11) EP4034427
(21) EP20775837.6
(47) 29.01.2025
(87) EP2020075705
01.04.2021
(22) 15.09.2020
(54) ACTUATING HANDLE, COVER DEVICE AND STOWAGE COMPARTMENT, AND ALSO A MOTOR VEHICLE
(73) VOLKSWAGEN AKTIENGESELLSCHAFT
(72) REHLING, Peter
KESSLER, Jörn
(31) 102019214607
(32) 24.09.2019

(33) Germany

(51) B60R 9/042
B60R 9/052
B60R 9/08
(11) EP4247668
(21) EP21839708.1
(47) 29.01.2025
(87) SK2021050014
27.05.2022
(22) 18.11.2021
(54) MOVABLE TRANSVERSAL ROOF RACK
(73) Kurbel, Matej
(72) Kurbel, Matej
(31) SK
(32) 18.11.2020
(33) Slovakia

(51) B60R 11/02
B60R 13/02
B60R 11/00
(11) EP4237287
(21) EP21782567.8
(47) 29.01.2025
(87) EP2021076673
05.05.2022
(22) 28.09.2021
(54) TRIM FOR A WINDOW POST, AND ASSOCIATED MOTOR VEHICLE
(73) Renault s.a.s
(72) GALEA, Christophe
BLIN, Fabrice
(31) 2011028
(32) 29.10.2020
(33) France

(51) B60R 11/04
(11) EP4227164
(21) EP22156797.7
(47) 29.01.2025
(22) 15.02.2022
(54) A VEHICLE CAMERA ARRANGEMENT, A VEHICLE CAMERA MODULE AND A VEHICLE CAMERA MOUNTING BRACKET
(73) Magna Electronics Sweden AB
(72) HUBER, Morgan
ALM, Gustav

(51) B60R 11/04
(11) EP4190642
(21) EP22204051.1
(47) 29.01.2025
(22) 27.10.2022
(54) SENSOR DEVICE FOR FASTENING TO THE INTERIOR OF A VEHICLE WINDOW PANE
(73) Continental Automotive Technologies GmbH
(72) Miethig, Werner
Macovei, Paul Adrian
Giuchici, Marius
Granzow, Oliver
Griese, Oliver
(31) 102021213633
(32) 01.12.2021
(33) Germany

(51) B60R 11/04
B60R 11/00
(11) EP4242066
(21) EP23158171.1
(47) 29.01.2025
(22) 23.02.2023
(54) CAMERA MOUNT FOR ATTACHMENT TO A VEHICLE BODY
(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH
(72) SCHMIEDT, Stefan
BINDER, Klaus
MACKE, Wlodzimierz
STEHLIK, Ladislav
(31) 102022105241
(32) 07.03.2022
(33) Germany

(51) B60R 13/02
B32B 17/10
(11) EP4219244
(21) EP23161184.9
(47) 29.01.2025
(22) 13.09.2018
(54) VEHICLE INTERIOR SYSTEMS HAVING A CURVED COVER GLASS WITH IMPROVED IMPACT PERFORMANCE AND METHODS FOR FORMING THE SAME
(73) Corning Incorporated
(72) ZHANG, Chunhe
BLACK, Matthew Lee
CLEARY, Thomas Michael
SUN, Yawei
FENTON, Hope Marie
COLEMAN, Sean Patrick
KUMAR, Atul
KNICKERBOCKER, Ward Tyson
MOU, Jinfa
MERHY, Elias
(31) 201862672123 P
201762593553 P
201762558341 P
(32) 16.05.2018
01.12.2017
13.09.2017
(33) United States of America
United States of America
United States of America

(51) B60R 13/08
(11) EP4406784
(21) EP23153975.0
(47) 29.01.2025
(22) 30.01.2023
(54) SEALING ASSEMBLY FOR A TRUCK COMPRISING A MOVABLE CABIN
(73) VOLVO TRUCK CORPORATION
(72) EAKMBE, Gangaram Baliram
Vohra, Akansha

(51) B60R 16/03
G01C 21/36
G06F 1/32
G09G 5/00
(11) EP3558753
(21) EP17842413.1
(47) 29.01.2025
(87) DE2017000430
28.06.2018
(22) 20.12.2017
(54) LOW-ENERGY OPERATION OF MOTOR VEHICLE FUNCTIONS DURING THE OPERATION OF THE MOTOR VEHICLE
(73) Bayerische Motoren Werke Aktiengesellschaft
(72) FRANZE, Daniel
SPÖRLEIN, Georg
STRIEBEL, Reiner
REICHERT, Hans-Peter
(31) 102016015511
(32) 23.12.2016
(33) Germany

(51) B60R 16/033
H02J 7/00
H02J 7/10
H02J 9/00
B60R 16/03
(11) EP3995364
(21) EP20837217.7
(47) 29.01.2025
(87) JP2020021953
14.01.2021
(22) 03.06.2020
(54) BACKUP POWER SYSTEM
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) SETSU Yugo
ATAGO Katsunori
HIGASHIDE Takashi
HIRAGI Hisao
TANIDA Shinichi
KAGEYAMA Youichi
NISHINAKA Hiroki
TAKENAKA Kazuo
(31) 2019125987
(32) 05.07.2019
(33) Japan

(51) B60R 19/18
B60R 19/04
(11) EP4347320
(21) EP22721415.2
(47) 29.01.2025
(87) FR2022050655
01.12.2022
(22) 07.04.2022
(54) DEVICE FOR REINFORCING A BUMPER BEAM HAVING A HOLE FOR THE PASSAGE OF A TOWING SOCKET
(73) Stellantis Auto SAS
(72) ROYER, Guillaume
(31) 2105601
(32) 28.05.2021
(33) France

(51) B60R 19/18
B60R 19/34
(11) EP4389534
(21) EP22216186.1
(47) 29.01.2025
(22) 22.12.2022
(54) BUMPER ASSEMBLY WITH CROSS BEAM
(73) Benteler Automobiltechnik GmbH
(72) Tatarinov, Konstantin

(51) B60R 21/207
(11) EP4169777
(21) EP22203350.8
(47) 29.01.2025
(22) 24.10.2022

(54) AIRBAG DEVICE AND METHOD FOR MANUFACTURING THE SAME
(73) Autoliv Development AB
(72) SAKURAI, Tsutomu
TOCHIGI, Tomofumi
KOBAYASHI, Yuto
(31) 2021173550
(32) 23.10.2021
(33) Japan

(51) B60R 22/00
B60N 2/36
(11) EP4146508
(21) EP21726569.3
(47) 29.01.2025
(87) EP2021061899
11.11.2021
(22) 05.05.2021
(54) APPARATUS FOR RETAINING A SEAT BELT
(73) Jaguar Land Rover Limited
(72) LAMBERT, Mark
OZCAN, Zafer
CLEMENTS, William
(31) 202006639
(32) 05.05.2020
(33) United Kingdom

(51) B60R 22/18
B60R 22/22
F16G 11/02
(11) EP4257436
(21) EP22000096.2
(47) 29.01.2025
(22) 06.04.2022
(54) BELT LOCK CARRIER
(73) SZW Prophet GmbH
(72) Prophet, Jörg

(51) B60R 22/48
(11) EP4259492
(21) EP21815251.0
(47) 29.01.2025
(87) FR2021051977
23.06.2022
(22) 09.11.2021
(54) METHOD FOR CONTROLLING AN UNBUCKLED SEATBELT WARNING DEVICE
(73) Stellantis Auto SAS
(72) FERON, Stephane
LANTIN, Regis
ZAIDI, Fares
(31) 2013200
(32) 14.12.2020
(33) France

(51) B60S 1/08
B60S 1/56
B60S 1/58
B60R 1/04
B60R 1/08
B60R 1/26
(11) EP4279340
(21) EP23174283.4
(47) 29.01.2025
(22) 19.05.2023
(54) ELECTRONIC INNER MIRROR DEVICE, NOTIFICATION CONTROL METHOD THEREFOR, AND NOTIFICATION CONTROL PROGRAM THEREFOR
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) KANEUCHI, Naoki
(31) 2022083328
(32) 20.05.2022
(33) Japan

(51) B60T 1/10
B60T 17/22
B60T 8/44
B60T 8/88
(11) EP3707037
(21) EP18799495.9
(47) 29.01.2025
(87) EP2018080151
16.05.2019
(22) 05.11.2018
(54) SYSTEM AND METHOD IN CASE OF DEFECT VEHICLE BRAKE
(73) Robert Bosch GmbH
(72) CHUANG, Chi
IRWAN, Rosalin
LI, Qingyuan
(31) 201715808522
(32) 09.11.2017
(33) United States of America

(51) B60T 1/10
F16D 61/00
(11) EP4163163
(21) EP21200843.7
(47) 29.01.2025
(22) 05.10.2021
(54) ENERGY STORAGE SYSTEM AND COOLING ARRANGMENT FOR A VEHICLE AND METHODS
(73) VOLVO TRUCK CORPORATION
(72) BLANC, Ricard
ARYA, Pranav
TIBERI, Ubaldo

(51) B60T 7/08
G05G 1/00
(11) EP4029741
(21) EP22150630.6
(47) 29.01.2025
(22) 10.01.2022
(54) DRIVING ASSISTANCE APPARATUS
(73) MAZDA MOTOR CORPORATION
(72) Aoki, Masaaki
Maedo, Katsuhisa
Takenaka, Shigeru
Nakamoto, Kenichi
Yamasaki, Keiichi
Sakuragi, Yutaka
(31) 2021003546
(32) 13.01.2021
(33) Japan

(51) B60T 7/10
B60T 7/12
B60T 8/32
B60T 13/74
B60T 17/16
F16D 65/18
(11) EP4182192
(21) EP21743044.6
(47) 29.01.2025
(87) DE2021200091
20.01.2022
(22) 08.07.2021
(54) ELECTROMECHANICAL BRAKING DEVICE
(73) Continental Automotive Technologies GmbH
(72) BESIER, Marco
KIRCHER, Andreas
BÖHM, Jürgen
SCHIRLING, Andreas
JUNGBECKER, Johann
SCHACK, Peter
LINHOFF, Paul
(31) 102020208769
(32) 14.07.2020
(33) Germany

(51) B60T 13/74
(11) EP4245620
(21) EP22162522.1
(47) 29.01.2025
(22) 16.03.2022
(54) BRAKING SYSTEM, COMPUTER-IMPLEMENTED METHOD OF CONTROLLING A BRAKING SYSTEM OF A RAIL VEHICLE, COMPUTER PROGRAM AND NON-VOLATILE DATA CARRIER
(73) Dellner Bubenzer Aktiebolag
(72) PRIM, Viktor

(51) B60T 13/74
B60T 13/14
B60T 7/04
B60T 8/40
(11) EP4105093
(21) EP22174633.2
(47) 29.01.2025
(22) 20.05.2022
(54) BRAKE-BY-WIRE SYSTEM WITH PRESSURE BALANCED PSU PISTON
(73) BWI (Shanghai) Co., Ltd.
(72) CHAUMETTE, Pascal
LUO, Dongqiang
REUTER, David Fredrick
BORGEMENKE, Daniel Norbert
ZHAO, Xiaoxu
(31) 202111240577
202163192513 P
(32) 25.10.2021
24.05.2021
(33) China
United States of America

(51) B60T 17/08
B60T 17/16
(11) EP4292894
(21) EP22179131.2
(47) 29.01.2025
(22) 15.06.2022
(54) SPRING BRAKE ACTUATOR COMPRISING FLEXIBLE SEGMENTS FOR PROVIDING A SNAP-FIT CONNECTION, AND COMMERCIAL VEHICLE COMPRISING A RESPECTIVE SPRING BRAKE ACTUATOR
(73) ZF CV Systems Europe BV
(72) FLISEK, Filip

(51) B60T 17/16
B60T 15/04
F16D 65/28
F16D 121/04
F16D 127/06
F16D 129/02

(11) EP3700790
(21) EP18800051.7
(47) 29.01.2025
(87) EP2018079099
02.05.2019
(22) 24.10.2018
(54) ARRANGEMENT WITH A BRAKE FORCE GENERATOR AND METHOD FOR OPERATING A BRAKE FORCE GENERATOR
(73) KNORR-BREMSE Systeme für Schienenfahrzeuge GmbH
(72) HECHT, Ferdinand
AURICH, Stefan
ELSTORPFF, Marc-Gregory
(31) 102017125073
(32) 26.10.2017
(33) Germany

(51) B60T 17/22
B60T 8/1761
B60T 8/32
G01P 1/02
G01P 3/44
(11) EP4129784
(21) EP22187553.7
(47) 29.01.2025
(22) 28.07.2022
(54) ANTI-LOCK SENSOR RING
(73) Brembo North America, Inc.
(72) MARTIN, Colin
WYLIE, Sheldon
OLSON, Mark
STOICK, Christopher
THOMPSON, Kevin
(31) 202117392308
(32) 03.08.2021
(33) United States of America

(51) B60W 10/04
B60W 10/20
B60W 30/14
B60W 30/18
(11) EP3880529
(21) EP19805616.0
(47) 29.01.2025
(87) EP2019081313
22.05.2020
(22) 14.11.2019
(54) VEHICLE CONTROL SYSTEM AND METHOD
(73) Jaguar Land Rover Limited
(72) JARDINE, Fraser
(31) 201818525
(32) 14.11.2018
(33) United Kingdom

(51) B60W 30/02
(11) EP4166405
(21) EP21822776.7
(47) 29.01.2025
(87) CN2021099848
16.12.2021
(22) 11.06.2021
(54) METHOD AND APPARATUS FOR CONTROLLING INTERFERENCE TORQUE, CONTROLLER, DEVICE, PROGRAM, AND MEDIUM
(73) Great Wall Motor Company Limited
(72) WANG, Xiao
ZHANG, Lie
SUN, Yan
SHEN, Yazhou
ZHANG, Jie
ZHANG, Nan
SONG, Haijun
WANG, Hailan
(31) 202010536563
(32) 12.06.2020
(33) China

(51) B60W 30/095
B60W 50/14
B62D 15/02
G08G 1/16
(11) EP3658433
(21) EP18742966.7
(47) 29.01.2025
(87) EP2018068744
31.01.2019
(22) 11.07.2018
(54) PROXIMITY SENSING SYSTEMS AND THEIR CONTROL
(73) Jaguar Land Rover Limited
(72) AITIDIS, Ilias
(31) 201712004
(32) 26.07.2017
(33) United Kingdom

(51) B60W 40/08
B60W 30/14
B60W 30/17
B60W 10/06
B60W 10/184
B60W 10/20
B60W 30/18
(11) EP4206054
(21) EP20946539.2
(47) 29.01.2025
(87) JP2020032625
03.03.2022
(22) 28.08.2020
(54) DRIVING ASSISTANCE METHOD AND DRIVING ASSISTANCE DEVICE
(73) Nissan Motor Co., Ltd.
(72) CHO Kibum
KOBAYASHI Masahiro

(51) B60W 40/103
B60W 40/114
B60W 40/12
B60W 40/10
B60W 50/00
(11) EP4288315
(21) EP22709688.0
(47) 29.01.2025
(87) EP2022055054
06.10.2022
(22) 01.03.2022
(54) METHOD AND SYSTEM FOR DETERMINING OPERATING PERFORMANCE PARAMETERS OF A DEVICE
(73) Siemens Industry Software NV
(72) DIRICKX, Tom
RUGA, Ludovico
(31) 21165650
(32) 29.03.2021
(33) European Patent Office (EPO)

(51) B60W 40/114
B60W 40/109
B60W 50/00
B60W 30/12
B60W 50/04
B60W 50/02
(11) EP4037947
(21) EP20781008.6
(47) 29.01.2025
(87) EP2020077176
08.04.2021
(22) 29.09.2020
(54) CONTROL DEVICE FOR A SELF-DRIVING MOTOR VEHICLE
(73) Ampere SAS
(72) NAVAS MATOS, Francisco Martin
MILANES, Vicente
MAHTOUT, Imane
GONZALEZ BAUTISTA, David
(31) 1910913
(32) 02.10.2019
(33) France

(51) B60W 60/00
B60W 50/14
(11) EP4299399
(21) EP22181209.2
(47) 29.01.2025
(22) 27.06.2022
(54) METHOD FOR TRANSITIONING CONTROL OF A VEHICLE, DATA PROCESSING APPARATUS AND AUTONOMOUS DRIVING SYSTEM
(73) Volvo Car Corporation
(72) BROSTRÖM, Robert
AUSINSCH, Fredrik
WICKMAN, Casper
YUAN, Lingxi

(51) B61B 12/02
B61B 12/06
B61B 7/02
(11) EP4282729
(21) EP23174450.9
(47) 29.01.2025
(22) 22.05.2023
(54) SHOE ASSEMBLY FOR SUPPORTING AT LEAST A SUPPORTING CABLE OF AN AERIAL CABLE TRANSPORTATION SYSTEM, AERIAL CABLE TRANSPORTATION SYSTEM COMPRISING SUCH A SHOE ASSEMBLY AND METHOD FOR OPERATING SUCH AN AERIAL CABLE TRANSPORTATION SYSTEM
(73) LEITNER S.p.A.
(72) ERHARTER, Nikolaus
WURZER, Michael
PECHLANER, Alexander
(31) 202200010649
(32) 23.05.2022
(33) Italy

(51) B61D 3/10
B61D 13/00
B61D 17/22
(11) EP4299404
(21) EP23168743.5
(47) 29.01.2025
(22) 19.04.2023
(54) RAIL VEHICLE WITH CABLE CONNECTION
(73) Siemens Mobility GmbH
(72) Diekmann, Moritz

Dieckmann, Maik
(31) 102022206441
(32) 27.06.2022
(33) Germany

(51) B61D 23/02
B60R 3/02
(11) EP4164934
(21) EP21739588.8
(47) 29.01.2025
(87) EP2021067483
20.01.2022
(22) 25.06.2021
(54) RAIL VEHICLE COMPRISING AN EXTENDABLE STEP PLATFORM
(73) Siemens Mobility GmbH
(72) WITTENBERG, Thomas
(31) 102020208696
(32) 13.07.2020
(33) Germany

(51) B61F 5/30
B61F 5/52
(11) EP4263316
(21) EP21839481.5
(47) 29.01.2025
(87) EP2021085927
23.06.2022
(22) 15.12.2021
(54) ARRANGEMENT OF A KINEMATICS ASSEMBLY AND A SPRING LEVER FOR A BOGIE
(73) CRRC QINGDAO SIFANG CO., LTD.
CG Rail - Chinesisch-Deutsches Forschungs - Und Entwicklungszentrum Für Bahn - Und Verkehrstechnik Dresden GmbH
(72) WANG, Xiaoming
HAUSCHILD, Jonas
ZEIDLER, Florian
WANG, Song
SONG, Zhengyu
DING, Sansan
XIE, Jinlu
SOLTYSIAK, Stefan
HALATA, Maik
ULBRICHT, Andreas
IRMSCHER, Patrick
LIN, Haobo
ILLGNER, Jens
MARTIN, Bert
XIAO, Peng
HUFENBACH, Werner
SUN, Houli
(31) 102020133694
(32) 16.12.2020
(33) Germany

(51) B61G 3/20
(11) EP4183658
(21) EP22206201.0
(47) 29.01.2025
(22) 08.11.2022
(54) DEVICE FOR LOCKING / UNLOCKING OF A COUPLING OF A RAIL VEHICLE
(73) Faiveley Transport Schwab AG
(72) SCHÄFER, Tristan
FAAS, Stefan
(31) 0705752021
(32) 18.11.2021
(33) Switzerland

(51) B61G 5/04
H05B 3/16
(11) EP3950461
(21) EP19920871.1
(47) 29.01.2025
(87) KR2019003538
01.10.2020
(22) 27.03.2019
(54) COUPLER STRUCTURE FOR TRANSCONTINENTAL RAILROAD CARS
(73) Korea Railroad Research Institute
(72) PARK, Jung-Joon
MUN, Hyung-Suk

(51) B61K 9/08
B61L 23/04
B61D 15/12
(11) EP4015342
(21) EP21214075.0
(47) 29.01.2025
(22) 13.12.2021
(54) VEHICLE AND METHOD FOR INSPECTING A RAILWAY LINE
(73) RFI S.p.A.
(72) AVIZZANO, Carlo Alberto
ERMINI, Mirko
GONNELLI, Mirco
CUCCHIARA, Rita
FRISOLI, Antonio
TISENI, Luca
CALDERARA, Simone
GASPARINI, Riccardo
FEDELI, Eugenio
SATLER, Massimo
SOLAZZI, Massimiliano
LEONARDIS, Daniele
LABANCA, Giacomo
BORGHI, Guido
(31) 202000031499
(32) 18.12.2020
(33) Italy

(51) B61K 9/10
G01N 21/88
G01N 29/24
G01N 29/265
G01N 29/34
(11) EP4031432
(21) EP20925581.9
(47) 29.01.2025
(87) US2020063223
23.09.2021
(22) 04.12.2020
(54) ROLLING SEARCH UNIT FOR ULTRASONIC RAILROAD RAIL INSPECTION
(73) Sperry Rail, Inc.
(72) KOCUR, Jan
O'NEILL, John James
IORFINO, Anthony
(31) 202016863307
202062990805 P
(32) 30.04.2020
17.03.2020
(33) United States of America
United States of America

(51) B61L 25/02
(11) EP4011748
(21) EP21769044.5
(47) 29.01.2025
(87) CN2021102937
21.04.2022
(22) 29.06.2021
(54) TRAIN POSITION DETERMINATION AUXILIARY APPARATUS AND OPERATION METHOD THEREFOR
(73) CRSC Research & Design Institute Group Co., Ltd.
(72) ZHANG, Youbing
MENG, Fanyong
WANG, Jianmin
YU, Xiaona
ZHAO, Shanhe
CHEN, Zhiqiang
(31) 202011108440
(32) 16.10.2020
(33) China

(51) B61L 25/02
B61L 27/70
(11) EP3889001
(21) EP20167528.7
(47) 29.01.2025
(22) 01.04.2020
(54) METHOD FOR LOCATING A RAIL VEHICLE AND DEVICES FOR CARRYING OUT THE METHOD
(73) Siemens Mobility GmbH
(72) Stein, Fabrice
Kendelbacher, Detlef

(51) B62B 5/06
B62B 3/14
B62B 3/16
B62B 5/00
B62B 5/04
(11) EP3397538
(21) EP16882300.3
(47) 29.01.2025
(87) US2016066297
06.07.2017
(22) 13.12.2016
(54) CART AND DOLLY HANDLE WITH STACKING POSITION
(73) Orbis Corporation
(72) THOMPSON, Benjamin Joel
NUSSBAUM, Robert Guy
HOWE, Stephen Roland
(31) 201615375815
201562273829 P
201562273061 P
(32) 12.12.2016
31.12.2015
30.12.2015
(33) United States of America
United States of America
United States of America

(51) B62B 7/14
B62B 9/10
(11) EP4098514
(21) EP22184386.5
(47) 29.01.2025
(22) 22.02.2016
(54) BABY CARRIAGE WITH A COLLAPSIBLE CHILD SEAT
(73) CYBEX GmbH
(72) POS, Martin
(31) 102015102538
(32) 23.02.2015

(33) Germany

(51) B62D 1/181
F16H 57/04
F16H 25/24
(11) EP4230502
(21) EP22157933.7
(47) 29.01.2025
(22) 22.02.2022
(54) ADJUSTING DRIVE FOR A STEERING COLUMN AND STEERING COLUMN FOR A MOTOR VEHICLE
(73) thyssenkrupp AG
thyssenkrupp Presta Aktiengesellschaft
(72) Specht, Jean-Pierre
Huber, Sebastian

(51) B62D 5/09
B62D 5/32
B62D 5/093
(11) EP4311740
(21) EP22187131.2
(47) 29.01.2025
(22) 27.07.2022
(54) STEERING SYSTEM
(73) Danfoss Power Solutions ApS
(72) Sørensen, Ole Falck

(51) B62D 6/00
(11) EP4082874
(21) EP22165912.1
(47) 29.01.2025
(22) 31.03.2022
(54) STEERING CONTROL DEVICE
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
JTEKT CORPORATION
(72) AKATSUKA, Kosuke
YOSHIDA, Kenji
NAMIKAWA, Isao
KUDO, Yoshio
TAMAIZUMI, Terutaka
(31) 2021064974
(32) 06.04.2021
(33) Japan

(51) B62D 25/12
E05D 5/04
E05D 5/06
B60K 11/08
E05D 5/02
(11) EP4255794
(21) EP21820728.0
(47) 29.01.2025
(87) NL2021050738
16.06.2022
(22) 06.12.2021
(54) A MOTOR VEHICLE
(73) DAF Trucks N.V.
(72) VAN DEN BEUCKEN, Gerardus Theodorus Aldegonda
KLEES, Frans
SINTENIE, Sjoerd Jacco
(31) 2027057
(32) 07.12.2020
(33) Netherlands

(51) B62D 33/04
B65D 90/02
B65D 90/08
(11) EP4217255
(21) EP21831098.5
(47) 29.01.2025
(87) HU2021050052
31.03.2022
(22) 22.09.2021
(54) SUPERSTRUCTURE, ESPECIALLY FOR GOODS VEHICLES WITH THERMALLY INSULATED LOAD SPACE, AND METHOD FOR THE MANUFACTURE OF SUCH SUPERSTRUCTURE
(73) Chris Columbus Kft.
(72) GYURCSIK, János
(31) 2000314
(32) 25.09.2020
(33) Hungary

(51) B62D 55/21
(11) EP3841001
(21) EP19762077.6
(47) 29.01.2025
(87) US2019047147
27.02.2020
(22) 20.08.2019
(54) FLANGED MASTER TRACK PIN WITH RETAINING RING
(73) Caterpillar Inc.
(72) HERBERS, Brice
(31) 201816108180
(32) 22.08.2018
(33) United States of America

(51) B62D 59/04
B60D 1/07
B60D 1/14
B60D 1/173
B60D 1/06
B62D 53/04
B62D 63/06
(11) EP4088954
(21) EP22172475.0
(47) 29.01.2025
(22) 10.05.2022
(54) DUAL USE TRAILER VEHICLE
(73) Plasan Sasa Ltd
(72) BEN SHOSHAN, Amir
ENGEL, Asaf
(31) 28307521
(32) 10.05.2021
(33) Israel

(51) B62J 17/02
(11) EP4361009
(21) EP23184662.7
(47) 29.01.2025
(22) 11.07.2023
(54) STRADDLED VEHICLE
(73) Yamaha Hatsudoki Kabushiki Kaisha
(72) Thanomsakcharn, Noppakhun
Kongnakorn, Unnop
Fujisaka, Masahiko
(31) 2022172147
(32) 27.10.2022
(33) Japan

(51) B62J 43/28
B62M 6/90
B62J 43/13
B62H 5/00
(11) EP4011754
(21) EP21213609.7
(47) 29.01.2025
(22) 10.12.2021
(54) EBIKE COMPRISING A 3-POSITION BATTERY LATCHING SYSTEM
(73) Specialized Bicycle Components, Inc.
(72) HUWILER, David
TALAVASEK, Jan
MEGEVAND, Rudy
LECHEVALLIER, Robin Francois Ramon
SONDEREGER, Marco Werner
DRAFFEHN, Daniel
(31) 202017118962
(32) 11.12.2020
(33) United States of America

(51) B62J 50/21
(11) EP4279368
(21) EP23173717.2
(47) 29.01.2025
(22) 16.05.2023
(54) A MOUNTING DEVICE
(73) Hulme, Alexander George
(72) Hulme, Alexander George
(31) 202207223
(32) 17.05.2022
(33) United Kingdom

(51) B62K 19/16
B62K 25/28
B29C 70/00
(11) EP4408728
(21) EP22857025.5
(47) 29.01.2025
(87) IB2022058915
06.04.2023
(22) 21.09.2022
(54) MOTORCYCLE REAR SWINGARM, MOTORCYCLE WITH SWINGARM AND MANUFACTURING METHOD
(73) PIAGGIO & C. S.p.A.
(72) AGUGGIARO, Andrea
(31) 202100025118
(32) 30.09.2021
(33) Italy

(51) B62K 21/26
(11) EP4253214
(21) EP23164250.5
(47) 29.01.2025
(22) 27.03.2023
(54) HANDGRIP WITH PROXIMITY SENSOR FOR MOTOR-DRIVEN VEHICLES
(73) brehmerinnovations B.V.
(72) Brehmer, Thomas
Schmidt, Moritz
(31) 102022107701
(32) 31.03.2022
(33) Germany

(51) B62K 25/04
B62K 25/30
F16F 9/02
(11) EP4332408
(21) EP23183966.3
(47) 29.01.2025
(22) 06.07.2023
(54) BICYCLE SHOCK ABSORBER STRUCTURE AND BICYCLE
(73) Giant Manufactoring Co., Ltd.
(72) SIE, Zong-Han
(31) 111125291
(32) 06.07.2022
(33) Taiwan, Chinese Taipei

(51) B62M 3/08
A43B 13/28
A43B 5/14
H01F 7/02
F16B 1/00
A43B 1/00
(11) EP3889023
(21) EP19889500.5
(47) 29.01.2025
(87) KR2019016461
04.06.2020
(22) 27.11.2019
(54) MOVABLE MAGNET TYPE BICYCLE PEDAL, AND SHOE COUPLING DEVICE EQUIPPED WITH MEANS FOR PREVENTING ATTACHMENT OF METAL POWDER
(73) Kim, Ji Heon
Kim, Ji Seong
Yoon, Kyeong Sook
Kim, Do Young
(72) Kim, Ji Seong
Yoon, Kyeong Sook
Kim, Ji Heon
Kim, Do Young
(31) 20190153689
20180152101
(32) 26.11.2019
30.11.2018
(33) Korea (Republic)
Korea (Republic)

(51) B62M 6/45
(11) EP4308443
(21) EP22710396.7
(47) 29.01.2025
(87) EP2022055617
22.09.2022
(22) 04.03.2022
(54) METHOD AND DEVICE FOR CONTROLLING THE WALK-ASSIST FUNCTION OF AN ELECTRIC BICYCLE
(73) Robert Bosch GmbH
(72) WEINMANN, Matthias
RECK, Joseph
(31) 102021202501
(32) 15.03.2021
(33) Germany

(51) B62M 27/02
B62D 11/04
B62D 63/02
B62D 11/00
B62D 61/00
B62D 55/06
B62D 55/084
(11) EP3802304
(21) EP19730731.7
(47) 29.01.2025
(87) EP2019065019
19.12.2019
(22) 07.06.2019
(54) A MOTORIZED SNOW OR ICE VEHICLE
(73) Bobsla GmbH
(72) SHCHTETININ, Vladimir
IGNATYEV, Sergey
(31) 600832018
(32) 10.06.2018
(33) Austria

(51) B63B 1/22
B63B 1/26
B63B 1/28
B63H 5/08
B63H 21/38
(11) EP4116180
(21) EP22183436.9
(47) 29.01.2025
(22) 06.07.2022
(54) BOAT
(73) Naeco S.r.l.
(72) NERI, Tiziano
NISINI, Eugenio
(31) 202100017726
(32) 06.07.2021
(33) Italy

(51) B63B 21/04
B66C 11/12
D07B 1/04
F16G 11/14
B66D 3/04
(11) EP3802308
(21) EP19718338.7
(47) 29.01.2025
(87) EP2019059758
14.11.2019
(22) 16.04.2019
(54) TOGGLE
(73) Carbo-Link AG
(72) WINISTÖRFER, Andreas
(31) 5802018
(32) 09.05.2018
(33) Switzerland

(51) B63B 27/10
B63B 77/00
B63B 35/00
E02B 17/00
(11) EP4359297
(21) EP23712230.4
(47) 29.01.2025
(87) EP2023056864
21.09.2023
(22) 17.03.2023
(54) A METHOD OF INSTALLING A MONOPILE IN A SEABED USING A TRANSPORTATION BARGE OR VESSEL
(73) TotalEnergies OneTech
(72) BOUNHOURE, François
(31) 22305322
(32) 18.03.2022
(33) European Patent Office (EPO)

(51) B63H 25/02
B63H 25/42
B63H 20/16
B63H 20/18
(11) EP4378817
(21) EP22211184.1
(47) 29.01.2025
(22) 02.12.2022
(54) METHOD FOR MANEOUVERING A BOAT PROVIDED WITH A SINGLE DRIVE UNIT
(73) Volvo Penta Corporation
(72) JOHANSSON, Lars
TELL, Johan

(51) B64C 1/00
(11) EP4291486
(21) EP22718117.9
(47) 29.01.2025
(87) EP2022057730
06.10.2022
(22) 24.03.2022
(54) LOAD-BEARING STRUCTURES
(73) Airbus Operations Limited
(72) IYENGAR, Parthasarathy
(31) 202104625
(32) 31.03.2021
(33) United Kingdom

(51) B64C 1/14
B64D 11/00
(11) EP4177156
(21) EP22205290.4
(47) 29.01.2025
(22) 03.11.2022
(54) AIRCRAFT CREW EGRESS HATCH ASSEMBLY, SYSTEM, AND METHOD
(73) The Boeing Company
(72) RHYNARD, STEVEN ELLIS
FRAKER, RANDALL VINCENT
FILES, JOE
KELEHER, Andrew P
LEBLANC, THOMAS LEONARD
(31) 202117517917
(32) 03.11.2021
(33) United States of America

(51) B64C 1/26
B64C 5/02
B64C 5/16
B64F 5/10
B64C 1/10
(11) EP4183678
(21) EP22207603.6
(47) 29.01.2025
(22) 15.11.2022
(54) SYSTEM AND METHOD FOR ASSEMBLING AN AFT FUSELAGE SECTION OF AN AIRCRAFT
(73) The Boeing Company
(72) DIEP, Paul B.
BREEDLOVE, Max Tyler
JOSEPH, Joel
ROSMAN, Richard R.
(31) 202117528247
(32) 17.11.2021
(33) United States of America

(51) B64C 3/18
(11) EP4085004
(21) EP20910803.4
(47) 29.01.2025
(87) JP2020049269
08.07.2021
(22) 28.12.2020
(54) HONEYCOMB CORE FOR A SPAR OF AN UNMANNED AERIAL VEHICLE
(73) SoftBank Corp.
(72) KENDALL Greg T.
(31) 202062975684 P
201962954981 P
(32) 12.02.2020
30.12.2019
(33) United States of America
United States of America

(51) B64C 7/00
B64C 9/00
B64C 9/18

(11) EP4063260
(21) EP22163395.1
(47) 29.01.2025
(22) 21.03.2022
(54) MOVABLE AERODYNAMIC SURFACE FOR AN AIRCRAFT
(73) Airbus Operations GmbH
(72) Büscher, Alexander
(31) 102021107280
(32) 23.03.2021
(33) Germany

(51) B64C 25/32
B64C 25/52
(11) EP4438473
(21) EP24151750.7
(47) 29.01.2025
(22) 15.01.2024
(54) ROTORCRAFT PROVIDED WITH A CELL SUPPORTED BY A LANDING GEAR WITH SKIDS WITH VARIABLE STRESS-RELIEVING ZONES
(73) Airbus Helicopters
(72) HONNORAT, Olivier
GENELOT, Nicolas
BENAUSSE, Jérôme
(31) 2303075
(32) 30.03.2023
(33) France

(51) B64C 25/42
B64C 25/36
F16D 65/847
F16D 65/78
B60B 7/01
B60T 5/00
(11) EP4263346
(21) EP21836578.1
(47) 29.01.2025
(87) EP2021086887
30.06.2022
(22) 20.12.2021
(54) AIRCRAFT WHEEL BRAKING DEVICE
(73) Safran Landing Systems
(72) HEUDE, Sébastien
MOLINE, Sylvain
MALADOT, Pierre
(31) 2013821
(32) 21.12.2020
(33) France

(51) B64C 27/12
B64D 35/00
B64D 41/00
F16D 65/18
F16D 63/00
B64C 27/14
B60K 17/26
F16D 13/02
F16D 55/02
(11) EP3964439
(21) EP21200950.0
(47) 29.01.2025
(22) 29.10.2019
(54) AIRCRAFT ENGINE WITH CLUTCH AND MECHANICAL LOCK
(73) PRATT & WHITNEY CANADA CORP.
(72) VILLENEUVE, Bruno
BERUBE, Stephane
(31) 201816173209
(32) 29.10.2018
(33) United States of America

(51) B64C 39/02
B64C 15/14
B64D 27/02
(11) EP4294723
(21) EP22706627.1
(47) 29.01.2025
(87) EP2022054231
25.08.2022
(22) 21.02.2022
(54) UNMANNED AERIAL VEHICLE WITH ENHANCED RELIABILITY AND METHOD OF CONTROLLING SUCH AN AIRCRAFT
(73) THALES
Issoire Aviation
(72) GUTIERREZ, Pierre
GUILLOUET, Eric
KLUR, Romain
MONIOT, Philippe
(31) 2101680
(32) 22.02.2021
(33) France

(51) B64C 39/02
B64U 50/30
B64D 45/00
B64U 101/20
B64U 101/64
(11) EP4223637
(21) EP23154042.8
(47) 29.01.2025
(22) 30.01.2023
(54) SYSTEMS AND METHODS FOR PRECISE VEHICLE LOCATOR
(73) Harris Global Communications, Inc.
(72) Howe, Thomas
Hendershot, Aaron
Nink, Richard J.
Packer, Malcom
Womack, Joel
Burke, Peter
(31) 202217665018
(32) 04.02.2022
(33) United States of America

(51) B64C 39/02
B64U 70/97
B64U 70/70
B64F 1/36
B64F 1/12
B64U 70/95
(11) EP4116193
(21) EP21764136.4
(47) 29.01.2025
(87) JP2021003523
10.09.2021
(22) 01.02.2021
(54) PASSIVE GUIDANCE MECHANISM AND FLYING OBJECT LANDING SYSTEM
(73) Tohoku University
(72) TADOKORO, Satoshi
OKADA, Yoshito
OHNO, Kazunori
WATANABE, Masahiro
FUJIKURA, Daiki
TADAKUMA, Kenjiro
(31) 2020037383
(32) 05.03.2020
(33) Japan

(51) B64C 39/02
G05D 1/00
B64U 30/12
B64U 30/296
B64U 70/40
(11) EP4151526
(21) EP22203389.6
(47) 29.01.2025
(22) 12.09.2019
(54) SIX DEGREE OF FREEDOM AERIAL VEHICLE HAVING RECONFIGURABLE MOTORS, PROPELLERS, OR WINGS
(73) Amazon Technologies, Inc.
(72) LEGRAND, Louis Leroi
FISCHER, Sebastian
KIMCHI, Gur
RAND, Omri
WELSH, Ricky
(31) 201816133609
201816133573
201816133592
201816133546
(32) 17.09.2018
17.09.2018
17.09.2018
17.09.2018
(33) United States of America
United States of America
United States of America
United States of America

(51) B64D 9/00
(11) EP4177162
(21) EP23150333.5
(47) 29.01.2025
(22) 11.12.2019
(54) WIRELESS MOBILE MAINTENANCE DISPLAY UNIT
(73) Goodrich Corporation
(72) KISH, Shad
ROVERTS, Aaron
(31) 201916387285
(32) 17.04.2019
(33) United States of America

(51) B64D 11/00
B64D 11/06
G06Q 10/06
G06Q 10/02
(11) EP3980331
(21) EP20733696.7
(47) 29.01.2025
(87) EP2020065630
10.12.2020
(22) 05.06.2020
(54) SEAT SYSTEM
(73) Recaro Aircraft Seating GmbH & Co. KG
(72) STRECKERT, Michael
STEINMEYER, Klaus
JUNG, Daniel
(31) 102019115203
(32) 05.06.2019
(33) Germany

(51) B64D 11/06
(11) EP4200212
(21) EP20764891.6
(47) 29.01.2025
(87) US2020047006
24.02.2022

(22) 19.08.2020
(54) STRUCTURAL SHROUD ASSEMBLY FOR PASSENGER SEAT
(73) Safran Seats USA LLC
(72) TRANIER, Romain
TRAN, Anthony

(51) B64D 11/06
(11) EP4151528
(21) EP22196945.4
(47) 29.01.2025
(22) 21.09.2022
(54) AIRCRAFT SEAT DEVICE
(73) Recaro Aircraft Seating GmbH & Co. KG
(72) Wieland, Klaus
(31) 102021124418
(32) 21.09.2021
(33) Germany

(51) B64D 11/06
E05B 41/00
(11) EP4164948
(21) EP21730104.3
(47) 29.01.2025
(87) EP2021063026
16.12.2021
(22) 17.05.2021
(54) AIRCRAFT SEAT MODULE
(73) Recaro Aircraft Seating GmbH & Co. KG
(72) RECHLIN, Alexander
(31) 102020115567
(32) 12.06.2020
(33) Germany

(51) B64D 15/00
(11) EP3498606
(21) EP18204985.8
(47) 29.01.2025
(22) 07.11.2018
(54) SYSTEM AND METHOD FOR MODIFYING THE LOCATION OF WATER IMPINGEMENT LIMITS ON AN AIRFOIL
(73) The Boeing Company
(72) Leopold, David
(31) 201715839545
(32) 12.12.2017
(33) United States of America

(51) B64D 15/12
B64D 15/20
(11) EP4186796
(21) EP22210025.7
(47) 29.01.2025
(22) 28.11.2022
(54) ADJUSTABLE ICE PROTECTION SYSTEM PARTING STRIP
(73) Goodrich Corporation
(72) LoPRESTO, Vincent R.
BOTURA, Galdemir Cezar
(31) 202117537611
(32) 30.11.2021
(33) United States of America

(51) B64D 25/00
B64D 31/00
F02C 7/32
H02J 7/14
(11) EP4197913
(21) EP22208027.7
(47) 29.01.2025
(22) 17.11.2022
(54) AIRCRAFT POWER AND PROPULSION SYSTEMS AND METHODS OF OPERATING AIRCRAFT POWER AND PROPULSION SYSTEMS
(73) Rolls-Royce plc
(72) Husband, Stephen
Herbert, Douglas
Davies, Paul
Trainer, David
Moore, Gareth
George, Luke
Scothern, David
(31) 202118045
(32) 14.12.2021
(33) United Kingdom

(51) B64D 27/24
B64D 27/35
B64D 47/02
B64D 47/08
B64U 10/25
B64U 50/19
B64U 50/31
B64U 50/35
G05D 1/689
G05D 1/695
H02S 50/15
B64B 1/00
B64U 101/10
B64U 101/20
(11) EP4269241
(21) EP21910536.8
(47) 29.01.2025
(87) JP2021046356
30.06.2022
(22) 15.12.2021
(54) CONTROL DEVICE, PROGRAM, SYSTEM, AND CONTROL METHOD
(73) SoftBank Corp.
(72) FUJIMOTO, Koji
(31) 2020216695
(32) 25.12.2020
(33) Japan

(51) B64D 27/24
B64D 31/06
B64D 27/02
(11) EP3895993
(21) EP21168453.5
(47) 29.01.2025
(22) 14.04.2021
(54) CHARGING SCHEME FOR ELECTRIC PROPULSION SYSTEMS
(73) Hamilton Sundstrand Corporation
(72) IVES, Kyle Stephen
MINSHULL, Stephen
(31) 202016851353
(32) 17.04.2020
(33) United States of America

(51) B64D 31/12
B64D 27/12
F02C 6/20
F02K 5/00
B64D 27/33
B64D 31/18
B64D 27/31
(11) EP3931096
(21) EP19918266.8
(47) 29.01.2025
(87) US2019065060
10.09.2020
(22) 06.12.2019
(54) TORQUE BALANCING FOR HYBRID ELECTRIC PROPULSION SYSTEMS AND AIRCRAFT UTILIZING HYBRID ELECTRIC PROPULSION SYSTEMS
(73) Pratt & Whitney Canada Corp.
(72) BENGEA, Sorin
PEKOVIC, Tatjana
THOMASSIN, Jean
(31) 201962812657 P
(32) 01.03.2019
(33) United States of America

(51) B64D 41/00
(11) EP3845464
(21) EP20217800.0
(47) 29.01.2025
(22) 30.12.2020
(54) DUAL VOLTAGE LOW SPOOL GENERATOR
(73) Hamilton Sundstrand Corporation
(72) KRENZ, Michael
(31) 202016733750
(32) 03.01.2020
(33) United States of America

(51) B64D 45/00
B64D 13/06
A61B 5/00
A61B 5/0205
(11) EP4019411
(21) EP20217119.5
(47) 29.01.2025
(22) 23.12.2020
(54) DATA-DRIVEN MANAGEMENT SYSTEM AND METHOD FOR PASSENGER SAFETY, HEALTH AND COMFORT
(73) B/E Aerospace, Inc.
(72) ZHU, Yonghua
PEARSON, Matthew

(51) B64D 45/00
G01P 5/16
G01P 21/02
G01P 5/165
(11) EP4224172
(21) EP23155445.2
(47) 29.01.2025
(22) 07.02.2023
(54) DYNAMIC MULTI-STAGE AIR DATA PROBE PROGNOSTICS HEALTH MONITORING MANAGEMENT
(73) ROSEMOUNT AEROSPACE INC.
(72) BALASUBRAMANIAN, Rameshkumar
ROESKE, Cal
(31) 202241006326
(32) 07.02.2022
(33) India

(51) B64F 1/02
B64U 70/30
B64U 70/83
(11) EP4112457
(21) EP22182487.3
(47) 29.01.2025
(22) 01.07.2022
(54) METHODS AND APPARATUS TO RECOVER UNMANNED AERIAL VEHICLES WITH KITES
(73) Insitu, Inc.

(72) KIEWIT, Jesse D.
SHAW, Daniel L.
WONG, John R.
BROWN, Benjamin T.
COMSTOCK, Kelly A.
ALLEN, Jacob S.
FOCKELE, Alice E.
(31) 202117365742
(32) 01.07.2021
(33) United States of America

(51) B64G 1/64
(11) EP3909865
(21) EP21173096.5
(47) 29.01.2025
(22) 10.05.2021
(54) DEVICE FOR RETAINING AND COMMANDED RELEASE OF AN ELEMENT TO BE RELEASED IN THE RELEASE DIRECTION
(73) Space-Lock GmbH
(72) Günther, Florian
Uhl, Andreas
(31) 504262020
(32) 14.05.2020
(33) Austria

(51) B64U 10/25
B64U 80/40
B64U 80/82
B64U 70/30
B64U 70/20
B64U 70/90
B64U 80/10
B64U 80/30
(11) EP4194347
(21) EP23152650.0
(47) 29.01.2025
(22) 23.10.2013
(54) AIRCRAFT DEPLOYMENT AND RETRIEVAL OF UNMANNED AERIAL VEHICLES
(73) The Boeing Company
(72) POLING, David R
HANNA, Mark
(31) 201213664323
(32) 30.10.2012
(33) United States of America

(51) B64U 70/97
(11) EP4299452
(21) EP23179461.1
(47) 29.01.2025
(22) 15.06.2023
(54) UNMANNED AERIAL VEHICLE PARKING DEVICE
(73) Autel Robotics Co., Ltd.
(72) Lai, Biwang
Shi, Kang
(31) 202210785024
(32) 29.06.2022
(33) China

(51) B64U 101/30
G05D 1/00
(11) EP4273656
(21) EP23198555.7
(47) 29.01.2025
(22) 19.02.2021
(54) APPARATUS, METHOD AND SOFTWARE FOR ASSISTING AN OPERATOR IN FLYING A DRONE USING A REMOTE CONTROLLER AND AR GLASSES
(73) Anarky Labs Oy
(72) Lesonen, Hannu
Immonen, Lassi

(51) B65B 3/00
B65B 1/46
B65B 7/28
B65B 43/46
B65B 43/54
B65B 3/28
B65B 35/36
(11) EP3988457
(21) EP21215240.9
(47) 29.01.2025
(22) 18.12.2017
(54) DEVICE AND METHOD FOR FILLING NESTED CONTAINERS
(73) GRONINGER & CO. GMBH
(72) Franke, Bernd
Veile, Josef
(31) 102017100010
(32) 02.01.2017
(33) Germany

(51) B65B 5/10
B65B 39/00
B65B 57/20
(11) EP4337542
(21) EP22726295.3
(47) 29.01.2025
(87) IB2022054098
17.11.2022
(22) 04.05.2022
(54) A METHOD FOR FILLING BOTTLES WITH A PREDETERMINED NUMBER OF PHARMACEUTICAL ARTICLES AND AN APPARATUS FOR ACTUATING THE METHOD
(73) Marchesini Group S.p.A.
(72) MONTI, Giuseppe
(31) 202100011864
(32) 10.05.2021
(33) Italy

(51) B65B 9/02
B65B 17/02
B65D 85/10
B65B 35/44
B65D 71/00
(11) EP4313774
(21) EP22715383.0
(47) 29.01.2025
(87) IB2022052539
06.10.2022
(22) 21.03.2022
(54) A METHOD AND A MACHINE FOR PRODUCING A PACKAGE OF SMOKING ARTICLES
(73) G.D S.p.A.
(72) PARAZZA, Davide
GAMBERINI, Giuliano
ARMENI, Alan
(31) 202100007763
(32) 30.03.2021
(33) Italy

(51) B65B 11/02
(11) EP4273055
(21) EP23163543.4
(47) 29.01.2025
(22) 22.03.2023
(54) STRUCTURE FOR WRAPPING MACHINE
(73) Aranguren Comercial del Embalaje, S.L.U.
(72) Bereber Goiricelaya, Roberto
Rubio Casalta, Valentín
López Carrillo, Luis Miguel
(31) 202230500 U
(32) 24.03.2022
(33) Spain

(51) B65B 29/10
B65B 27/08
(11) EP4121357
(21) EP21771748.7
(47) 29.01.2025
(87) US2021022560
23.09.2021
(22) 16.03.2021
(54) POUCH WITH BREAKABLE SEALS
(73) Veltek Associates, Inc.
(72) BALESTRI, Michael
VELLUTATO, Arthur L.
(31) 202063077313 P
202062990220 P
(32) 11.09.2020
16.03.2020
(33) United States of America
United States of America

(51) B65B 61/04
A22C 11/10
B65B 9/12
B65B 51/04
(11) EP4303141
(21) EP23182776.7
(47) 29.01.2025
(22) 30.06.2023
(54) SEPARATING DEVICE FOR SEPARATING PORTIONS FROM ELONGATED CASINGS FILLED WITH FOOD MASS, CORRESPONDING CRIMPING ELEMENT AND METHOD
(73) VEMAG Maschinenbau GmbH
(72) Baris, Halis
(31) 102022117135
(32) 08.07.2022
(33) Germany

(51) B65C 9/42
B65C 9/18
(11) EP3409603
(21) EP18178586.6
(47) 29.01.2025
(22) 07.11.2013
(54) A LABELLING MACHINE AND METHOD FOR ITS OPERATION
(73) Videojet Technologies Inc.
(72) MCNESTRY, Martin
(31) 201318068
201220070
201220067
201220063
201220060
201220059
(32) 11.10.2013
07.11.2012
07.11.2012
07.11.2012
07.11.2012

07.11.2012
(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom

(51) B65D 1/02
B65D 51/00
(11) EP4291496
(21) EP22705877.3
(47) 29.01.2025
(87) IB2022050393
18.08.2022
(22) 18.01.2022
(54) BOTTLE FOR A CONTAINER FOR PARENTERALLY ADMINISTRABLE PHARMACEUTICAL PRODUCTS
(73) Bisio Progetti S.p.a.
(72) ARCURI, Matteo
(31) 202100003188
(32) 12.02.2021
(33) Italy

(51) B65D 1/26
B65D 43/02
B65D 77/20
(11) EP3473557
(21) EP18199342.9
(47) 29.01.2025
(22) 09.10.2018
(54) PACKAGING FOR PACKING FOOD PRODUCTS
(73) Groupe Guillin
(72) GUILLIN, François
(31) 1759795
(32) 18.10.2017
(33) France

(51) B65D 1/34
B65D 21/02
B65D 25/14
B65D 65/46
(11) EP4274785
(21) EP21802720.9
(47) 29.01.2025
(87) EP2021080558
18.08.2022
(22) 03.11.2021
(54) A FOOD CONTAINER OF FIBER PULP
(73) Brødrene Hartmann A/S
(72) GOTLIEB HUSTED JENSEN, Henrik
(31) 21156835
(32) 12.02.2021
(33) European Patent Office (EPO)

(51) B65D 5/38
B65D 5/68
B65D 85/10
(11) EP3986797
(21) EP20736581.8
(47) 29.01.2025
(87) EP2020066718
24.12.2020
(22) 17.06.2020
(54) PACK FOR TOBACCO PRODUCTS
(73) Focke & Co. (GmbH & Co. KG)
(72) HEIN, Viktor
(31) 102019004330
(32) 20.06.2019
(33) Germany

(51) B65D 5/44
B65D 5/32
B65D 5/36
(11) EP4126684
(21) EP20928657.4
(47) 29.01.2025
(87) SE2020050340
07.10.2021
(22) 01.04.2020
(54) A BOX CASING, A KIT FOR CREATING SUCH A BOX CASING, AND USE THEREOF
(73) NEFAB AB
(72) NOWAK, David
PARRA, Paulina
STEIBERT, Mattias
PIHL, Andreas
LAM, Derek

(51) B65D 5/74
B65D 47/08
B65D 41/32
(11) EP4186810
(21) EP23164785.0
(47) 29.01.2025
(22) 28.03.2023
(54) LID-SPOUT ASSEMBLY, LID-ASSEMBLY, AND PACKAGE FOR A POURABLE PRODUCT
(73) PCHB bvba
(72) BOERBOOM, Hans

(51) B65D 21/02
B65D 85/50
(11) EP4214134
(21) EP21778177.2
(47) 29.01.2025
(87) FR2021051514
24.03.2022
(22) 03.09.2021
(54) CONTAINER FOR PACKAGING BIVALVE SHELLFISH
(73) Miet, Jérôme
(72) Miet, Jérôme
(31) 2009362
(32) 16.09.2020
(33) France

(51) B65D 21/08
B65D 85/804
B65D 25/16
B65D 43/02
(11) EP4211045
(21) EP21773330.2
(47) 29.01.2025
(87) EP2021074285
17.03.2022
(22) 02.09.2021
(54) EXPANDABLE INFUSION CONTAINER
(73) Swiss Tea Innovation AG
(72) DEL BON, Franco
WÜST, Theodor
SCHERRER, Joseph Alain
(31) 11382020
(32) 10.09.2020
(33) Switzerland

(51) B65D 25/06
B65D 1/22
B65D 21/02
B65D 81/26
(11) EP4197933
(21) EP22213950.3
(47) 29.01.2025
(22) 15.12.2022
(54) TOTE WITH LOCKING DIVIDER FEATURES
(73) Orbis Corporation
(72) Frankenberg, Jason R.
(31) 202218063838
202218063784
202163265598 P
202163265452 P
(32) 09.12.2022
09.12.2022
17.12.2021
15.12.2021
(33) United States of America
United States of America
United States of America
United States of America

(51) B65D 47/08
B65D 50/04
(11) EP4026784
(21) EP22150104.2
(47) 29.01.2025
(22) 04.01.2022
(54) HINGE CAP AND HINGE CAP SET
(73) Kabushiki Kaisha Shofu
(72) KOBAYASHI, Hiroyuki
TAKASHIMA, Hiroaki
SAITO, Takahiro
NISHIMURA, Rei
KITADA, Naoya
(31) 2021000784
(32) 06.01.2021
(33) Japan

(51) B65D 47/08
B65D 51/18
A47G 19/22
A45F 3/16
(11) EP4146553
(21) EP21799472.2
(47) 29.01.2025
(87) US2021019996
11.11.2021
(22) 26.02.2021
(54) LID FOR A BEVERAGE CONTAINER WITH HANDLE ACTUATION ARRANGEMENT
(73) Ni, Zhenming
(72) Ni, Zhenming
(31) 202016867965
(32) 06.05.2020
(33) United States of America

(51) B65D 47/08
B65D 55/02
(11) EP4069604
(21) EP20821409.8
(47) 29.01.2025
(87) IB2020061456
10.06.2021
(22) 03.12.2020
(54) TAMPER-PROOF CONTAINER
(73) Haleon CH SARL
(72) BERNASCONI LECOULTRE, Paola
SABHERWAL, Amit
ROZWADOWSKA, Malgorzata Urszula

ATHAY, Bradley Robert
(31) 201962943433 P
(32) 04.12.2019
(33) United States of America

(51) B65D 50/04
B65D 51/24
B65D 55/02
(11) EP4263376
(21) EP21840878.9
(47) 29.01.2025
(87) EP2021086545
23.06.2022
(22) 17.12.2021
(54) TAMPER-EVIDENT CLOSURE
(73) Airnov, Inc.
(72) BOIS, Dominique
(31) 20215494
(32) 18.12.2020
(33) European Patent Office (EPO)

(51) B65D 51/00
(11) EP4291505
(21) EP22705876.5
(47) 29.01.2025
(87) IB2022050392
18.08.2022
(22) 18.01.2022
(54) PLASTIC CLOSURE DEVICE FOR A CONTAINER FOR PARENTERAL PHARMACEUTICAL PRODUCTS
(73) Bisio Progetti S.p.a.
(72) BISIO, Stefano
(31) 202100003182
(32) 12.02.2021
(33) Italy

(51) B65D 51/16
B65D 41/04
B65D 41/26
(11) EP4163222
(21) EP22199505.3
(47) 29.01.2025
(22) 04.10.2022
(54) CONTAINER FOR LIQUID PRODUCTS
(73) Fater S.p.A.
(72) MENEGHELLI, Marco
BARIS, Lorenzo
SARCINELLI, Luca
MARRA, Giuliano
(31) 202100025814
(32) 08.10.2021
(33) Italy

(51) B65D 55/02
B65D 51/14
(11) EP4225657
(21) EP21836442.0
(47) 29.01.2025
(87) EP2021085132
30.06.2022
(22) 10.12.2021
(54) CLOSURE ARRANGEMENT FOR A CONTAINER
(73) KAMES, Alexander Oliver
Sommer, Fabian
(72) LEIPACHER, Ulf
SOMMER, Fabian
(31) 102020007883
(32) 23.12.2020
(33) Germany

(51) B65D 55/16
B65D 41/34
B65D 55/02
(11) EP4223662
(21) EP23164490.7
(47) 29.01.2025
(22) 23.04.2020
(54) CLOSURE DEVICE FOR A CONTAINER
(73) Husky Injection Molding Systems Ltd.
(72) NAUMANN, Tobias
HALTER, Christophe
SCHERER, Stephan
BECK, Christophe Simon Pierre
(31) 202062981067 P
201962913377 P
201962846801 P
(32) 25.02.2020
10.10.2019
13.05.2019
(33) United States of America
United States of America
United States of America

(51) B65D 77/20
B65D 53/02
(11) EP3517456
(21) EP19160823.1
(47) 29.01.2025
(22) 02.05.2014
(54) CONTAINER WITH A SEAL RING FOR FOIL-SEALING
(73) Owens-Brockway Glass Container Inc.
(72) GRANT, Edward A.
(31) 201313892775
(32) 13.05.2013
(33) United States of America

(51) B65D 85/804
B65D 21/08
B65D 25/16
(11) EP4211053
(21) EP21773328.6
(47) 29.01.2025
(87) EP2021074277
17.03.2022
(22) 02.09.2021
(54) INFUSION CONTAINER WITH AN INLET VALVE
(73) Swiss Tea Innovation AG
(72) DEL BON, Franco
SCHERRER, Joseph Alain
WÜST, Theodor
(31) 11362020
(32) 10.09.2020
(33) Switzerland

(51) B65D 90/00
B65D 88/74
F25D 3/06
(11) EP4196413
(21) EP21752639.1
(47) 29.01.2025
(87) DE2021100659
17.02.2022
(22) 30.07.2021
(54) TRANSPORT CONTAINER FOR A TEMPERATURE-CONTROLLED TRANSPORT OF TEMPERATURE-SENSITIVE GOODS
(73) va-Q-tec AG
(72) LEVEN, Johannes
KUHN, Joachim
ESCHENBACH, Fabian
GORRAN, Markus
(31) 202020104675 U
(32) 12.08.2020
(33) Germany

(51) B65G 1/04
(11) EP4328154
(21) EP23198659.7
(47) 29.01.2025
(22) 17.10.2019
(54) STORAGE SYSTEM FOR STORING CONTAINERS
(73) Gebhardt Fördertechnik GmbH
(72) Eder, Jörg
Gebhardt, Marco
(31) 102018218906
(32) 06.11.2018
(33) Germany

(51) B65G 1/04
B65G 1/10
B65G 65/00
(11) EP4341174
(21) EP22729125.9
(47) 29.01.2025
(87) EP2022062909
24.11.2022
(22) 12.05.2022
(54) A STORAGE COLUMN MODULE FOR COUPLING TO A FRAMEWORK STRUCTURE OF AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM
(73) Autostore Technology AS
(72) GJERDEVIK, Øystein
DJUVE, HEGGEBØ, Jørgen
(31) 20210979
20210679
20210629
(32) 16.08.2021
28.05.2021
21.05.2021
(33) Norway
Norway
Norway

(51) B65G 1/04
B65G 1/137
B65G 1/06
(11) EP3877297
(21) EP19791184.5
(47) 29.01.2025
(87) EP2019077742
14.05.2020
(22) 14.10.2019
(54) REMOTELY OPERATED VEHICLE FOR AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM
(73) Autostore Technology AS
(72) AUSTRHEIM, Trond
HERMANSEN, Jon
(31) 20181417
(32) 06.11.2018
(33) Norway

(51) B65G 1/04
B65G 1/137
B65G 43/00
B66F 9/08
(11) EP4101790
(21) EP21767988.5

(47) 29.01.2025
(87) CN2021079571
16.09.2021
(22) 08.03.2021
(54) METHOD FOR CONTROLLING TRANSPORT ROBOT, VERTICAL BRACKET AND TRANSPORT ROBOT
(73) Hai Robotics Co., Ltd.
(72) KONG, Zhe
GAO, Ming
LI, Zaijin
(31) 202022866645 U
202022860411 U
202011205346
202022498181 U
202022500566 U
202022501920 U
202020281973 U
202020281284 U
202020281914 U
202020282146 U
202010158838
(32) 02.12.2020
02.12.2020
02.11.2020
02.11.2020
02.11.2020
02.11.2020
09.03.2020
09.03.2020
09.03.2020
09.03.2020
09.03.2020
(33) China
China
China
China
China
China
China
China
China
China
China

(51) B65G 1/137
B65G 1/04
G06Q 10/087
(11) EP4204333
(21) EP21772745.2
(47) 29.01.2025
(87) EP2021073981
03.03.2022
(22) 31.08.2021
(54) A METHOD AND SYSTEM FOR PICKING PRODUCTS IN A PICKING STATION OF AN AUTOMATIC STORAGE AND RETRIEVAL SYSTEM
(73) AUTOSTORE TECHNOLOGY AS
(72) FAGERLAND, Ingvar
(31) 20200943
(32) 31.08.2020
(33) Norway

(51) B65G 1/137
G06Q 10/08
(11) EP3820792
(21) EP20736642.8
(47) 29.01.2025
(87) EP2020068538
07.01.2021
(22) 01.07.2020
(54) STORAGE SHELF FOR STORING AT LEAST ONE STORAGE PRODUCT CARRIER AND METHOD FOR DETECTING A STORAGE STOCK OF A STORAGE SHELF
(73) HÄNEL & CO.
(72) REMINDER, Manfred
(31) 102019118046
(32) 04.07.2019
(33) Germany

(51) B65G 13/07
B65G 13/11
(11) EP3699113
(21) EP18926380.9
(47) 29.01.2025
(87) JP2018048129
02.07.2020
(22) 27.12.2018
(54) FINGER GUARD MEMBER AND FINGER GUARD MEMBER COUPLING STRUCTURE
(73) Kyowa Manufacturing Co., Ltd.
(72) FURUI, Takashi
YONEDA, Ryo
YAMAMOTO, Shinya
MALINA, Georg Helmut

(51) B65G 15/60
B65G 41/00
B65G 15/08
E21F 13/02
(11) EP3259213
(21) EP15705803.3
(47) 29.01.2025
(87) EP2015053230
25.08.2016
(22) 16.02.2015
(54) DRIVE ARRANGEMENT FOR BELT, MOBILE HAULAGE ARRANGEMENT, AND METHOD
(73) Sandvik Intellectual Property AB
(72) DAMPFHOFER, Stefan
RIEGER, Hubert

(51) B65G 21/20
(11) EP3784608
(21) EP19718757.8
(47) 29.01.2025
(87) EP2019060640
31.10.2019
(22) 25.04.2019
(54) SEALING APRON DEVICE
(73) TBK Group B.V.
(72) KELDERMAN, Albertus
(31) 2020834
2020833
(32) 26.04.2018
26.04.2018
(33) Netherlands
Netherlands

(51) B65G 23/12
B65G 23/44
B65G 23/06
B65G 21/06
(11) EP3515845
(21) EP17853853.4
(47) 29.01.2025
(87) US2017052631
29.03.2018
(22) 21.09.2017
(54) INFEED AND OUTFEED ASSEMBLIES FOR A CONVEYOR
(73) Laitram, LLC
(72) HULSHOF, Gerko
DEGROOT, Michael Hendrik
DOWNER, Drew
HONEYCUTT, JR., James R.
(31) 201662404946 P
201662397416 P
(32) 06.10.2016
21.09.2016
(33) United States of America
United States of America

(51) B65G 23/14
B65G 35/06
B65G 47/96
(11) EP4045438
(21) EP20785920.8
(47) 29.01.2025
(87) EP2020076441
22.04.2021
(22) 22.09.2020
(54) DRIVING DEVICE FOR A TROLLEY OF A CONVEYING DEVICE
(73) Interroll Holding AG
(72) LAIER, Jan-Niklas
EISINGER, Thomas
(31) 102019007225
(32) 17.10.2019
(33) Germany

(51) B65G 23/26
B65G 47/96
F16D 41/02
F16D 41/20
(11) EP4149866
(21) EP21736947.9
(47) 29.01.2025
(87) EP2021069334
20.01.2022
(22) 12.07.2021
(54) CROSSBELT-SORTER-CART
(73) Interroll Holding AG
(72) HAGAN, Roman
(31) 202016927108
(32) 13.07.2020
(33) United States of America

(51) B65G 29/02
A01K 43/00
B65G 47/84
B65G 47/91
B65G 45/22
B65G 45/26
(11) EP4326650
(21) EP22722317.9
(47) 29.01.2025
(87) FR2022050711
27.10.2022
(22) 14.04.2022
(54) APPARATUS FOR TRANSFERRING OBJECTS
(73) Egg-Chick Automated Technologies
(72) TALARMIN, Steven
LÉRAN, Frédéric
ROLLAND, Lionel
MALET, Bertrand
(31) 2104050

(32) 19.04.2021
(33) France

(51) B65G 41/00
(11) EP4234453
(21) EP23172842.9
(47) 29.01.2025
(22) 05.04.2019
(54) RADIAL STACKER WITH ANGLE CONTROL
(73) McCloskey International Limited
(72) McCloskey, James Paschal
Nottingham, Al
(31) 201916371914
(32) 01.04.2019
(33) United States of America

(51) B65G 45/10
B65G 54/02
A22C 17/00
A22C 17/02
H02K 41/03
B65G 47/53
(11) EP3844088
(21) EP19853696.3
(47) 29.01.2025
(87) US2019046640
05.03.2020
(22) 15.08.2019
(54) ICE-COVERED TRAY CONVEYOR
(73) Laitram, L.L.C.
(72) RAGAN, Bryant G.
(31) 201862724418 P
(32) 29.08.2018
(33) United States of America

(51) B65G 47/52
B65G 1/137
B65G 47/91
(11) EP4194376
(21) EP23154646.6
(47) 29.01.2025
(22) 07.03.2019
(54) METHOD FOR THE AUTOMATIC COMMISSIONING OF GOODS
(73) TGW Logistics Group GmbH
(72) SCHRÖPF, Harald
HOLZNER, Stefan
PRECHTL, Christian
FEISTL, Sebastian Maximilian
DOPPLER, Christoph
(31) 508862018
502172018
502072018
(32) 10.10.2018
13.03.2018
09.03.2018
(33) Austria
Austria
Austria

(51) B65G 47/91
B25J 15/06
B25J 13/08
B65G 43/08
(11) EP4242144
(21) EP23159372.4
(47) 29.01.2025
(22) 01.03.2023
(54) MACHINE HANDLING DEVICE AND METHOD FOR HANDLING AN ELECTRICALLY CONDUCTIVE SHEET METAL WORKPIECE AND MACHINE ASSEMBLY FOR PROCESSING SHEET METAL
(73) TRUMPF Werkzeugmaschinen SE + Co. KG
(72) JACOB, Hagen
MATHIAS, Harald
FÖRSTER, Stefan
KÖPP, Frederick
RAICHLE, Florian
(31) 102022105284
(32) 07.03.2022
(33) Germany

(51) B65G 49/06
B65G 67/04
(11) EP3642141
(21) EP18753046.4
(47) 29.01.2025
(87) DE2018000192
27.12.2018
(22) 18.06.2018
(54) DEVICE AND METHOD FOR SAFELY AND QUICKLY TRANSFERRING NEW GLASS SHEETS FROM THE PRODUCTION LINE TO A TRANSPORT VEHICLE
(73) Grenzebach Maschinenbau GmbH
(72) LANG, Edwin
HERFERT, Christian
(31) 102017005809
(32) 20.06.2017
(33) Germany

(51) B65G 65/00
B65D 25/00
B65D 1/46
B65D 21/02
B65D 25/02
B65G 1/04
(11) EP4242124
(21) EP23183893.9
(47) 29.01.2025
(22) 28.11.2019
(54) STORAGE CONTAINER FOR AUTOMATED STORAGE AND RETRIEVAL SYSTEM
(73) Autostore Technology AS
(72) AUSTRHEIM, Trond
GRUENBECK, Uwe
(31) 20181530
(32) 28.11.2018
(33) Norway

(51) B65G 65/32
B65G 65/40
G03G 15/08
B65G 69/18
(11) EP4242145
(21) EP21889164.6
(47) 29.01.2025
(87) JP2021040292
12.05.2022
(22) 01.11.2021
(54) POWDER SUPPLY DEVICE
(73) Tsukasa Co., Ltd.
(72) SEKI Tomonori
(31) 2020184019
(32) 03.11.2020
(33) Japan

(51) B65G 65/48
A24C 5/02
B65B 1/32
B65B 37/08
G01F 11/24
B65B 1/24
(11) EP4341185
(21) EP22734376.1
(47) 29.01.2025
(87) IT2022050140
24.11.2022
(22) 20.05.2022
(54) FILLING APPARATUS AND METHOD FOR AUTOMATICALLY FILLING CONTAINERS
(73) I.M.A. Industria Macchine Automatiche S.p.A.
(72) DRAGHETTI, Fiorenzo
(31) 202100013220
(32) 20.05.2021
(33) Italy

(51) B65G 69/04
B65D 88/26
(11) EP3720795
(21) EP18822565.0
(47) 29.01.2025
(87) US2018063609
13.06.2019
(22) 03.12.2018
(54) POWDER MATERIAL HOPPER SYSTEM WITH OFFSET LOADING
(73) Ecolab USA Inc.
(72) ANDERSON, Daniel Davis
SCHEIMANN, David W.
HEINBUCH, Karl
MUEGGENBORG, Brock Stephen
PEACOCK, Thomas E.
(31) 201762594316 P
(32) 04.12.2017
(33) United States of America

(51) B65H 9/00
B65H 9/16
G07D 11/17
B65H 5/02
(11) EP4119474
(21) EP20923817.9
(47) 29.01.2025
(87) JP2020010577
16.09.2021
(22) 11.03.2020
(54) CENTERING MECHANISM AND PAPER-SHEET HANDLING DEVICE
(73) Fujitsu Frontech Limited
(72) HAYASHI, Satoshi
TAMAHASHI, Tomoyuki
ANDO, Atsushi
WADA, Takashi

(51) B65H 45/24
B65H 45/28
(11) EP3921261
(21) EP20707316.4
(47) 29.01.2025
(87) IB2020050731
13.08.2020
(22) 30.01.2020
(54) FOLDING, OR INTERFOLDING, UNIT FOR FOLDING, OR INTERFOLDING SHEETS OF PAPER FOR A MACHINE FOR PAPER CONVERTING,

CORRESPONDING MACHINE FOR PAPER CONVERTING, AND METHOD FOR FOLDING, OR INTERFOLDING, A FIRST AND A SECOND PLURALITY OF SHEETS OF PAPER
(73) Valmet Tissue Converting S.r.l.
(72) CASOTTI, Paolo
LOMBARDI, Sergio
MORELLI, Alessandro
(31) 201900001579
(32) 04.02.2019
(33) Italy

(51) B65H 54/58
B65H 75/14
B65H 75/22
B65H 75/24
B65H 54/60
(11) EP4095077
(21) EP22174473.3
(47) 29.01.2025
(22) 20.05.2022
(54) SPOOL ASSEMBLY
(73) Scientific Anglers LLC
(72) JENKINS, Joshua Herbert
(31) 202163193702 P
(32) 27.05.2021
(33) United States of America

(51) B65H 54/70
(11) EP4116246
(21) EP22174085.5
(47) 29.01.2025
(22) 18.05.2022
(54) WINDING MACHINE WITH AN IMPROVED SUCTION AND WASTE COLLECTION SYSTEM AND A CONTROL METHOD THEREOF
(73) Savio Macchine Tessili S.p.A.
(72) MORINI, Giuseppe
PAVAN, Henry
SIMONATTO, Michele
(31) 202100018119
(32) 09.07.2021
(33) Italy

(51) B65H 67/06
D01H 9/18
(11) EP3670409
(21) EP19213627.3
(47) 29.01.2025
(22) 04.12.2019
(54) TEXTILE MACHINE WHICH PRODUCES CROSS-WOUND BOBBINS, WITH A CROSS-WOUND BOBBIN TRANSPORT DEVICE
(73) Saurer Spinning Solutions GmbH & Co. KG
(72) Peters, Erwin
Mac, Tai
Hansen, Bodo
Toepke, Heiko
Geisler, Robert
Prediger, Eduard
Brakensiek, Dirk
Winzen, Lothar
Doerner, Wolfgang
Schiffers, Philipp
Spitzer, Michael
Sprecher, Jonathan
(31) 102018132462
(32) 17.12.2018
(33) Germany

(51) B65H 75/40
B65H 75/44
(11) EP4370461
(21) EP22705408.7
(47) 29.01.2025
(87) EP2022053841
19.01.2023
(22) 16.02.2022
(54) MOBILE HOSE REEL ASSEMBLY
(73) HUSQVARNA AB
(72) SCHLEGEL, Tobias
RAUCH, Martin
MOCK, Axel
(31) 21186066
(32) 16.07.2021
(33) European Patent Office (EPO)

(51) B66B 1/24
(11) EP3875416
(21) EP20214906.8
(47) 29.01.2025
(22) 17.12.2020
(54) CONTROL FOR SHUTTLE ELEVATOR GROUPS
(73) Otis Elevator Company
(72) HSU, Arthur
(31) 201962951510 P
(32) 20.12.2019
(33) United States of America

(51) B66B 1/32
B66B 5/00
B66B 5/06
(11) EP4039629
(21) EP21382089.7
(47) 29.01.2025
(22) 04.02.2021
(54) ELECTRONIC SAFETY ACTUATOR AND METHOD OF CONDITION OR STATE DETECTION
(73) Otis Elevator Company
(72) SOTOCA, Javier Muñoz

(51) B66B 1/34
B66B 1/46
(11) EP3715298
(21) EP19215983.8
(47) 29.01.2025
(22) 13.12.2019
(54) CONFIGURING STOPPABLE FLOOR INFORMATION SET FOR AN ELEVATOR CABIN OF AN ELEVATOR SYSTEM
(73) Otis Elevator Company
(72) WEI, Lieping
(31) 201910237073
(32) 27.03.2019
(33) China

(51) B66B 1/46
B66B 1/50
H01H 13/702
(11) EP4139239
(21) EP21718890.3
(47) 29.01.2025
(87) EP2021059935
28.10.2021
(22) 16.04.2021
(54) INTERFACE FOR OPERATING AN ELEVATOR CAR, ELEVATOR CAR AND METHOD OF PRODUCING AN ELEVATOR CAR
(73) Inventio AG
(72) VILLA, Valerio
(31) 20170358
(32) 20.04.2020
(33) European Patent Office (EPO)

(51) B66B 5/00
B66B 1/32
B66B 5/18
(11) EP4056510
(21) EP21213816.8
(47) 29.01.2025
(22) 10.12.2021
(54) ELEVATOR BRAKE WEAR DETECTION METHOD, DETECTION DEVICE AND ELEVATOR BRAKE
(73) Otis Elevator Company
(72) LI, Guosong
ZHOU, Hua
(31) 202110251008
(32) 08.03.2021
(33) China

(51) B66B 7/12
(11) EP3640189
(21) EP19202078.2
(47) 29.01.2025
(22) 08.10.2019
(54) RESISTANCE-BASED INSPECTION OF ELEVATOR SYSTEM SUPPORT MEMBERS
(73) Otis Elevator Company
(72) BLACKABY, Barry G
KEYO, Peter
(31) 201816164146
(32) 18.10.2018
(33) United States of America

(51) B66B 9/02
(11) EP4077193
(21) EP20824238.8
(47) 29.01.2025
(87) EP2020086168
24.06.2021
(22) 15.12.2020
(54) METHOD FOR CENTERING AN ELEVATOR CAR OF AN ELEVATOR
(73) INVENTIO AG
(72) HUSMANN, Josef
(31) 19217736
(32) 18.12.2019
(33) European Patent Office (EPO)

(51) B66B 11/02
(11) EP4286315
(21) EP22305811.6
(47) 29.01.2025
(22) 03.06.2022
(54) ELEVATOR CAR WITH MOVING ELECTRICAL BOX
(73) Otis Elevator Company
(72) Boniface, Fabrice
Rivoiret, Franck
Fauconnet, Aurelien
Appourchaux, Morgane

(51) B66B 13/22
B66B 5/02

(11) EP4112525
(21) EP21214673.2
(47) 29.01.2025
(22) 15.12.2021
(54) ELEVATOR SAFETY SYSTEM, ELEVATOR SYSTEM AND ELEVATOR SAFETY CONTROL METHODS
(73) Otis Elevator Company
(72) TIAN, Hongliang
(31) 202110734775
(32) 30.06.2021
(33) China

(51) B66B 23/00
(11) EP4313836
(21) EP22710606.9
(47) 29.01.2025
(87) EP2022055779
29.09.2022
(22) 08.03.2022
(54) SUPPORT STRUCTURE OF AN ESCALATOR OR MOVING WALKWAY
(73) INVENTIO AG
(72) SEFCSIK, Peter
WAGENLEITNER, Georg
MAKOVEC, Christoph
(31) 21165164
(32) 26.03.2021
(33) European Patent Office (EPO)

(51) B66B 23/24
(11) EP4359339
(21) EP22733977.7
(47) 29.01.2025
(87) EP2022066809
29.12.2022
(22) 21.06.2022
(54) HANDRAIL AND METHOD OF MANUFACTURING THE HANDRAIL
(73) Semperit AG Holding
(72) MANDL, David
ARTHOFER, Florian Karl
DUERRER, Albrecht
RADL, Simone Viola
(31) 102021115997
(32) 21.06.2021
(33) Germany

(51) B66C 13/56
B62D 55/065
G05G 9/047
B62D 55/06
(11) EP4061762
(21) EP20811460.3
(47) 29.01.2025
(87) IB2020060970
27.05.2021
(22) 20.11.2020
(54) TRACKED VEHICLE COMPRISING A USER INTERFACE
(73) PRINOTH S.p.A.
(72) SALIS, Francesco
KIRCHMAIR, Martin
CASARTELLI, Richard
PAOLETTI, Alberto
(31) 201900021939
(32) 22.11.2019
(33) Italy

(51) B66D 5/28
B60T 13/68
(11) EP4276049
(21) EP23171519.4
(47) 29.01.2025
(22) 04.05.2023
(54) BRAKING SYSTEM FOR USE IN A HANDLING MACHINE FOR SHAFT AND INCLINED CONVEYOR SYSTEMS
(73) Siemag Tecberg GmbH
(72) AUGUST, Sergej
STÄRKLOW, Sergei
(31) 102951
(32) 10.05.2022
(33) Luxembourg

(51) B66F 9/065
B66F 9/24
B66F 17/00
E02F 3/34
E02F 3/43
(11) EP3617130
(21) EP19180427.7
(47) 29.01.2025
(22) 17.06.2019
(54) DEVICE FOR LOADING WITH TELESCOPIC LOADER
(73) CLAAS Material Handling GmbH
(72) Dückinghaus, Heinrich
Ostfechtel, Christian
(31) 102018120814
(32) 27.08.2018
(33) Germany

(51) B66F 9/075
(11) EP3502042
(21) EP18210619.5
(47) 29.01.2025
(22) 06.12.2018
(54) TRUCK FLEET
(73) STILL S.p.A.
(72) BORSARI, Luca
MARIOTTI, Fabio
(31) 102018109554
102017130919
(32) 20.04.2018
21.12.2017
(33) Germany
Germany

(51) B66F 9/075
H01R 13/516
(11) EP4169869
(21) EP22203065.2
(47) 29.01.2025
(22) 21.10.2022
(54) BATTERY COUPLING, AND MATERIALS HANDLING VEHICLES INCORPORATING THE SAME
(73) Crown Equipment Corporation
(72) CHEN, Andy
MÜLLER, Roland
MA, Martin
YANG, Jack
SUN, Luying
XIA, Bruce
(31) 202217673263
PCT/CN2021/125878
(32) 16.02.2022
22.10.2021
(33) United States of America
World Intellectual Property Office (WIPO)

(51) B66F 11/04
F04B 17/03
F15B 11/04
F04B 49/06
F04B 49/20
F15B 11/16
F04C 2/08
(11) EP4320067
(21) EP22721365.9
(47) 29.01.2025
(87) EP2022059376
13.10.2022
(22) 08.04.2022
(54) AERIAL WORK PLATFORM, AND METHOD FOR CONTROLLING AN AERIAL WORK PLATFORM
(73) Haulotte Group
(72) DESSEUX, Didier
(31) 2103671
(32) 09.04.2021
(33) France

(51) B67D 1/00
B67D 1/08
B67D 1/12
B67D 1/10
(11) EP3969408
(21) EP20809571.1
(47) 29.01.2025
(87) US2020033308
26.11.2020
(22) 16.05.2020
(54) WATER DISPENSING STATION
(73) PepsiCo, Inc.
(72) MACRELLINO, Diego
FANTAPPIE, Giancarlo
(31) 202016875975
202063006652 P
201962849796 P
(32) 15.05.2020
07.04.2020
17.05.2019
(33) United States of America
United States of America
United States of America

(51) B67D 1/04
G01F 11/32
B67D 1/08
B67D 1/14
G01F 15/00
(11) EP3998226
(21) EP20837564.2
(47) 29.01.2025
(87) EA2020000002
14.01.2021
(22) 08.07.2020
(54) METERING CLOSURE CAP FOR A CONTAINER FOR STORING AND DISPENSING A CARBONATED BEVERAGE
(73) LLC "SodaStream"
(72) GONTCHAROV, Stanislav Sergeevitch
(31) 201900451
(32) 09.07.2019
(33) Eurasian Patent Organization

(51) B67D 3/00
B67D 1/08
B67D 1/04
(11) EP3380432
(21) EP16810184.8
(47) 29.01.2025

(87) US2016063261
01.06.2017
(22) 22.11.2016
(54) BEVERAGE EXTRACTOR WITH CONTROLLER
(73) Coravin, Inc.
(72) VOGT, Chris
RIDER, Michael
SWEEZEY, Andrew, S.
LAMBRECHT, Gregory
(31) 201562259908 P
(32) 25.11.2015
(33) United States of America

(51) B67D 9/00
H04L 67/125
G01F 15/063
G01F 15/06
(11) EP4440879
(21) EP22726383.7
(47) 29.01.2025
(87) EP2022025052
24.08.2023
(22) 16.02.2022
(54) INTELLIGENT SYSTEM FOR REAL-TIME MEASUREMENTS AND ANALYSIS OF FUEL OILS, FOR QUANTITATIVE AND QUALITATIVE ASSESSMENT AND ACCEPTANCE
(73) Kontaxis, Dimitrios
Chasampalis, Dimitrios
ENSOMATOSYS GROUP LTD.
Vavourakis, Ioannis
(72) VAVOURAKIS, Ioannis
CHASAMPALIS, Dimitrios
KONTAXIS, Dimitrios

(51) B81B 7/00
B81B 3/00
(11) EP4209451
(21) EP22213764.8
(47) 29.01.2025
(22) 15.12.2022
(54) EARLY-IMPACT OUT-OF-PLANE MOTION LIMITER FOR MEMS DEVICE
(73) Murata Manufacturing Co., Ltd.
(72) PARTANEN, Mikko
(31) 20225013
(32) 10.01.2022
(33) Finland

(51) C01B 3/04
(11) EP4067298
(21) EP22165013.8
(47) 29.01.2025
(22) 29.03.2022
(54) PROCESS FOR FUELING OF VEHICLE TANKS WITH COMPRESSED HYDROGEN COMPRISING HEAT EXCHANGE OF THE COMPRESSED HYDROGEN WITH CHILLED AMMONIA
(73) Air Products and Chemicals, Inc.
(72) WHITE, Lucas A.
COHEN, Joseph P.
WOLF, Robert Gregory
(31) 202117219945
(32) 01.04.2021
(33) United States of America

(51) C01B 3/38
B01D 53/047
C01B 3/50
C01B 3/52
C07C 4/04
C10G 9/38
C10G 55/00
F01K 11/02
F01K 13/00
F02C 3/04
C10G 9/36
(11) EP4284754
(21) EP22769056.7
(47) 29.01.2025
(87) US2022075265
30.03.2023
(22) 22.08.2022
(54) PRODUCTION OF HYDROGEN-RICH FUEL-GAS WITH REDUCED COEMISSION
(73) ExxonMobil Chemical Patents Inc.
(72) HIRST, Thomas, T.
SPICER, David
KENDALL, James, L.
FANG, You
(31) 202117483939
(32) 24.09.2021
(33) United States of America

(51) C01B 13/14
C01B 13/16
C01G 49/00
C01G 9/02
C01B 13/36
C01G 49/06
(11) EP3412628
(21) EP17747480.6
(47) 29.01.2025
(87) JP2017003669
10.08.2017
(22) 01.02.2017
(54) PRECISE MODIFYING METHOD FOR FINE PARTICLE DISPERSION LIQUID
(73) M. Technique Co., Ltd.
(72) HONDA, Daisuke
ENOMURA, Masakazu
(31) 2016018435
2016018434
PCT/JP2016/085460
(32) 02.02.2016
02.02.2016
29.11.2016
(33) Japan
Japan
World Intellectual Property Office (WIPO)

(51) C01B 32/05
B82Y 30/00
B82Y 40/00
C09K 11/08
C09K 11/65
(11) EP3342753
(21) EP16839320.5
(47) 29.01.2025
(87) JP2016074670
02.03.2017
(22) 24.08.2016
(54) MANUFACTURING METHOD OF LUMINOUS NANOCARBON
(73) Nissan Chemical Corporation
(72) KANAKUBO, Mitsuhiro
HIEJIMA, Yusuke
HAYASHI, Hiromichi
(31) 2015165822
(32) 25.08.2015
(33) Japan

(51) C01B 33/18
C08L 101/00
C08L 63/00
C08K 3/36
C01B 33/12
H01L 23/29
(11) EP4206132
(21) EP21861306.5
(47) 29.01.2025
(87) JP2021030002
03.03.2022
(22) 17.08.2021
(54) AMORPHOUS SILICA POWDER AND RESIN COMPOSITION CONTAINING SAME
(73) Denka Company Limited
(72) FUKUDA, Takashi
HATAYAMA, Yasuaki
SUGIMOTO, Atsuya
(31) 2020141932
(32) 25.08.2020
(33) Japan

(51) C01F 5/08
H01L 23/29
H01L 23/31
C08L 101/00
C08K 3/013
C08K 3/22
C01F 5/22
C09K 5/14
(11) EP4215487
(21) EP21869347.1
(47) 29.01.2025
(87) JP2021033638
24.03.2022
(22) 14.09.2021
(54) MAGNESIUM OXIDE POWDER, FILLER COMPOSITION, RESIN COMPOSITION, AND HEAT-DISSIPATING MEMBER
(73) Denka Company Limited
Tateho Chemical Industries Co., Ltd.
(72) CHIKAZAWA, Tomoaki
TANOUE, Shotaro
YAMAMOTO, Miki
SASAKI, Shuji
NAKAZONO, Junichi
OSAKI, Yoshihisa
(31) 2020154438
(32) 15.09.2020
(33) Japan

(51) C01F 17/36
C01G 9/00
H01B 1/06
H01M 10/0562
(11) EP4186863
(21) EP21845621.8
(47) 29.01.2025
(87) JP2021021702
27.01.2022
(22) 08.06.2021
(54) SOLID ELECTROLYTE MATERIAL, AND BATTERY USING SAME
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) FUJII, Mikiya

MIZUNO, Keita
ASANO, Tetsuya
HAMADA, Takahiro
KOMORI, Tomoyuki
TANAKA, Takehiro
WAKASUGI, Kensuke
KUBO, Takashi
SAKAI, Akihiro
(31) 2020125316
(32) 22.07.2020
(33) Japan

(51) C01G 30/00
H01L 29/786
C01F 7/00
C01G 9/00
C01G 30/02
C23C 14/00
(11) EP4286339
(21) EP22176408.7
(47) 29.01.2025
(22) 31.05.2022
(54) MIXED METAL OXIDES
(73) Imec VZW
(72) KAR, Gouri Sankar
VAN SETTEN, Michiel Jan
POURTOIS, Geoffrey
DEKKERS, Hendrik F.W.

(51) C01G 53/00
C01B 35/12
H01M 4/36
H01M 4/505
H01M 4/525
H01M 4/62
H01M 4/131
H01M 10/0525
(11) EP4286341
(21) EP22779090.4
(47) 29.01.2025
(87) CN2022084517
06.10.2022
(22) 31.03.2022
(54) COBALT-FREE HIGH-NICKEL POSITIVE ELECTRODE MATERIAL, PREPARATION METHOD THEREFOR AND USE THEREOF
(73) SVOLT ENERGY TECHNOLOGY CO., LTD
(72) QIAO, Qiqi
WANG, Pengfei
GUO, Feng
SHI, Zetao
(31) 202110352771
(32) 31.03.2021
(33) China

(51) C01G 53/00
H01M 4/36
(11) EP3979367
(21) EP21769625.1
(47) 29.01.2025
(87) CN2021082711
30.09.2021
(22) 24.03.2021
(54) CATHODE MATERIAL AND PREPARATION METHOD THEREOF AND SECONDARY LITHIUM BATTERY
(73) Panasonic Energy Co., Ltd.
BTR NANO TECH CO., LTD.
(72) ZHANG, Hongxu
NOMURA, Shun
SHINOMIYA, Takuya
MORITA, Koki
LUO, Liang
YANG, Shunyi
HUANG, Youyuan
SONG, Xiong
(31) 202010229098
(32) 27.03.2020
(33) China

(51) C02F 1/42
C02F 1/28
(11) EP4069646
(21) EP20820104.6
(47) 29.01.2025
(87) EP2020084413
10.06.2021
(22) 03.12.2020
(54) FILTER CANDLE AND SYSTEM COMPRISING A FILTER CANDLE FOR PREPARING WATER
(73) BWT Holding GmbH
(72) HOFBAUER, Michael
HITTENBERGER, Hannes
JOHANN, Jürgen
(31) 102019133211
(32) 05.12.2019
(33) Germany

(51) C02F 1/52
C02F 1/76
C02F 1/56
C02F 103/42
(11) EP3990397
(21) EP20832912.8
(47) 29.01.2025
(87) US2020034909
30.12.2020
(22) 28.05.2020
(54) LOW COST AND SANITARY EFFICIENT METHOD THAT CREATES TWO DIFFERENT TREATMENT ZONES IN LARGE WATER BODIES TO FACILITATE DIRECT CONTACT RECREATIONAL ACTIVITIES
(73) Crystal Lagoons Technologies, Inc.
(72) FISCHMANN, Fernando Benjamin
(31) 201916456762
(32) 28.06.2019
(33) United States of America

(51) C02F 1/52
C02F 11/143
C01F 7/74
C22B 7/00
C22B 21/00
C02F 11/127
C02F 103/16
(11) EP4414331
(21) EP24155663.8
(47) 29.01.2025
(22) 05.02.2024
(54) METHOD OF REMOVING ALUMINIUM WASTE IN WASTEWATER
(73) SK Innovation Co., Ltd.
(72) SONG, Jae Yang
(31) 20230017467
(32) 09.02.2023
(33) Korea (Republic)

(51) C02F 3/08
C02F 3/10
C02F 3/12
C02F 1/32
C02F 1/44
(11) EP3558877
(21) EP17825284.7
(47) 29.01.2025
(87) GB2017053890
28.06.2018
(22) 22.12.2017
(54) WASTE WATER PURIFICATION SYSTEM
(73) Ecotricity New Ventures Limited
(72) KAYE, Peter
(31) 201622177
(32) 23.12.2016
(33) United Kingdom

(51) C03B 1/00
C03C 1/00
C03C 1/02
C03C 6/02
C03B 3/00
C03C 13/06
(11) EP4185557
(21) EP21798411.1
(47) 29.01.2025
(87) FR2021051638
31.03.2022
(22) 23.09.2021
(54) PREPARATION OF A COMPOSITION OF RAW MATERIALS
(73) SAINT-GOBAIN ISOVER
(72) DUPEUX, Guillaume
MARTIN, Alexandre
BARBA ROSSA, Guillaume
(31) 2009691
(32) 23.09.2020
(33) France

(51) C03C 3/083
C03C 3/085
C03C 3/087
C03C 3/097
F24C 7/08
C03C 10/00
F24C 15/10
(11) EP3117149
(21) EP15714591.3
(47) 29.01.2025
(87) FR2015050580
17.09.2015
(22) 09.03.2015
(54) GLASS-CERAMIC WORKTOP OF LARGE SIZE
(73) Eurokera S.N.C.
(72) VILATO, Pablo
FERNANDEZ, Javier
ROUX, Nicolas
RAVEL, Michael
LISMONDE, Michel
CHARPENTIER, Bertrand
(31) 1451941
(32) 10.03.2014
(33) France

(51) C03C 3/087
C03C 3/093
C03C 3/097
C03C 10/00
C03C 21/00

(11) EP4385959
(21) EP23215143.1
(47) 29.01.2025
(22) 08.12.2023
(54) TRANSPARENT GLASS CERAMIC, IN PARTICULAR AS A COVER PANE
(73) SCHOTT AG
(72) MARTENS, Uwe
RÜDINGER, Bernd
SCHNEIDER, Meike
(31) 102022133593
(32) 16.12.2022
(33) Germany

(51) C03C 15/00
C03C 15/02
C03C 17/34
(11) EP3681847
(21) EP18783603.6
(47) 29.01.2025
(87) US2018050772
21.03.2019
(22) 12.09.2018
(54) TACTILE ELEMENTS FOR DEADFRONTED GLASS AND METHODS OF MAKING THE SAME
(73) Corning Incorporated
(72) KICZENSKI, Timothy James
FENTON, Matthew Wade
TOKAR, Joshua Lee
JIN, Yuhui
(31) 201862729695 P
201862679278 P
201762557502 P
(32) 11.09.2018
01.06.2018
12.09.2017
(33) United States of America
United States of America
United States of America

(51) C03C 17/36
(11) EP3898546
(21) EP19897888.4
(47) 29.01.2025
(87) TR2019051066
25.06.2020
(22) 12.12.2019
(54) LOW-E COATED GLASS
(73) Türkiye Sise Ve Cam Fabrikalari Anonim Sirketi
(72) ISMAIL, Hasan
TURKUZ, Seniz
DENIZ, Birsel
ARPAT, Erdem
SEZGIN, Alperen
TURUTOGLU, Tuncay
TUNA, Ocal
ERASLAN, Sinem
(31) 201819743
(32) 18.12.2018
(33) Türkiye

(51) C03C 17/38
C03C 15/00
C03C 15/02
C03C 21/00
C03C 17/34
(11) EP3681846
(21) EP18779527.3
(47) 29.01.2025
(87) US2018050590
21.03.2019
(22) 12.09.2018
(54) DEADFRONT FOR DISPLAYS INCLUDING A TOUCH PANEL ON DECORATIVE GLASS AND RELATED METHODS
(73) Corning Incorporated
(72) LESUFFLEUR, Antoine D.
TOKAR, Joshua Lee
FENTON, Matthew Wade
SUN, Yawei
OUYANG, Xu
(31) 201862729695 P
201862679278 P
201762557502 P
(32) 11.09.2018
01.06.2018
12.09.2017
(33) United States of America
United States of America
United States of America

(51) C03C 27/10
C03C 17/23
C23C 14/00
B29C 59/14
(11) EP3736134
(21) EP18897427.3
(47) 29.01.2025
(87) JP2018047204
04.07.2019
(22) 21.12.2018
(54) METHOD FOR BONDING SUBSTRATE
(73) iSABers Japan Co. Ltd.
Suga, Tadatomo
(72) MATSUMOTO,Yoshiie
SUGA, Tadatomo
(31) 2017254137
(32) 28.12.2017
(33) Japan

(51) C04B 7/43
C04B 7/46
(11) EP4259591
(21) EP21819991.7
(47) 29.01.2025
(87) IB2021061403
16.06.2022
(22) 07.12.2021
(54) METHOD OF PRODUCING CLINKER FROM CEMENT RAW MEAL
(73) Holcim Technology Ltd
(72) WEIHRAUCH, Michael
STOFFEL, Beat
BUCHER, Ernst
BLUM, Rudy
BRUSCO, Guillermo
(31) 20020600
(32) 09.12.2020
(33) European Patent Office (EPO)

(51) C04B 28/26
C04B 18/12
C04B 28/00
(11) EP4249449
(21) EP23162182.2
(47) 29.01.2025
(22) 15.03.2023
(54) PROCESS FOR PREPARING COLD FUSION CONCRETE AND CEMENT COMPOSITIONS FROM METAL MINING AND PRODUCTION WASTE
(73) Geopolymer Solutions LLC
(72) Zubrod, Rodney
(31) 202217696793
(32) 16.03.2022
(33) United States of America

(51) C05F 11/00
A01N 37/46
C05F 11/10
C05G 3/60
(11) EP3738943
(21) EP18900041.7
(47) 29.01.2025
(87) ES2018070795
18.07.2019
(22) 10.12.2018
(54) USE OF AN AGRICULTURAL COMPOSITION AS BIOSTIMULANT
(73) Desarrollo Agrícola y Minero, S.A.
(72) MARTÍN ORO, Eitan
BERNAD VIAMONTE, David Cesar
SOLANS ARTIGAS, Carlos
(31) 201830026
(32) 09.01.2018
(33) Spain

(51) C07C 45/50
C07C 47/02
(11) EP4361123
(21) EP22203329.2
(47) 29.01.2025
(22) 24.10.2022
(54) CATALYST PREFORMATION IN HYDROFORMYLATION
(73) Evonik Oxeno GmbH & Co. KG
(72) TLATLIK, Stephen
GOTTSCHALK, Axel

(51) C07C 45/60
C07C 47/19
B01J 47/04
(11) EP3551602
(21) EP17811311.4
(47) 29.01.2025
(87) EP2017081987
14.06.2018
(22) 08.12.2017
(54) PRODUCTION OF GLYCOLALDEHYDE BY THERMOLYTIC FRAGMENTATION
(73) Topsoe A/S
(72) OSMUNDSEN, Christian Mårup
LARSEN, Morten Boberg
(31) PA201600750
(32) 08.12.2016
(33) Denmark

(51) C07C 67/03
C08L 101/00
C07C 29/128
C07C 67/08
(11) EP3681854
(21) EP18856886.9
(47) 29.01.2025
(87) CA2018051135
21.03.2019
(22) 13.09.2018
(54) TEREPHTHALIC ACID ESTERS FORMATION
(73) 9449710 Canada Inc.
(72) ESSADDAM, Fares

ESSADDAM, Adel
(31) 201715706484
(32) 15.09.2017
(33) United States of America

(51) C07C 67/14
C07C 29/147
C07C 33/50
C07C 69/63
C07C 303/28
C07C 309/73
C07D 239/34
C07D 401/12
A61K 31/506
A61P 25/20
A61P 43/00
C07B 61/00
(11) EP3971164
(21) EP20806704.1
(47) 29.01.2025
(87) JP2020019037
19.11.2020
(22) 13.05.2020
(54) METHOD AND COMPOUND USEFUL IN PREPARATION OF OREXIN-2 RECEPTOR ANTAGONIST, AND LEMBOREXANT HAVING FEW IMPURITIES
(73) Eisai R&D Management Co., Ltd.
(72) YOSHIZAWA, Kazuhiro
AYATA, Yusuke
MIURA, Takeshi
ABE, Taichi
YASUDA, Yoshinori
WATANABE, Yuzo
(31) 2019238904
2019092254
(32) 27.12.2019
15.05.2019
(33) Japan
Japan

(51) C07C 209/28
C07C 209/84
B01J 23/72
B01J 27/055
B01J 27/122
B01J 27/25
C07C 45/72
C07C 45/80
C07C 211/29
C07C 51/43
(11) EP3800177
(21) EP20210227.3
(47) 29.01.2025
(22) 20.12.2016
(54) FENFLURAMINE COMPOSITIONS AND METHODS OF PREPARING THE SAME
(73) Zogenix International Limited
(72) ANDERSEN, Marc W.
LONDESBROUGH, Derek
(31) 201562271172 P
(32) 22.12.2015
(33) United States of America

(51) C07C 227/08
C07C 229/08
(11) EP4288410
(21) EP22708580.0
(47) 29.01.2025
(87) FR2022050165
11.08.2022
(22) 31.01.2022
(54) METHOD FOR AMMONOLYSIS OF BROMOALKANOIC ACIDS
(73) ARKEMA FRANCE
(72) PEES, Bernard
DEVAUX, Jean-François
(31) 2100997
(32) 02.02.2021
(33) France

(51) C07C 263/10
(11) EP4247784
(21) EP21814792.4
(47) 29.01.2025
(87) EP2021082629
27.05.2022
(22) 23.11.2021
(54) PROCESS FOR PRODUCING ISOCYANATES
(73) BASF SE
(72) MATTKE, Torsten
THIELE, Kai
FERBITZ, Jens
(31) 20209343
(32) 23.11.2020
(33) European Patent Office (EPO)

(51) C07C 311/29
A61K 31/18
A61P 35/00
A61P 29/00
A61P 3/00
A23L 33/10
C07D 207/27
C07D 209/08
C07D 211/10
C07D 213/42
C07D 231/56
C07D 235/06
C07D 471/04
C07D 417/12
C07D 403/12
C07D 295/135
C07D 401/04
(11) EP4065553
(21) EP21741012.5
(47) 29.01.2025
(87) KR2021000614
22.07.2021
(22) 15.01.2021
(54) NOVEL COMPOUND, PREPARATION METHOD THEREOF, AND USE THEREOF
(73) PimedBio, Inc.
Daegu-Gyeongbuk Medical Innovation Foundation
(72) RO, Seonggu
SONG, Minsoo
JEON, Hui-Jeon
PARK, Young-Hoon
HONG, Eunmi
KIM, Jun Woo
KIM, So Young
KO, Eun Bi
KIM, Nam Hui
LEE, Doohyun
CHOI, Dong Kyu
SEO, Chang Hoon
IM, Chun Young
PARK, Ga Young
PARK, Jeong-Eun
MIN, Sang Hyun
SHIN, Dongkyu
HAN, Ye Ri
YU, Ji Hoon
LEE, Heejin
LEE, Seungyeon
OH, Bae Jun
(31) 20200174237
20200006739
(32) 14.12.2020
17.01.2020
(33) Korea (Republic)
Korea (Republic)

(51) C07D 231/56
C07D 413/04
C07D 413/14
C07D 417/14
C07D 471/04
C07D 471/10
C07D 487/04
C07D 491/048
C07D 491/08
C07D 491/107
A61P 35/00
C07C 49/86
C07C 309/30
A61K 31/416
(11) EP3924340
(21) EP20708434.4
(47) 29.01.2025
(87) EP2020053241
20.08.2020
(22) 10.02.2020
(54) INDAZOLYL-ISOXAZOLE DERIVATIVES FOR THE TREATMENT OF DISEASES SUCH AS CANCER
(73) Merck Patent GmbH
(72) BLUM, Andreas
DORSCH, Dieter
(31) 19156318
(32) 11.02.2019
(33) European Patent Office (EPO)

(51) C07D 307/00
C08G 63/185
(11) EP3986880
(21) EP19736413.6
(47) 29.01.2025
(87) FI2019050487
24.12.2020
(22) 20.06.2019
(54) BIFURAN COPOLYESTERS AND A METHOD FOR PREPARATION THEREOF
(73) Oulun Yliopisto
(72) HEISKANEN, Juha
KAINULAINEN, Tuomo

(51) C07D 403/06
C07D 403/14
C07D 471/04
C07D 487/04
A61K 31/519
A61P 11/00
(11) EP4313972
(21) EP22717821.7
(47) 29.01.2025
(87) EP2022057939

29.09.2022
(22) 25.03.2022
(54) INDOLINE DERIVATIVES AS DDRS INHIBITORS
(73) Chiesi Farmaceutici S.p.A.
(72) MULLINS, Toby Matthew Grover
WHITTAKER, Ben Paul
KNIGHT, Keith Christopher
RANCATI, Fabio
RIZZI, Andrea
CARZANIGA, Laura
KARAWAJCZYK, Anna
IOTTI, Nicolò
(31) 21165281
(32) 26.03.2021
(33) European Patent Office (EPO)

(51) C07D 403/10
H10K 99/00
H10K 50/00
(11) EP4320118
(21) EP22721078.8
(47) 29.01.2025
(87) EP2022059254
13.10.2022
(22) 07.04.2022
(54) ORGANIC MOLECULES FOR OPTOELECTRONIC DEVICES
(73) Samsung Display Co., Ltd.
(72) PASHAZADEH, Ramin
(31) 21167704
(32) 09.04.2021
(33) European Patent Office (EPO)

(51) C07D 413/14
A61K 31/423
A61P 37/00
(11) EP4212529
(21) EP22211893.7
(47) 29.01.2025
(22) 29.03.2019
(54) HETEROCYCLIC COMPOUNDS AS IMMUNOMODULATORS
(73) Incyte Corporation
(72) WU, Liangxing
YAO, Wenqing
LI, Jingwei
(31) 201862687964 P
201862650821 P
(32) 21.06.2018
30.03.2018
(33) United States of America
United States of America

(51) C07D 471/04
A61K 31/519
A61K 31/496
A61P 35/00
(11) EP4081524
(21) EP20845305.0
(47) 29.01.2025
(87) US2020066510
01.07.2021
(22) 22.12.2020
(54) SUBSTITUTED HETEROARYL COMPOUNDS USEFUL AS T CELL ACTIVATORS
(73) Bristol-Myers Squibb Company
(72) WARRIER, Jayakumar Sankara
VELAPARTHI, Upender
OLSON, Richard E.
DARNE, Chetan Padmakar
JALAGAM, Prasada Rao
(31) 201911053558
(32) 23.12.2019
(33) India

(51) C07D 471/04
C07D 519/00
A61P 3/00
A61P 29/02
A61P 35/00
A61K 31/498
(11) EP4367118
(21) EP22785813.1
(47) 29.01.2025
(87) US2022040765
23.02.2023
(22) 18.08.2022
(54) BIFUNCTIONAL DEGRADERS OF INTERLEUKIN-1 RECEPTOR-ASSOCIATED KINASES AND THERAPEUTIC USE THEREOF
(73) Nurix Therapeutics, Inc.
GILEAD SCIENCES, INC.
(72) WU, Jeffrey
KANE, Tim
OZBOYA, Kerem
PALMER, Wylie
LEE, John
(31) 202163234606 P
(32) 18.08.2021
(33) United States of America

(51) C07D 487/02
A61K 31/4196
A61P 25/28
(11) EP4259626
(21) EP21835211.0
(47) 29.01.2025
(87) EP2021084734
16.06.2022
(22) 08.12.2021
(54) PROCESS FOR THE PREPARATION 4-(3,5-DIFLUOROPHENYL)-N-[3-(6-METHYLPYRIMIDIN-4-YL)-3-AZABICYCLO[3.2.1]OCTAN-8-YL]-6,7-DIHYDRO-5H-[1,2,4]TRIAZOLO[1,5-A]PYRIMIDIN-2-AMINE
(73) F. Hoffmann-La Roche AG
(72) CHEN, Weichun
ZHANG, Guocai
(31) PCT/CN2020/135294
(32) 10.12.2020
(33) World Intellectual Property Office (WIPO)

(51) C07D 487/04
(11) EP3966215
(21) EP20727123.0
(47) 29.01.2025
(87) US2020031952
12.11.2020
(22) 07.05.2020
(54) SYNTHESIS OF LABELED IMIDAZO[1,2-A]PYRIMIDINES
(73) F. Hoffmann-La Roche AG
(72) NACK, William
O'SHEA, Paul, D.
ZHANG, Haiming
WHITE, Nicholas Andrew
CLAGG, Kyle Bradley Pascual
GOSSELIN, Francis
(31) 201962937069 P
201962845840 P
(32) 18.11.2019
09.05.2019
(33) United States of America
United States of America

(51) C07D 487/04
C07D 519/00
A61P 35/00
A61K 31/519
(11) EP4139309
(21) EP21716218.9
(47) 29.01.2025
(87) EP2021059015
28.10.2021
(22) 07.04.2021
(54) [1,3]DIAZINO[5,4-D]PYRIMIDINES AS HER2 INHIBITORS
(73) Boehringer Ingelheim International GmbH
(72) ENGELHARDT, Harald
WILDING, Birgit
FUCHS, Julian
TREU, Matthias
NEUMUELLER, Ralph
BOESE, Dietrich
SCHARN, Dirk
PETRONCZKI, Mark
(31) 20171221
(32) 24.04.2020
(33) European Patent Office (EPO)

(51) C07D 487/08
A61K 31/4995
A61P 35/00
(11) EP4305038
(21) EP22714667.7
(47) 29.01.2025
(87) US2022020239
15.09.2022
(22) 14.03.2022
(54) KRAS G12D INHIBITORS
(73) Bristol-Myers Squibb Company
(72) NGU, Khehyong
VELAPARTHI, Upender
CHERNEY, Robert Joseph
FINK, Brian Edward
SHIRUDE, Pravin S.
RAHAMAN, Hasibur
RUAN, Zheming
VACCARO, Wayne David
QIN, Lan-Ying
(31) 202163236497 P
202163220386 P
202163173021 P
202163160431 P
(32) 24.08.2021
09.07.2021
09.04.2021
12.03.2021
(33) United States of America
United States of America
United States of America
United States of America

(51) C07D 487/08
C01B 25/10
C01B 35/06
C30B 29/54
C30B 7/08

G02F 1/03
(11) EP4192837
(21) EP21863160.4
(47) 29.01.2025
(87) CA2021051220
10.03.2022
(22) 02.09.2021
(54) HIGHLY POLARIZABLE 3D ORGANIC PEROVSKITES AND ELECTRO-OPTIC MATERIALS COMPRISING SAME
(73) Huawei Technologies Canada Co., Ltd.
(72) ZHENG, Chao
SARGENT, Edward Hartley
HOOGLAND, Sjoerd
SUN, Meng-Jia
(31) 202117464598
202063073718 P
(32) 01.09.2021
02.09.2020
(33) United States of America
United States of America

(51) C07D 513/20
C07D 513/22
C07D 519/00
A61P 35/00
A61K 31/553
(11) EP4330262
(21) EP22724780.6
(47) 29.01.2025
(87) EP2022060898
03.11.2022
(22) 25.04.2022
(54) MACROCYCLIC 2-ALLYLTETRAHYDROFURANS AS INHIBITORS OF MCL-1
(73) JANSSEN Pharmaceutica NV
(72) HSIAO, Meng-Yang
SURKYN, Michel
URNER, Lorenz, Michael
ROMBOUTS, Frederik, Jan, Rita
DIELS, Gaston, Stanislas, M
JERHAOUI, Soufyan
ROMANOV MICHAILIDIS, Fedor
(31) 21170425
(32) 26.04.2021
(33) European Patent Office (EPO)

(51) C07F 5/02
C09K 11/06
H10K 85/30
H10K 85/60
H10K 50/11
(11) EP4227312
(21) EP21915573.6
(47) 29.01.2025
(87) KR2021018274
07.07.2022
(22) 03.12.2021
(54) NOVEL COMPOUND AND ORGANIC LIGHT EMITTING DEVICE COMPRISING SAME
(73) Lg Chem, Ltd.
(72) YU, Soyoung
LIM, Byeong Yun
LEE, Jaechol
KIM, Shin Sung
KIM, Yongwook
KIM, Young Kwang
CHOI, Hyunju
(31) 20210000317
(32) 04.01.2021
(33) Korea (Republic)

(51) C07F 5/02
C09K 11/06
H10K 85/60
(11) EP4230630
(21) EP21915572.8
(47) 29.01.2025
(87) KR2021018270
07.07.2022
(22) 03.12.2021
(54) NOVEL COMPOUND AND ORGANIC LIGHT EMITTING DEVICE COMPRISING THE SAME
(73) Lg Chem, Ltd.
(72) JEONG, Su Hun
YU, Soyoung
LEE, Jaechol
KIM, Shin Sung
KIM, Yongwook
LIM, Byeong Yun
KIM, Young Kwang
(31) 20210000318
(32) 04.01.2021
(33) Korea (Republic)

(51) C07H 19/06
C07H 19/16
C07H 19/14
A61K 31/7064
A61K 31/7076
A61P 31/12
A61K 31/7068
A61K 31/7072
A61P 1/16
A61P 31/00
A61P 31/04
A61P 31/14
A61P 31/16
A61P 35/00
A61P 43/00
C07H 19/00
C07H 19/04
C07H 19/048
(11) EP4032897
(21) EP21216654.0
(47) 29.01.2025
(22) 21.04.2004
(54) MODIFIED FLUORINATED NUCLEOSIDE ANALOGUES
(73) Gilead Pharmasset LLC
(72) CLARK, Jeremy
(31) 47436803 P
(32) 30.05.2003
(33) United States of America

(51) C07H 19/20
C07F 9/6561
A23L 3/40
A23L 5/00
A23L 23/10
A23L 31/15
A23L 29/00
A23L 29/269
A23L 29/30
A23L 27/00
A23L 27/10
A23L 27/40
A23L 33/13
A23L 27/14
A23L 27/23
A23L 27/50
A23P 10/40
A23P 10/43
A23L 5/20
A23L 31/00
(11) EP3440089
(21) EP17710560.8
(47) 29.01.2025
(87) EP2017056239
12.10.2017
(22) 16.03.2017
(54) DEHYDRATED NA2-IMP AS ANTI-CAKING AGENT
(73) Société des Produits Nestlé S.A.
(72) ULMER, Helge
FORNY, Laurent
NG, Yun Ting Sherrilyn
(31) 16164489
(32) 08.04.2016
(33) European Patent Office (EPO)

(51) C07K 7/08
A61P 31/04
A61K 38/00
(11) EP4347618
(21) EP22735060.0
(47) 29.01.2025
(87) US2022031732
08.12.2022
(22) 01.06.2022
(54) CYCLIC PEPTIDE ANTIBIOTICS
(73) Genentech, Inc.
(72) NISHIKAWA, Junichi
REID, Patrick C.
YANAGIDA, Hayato
RUTHERFORD, Steven Thomas
PAYANDEH, Jian Mehr-Dean
STOREK, Kelly Marie Colvin
CUNNINGHAM, Christian Nathaniel
(31) 202163196374 P
(32) 03.06.2021
(33) United States of America

(51) C07K 14/005
C12N 15/86
C12N 15/10
(11) EP4200316
(21) EP21759121.3
(47) 29.01.2025
(87) GB2021052160
24.02.2022
(22) 20.08.2021
(54) PROCESS FOR MAKING A RECOMBINANT AAV LIBRARY
(73) Oxford Genetics Limited
Oxford University Innovation Limited
(72) CAWOOD, Ryan
SU, Weiheng
PAYNE, Thomas Augustus
(31) 202109962
202013058
(32) 09.07.2021
21.08.2020
(33) United Kingdom
United Kingdom

(51) C07K 14/31
C07K 14/47
A61K 38/00

(11) EP4244238
(21) EP21802381.0
(47) 29.01.2025
(87) EP2021081438
19.05.2022
(22) 11.11.2021
(54) BINDING PROTEIN FOR COMPLEMENT FACTOR H (CFH)
(73) NAVIGO PROTEINS GMBH
(72) LOTZE, Jonathan
KAHL, Mathias
FIEDLER, Erik
(31) 20207536
(32) 13.11.2020
(33) European Patent Office (EPO)

(51) C07K 14/47
A61K 38/00
A61K 47/64
C07K 14/00
(11) EP4323388
(21) EP22715644.5
(47) 29.01.2025
(87) EP2022060178
20.10.2022
(22) 15.04.2022
(54) N-TERMINAL CAPPING MODULES OF ANKYRIN REPEAT DOMAINS
(73) Athebio AG
(72) FORRER, Patrik
EAPEN, Rohan Sakariah
(31) 202117232470
PCT/EP2021/072819
21199643
(32) 16.04.2021
17.08.2021
28.09.2021
(33) United States of America
World Intellectual Property Office (WIPO)
European Patent Office (EPO)

(51) C07K 14/47
A61K 38/00
A61K 47/64
C07K 14/00
(11) EP4192851
(21) EP21765861.6
(47) 29.01.2025
(87) EP2021072819
24.02.2022
(22) 17.08.2021
(54) N-TERMINAL CAPPING MODULES OF ANKYRIN REPEAT DOMAINS
(73) Athebio AG
(72) FORRER, Patrik
SCHILLING, Johannes
(31) 202117232470
20191632
(32) 16.04.2021
18.08.2020
(33) United States of America
European Patent Office (EPO)

(51) C07K 14/575
A61K 47/54
A61P 3/04
A61P 1/00
A61P 3/10
A61K 38/00
(11) EP3307768
(21) EP16734567.7
(47) 29.01.2025
(87) EP2016063429
15.12.2016
(22) 13.06.2016
(54) SELECTIVE PYY COMPOUNDS AND USES THEREOF
(73) Novo Nordisk A/S
(72) ØSTERGAARD, Søren
SANFRIDSON, Annika
WULFF, Birigtte Schjellerup
JESSEN, Carsten
(31) 15171785
(32) 12.06.2015
(33) European Patent Office (EPO)

(51) C07K 14/78
(11) EP4172190
(21) EP21828231.7
(47) 29.01.2025
(87) JP2021006136
30.12.2021
(22) 18.02.2021
(54) MODIFIED GELATINS
(73) FUJIFILM Corporation
(72) VAN DONGEN, Elisabeth Marianna Wilhelmina Maria
VAN BOXTEL, Huibert Albertus
(31) 202009772
(32) 26.06.2020
(33) United Kingdom

(51) C07K 16/28
A61P 35/00
A61K 39/00
A61P 35/02
(11) EP3371219
(21) EP16794556.7
(47) 29.01.2025
(87) EP2016076747
11.05.2017
(22) 04.11.2016
(54) IMMUNOMODULATORY ANTIBODIES
(73) Cancer Research Technology Limited
(72) WILLOUGHBY, Jane Elizabeth
AL-SHAMKHANI, Aymen
GLENNIE, Martin John
CHAN, Hak Tak Claude
CRAGG, Mark Steven
FRENCH, Ruth Rosemary
(31) 201519481
(32) 04.11.2015
(33) United Kingdom

(51) C08B 15/04
C08B 11/12
(11) EP3902841
(21) EP19904463.7
(47) 29.01.2025
(87) US2019068412
02.07.2020
(22) 23.12.2019
(54) NITRIC OXIDE-RELEASING ANTIBACTERIAL POLYMERS AND SCAFFOLDS FABRICATED THEREFROM AND METHODS PERTAINING THERETO
(73) The University of North Carolina at Chapel Hill
(72) YANG, Lei
MALONEY, Sara Elizabeth
AHONEN, Mona Jasmine R.
SCHOENFISCH, Mark H.
JIN, Haibao
FEURA, Evan Scott
(31) 201862786098 P
(32) 28.12.2018
(33) United States of America

(51) C08B 37/00
C08B 37/08
B03B 5/28
B03B 5/44
B01D 21/01
(11) EP3004177
(21) EP14737300.5
(47) 29.01.2025
(87) GB2014051682
04.12.2014
(22) 02.06.2014
(54) PROCESS FOR THE REMOVAL OF CONTAMINATION FROM A RAW MATERIAL
(73) Medtrade Products Limited
(72) HARDY, Craig
HOGGARTH, Andrew
(31) 201309788
(32) 31.05.2013
(33) United Kingdom

(51) C08C 19/06
C08C 19/14
C08J 9/16
C08K 5/00
C08L 25/06
(11) EP3902843
(21) EP18905911.6
(47) 29.01.2025
(87) RU2018000887
02.07.2020
(22) 27.12.2018
(54) MODIFIED DIENE-CONTAINING (CO)POLYMER, METHOD FOR PREPARING THEREOF AND USE AS A FLAME RETARDANT
(73) Public Joint Stock Company "Sibur Holding"
(72) POPOVTSEV, Egor Evgenievich
BABIN, Ivan Anatolievich
LENEV, Denis Alekseevich
GUSTYAKOVA, Svetlana Igorevna

(51) C08F 6/00
C08F 220/44
D01F 6/38
D01F 9/22
C08F 120/44
C08J 11/02
D01F 13/04
(11) EP4335879
(21) EP23192665.0
(47) 29.01.2025
(22) 22.08.2023
(54) PROCESS FOR THE RECOVERY AND RECYCLING OF UNREACTED MONOMER IN A SINGLE-STEP PROCESS FOR THE PRODUCTION OF A CARBON-FIBER PRECURSOR
(73) Montefibre Mae Technologies S.R.L.
(72) CORREIA, Paulo
VIDIGAL, Ana Paula
BARETTER, Paolo
FRANCALANCI, Franco

REIA, Ivo
(31) 202200017541
(32) 24.08.2022
(33) Italy

(51) C08F 8/32
B01J 41/12
B01D 69/02
B01D 71/80
C08J 5/22
(11) EP4253427
(21) EP23164358.6
(47) 29.01.2025
(22) 27.03.2023
(54) STYRENIC BLOCK COPOLYMER AND ANION EXCHANGE MEMBRANES MADE THEREOF
(73) Kraton Polymers Nederland B.V.
(72) YAN, Jiaqi
DING, Ruidong
DESHMUKH, Sanesh
TIAN, Jason
BENING, Robert
TOCCHETTO, Roger
MHETAR, Vijay
(31) 202263362076 P
(32) 29.03.2022
(33) United States of America

(51) C08F 210/06
C08L 23/14
C08J 5/18
(11) EP4288468
(21) EP21755914.5
(47) 29.01.2025
(87) EP2021071343
11.08.2022
(22) 29.07.2021
(54) SUPERIOR C2C3C4 TERPOLYMER BASED BLOWN FILM AND C2C3C4 TERPOLYMER
(73) Borealis AG
(72) GAHLEITNER, Markus
BERNREITNER, Klaus
WANG, Jingbo
LESKINEN, Pauli
(31) 21154802
(32) 02.02.2021
(33) European Patent Office (EPO)

(51) C08F 210/06
C08L 23/14
C08J 5/18
(11) EP4288469
(21) EP22700853.9
(47) 29.01.2025
(87) EP2022052216
11.08.2022
(22) 31.01.2022
(54) FILM MADE FROM C2C3C4 TERPOLYMER - C3C4 COPOLYMER BLEND AND C2C3C4 TERPOLYMER - C3C4 COPOLYMER BLEND
(73) Borealis AG
(72) ORTNER, Stefan
WANG, Jingbo
LESKINEN, Pauli
NIEDERSÜSS, Peter
BERNREITNER, Klaus
GAHLEITNER, Markus
(31) 21154802
(32) 02.02.2021
(33) European Patent Office (EPO)

(51) C08F 210/16
C08F 4/6592
(11) EP2921509
(21) EP13854625.4
(47) 29.01.2025
(87) KR2013010392
22.05.2014
(22) 15.11.2013
(54) METHOD FOR PREPARING ETHYLENE AND ALPHA-OLEFIN COPOLYMERS
(73) DL Chemical CO., LTD
(72) SOHN, Byung-Keel
UHM, Jae Hoon
MUN, Sang-Deok
BAE, Hee-Sun
HONG, Sah-Mun
JU, Jin-Hun
(31) 20120130792
(32) 19.11.2012
(33) Korea (Republic)

(51) C08F 220/56
C12Q 1/6874
C08F 220/20
C08F 220/60
C08F 230/06
C12Q 1/6853
(11) EP3911686
(21) EP19910087.6
(47) 29.01.2025
(87) US2019067555
23.07.2020
(22) 19.12.2019
(54) FLOW CELL INCLUDING A HETEROPOLYMER
(73) Illumina Cambridge Limited
Illumina, Inc.
(72) LESSARD-VIGER, Mathieu
GEORGE, Wayne N.
BROWN, Andrew A.
VINCENT, Ludovic
(31) 201962792250 P
(32) 14.01.2019
(33) United States of America

(51) C08F 265/06
C09D 5/02
(11) EP4010387
(21) EP20751086.8
(47) 29.01.2025
(87) EP2020071092
11.02.2021
(22) 27.07.2020
(54) WATER-BORNE POLYMERS POLYMERIZED BY RADICAL POLYMERIZATION WITH AZO INITIATORS, A PROCESS FOR MAKING SUCH AND THE APPLICATIONS THEREOF
(73) BASF SE
(72) WEI, Zhen
ZENG, Zhong
ZHANG, En, Lin
(31) PCT/CN2019/099491
(32) 06.08.2019
(33) World Intellectual Property Office (WIPO)

(51) C08F 279/02
C08F 236/04
C08F 236/10
C08L 51/04
C08L 27/06
C08F 228/02
C08F 285/00
C08F 6/22
(11) EP3981807
(21) EP21795655.6
(47) 29.01.2025
(87) KR2021004864
04.11.2021
(22) 19.04.2021
(54) GRAFT COPOLYMER, METHOD FOR PREPARING SAME, AND RESIN COMPOSITION COMPRISING SAME
(73) LG Chem, Ltd.
(72) YOO, Ki Hyun
KIM, Yoon Ho
NAM, Sang Il
LEE, Kwang Jin
(31) 20200052725
(32) 29.04.2020
(33) Korea (Republic)

(51) C08F 279/04
C08F 220/18
C08F 220/04
C08F 2/24
C08F 6/18
C08C 1/15
C08F 6/00
C08F 6/02
C08F 6/22
C08F 2/26
C08F 220/14
C08L 25/12
(11) EP3916030
(21) EP20868716.0
(47) 29.01.2025
(87) KR2020012068
01.04.2021
(22) 07.09.2020
(54) METHOD OF PREPARING GRAFT POLYMER
(73) LG CHEM, LTD.
(72) JEON, Hee Jung
HWANG, Moon Ja
KIM, Geon Soo
KIM, Chang Hoe
CHAE, Min Su
KIM, Hyung Joon
(31) 20190117615
(32) 24.09.2019
(33) Korea (Republic)

(51) C08G 12/12
C09J 161/24
B27N 1/00
B27N 1/02
B27N 3/00
B27N 3/02
B27N 3/04
B27N 3/18
B27N 7/00
B27N 9/00
B27N 3/24
(11) EP4386024
(21) EP23214712.4
(47) 29.01.2025
(22) 06.12.2023

(54) METHOD FOR PRODUCING BOARDS
(73) Unilin, BV
(72) Bilcke, Wannes
Baekelandt, Bert
Van Hezel, Sven
Lambregts, Martijn
Melis, Mathilde
(31) 202206029
(32) 16.12.2022
(33) Belgium

(51) C08G 18/08
C09D 175/16
C08G 18/75
C08G 18/72
C08G 18/73
C08G 18/79
C08G 18/67
C08G 18/68
(11) EP4263650
(21) EP21816486.1
(47) 29.01.2025
(87) EP2021083702
23.06.2022
(22) 01.12.2021
(54) AQUEOUS BIO-BASED ENERGY CURABLE POLYURETHANE COMPOSITION
(73) Allnex Belgium, S.A.
(72) TIELEMANS, Michel
(31) 20215276
(32) 18.12.2020
(33) European Patent Office (EPO)

(51) C08G 18/22
C08G 18/32
C08G 18/73
C08G 18/79
C08G 18/80
C09D 11/30
B33Y 70/00
B33Y 10/00
B33Y 80/00
C09D 11/101
C09D 11/106
C08F 220/18
C08F 290/06
B29C 64/112
B29C 64/40
B33Y 40/20
B29C 64/30
(11) EP4291590
(21) EP22728250.6
(47) 29.01.2025
(87) EP2022062680
15.12.2022
(22) 10.05.2022
(54) DUAL CURE ISOCYANATE INKJET COMPOSITION
(73) ALTANA New Technologies GmbH
(72) RÖTTGER, Max
LANGHORST, Sascha
ASMACHER, Anne
REISER, René
(31) 21178536
(32) 09.06.2021
(33) European Patent Office (EPO)

(51) C08G 18/48
C08G 18/50
C08G 18/76
C08G 18/20
(11) EP3784710
(21) EP19728163.7
(47) 29.01.2025
(87) US2019028663
31.10.2019
(22) 23.04.2019
(54) RIGID POLYURETHANE FOAMS SUITABLE FOR USE AS PANEL INSULATION
(73) Covestro LLC
(72) SOUNIK, David F.
RIDER, Shawn G.
(31) 201815961328
(32) 24.04.2018
(33) United States of America

(51) C08G 63/685
C08G 18/46
C08G 63/91
C09D 175/06
C09J 175/06
C08G 18/73
C08G 18/79
(11) EP4192900
(21) EP21758345.9
(47) 29.01.2025
(87) EP2021071681
10.02.2022
(22) 03.08.2021
(54) BRANCHED POLYASPARTIC ACID ESTERS AND THEIR PREPARATION
(73) BASF SE
(72) BRUCHMANN, Bernd
SZWEDA, Dawid
MUELLER-CRISTADORO, Anna Maria
(31) 20189411
(32) 04.08.2020
(33) European Patent Office (EPO)

(51) C08G 63/91
C10L 1/238
C09K 8/035
C09K 8/524
C08G 63/06
C08G 63/48
C10L 1/198
C10L 10/16
C08K 5/01
C08L 91/06
(11) EP4396265
(21) EP22768381.0
(47) 29.01.2025
(87) EP2022073281
09.03.2023
(22) 22.08.2022
(54) HYPERBRANCHED POLYESTERS MODIFIED WITH BRANCHED FATTY ACIDS AND THEIR USE AS PARAFFIN INHIBITORS
(73) BASF SE
(72) WOLF, Elena
LAFUENTE CERDA, Oscar
(31) 21193760
(32) 30.08.2021
(33) European Patent Office (EPO)

(51) C08G 65/26
(11) EP4056625
(21) EP22160701.3
(47) 29.01.2025
(22) 08.03.2022
(54) METHODS FOR REMOVING AMINE CONTAMINANTS FROM EQUIPMENT USED IN THE PRODUCTION OF POLYETHER POLYOLS
(73) Covestro LLC
(72) STARKEY, Chuck
CHRISTMAN, Mark
CAPUTO, Jenna
WAGNER, Daniel
BARKSBY, Nigel
(31) 202117196075
(32) 09.03.2021
(33) United States of America

(51) C08G 65/334
C08F 293/00
C09D 171/02
C12M 3/00
C12N 5/0775
C08B 37/16
(11) EP4253446
(21) EP21897913.6
(47) 29.01.2025
(87) JP2021042821
02.06.2022
(22) 22.11.2021
(54) POLYROTAXANE HAVING AMINO GROUP
(73) Denka Company Limited
National University Corporation Tokyo Medical and Dental University
(72) HAKARIYA, Masahiro
AOYAMA SEKIYA, Ruriko
YODA, Tetsuya
ARISAKA, Yoshinori
IWATA, Takanori
MASUDA, Hiroki
YUI, Nobuhiko
(31) 2020196319
(32) 26.11.2020
(33) Japan

(51) C08G 65/336
C09K 3/18
(11) EP4071197
(21) EP20896392.6
(47) 29.01.2025
(87) JP2020044129
10.06.2021
(22) 27.11.2020
(54) FLUOROPOLYETHER GROUP-CONTAINING POLYMER, SURFACE TREATMENT AGENT, AND ARTICLE
(73) Shin-Etsu Chemical Co., Ltd.
(72) SAKOH, Ryusuke
YAMANE, Yuji
(31) 2019218980
(32) 03.12.2019
(33) Japan

(51) C08G 65/40
C08G 65/48
C08L 71/12
(11) EP4334376
(21) EP22726511.3
(47) 29.01.2025
(87) IB2022054048
10.11.2022
(22) 02.05.2022

(54) CAPPED BISPHENOL POLYETHER OLIGOMER AND COMPOSITION, METHOD OF MANUFACTURE, AND ARTICLES MADE THEREFROM
(73) SHPP Global Technologies B.V.
(72) TARKIN-TAS, Eylem
MAHOOD, James Alan
DHAHIR, Yasser
PINGITORE, Andrew Thomas
(31) 21172126
(32) 04.05.2021
(33) European Patent Office (EPO)

(51) C08G 75/045
C08K 3/00
C08L 81/02
(11) EP4136136
(21) EP21723577.9
(47) 29.01.2025
(87) US2021027470
21.10.2021
(22) 15.04.2021
(54) CONTROLLING CURE RATE WITH WETTED FILLER
(73) PRC-Desoto International, Inc.
(72) TOOLIS, Amy Liane
MARTIN, Justin
CLINGERMAN, Daniel
HSU, Lorraine
(31) 202016848909
(32) 15.04.2020
(33) United States of America

(51) C08H 7/00
C08L 97/00
C10G 1/00
C10G 1/04
C10G 3/00
(11) EP3990523
(21) EP20739789.4
(47) 29.01.2025
(87) SE2020050670
30.12.2020
(22) 26.06.2020
(54) PROCESSES FOR OBTAINING SUBSTANCES FROM BARK AND A COMPOSITION CONTAINING BARK FOR USE IN THE PROCESSES
(73) Ren Fuel K2B Ipco AB
(72) SAMEC, Joseph
KUMANIAEV, Ivan
(31) 1950818
(32) 28.06.2019
(33) Sweden

(51) C08J 3/12
B33Y 10/00
B33Y 70/10
B33Y 80/00
B29C 64/141
C08J 3/20
B29C 64/153
(11) EP4437032
(21) EP24703204.8
(47) 29.01.2025
(87) EP2024052736
22.08.2024
(22) 05.02.2024
(54) POWDER, ESPECIALLY FOR LAYER-BY-LAYER PRODUCTION OF THREE-DIMENSIONAL OBJECTS
(73) Evonik Operations GmbH
(72) GREBE, Maik
EHRING, Sebastian
(31) 23157080
(32) 16.02.2023
(33) European Patent Office (EPO)

(51) C08J 5/02
C08J 7/18
C08K 5/09
C08K 5/3415
C08K 5/45
C08F 236/06
(11) EP3722355
(21) EP18885155.4
(47) 29.01.2025
(87) KR2018015273
13.06.2019
(22) 04.12.2018
(54) DIP MOLDED PRODUCT, LATEX COMPOSITION FOR DIP MOLDING, AND PREPARATION METHODS THEREFOR
(73) LG Chem, Ltd.
(72) KIM, Jung Eun
KWON, Won Sang
JUNG, Yong Seok
OH, Seung Whan
SHIN, Sang Jin
(31) 20170167948
(32) 08.12.2017
(33) Korea (Republic)

(51) C08J 5/18
B29C 55/00
C08L 67/03
A61J 1/00
(11) EP4247881
(21) EP21847553.1
(47) 29.01.2025
(87) US2021059723
27.05.2022
(22) 17.11.2021
(54) THERMOFORMED PACKAGING AND METHODS OF FORMING THE SAME
(73) Klöckner Pentaplast of America, Inc.
(72) STEWART, Seth, Thomas
STAGNARO, Carlos, Daniel
KAMMAUFF, Wade Jackson
(31) 202063115297 P
(32) 18.11.2020
(33) United States of America

(51) C08J 5/18
C08J 9/10
C08L 27/06
E04C 2/20
E04F 15/00
C08K 3/26
C08K 5/098
C08K 5/11
C08K 5/23
(11) EP4206262
(21) EP22167380.9
(47) 29.01.2025
(22) 08.04.2022
(54) LOW-DENSITY PVC PLASTICS FLOORING AND PREPARATION METHOD THEREOF
(73) Zhejiang Tianzhen Technology Co., Ltd.
(72) FANG, Qinghua
TANG, Wenjin
(31) 202111632931
(32) 29.12.2021
(33) China

(51) C08J 5/18
C08J 11/04
B29C 55/12
B29B 17/02
B29C 55/00
B29K 67/00
C08J 11/24
B29B 17/00
B29D 7/01
(11) EP3938431
(21) EP20772606.8
(47) 29.01.2025
(87) IB2020052943
24.09.2020
(22) 27.03.2020
(54) A PROCESS AND AN APPARATUS FOR MANUFACTURING BI-AXIALLY ORIENTED POLYESTER FILM FROM RPET
(73) Polyplex Corporation Limited
(72) KOTHARI, Pranay
REDDY, Krishna
(31) 201911010137
(32) 15.03.2019
(33) India

(51) C08J 9/12
C08J 9/18
C08J 9/232
(11) EP4310134
(21) EP23183738.6
(47) 29.01.2025
(22) 05.07.2023
(54) POLYPROPYLENE-BASED RESIN EXPANDED BEADS AND MOLDED ARTICLE THEREOF
(73) JSP Corporation
(72) Masumoto, Hisashi
(31) 2022117212
(32) 22.07.2022
(33) Japan

(51) C08J 11/10
B09B 3/60
(11) EP4259706
(21) EP21836231.7
(47) 29.01.2025
(87) IB2021061353
16.06.2022
(22) 06.12.2021
(54) PLASTIC-DEGRADING SOLUTION
(73) Innovazione e Sviluppo Sostenibile S.r.l.
(72) BUONAMICI, Guglielmo
(31) 202000030200
(32) 09.12.2020
(33) Italy

(51) C08J 11/14
C08J 11/28
C07C 209/62
(11) EP4251685
(21) EP21824506.6
(47) 29.01.2025
(87) EP2021083434
02.06.2022
(22) 29.11.2021

(54) PROCESS FOR THE DECOMPOSITION OF POLYURETHANE
(73) NEVEON GERMANY GMBH
(72) BETTINGER, Herbert
(31) 102020131581
(32) 27.11.2020
(33) Germany

(51) C08J 11/16
C08J 11/24
C08L 67/02
C08L 75/04
(11) EP3838977
(21) EP21152440.0
(47) 29.01.2025
(22) 13.06.2019
(54) METHOD FOR DEGRADATION OF PLASTICS
(73) RAMPF Advanced Polymers GmbH & Co. KG
(72) Kugler, Michael
(31) 102018209567
(32) 14.06.2018
(33) Germany

(51) C08K 3/22
C08K 3/34
C08K 5/098
C08L 23/06
C08L 23/12
C08L 25/06
C08L 67/02
B41M 5/44
(11) EP4198078
(21) EP22176105.9
(47) 29.01.2025
(22) 30.05.2022
(54) NOVEL PHOTO- AND BIODEGRADABLE POLYMERS BASED ON PECTIN NANOPARTICLES
(73) Sadeghi-Esfahlani, Nariman
Amiri, Sahar
(72) AMIRI, Sahar
(31) 202163291403 P
(32) 19.12.2021
(33) United States of America

(51) C08K 3/22
C08L 83/04
C08L 83/06
(11) EP4284868
(21) EP22704449.2
(47) 29.01.2025
(87) US2022012245
04.08.2022
(22) 13.01.2022
(54) FILLED SILICONE COMPOSITION CONTAINING SUCCINIC ANHYDRIDE FUNCTIONAL SILOXANE THIXOTROPIC AGENTS
(73) Dow Silicones Corporation
Dow Global Technologies LLC
(72) BECERRA, Andrés
HANSEN, Darren
MCDONALD, Kyle
LI, Zhanjie
AHN, Dongchan
SOOTSMAN, Joseph
COOPER, Richard
CHANG, Chi-Hao
(31) 202163142014 P
(32) 27.01.2021
(33) United States of America

(51) C08L 1/02
C08L 3/02
C08L 29/02
C08L 97/02
(11) EP3313926
(21) EP16745832.2
(47) 29.01.2025
(87) IB2016053777
29.12.2016
(22) 24.06.2016
(54) HIGHLY ENVIRONMENTALLY SUSTAINABLE COMPOSITE MATERIAL
(73) ANCEPS SA
NextMaterials S.r.l.
(72) TANZI, Maria Cristina
PROFAIZER, Mauro
CIGADA, Alberto
DEL CURTO, Barbara
FARE', Silvia
BARELLI, Nadia
(31) UB20151722
(32) 26.06.2015
(33) Italy

(51) C08L 1/12
C08B 3/06
C08B 3/24
(11) EP4234586
(21) EP23168462.2
(47) 29.01.2025
(22) 09.12.2019
(54) CELLULOSE ACETATE AND CELLULOSE ACETATE COMPOSITION
(73) Daicel Corporation
(72) MATSUMURA, Hiroyuki
KUSUMOTO, Masaaki
GA, Kyokutou

(51) C08L 1/16
C08B 5/00
C08B 3/00
C08L 1/10
C08B 3/14
C09K 21/12
(11) EP4028469
(21) EP20772248.9
(47) 29.01.2025
(87) EP2020075448
18.03.2021
(22) 11.09.2020
(54) PHOSPHORUS-CONTAINING CELLULOSE ESTERS, METHODS FOR THEIR PREPARATION, THEIR USE, AND FLAME RETARDANTS
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) SPERLICH, Benedikt
NEZAMI, Robin
CHALWATZIS, Elias
CIESIELSKI, Michael
(31) 102019213793
(32) 11.09.2019
(33) Germany

(51) C08L 5/16
C08L 71/02
C08B 37/16
C08G 83/00
C08J 3/24
(11) EP4105276
(21) EP20918554.5
(47) 29.01.2025
(87) JP2020044782
19.08.2021
(22) 02.12.2020
(54) POLYROTAXANE, POLYMER COMPOSITION, CROSS-LINKED POLYMER COMPOSITION, AND METHOD FOR PRODUCING CROSS-LINKED POLYMER COMPOSITION
(73) The University of Tokyo
Toyoda Gosei Co., Ltd.
(72) INOUE Katsunari
AKAHORI Naoyuki
MAEDA Rina
IWASE Naoki
NAKAI Takanori
ANDO Shota
ITO Kohzo
ISHIDA Makoto
IMAI Hideyuki
KURIMOTO Hidekazu
(31) 2020021219
(32) 12.02.2020
(33) Japan

(51) C08L 7/00
B60C 1/00
B60C 9/14
C08K 3/04
C08K 3/06
C08K 3/36
C08K 5/44
(11) EP4276146
(21) EP23172436.0
(47) 29.01.2025
(22) 09.05.2023
(54) COMMERCIAL VEHICLE TYRE
(73) Continental Reifen Deutschland GmbH
(72) Kleffmann, Jens
Jeromin, Dieter
(31) 102022204703
(32) 13.05.2022
(33) Germany

(51) C08L 23/06
(11) EP4232510
(21) EP21791305.2
(47) 29.01.2025
(87) EP2021078019
28.04.2022
(22) 11.10.2021
(54) POLYMER COMPOSITION FOR INJECTION MOLDING
(73) Basell Poliolefine Italia S.r.l.
(72) MUSACCHI, Gianluca
DI PIETRO, Fabio
MARCHINI, Roberta
(31) 20203367
(32) 22.10.2020
(33) European Patent Office (EPO)

(51) C08L 23/12
C08J 5/18
B32B 15/085
H01G 4/32
H01G 4/012
H01G 4/015
H01G 4/18
(11) EP4105281

(21) EP21753506.1
(47) 29.01.2025
(87) JP2021004874
19.08.2021
(22) 10.02.2021
(54) POLYPROPYLENE FILM, POLYPROPYLENE FILM INTEGRATED WITH METAL LAYER, AND FILM CAPACITOR
(73) Oji Holdings Corporation
(72) ISHIWATA, Tadakazu
ISHIDA, Tatsuji
TOMINAGA, Takeshi
(31) 2020021942
(32) 12.02.2020
(33) Japan

(51) C08L 29/04
B32B 27/28
B65D 65/02
B65D 65/40
C08K 5/09
C08K 5/315
B29B 9/12
(11) EP3733766
(21) EP18897810.0
(47) 29.01.2025
(87) JP2018044240
04.07.2019
(22) 30.11.2018
(54) RESIN COMPOSITION INCLUDING ETHYLENE/VINYL ALCOHOL COPOLYMER, AND MOLDED OBJECT AND PACKAGING MATERIAL BOTH COMPRISING SAME
(73) Kuraray Co., Ltd.
(72) YOSHIDA, Kentaro
(31) 2017250575
(32) 27.12.2017
(33) Japan

(51) C08L 69/00
(11) EP4015579
(21) EP20214748.4
(47) 29.01.2025
(22) 16.12.2020
(54) POLYCARBONATE COPOLYMER FORMULATION WITH IMPROVED HEAT, EXCELLENT IMPACT AND FLAME RETARDANT PERFORMANCE
(73) SHPP Global Technologies B.V.
(72) Zhao, Wei
Zhou, Hao
Tosomboon, Monchai

(51) C08L 83/04
C09J 183/04
(11) EP3676332
(21) EP18766336.4
(47) 29.01.2025
(87) IB2018056093
07.03.2019
(22) 13.08.2018
(54) SOLID SILOXANE POLYMERS AS DELIVERY AGENTS FOR SILOXANE TACKIFYING RESINS
(73) Solventum Intellectual Properties Company
(72) JENNEN, Jay M.
HAMER, Craig E.
TSE, Kiu-Yuen
SHERMAN, Audrey A.
(31) 201762550911 P
(32) 28.08.2017
(33) United States of America

(51) C09C 1/00
C09C 1/64
(11) EP4339246
(21) EP22195362.3
(47) 29.01.2025
(22) 13.09.2022
(54) YELLOW METAL INTERFERENCE PIGMENTS HAVING A GREEN STING, A METHOD FOR THE PRODUCTION THEREOF AND USE THEREOF
(73) Schlenk Metallic Pigments GmbH
(72) Binder, Yvonne
Piech, Fabian
Huber, Adalbert

(51) C09D 5/00
(11) EP3702415
(21) EP19214011.9
(47) 29.01.2025
(22) 09.09.2016
(54) RADIATION CURABLE COMPOSITIONS FOR LOW GLOSS COATINGS
(73) Allnex Belgium
(72) VANMEULDER, Guido
(31) 15185233
(32) 15.09.2015
(33) European Patent Office (EPO)

(51) C09D 5/00
C09D 5/03
C09D 133/06
C09D 5/02
(11) EP4267683
(21) EP21836208.5
(47) 29.01.2025
(87) EP2021086882
07.07.2022
(22) 20.12.2021
(54) ACRYLATE RESINS AND POWDER COATING COMPOSITIONS AND POWDER COATED SUBSTRATES INCLUDING THE SAME
(73) Akzo Nobel Coatings International B.V.
(72) GRAY, Elaine
FLEETHAM, Victoria Paterson
UNTHANK, Matthew George
(31) 20217340
(32) 28.12.2020
(33) European Patent Office (EPO)

(51) C09D 5/00
C09D 5/16
C09D 7/62
C09D 7/80
(11) EP3708617
(21) EP20159042.9
(47) 29.01.2025
(22) 24.02.2020
(54) COMPOSITION AND METHOD FOR PREPARATION OF HYDROPHOBIC COATING
(73) Tata Consultancy Services Limited
(72) Daware, Santosh Vasant
Rai, Beena
(31) 201921010010
(32) 14.03.2019
(33) India

(51) C09D 11/322
C09D 11/38
C09K 3/16
C09D 7/41
C01G 19/02
(11) EP4130173
(21) EP21800221.0
(47) 29.01.2025
(87) ES2021070298
11.11.2021
(22) 30.04.2021
(54) ANTISTATIC HYBRID INK COMPOSITION
(73) Torrecid, S.A.
(72) RUIZ VEGA, Óscar
CORTS RIPOLL, Juan Vicente
CONCEPCIÓN HEYDORN, Carlos
BRUGADA SECO, Laura
(31) 202030408
(32) 07.05.2020
(33) Spain

(51) C09D 17/00
C09D 11/326
C09D 11/101
(11) EP4209559
(21) EP21864075.3
(47) 29.01.2025
(87) JP2021029732
10.03.2022
(22) 12.08.2021
(54) PIGMENT DISPERSANT COMPOSITION, PRODUCTION METHOD THEREFOR, PIGMENT DISPERSION, AND ACTINIC-RAY-CURABLE INK-JET INK
(73) DAINICHISEIKA COLOR & CHEMICALS MFG. CO., LTD.
(72) ARAI, Kazutaka
KAMABAYASHI, Jun
FUJITA, Toshiyasu
YOSHIKAWA, Sachio
MURAKAMI, Yoshikazu
SHIMANAKA, Hiroyuki
(31) 2020148425
(32) 03.09.2020
(33) Japan

(51) C09D 183/04
(11) EP4347734
(21) EP22729121.8
(47) 29.01.2025
(87) EP2022062894
01.12.2022
(22) 12.05.2022
(54) ENVIRONMENTALLY FRIENDLY COMPOSITION FOR TREATING MINERAL SUBSTRATES
(73) Evonik Operations GmbH
(72) ZEISEL, Steffen
GÜZELSAHIN, Mustafa
MARTENS-KRUCK, Susanne Christine
LJESIC, Spomenko
(31) 21176149
(32) 27.05.2021
(33) European Patent Office (EPO)

(51) C09D 183/04
D21H 19/32
(11) EP4298171

(21) EP22705964.9
(47) 29.01.2025
(87) US2022015433
01.09.2022
(22) 07.02.2022
(54) SILICONE EMULSION AND METHODS FOR THE PREPARATION AND USE THEREOF
(73) Dow Silicones Corporation
(72) CHEVALIER, Pierre
DONTAINE, Cathy
(31) 202163152354 P
(32) 23.02.2021
(33) United States of America

(51) C09D 201/00
B05D 5/06
B05D 7/24
C09D 5/02
C09D 5/36
C09D 133/00
C09D 167/00
C09D 175/04
C08K 3/34
C09D 7/44
C09D 7/40
B05D 7/00
(11) EP3473686
(21) EP17813366.6
(47) 29.01.2025
(87) JP2017022010
21.12.2017
(22) 14.06.2017
(54) AQUEOUS COATING COMPOSITION AND METHOD FOR FORMING METALLIC COATING FILM USING SAME
(73) Nippon Paint Automotive Coatings Co., Ltd.
(72) TSUBONE, Ryohei
FUJIWARA, Shinichi
(31) 2016119107
(32) 15.06.2016
(33) Japan

(51) C09J 4/06
C09J 7/00
(11) EP4370623
(21) EP22790568.4
(47) 29.01.2025
(87) IB2022057792
16.03.2023
(22) 19.08.2022
(54) (METH)ACRYLIC-EPOXY UV INITIATED ADHESIVE COMPOSITIONS AND ADHESIVE-CONTAINING ARTICLES
(73) 3M Innovative Properties Company
(72) MOUGHTON, Adam O.
MAHER, Michael J.
SCHNEIDERMAN, Deborah K.
SHAFER, Kathleen S.
SATRIJO, Andrew
(31) 202163261114 P
(32) 13.09.2021
(33) United States of America

(51) C09J 7/10
C09J 7/29
C09J 7/38
C09J 7/40
C09J 133/08
(11) EP3798279
(21) EP20198984.5
(47) 29.01.2025
(22) 29.09.2020
(54) LAMINATE SHEET
(73) Nitto Denko Corporation
(72) NAKAYAMA, Junichi
SUZUKI, Tatsuya
(31) 2019180003
(32) 30.09.2019
(33) Japan

(51) C09J 7/20
H01L 21/683
(11) EP3439021
(21) EP17774291.3
(47) 29.01.2025
(87) JP2017010253
05.10.2017
(22) 14.03.2017
(54) USE OF A FILM FOR COMPONENT MANUFACTURE AND COMPONENT MANUFACTURING METHOD
(73) Mitsui Chemicals ICT Materia, Inc.
(72) HAYASHISHITA Eiji
(31) 2016072755
(32) 31.03.2016
(33) Japan

(51) C09J 7/30
C23C 16/40
C23C 16/513
C23C 16/455
C23C 16/54
(11) EP3700993
(21) EP18782363.8
(47) 29.01.2025
(87) EP2018076230
02.05.2019
(22) 27.09.2018
(54) PLASMA ENCAPSULATION OF THE EDGES OF ADHESIVE TAPES
(73) tesa SE
(72) KOOPS, Arne
BENDEICH, Manuel
(31) 102017219311
(32) 27.10.2017
(33) Germany

(51) C09J 7/30
G09F 3/02
G09F 3/10
(11) EP3616186
(21) EP18721747.6
(47) 29.01.2025
(87) EP2018060942
01.11.2018
(22) 27.04.2018
(54) ACTIVATABLE ADHESIVE LABEL
(73) Herma GmbH
(72) NAEGELE, Ulli
GABLOWSKI, Marcus
(31) 102017109074
(32) 27.04.2017
(33) Germany

(51) C09J 7/38
B32B 27/00
B32B 27/30
C09J 153/00
B32B 3/26
B32B 5/02
B32B 5/26
B32B 7/06
B32B 7/12
B32B 27/08
B32B 27/10
B32B 27/12
B32B 27/28
B32B 27/32
B32B 27/34
B32B 27/36
B32B 27/40
B32B 29/02
B32B 27/20
(11) EP3904480
(21) EP19904689.7
(47) 29.01.2025
(87) JP2019051016
02.07.2020
(22) 25.12.2019
(54) LAMINATES HAVING PERFORATED STRUCTURAL BODY
(73) Kuraray Co., Ltd.
(72) ONO, Tomohiro
NAKADA, Kanayo
(31) 2018245071
(32) 27.12.2018
(33) Japan

(51) C09J 11/04
H01L 21/301
H01L 21/52
H01L 23/00
H01L 23/31
H01L 21/683
C08K 3/08
C08K 3/22
C09J 7/10
C09J 9/02
C09J 9/00
(11) EP3358605
(21) EP16851302.6
(47) 29.01.2025
(87) JP2016077835
06.04.2017
(22) 21.09.2016
(54) THERMAL BONDING SHEET, AND THERMAL BONDING SHEET WITH DICING TAPE
(73) Nitto Denko Corporation
(72) KAMAKURA, Nao
SUGO, Yuki
(31) 2015193896
(32) 30.09.2015
(33) Japan

(51) C09J 119/02
C08L 75/04
C08K 5/17
C08K 5/1515
C08L 21/00
B60C 9/00
D02G 3/48
C09J 11/06
(11) EP4039763
(21) EP21784862.1
(47) 29.01.2025
(87) KR2021004416
14.10.2021
(22) 08.04.2021

(54) ADHESIVE COMPOSITION AND RUBBER REINFORCING MATERIAL
(73) Kolon Industries, Inc.
(72) LEE, Sung Gyu
JEON, Ok Hwa
LEE, Min Ho
(31) 20200043567
20200043565
(32) 09.04.2020
09.04.2020
(33) Korea (Republic)
Korea (Republic)

(51) C09J 175/08
C08G 18/66
C08G 18/48
C08G 18/32
C08G 18/20
C08G 18/24
C08G 18/16
C08G 18/10
C08G 18/40
C08G 18/42
C08G 18/50
C08G 18/73
C08G 18/75
C08G 18/76
C08G 18/79
C08G 18/12
C09J 175/06
C09J 5/06
(11) EP3858938
(21) EP19856436.1
(47) 29.01.2025
(87) CN2019122996
10.06.2021
(22) 04.12.2019
(54) TWO-COMPONENT POLYURETHANE BINDER COMPOSITION AND BONDING METHOD THEREFOR
(73) Hangzhou Zhijiang New Material Co., Ltd
Hangzhou Zhijiang Silicone Chemicals Co., Ltd.
(72) TAO, Xiaole
SUN, Hui
HE, Yongfu
LI, Yunlong

(51) C09J 175/14
C09J 175/06
C08G 18/42
C08G 18/68
C08G 18/73
C08G 18/75
C08G 18/72
C08G 18/79
B32B 27/40
(11) EP3587530
(21) EP18179485.0
(47) 29.01.2025
(22) 25.06.2018
(54) PACKAGE ADHESIVES BASED ON RENEWABLE RAW MATERIALS
(73) Henkel AG & Co. KGaA
(72) Krlejova, Andrea
Blodau, Marcel
Kux, Alexander
Brandt, Adrian
Beck, Horst

(51) C09J 183/04
G02B 1/00
H01L 23/29
(11) EP4288503
(21) EP22701499.0
(47) 29.01.2025
(87) US2022011927
11.08.2022
(22) 11.01.2022
(54) PRINTABLE SILICONE COMPOSITION AND METHODS FOR ITS PREPARATION AND USE
(73) Dow Silicones Corporation
(72) YOOK, Juyoung
(31) 202163144504 P
(32) 02.02.2021
(33) United States of America

(51) C09K 9/02
G01J 1/02
G01J 1/50
G01J 1/58
A61L 2/28
G01J 1/42
A61L 2/26
(11) EP4317361
(21) EP22775154.2
(47) 29.01.2025
(87) JP2022010597
29.09.2022
(22) 10.03.2022
(54) TEST TOOL AND TESTING METHOD
(73) FUJIFILM Corporation
(72) IKEDA, Kimi
INOMATA, Sotaro
SAKAI, Yusuke
(31) 2021080384
2021047379
(32) 11.05.2021
22.03.2021
(33) Japan
Japan

(51) C09K 11/06
C07F 5/02
H10K 85/60
(11) EP4265625
(21) EP22767458.7
(47) 29.01.2025
(87) KR2022003231
15.09.2022
(22) 08.03.2022
(54) NOVEL COMPOUND AND ORGANIC LIGHT EMITTING DEVICE COMPRISING SAME
(73) Lg Chem, Ltd.
(72) LEE, Jaechol
YU, Soyoung
KIM, Young Kwang
PARK, Hyungil
LIM, Byeong Yun
KIM, Shin Sung
KIM, Yongwook
(31) 20210030814
(32) 09.03.2021
(33) Korea (Republic)

(51) C09K 11/06
H10K 50/12
H10K 85/30
H10K 85/60
H10K 101/10
H10K 101/00
(11) EP4311849
(21) EP23186504.9
(47) 29.01.2025
(22) 19.07.2023
(54) METAL COMPLEXES
(73) UDC Ireland Limited
(72) STOESSEL, Philipp
AUCH, Armin
(31) 202318351857
22202099
22187158
(32) 13.07.2023
18.10.2022
27.07.2022
(33) United States of America
European Patent Office (EPO)
European Patent Office (EPO)

(51) C09K 19/04
G02F 1/13
C09K 19/18
C09K 19/30
C09K 19/12
(11) EP4179040
(21) EP21742337.5
(47) 29.01.2025
(87) EP2021068574
13.01.2022
(22) 06.07.2021
(54) OPTICAL COMPONENT
(73) Merck Patent GmbH
(72) PARRI, Owain Llyr
SAITO, Izumi
FRITZSCH, Carsten
KLASS, Dagmar
TAUGERBECK, Andreas
(31) 20184700
(32) 08.07.2020
(33) European Patent Office (EPO)

(51) C10B 49/10
C10B 53/00
C10B 53/02
C10J 3/48
C10J 3/56
C10J 3/60
C04B 7/44
(11) EP4294891
(21) EP22725508.0
(47) 29.01.2025
(87) EP2022061368
02.11.2023
(22) 28.04.2022
(54) DEVICE AND METHOD FOR THE PYROLYSIS OF FUEL
(73) Schläffer, Patrick
(72) Schläffer, Patrick

(51) C10M 105/30
B21C 23/32
(11) EP4183857
(21) EP22208376.8
(47) 29.01.2025
(22) 18.11.2022
(54) USE OF A LUBRICANT RELEASE AGENT COMPOSITION
(73) Baraldi S.r.l.
(72) RAONE, Cosimo
(31) 202100029573
(32) 23.11.2021

(33) Italy

(51) C10N 30/00
C10N 40/02
C10N 50/10
C10M 163/00
C10N 20/02
C10N 30/06
C10N 40/04
(11) EP4253507
(21) EP20963504.4
(47) 29.01.2025
(87) JP2020044030
02.06.2022
(22) 26.11.2020
(54) GREASE COMPOSITION FOR CONSTANT-VELOCITY JOINTS
(73) Kyodo Yushi Co., Ltd.
GKN Driveline International GmbH
(72) E, Jisheng
WETTE, Joachim
LINDLAHR, Christoph
SEKI, Tomio
YAMAGUCHI, Tomohiko
KONNO, Tadaaki

(51) C10N 30/00
C10N 40/30
C10M 129/04
C10M 129/10
C10M 129/16
(11) EP4006128
(21) EP20848044.2
(47) 29.01.2025
(87) JP2020027881
04.02.2021
(22) 17.07.2020
(54) REFRIGERATOR OIL, AND WORKING FLUID COMPOSITION FOR REFRIGERATOR
(73) ENEOS Corporation
(72) NAGAI Satoshi
(31) 2019138930
(32) 29.07.2019
(33) Japan

(51) C11D 1/00
C11D 11/00
C11D 1/14
C11D 1/66
C11D 1/75
(11) EP3134499
(21) EP15782790.8
(47) 29.01.2025
(87) US2015027403
29.10.2015
(22) 23.04.2015
(54) CLEANING FORMULATIONS FOR CHEMICALLY SENSITIVE INDIVIDUALS: COMPOSITIONS AND METHODS
(73) van Buskirk, Gregory
Steinemann, Anne
Nair, Vinod S.
(72) Nair, Vinod S.
Steinemann, Anne
van Buskirk, Gregory
(31) 201461982887 P
(32) 23.04.2014
(33) United States of America

(51) C11D 1/30
C11D 11/00
C11D 1/24
(11) EP4405450
(21) EP22790459.6
(47) 29.01.2025
(87) EP2022075748
23.03.2023
(22) 16.09.2022
(54) DETERGENT COMPOSITION
(73) Unilever IP Holdings B.V.
(72) WESTWOOD, Nicholas James
GRAINGER, David Stephen
MCARDLE-ISMAGUILOV, Timur Arthur
(31) 21197764
(32) 20.09.2021
(33) European Patent Office (EPO)

(51) C11D 1/72
C11D 17/04
C11D 1/83
(11) EP4239046
(21) EP22159624.0
(47) 29.01.2025
(22) 02.03.2022
(54) WATER-SOLUBLE UNIT DOSE ARTICLE COMPRISING AN ETHOXYLATED SECONDARY ALCOHOL NON-IONIC SURFACTANT
(73) The Procter & Gamble Company
(72) DEBRECZENI, Mate
ANDRIESSEN, Hilde Francoise Louse
VINSON, Phillip Kyle
LABIE, Julien Christian
KEULEERS, Robby Renilde Francois
DEPOOT, Karel Jozef Maria

(51) C11D 3/22
(11) EP4298193
(21) EP22709483.6
(47) 29.01.2025
(87) US2022017187
01.09.2022
(22) 22.02.2022
(54) DETERGENT FORMULATION
(73) Dow Silicones Corporation
(72) VANDEMEULEBROUCKE, Flore
CREUTZ, Serge
NAD, Saugata
BENBAKOURA, Rahma
(31) 202163153402 P
(32) 25.02.2021
(33) United States of America

(51) C11D 7/50
C11D 7/30
C11D 17/08
C23G 5/00
C11D 11/00
C11D 17/00
(11) EP4215598
(21) EP23162684.7
(47) 29.01.2025
(22) 31.05.2018
(54) METHOD FOR WASHING VEHICLES WITH AEROSOL DETERGENT COMPOSITION
(73) Kobegosei Co., Ltd.
(72) MIYAOKA, Masanobu
MIYAOKA, Yuuji
(31) 2017108838
(32) 31.05.2017

(33) Japan

(51) C12G 1/022
(11) EP4263782
(21) EP21810054.3
(47) 29.01.2025
(87) EP2021082717
23.06.2022
(22) 23.11.2021
(54) PROCESS FOR PRODUCING WINE, METHOD FOR MODULATING GREEN CHARACTER OF WINE, WINE OBTAINED OR OBTAINABLE BY SUCH PROCESS OR METHOD, AND USE OF A VINE-SHOOT MATERIAL AS WINEMAKING ADDITIVE
(73) Universidad de Castilla La Mancha
(72) ZALACAIN ARAMBURU, Amaya
CEBRIÁN TARANCÓN, Cristina
SALINAS FERNÁNDEZ, María Rosario
ALONSO DÍAZ-MARTA, Gonzalo Luis
DE ASÍS FERNÁNDEZ ROLDÁN, Francisco
(31) 20383122
(32) 18.12.2020
(33) European Patent Office (EPO)

(51) C12H 1/22
C12G 3/07
(11) EP3872159
(21) EP19881084.8
(47) 29.01.2025
(87) ES2019000064
14.05.2020
(22) 21.10.2019
(54) WOODEN STAVE AND BARREL FOR DRINKS
(73) Valchedor Cask S.L.
(72) GUTIÉRREZ ARAÚJO, Iván
(31) 201800625 U
(32) 06.11.2018
(33) Spain

(51) C12M 1/00
C12N 1/06
C12N 15/10
(11) EP4182426
(21) EP21746669.7
(47) 29.01.2025
(87) EP2021069461
20.01.2022
(22) 13.07.2021
(54) LYSIS OF A SAMPLE BY MEANS OF MAGNET ELEMENTS AND ROTATIONAL RELATIVE MOVEMENT
(73) Hahn-Schickard-Gesellschaft für angewandte Forschung e. V.
(72) SCHWEMMER, Frank
PAUST, Nils
CZILWIK, Gregor
SCHLANDERER, Judith
(31) 102020209001
(32) 17.07.2020
(33) Germany

(51) C12M 3/00
C12M 3/06
B01L 9/00
B01L 3/00
C12M 1/00
(11) EP3919172
(21) EP21170205.5

(47) 29.01.2025
(22) 23.04.2021
(54) MICROFLUIDIC DEVICE
(73) Ushio Denki Kabushiki Kaisha
(72) YAMANAKA, Makoto
(31) 2020097948
(32) 04.06.2020
(33) Japan

(51) C12N 5/10
C12Q 1/68
C12Q 1/6869
C40B 20/04
(11) EP4249651
(21) EP23172531.8
(47) 29.01.2025
(22) 20.08.2019
(54) NUCLEOTIDE SEQUENCE GENERATION BY BARCODE BEAD-COLOCALIZATION IN PARTITIONS
(73) Bio-Rad Laboratories, Inc.
(72) LEBOFSKY, Ronald
CHEW, Jennifer
KOHLWAY, Andrew
CHENG, Man
BURKETT, Zachary
(31) 201862720014 P
(32) 20.08.2018
(33) United States of America

(51) C12N 9/00
C12N 9/10
C12N 15/82
C12Q 1/6895
(11) EP3382028
(21) EP18172142.4
(47) 29.01.2025
(22) 02.12.2011
(54) STACKED HERBICIDE TOLERANCE EVENT 8264.44.06.1, RELATED TRANSGENIC SOYBEAN LINES, AND DETECTION THEREOF
(73) Dow AgroSciences LLC
M.S. Technologies LLC
(72) SEKAR, Vaithilingam
PARKHURST, Dawn
COLON, Julissa
CUI, Yunxing
HOFFMAN, Thom
RUSSELL, Sean
ZHOU, Ning
TOLEDO, Sandra
WRIGHT, Terry
NOVAK, Stephen N.
HELD, Bruce
(31) 201161521798 P
201161511664 P
201161471845 P
419706 P
(32) 10.08.2011
26.07.2011
05.04.2011
03.12.2010
(33) United States of America
United States of America
United States of America
United States of America

(51) C12N 9/00
C12N 9/96
C12N 9/12
C12N 9/14
A61P 25/28
A61P 31/12
A61P 35/00
(11) EP3461889
(21) EP18186578.3
(47) 29.01.2025
(22) 19.11.2010
(54) COMPOSITIONS FOR INCREASING POLYPEPTIDE STABILITY AND ACTIVITY, AND RELATED METHODS
(73) Solis BioDyne OÜ
(72) Artma, Kadri
Kahre, Olev
Kahre, Tiina
(31) 39085710 P
35654110 P
35045710 P
26291909 P
(32) 07.10.2010
18.06.2010
01.06.2010
19.11.2009
(33) United States of America
United States of America
United States of America
United States of America

(51) C12N 9/18
(11) EP3724324
(21) EP18836866.6
(47) 29.01.2025
(87) IB2018060042
20.06.2019
(22) 13.12.2018
(54) CARBOXYESTERASE BIOCATALYSTS
(73) GlaxoSmithKline Intellectual Property Development Limited
(72) FUERST, Douglas E.
SCHOBER, Markus
VOLADRI, Rama
DORR, Brent M.
MORRISON, James Patrick
HONICKER, Katherine Joyce
JORDAN, Lydia Sanchez
BROWN, Kristin K.
PLOTNIKOV, Nikolay V.
(31) 201762598181 P
(32) 13.12.2017
(33) United States of America

(51) C12N 15/10
C12N 15/11
C12P 19/34
C12Q 1/6848
C12Q 1/6855
(11) EP4151729
(21) EP22190562.3
(47) 29.01.2025
(22) 10.11.2017
(54) METHODS FOR PROCESSING NUCLEIC ACID SAMPLES
(73) Bio-Rad Laboratories, Inc.
(72) BIBILLO, Arkadiusz
PATEL, Pranav
(31) 201762477211 P
201662421028 P
(32) 27.03.2017
11.11.2016
(33) United States of America
United States of America

(51) C12N 15/85
(11) EP3523440
(21) EP17797462.3
(47) 29.01.2025
(87) US2017055583
12.04.2018
(22) 06.10.2017
(54) EARLY POST-TRANSFECTION ISOLATION OF CELLS (EPIC) FOR BIOLOGICS PRODUCTION
(73) Genzyme Corporation
(72) DEMARIA, Christine
CAIRNS, Victor, R.
VITKO, Jason
(31) 201662405392 P
(32) 07.10.2016
(33) United States of America

(51) C12N 15/86
C12N 5/0783
A61P 35/00
(11) EP4032978
(21) EP20901145.1
(47) 29.01.2025
(87) CN2020136241
24.06.2021
(22) 14.12.2020
(54) CD19-TARGETED CHIMERIC ANTIGEN RECEPTOR AND USE THEREOF
(73) Juventas Cell Therapy Ltd.
(72) WANG, Jianxiang
LV, Lulu
LIU, Yun
WANG, Rui
AN, Na
WANG, Min
SHI, Lin
(31) 202011274810
201911301518
(32) 16.11.2020
17.12.2019
(33) China
China

(51) C12Q 1/02
C12Q 1/04
C12Q 1/68
C12Q 1/70
C12M 1/34
G01N 21/75
G01N 21/78
G01N 33/50
G01N 33/52
G01N 33/53
B01J 19/00
(11) EP3911752
(21) EP19909635.5
(47) 29.01.2025
(87) IB2019061468
23.07.2020
(22) 31.12.2019
(54) MULTI-TEST KIT
(73) Infiniplex Ltd.
(72) Russak, Ze'ev
(31) 201962791950 P
(32) 14.01.2019
(33) United States of America

(51) C12Q 1/10
C12N 15/73

C12Q 1/70
G01N 33/50
(11) EP4028540
(21) EP20781180.3
(47) 29.01.2025
(87) US2020050490
18.03.2021
(22) 11.09.2020
(54) METHODS AND SYSTEMS FOR THE RAPID DETECTION OF MICROORGANISMS USING RECOMBINANT INFECTIOUS AGENTS TO EXPRESS AN INDICATOR SUBUNIT
(73) Laboratory Corporation of America Holdings
(72) ERICKSON, Stephen E.
HAHN, Wendy
ANDERSON, Dwight Lyman
GIL, Jose S.
(31) 201962898945 P
(32) 11.09.2019
(33) United States of America

(51) C12Q 1/68
C12N 15/09
G01N 21/78
C12Q 1/6876
C12Q 1/6844
C12Q 1/6816
C12Q 1/6827
(11) EP3783108
(21) EP20195929.3
(47) 29.01.2025
(22) 06.02.2017
(54) METHOD FOR DETECTING TARGET NUCLEIC ACID
(73) EIKEN KAGAKU KABUSHIKI KAISHA
(72) SAEKI, Ryohei
(31) 2016022659
(32) 09.02.2016
(33) Japan

(51) C12Q 1/68
C12Q 1/6874
(11) EP4150108
(21) EP21721940.1
(47) 29.01.2025
(87) EP2021061366
18.11.2021
(22) 30.04.2021
(54) EARLY RECOGNITION OF PATHOGENS IN PLANTS
(73) Bayer Aktiengesellschaft
(72) AL DILAIMI-WENDLER, Arwa
MEHL, Andreas
KLEEMANN, Jochen
BUER, Benjamin
(31) 20183910
20174320
(32) 03.07.2020
13.05.2020
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) C12Q 1/68
C12Q 1/6874
(11) EP4212628
(21) EP23155047.6
(47) 29.01.2025
(22) 01.08.2017
(54) NUCLEIC ACID SEQUENCING METHOD
(73) MGI Tech Co., Ltd.
(72) Xu, Xun
Xie, Bin
Wang, Hui
Li, Zhuokun
Xu, Chongjun
Ni, Ming
Chen, Ao
Yang, Jin
Zhang, Wenwei
Zhao, Shengming

(51) C12Q 1/68
G02B 21/00
G02B 21/10
G01B 11/00
(11) EP3505641
(21) EP18210281.4
(47) 29.01.2025
(22) 16.12.2016
(54) OPTICAL DEVICE FOR MEASURING THE POSITION OF AN OBJECT
(73) Paris Sciences et Lettres
Université Paris Cité
Centre National de la Recherche Scientifique - CNRS
Sorbonne Université
(72) ALLEMAND, Jean-François
VIEILLE, Thibault
CROQUETTE, Vincent
(31) 15307065
(32) 18.12.2015
(33) European Patent Office (EPO)

(51) C12Q 1/6832
C12Q 1/6806
(11) EP4242325
(21) EP23172681.1
(47) 29.01.2025
(22) 21.04.2021
(54) METHODS FOR SPATIAL ANALYSIS USING TARGETED RNA DEPLETION
(73) 10X Genomics, Inc.
(72) GALLANT, Caroline Julie
KVASTAD, Linda
(31) 202063014054 P
(32) 22.04.2020
(33) United States of America

(51) C12Q 1/6853
C12Q 1/6858
C12Q 1/686
C12Q 1/6876
C12Q 1/68
C12P 19/34
(11) EP4038197
(21) EP20871738.9
(47) 29.01.2025
(87) US2020053674
08.04.2021
(22) 01.10.2020
(54) ASSAY METHODS AND KITS FOR DETECTING RARE SEQUENCE VARIANTS
(73) Rutgers, The State University of New Jersey
(72) KRAMER, Fred, Russell
VARGAS-GOLD, Diana
(31) 201962909483 P
(32) 02.10.2019
(33) United States of America

(51) C12Q 1/6869
(11) EP4332238
(21) EP23193551.1
(47) 29.01.2025
(22) 25.08.2023
(54) METHODS FOR ACCURATE PARALLEL DETECTION AND QUANTIFICATION OF NUCLEIC ACIDS
(73) Genomill Health Oy
(72) Tamminen, Manu
Pursiheimo, Juha-Pekka
Korkiakoski, Anttoni
Hirvonen, Tatu
(31) 202217899851
(32) 31.08.2022
(33) United States of America

(51) C12Q 1/6874
(11) EP3957750
(21) EP21185849.3
(47) 29.01.2025
(22) 16.12.2014
(54) PRESERVING GENOMIC CONNECTIVITY INFORMATION IN FRAGMENTED GENOMIC DNA SAMPLES
(73) Illumina, Inc.
(72) GUNDERSON, Kevin L.
FISHER, Jeffrey S.
AMINI, Sasan
STEEMERS, Frank J.
(31) 201461935776 P
201361919529 P
(32) 04.02.2014
20.12.2013
(33) United States of America
United States of America

(51) C12Q 1/6886
C12Q 1/48
G01N 33/58
G01N 33/52
C12Q 1/6806
(11) EP3374524
(21) EP16863787.4
(47) 29.01.2025
(87) IL2016051218
18.05.2017
(22) 10.11.2016
(54) METHODS OF DETECTING 5-HYDROXYMETHYLCYTOSINE AND DIAGNOSING OF CANCER
(73) Ramot at Tel-Aviv University Ltd.
(72) MICHAELI HOCH, Yael
EBENSTEIN, Yuval
ZIRKIN, Shahar
(31) 201562253797 P
(32) 11.11.2015
(33) United States of America

(51) C21B 13/00
F27B 3/22
F27D 17/00
F27D 3/16
(11) EP3775298
(21) EP19713063.6
(47) 29.01.2025
(87) EP2019058002
03.10.2019

(22) 29.03.2019
(54) DIRECT SMELTING PROCESS WITH FULL COMBUSTION
(73) Tata Steel Nederland Technology B.V.
(72) MEIJER, Hendrikus Koenraad Albertus
(31) 18165334
(32) 30.03.2018
(33) European Patent Office (EPO)

(51) C21D 1/00
C22F 1/10
(11) EP3371334
(21) EP16809130.4
(47) 29.01.2025
(87) FR2016052859
11.05.2017
(22) 04.11.2016
(54) DEVICE AND METHOD FOR GENERATING A STRUCTURAL-GRADIENT MICROSTRUCTURE ON AN AXISYMMETRIC PART
(73) SAFRAN
(72) FRANCHET, Jean-Michel, Patrick, Maurice
KLEIN, Gilles, Charles, Casimir
(31) 1560653
(32) 06.11.2015
(33) France

(51) C21D 6/00
C21D 8/02
C21D 9/46
C22C 38/00
C22C 38/06
C22C 38/10
C22C 38/12
C22C 38/14
C22C 38/42
C22C 38/44
C22C 38/46
C22C 38/48
C22C 38/50
C22C 38/52
(11) EP3899062
(21) EP19821210.2
(47) 29.01.2025
(87) IB2019060647
25.06.2020
(22) 11.12.2019
(54) HOT ROLLED AND STEEL AND A METHOD OF MANUFACTURING THEREOF
(73) ArcelorMittal
(72) DUPREZ, Lode
VAN STEENBERGE, Nele
MOLI SANCHEZ, Laura
WATERSCHOOT, Tom
(31) PCT/IB2018/060185
(32) 17.12.2018
(33) World Intellectual Property Office (WIPO)

(51) C21D 9/46
C23C 2/06
C22C 38/00
C23C 2/40
C23C 2/28
C22C 38/58
C21D 1/18
C21D 1/25
C21D 1/26
C23C 2/02
C22C 38/02
C21D 8/02
C22C 38/04
C23C 2/00
(11) EP4043595
(21) EP20874851.7
(47) 29.01.2025
(87) JP2020038358
15.04.2021
(22) 09.10.2020
(54) COLD-ROLLED STEEL SHEET AND METHOD FOR PRODUCING SAME
(73) NIPPON STEEL CORPORATION
(72) NAKAMURA, Ryosuke
AZUMA, Masafumi
NISHIO, Takuya
(31) 2019186957
2019186743
(32) 10.10.2019
10.10.2019
(33) Japan
Japan

(51) C22C 5/04
G04B 3/04
G04B 19/04
G04B 19/12
G04B 37/22
G04D 3/00
(11) EP4198157
(21) EP21214514.8
(47) 29.01.2025
(22) 14.12.2021
(54) PLATINUM ALLOY
(73) Nivarox-FAR S.A.
(72) VANNOD, Jonas
KISSLING, Gregory
VINCENT, Denis
LAUPER, Stéphane
CHARBON, Christian
FAYS, Vincent

(51) C22C 19/05
C22C 19/07
C23C 4/073
F01D 5/28
(11) EP4242332
(21) EP23157653.9
(47) 29.01.2025
(22) 20.02.2023
(54) BORIDE-REINFORCED ALUMINUM-CONTAINING HIGH ENTROPY ALLOY COMPOSITION
(73) General Electric Technology GmbH
(72) DASAN, Biju
HANUM, Sathisha Chikkabikkodu
PABLA, Surinder Singh
NAYAK, Mohandas
(31) 202211013112
(32) 10.03.2022
(33) India

(51) C22C 19/05
F01D 5/14
F01D 5/28
F01D 5/18
C22F 1/10
C22C 1/04
(11) EP3839213
(21) EP20211377.5
(47) 29.01.2025
(22) 02.12.2020
(54) NICKEL-BASED SUPERALLOY WITH MICROSTRUCTURE INCLUDING RAFTING-RESISTANT GAMMA PRIME PHASE AND ARTICLE PREPARED THEREFROM
(73) General Electric Technology GmbH
(72) SCHAEFFER, Jon Conrad
PECK, Arthur Samuel
ARNETT, Michael Douglas
KONTER, Maxim
(31) 201916718797
(32) 18.12.2019
(33) United States of America

(51) C22C 21/00
H01B 1/02
B21C 37/04
(11) EP3713688
(21) EP18881317.4
(47) 29.01.2025
(87) US2018062268
31.05.2019
(22) 21.11.2018
(54) WIRES FORMED FROM IMPROVED 8000-SERIES ALUMINUM ALLOY
(73) General Cable Technologies Corporation
Nanoal LLC
(72) VO, Nhon, Q.
BAKER, Richard, Stephen
SIRIPURAPU, Srinivas
FLORES, Francisco U.
ZHANG, Shenjia
BAYANSAN, Davaadorj
(31) 201762589742 P
(32) 22.11.2017
(33) United States of America

(51) C22C 21/10
C22F 1/053
(11) EP4214346
(21) EP21789984.8
(47) 29.01.2025
(87) US2021050709
24.03.2022
(22) 16.09.2021
(54) METHOD OF MAKING HIGH STRENGTH AND LOW QUENCH SENSITIVE 7XXX SERIES ALUMINUM ALLOYS
(73) Novelis, Inc.
(72) LEYVRAZ, David
YUAN, Yudie
BHASKARAN, Ganesh
KAMAT, Rajeev G.
WU, Cedric
JANOFF, Anna E.
(31) 202062706906 P
(32) 17.09.2020
(33) United States of America

(51) C22C 33/04
C21C 7/00
C22C 38/02
C22C 38/04
C22C 38/06
C22C 38/12
C22C 38/24
C22C 38/26
C22C 38/46
C22C 38/48

C22C 45/02
F27B 3/02
F27B 3/08
(11) EP4314372
(21) EP22716570.1
(47) 29.01.2025
(87) NO2022050077
06.10.2022
(22) 29.03.2022
(54) FERROSILICON VANADIUM AND/OR NIOBIUM ALLOY, PRODUCTION OF A FERROSILICON VANADIUM AND/OR NIOBIUM ALLOY, AND THE USE THEREOF
(73) ELKEM ASA
(72) HARTUNG, Cathrine
MICHELS, Leander
KLEVAN, Ole Svein
OTT, Emmanuelle
HOEL, Eivind Gustav
HAUNHORST, Thilo
(31) 20210412
(32) 30.03.2021
(33) Norway

(51) C22C 33/04
C21C 7/00
C22C 38/02
C22C 38/04
C22C 38/12
C22C 38/24
C22C 38/26
C22C 38/46
C22C 38/48
C22C 45/02
F27B 3/02
F27B 3/08
(11) EP4314371
(21) EP22716569.3
(47) 29.01.2025
(87) NO2022050076
06.10.2022
(22) 29.03.2022
(54) FERROSILICON VANADIUM AND/OR NIOBIUM ALLOY, PRODUCTION OF A FERROSILICON VANADIUM AND/OR NIOBIUM ALLOY, AND THE USE THEREOF
(73) ELKEM ASA
(72) KLEVAN, Ole Svein
OTT, Emmanuelle
HAUNHORST, Thilo
(31) 20210413
(32) 30.03.2021
(33) Norway

(51) C22C 38/00
C22C 38/02
C22C 38/04
C22C 38/12
C22C 38/14
C22C 38/16
C22C 38/20
C22C 38/22
C22C 38/26
C22C 38/28
C22C 38/32
C22C 38/42
C22C 38/44
C21D 1/78
C21D 8/02
C21D 8/10
C21D 9/08
C21D 9/46
C21D 9/50
C21D 1/02
(11) EP4092149
(21) EP20914216.5
(47) 29.01.2025
(87) JP2020001478
22.07.2021
(22) 17.01.2020
(54) STEEL PLATE AND STEEL PIPE
(73) NIPPON STEEL CORPORATION
(72) FUJISHIRO, Taishi
HARA, Takuya
SHINOHARA, Yasuhiro
MINATO, Izuru
DOI, Naoki

(51) C22C 38/00
C22C 38/06
C22C 38/58
C21D 8/02
C21D 9/46
C22C 38/02
C22C 38/04
C22C 38/08
C22C 38/12
C22C 38/14
C22C 38/16
C22C 38/18
(11) EP3674433
(21) EP17929314.7
(47) 29.01.2025
(87) JP2017037891
25.04.2019
(22) 19.10.2017
(54) HIGH-STRENGTH STEEL PLATE FOR SOUR-RESISTANT LINE PIPES AND HIGH-STRENGTH STEEL PIPE USING SAME
(73) JFE Steel Corporation
(72) YOKOTA Tomoyuki
SHIMAMURA Junji
IZUMIKAWA Shinichi

(51) C22C 38/38
C22C 38/28
C22C 38/22
C22C 38/24
C22C 38/02
C22C 38/06
C22C 38/00
C21D 9/46
C21D 8/02
C21D 6/00
(11) EP3872209
(21) EP19875440.0
(47) 29.01.2025
(87) KR2019014166
30.04.2020
(22) 25.10.2019
(54) HIGH-STRENGTH AND HIGH-DUCTILITY NONMAGNETIC STEEL HAVING EXCELLENT WELDABILITY, AND MANUFACTURING METHOD THEREFOR
(73) POSCO Co., Ltd
(72) KANG, Sang-Deok
LEE, Un-Hae
HAN, Sang-Ho
KIM, Sung-Kyu
LEE, Dong-Ho
(31) 20180128433
(32) 25.10.2018
(33) Korea (Republic)

(51) C23C 8/22
C23C 8/80
C22C 38/44
C22C 38/46
C22C 38/52
(11) EP3802904
(21) EP19735366.7
(47) 29.01.2025
(87) FR2019051338
12.12.2019
(22) 05.06.2019
(54) METHOD FOR LOW-PRESSURE CARBURISING OF A WORKPIECE COMPRISING STEEL
(73) Safran Helicopter Engines
(72) PETROIX, Bruno
MARCARIE, André
(31) 1854876
(32) 05.06.2018
(33) France

(51) C25B 1/04
C25B 1/46
C25B 11/052
C25B 11/061
C25B 11/075
C23C 22/34
C23C 22/73
(11) EP4215645
(21) EP22204192.3
(47) 29.01.2025
(22) 27.10.2022
(54) METHOD FOR PREPARING AN ELECTRODE INCLUDING A MULTICOMPONENT TRANSITION METAL HYDROXIDE STRUCTURE
(73) Korea Institute of Energy Research
(72) Lee, Sechan
Kim, Chang-hee
Kim, Min Joong
Cho, Won-chul
Lee, Chang Soo
Kim, Sang-Kyung
Lee, Jae Hun
(31) 20210167005
(32) 29.11.2021
(33) Korea (Republic)

(51) C25B 1/04
C25B 9/05
C25B 9/19
C25B 9/77
C25B 15/02
C25B 15/023
C25B 15/08
(11) EP4370730
(21) EP22764795.5
(47) 29.01.2025
(87) EP2022072861
23.02.2023
(22) 16.08.2022

(54) METHOD FOR THE ELECTROLYSIS OF WATER AT VARIABLE CURRENT DENSITIES
(73) Viering, Jentschura & Partner mbB
(72) SPONCHIADO, Michele
NUZZO, Daniele
PEREGO, Michele
(31) 21191769
(32) 17.08.2021
(33) European Patent Office (EPO)

(51) C25B 1/04
H01M 8/04
C25B 15/00
F24D 5/00
G06Q 50/06
(11) EP3899094
(21) EP19832068.1
(47) 29.01.2025
(87) EP2019086014
25.06.2020
(22) 18.12.2019
(54) PURGING SYSTEM AND USE THEREOF IN AN ENERGY SYSTEM
(73) HPS Home Power Solutions AG
(72) SCHÖNFELDT, Renaldo
HIERL, Andreas
SCHNEIDER, Gunnar
SCHULTE, Jonas
(31) 102018133201
(32) 20.12.2018
(33) Germany

(51) C25C 7/02
C25C 1/00
(11) EP3283670
(21) EP16779361.1
(47) 29.01.2025
(87) CA2016050394
20.10.2016
(22) 06.04.2016
(54) ASSEMBLY FOR DISTRIBUTING ELECTRICAL CURRENT IN AN ELECTROLYTIC CELL
(73) Pultrusion Technique Inc.
(72) DUFRESNE, Robert
(31) 201562257776 P
201562149134 P
(32) 20.11.2015
17.04.2015
(33) United States of America
United States of America

(51) C25F 3/06
C25F 7/00
C25F 7/02
G21F 9/00
(11) EP3874529
(21) EP19798346.3
(47) 29.01.2025
(87) GB2019053059
07.05.2020
(22) 29.10.2019
(54) ELECTROLYTIC TREATMENT FOR NUCLEAR DECONTAMINATION
(73) C-Tech Innovation Limited
National Nuclear Laboratory Limited
(72) BELL, Robert
O'BRIEN, Luke
COLLINS, John
(31) 201817604
(32) 29.10.2018
(33) United Kingdom

(51) C25F 3/08
C25F 3/26
(11) EP4361322
(21) EP22204696.3
(47) 29.01.2025
(22) 31.10.2022
(54) A METHOD FOR ELECTROCHEMICAL SURFACE TREATMENT OF BIOMEDICAL PRODUCT MADE OF TITANIUM OR TI-BASED ALLOYS
(73) Centrum pre vyuzitie pokrocilych materialov Slovenskej akademie vied, verejna vyskumna institucia
Ustav anorganickej chemie Slovenskej akademie vied, verejna vyskumna institucia
(72) Kityk, Anna
Hnatko, Miroslav

(51) C30B 23/00
C30B 29/36
(11) EP2852699
(21) EP13778046.6
(47) 29.01.2025
(87) US2013037554
24.10.2013
(22) 22.04.2013
(54) METHOD AND APPARATUS FOR PREAPRING LARGE DIAMETER, HIGH QUALITY SIC SINGLE CRYSTALS
(73) II-VI Incorporated
(72) ANDERSON, Thomas, E.
XU, Xueping
WU, Ping
ZWIEBACK, Ilya
SOUZIS, Andrew, E.
RENGARAJAN, Varatharajan
RULAND, Gary, E.
GUPTA, Avinash, K.
(31) 201261635998 P
(32) 20.04.2012
(33) United States of America

(51) D01D 5/00
(11) EP2971292
(21) EP14773803.3
(47) 29.01.2025
(87) US2014025601
02.10.2014
(22) 13.03.2014
(54) ELECTROSPINNING APPARATUS AND METHODS OF USE THEREOF
(73) Lifenet Health
(72) KEMPER, Nathan
PRITCHARD, Andy
FRANCIS, Michael
(31) 201361786196 P
(32) 14.03.2013
(33) United States of America

(51) D01F 6/04
C08F 10/02
D01F 6/30
D01F 6/46
D01D 5/06
(11) EP3739088
(21) EP20182383.8
(47) 29.01.2025
(22) 12.12.2016
(54) LOW CREEP FIBER
(73) Avient Protective Materials B.V.
(72) OOSTERLINCK, Filip, Stefan, Emiel
ENGELS, Tom, Antonius, Philomena
ROOZEMOND, Peter
STEPANYAN, Roman
DE CREMER, Gert
BERTHOUD, Romain
SEVERN, John, Richard
(31) 15200047
(32) 15.12.2015
(33) European Patent Office (EPO)

(51) D01H 1/115
D01H 4/38
(11) EP4259867
(21) EP21836348.9
(47) 29.01.2025
(87) EP2021083941
23.06.2022
(22) 02.12.2021
(54) MULTIFUNCTIONAL NOZZLE FOR A SPINNING MACHINE
(73) Saurer Spinning Solutions GmbH & Co. KG
(72) SENDLER, Pia
HABERKORN, Dieter
(31) 102020133359
(32) 14.12.2020
(33) Germany

(51) D01H 1/115
D01H 11/00
(11) EP4015681
(21) EP20215332.6
(47) 29.01.2025
(22) 18.12.2020
(54) SPINNING STATION WITH A CLEANING NOZZLE AND METHOD FOR CLEANING A YARN FORMING ELEMENT
(73) Saurer Intelligent Technology AG
(72) Günther, Karoline
Meißner, Sarah
Seshayer, Chandrassekaran

(51) D01H 1/115
D01H 13/04
(11) EP4015682
(21) EP20215368.0
(47) 29.01.2025
(22) 18.12.2020
(54) WORK STATION OF AN AIR SPINNING MACHINE
(73) Saurer Intelligent Technology AG
(72) Yüksel, Turgay

(51) D02G 3/16
D02G 3/26
F16G 1/28
F16H 7/02
(11) EP4159904
(21) EP21814381.6
(47) 29.01.2025
(87) JP2021020100
02.12.2021
(22) 26.05.2021
(54) TOOTHED BELT TRANSMISSION DEVICE
(73) Mitsuboshi Belting Ltd.
(72) YOSHIDA Masakuni
OKABE Hirofumi

HOKI Yuto
(31) 2021083225
2020094540
(32) 17.05.2021
29.05.2020
(33) Japan
Japan

(51) D04B 1/02
D04B 1/04
(11) EP4083285
(21) EP20908275.9
(47) 29.01.2025
(87) JP2020045222
01.07.2021
(22) 04.12.2020
(54) PILE FABRIC AND MANUFACTURING METHOD THEREFOR
(73) Kaneka Corporation
(72) TAOKA, Nobutaka
HIRAI, Yusuke
TOKUMOTO, Hiroyuki
SHINBAYASHI, Hiroyuki
(31) 2019233718
(32) 25.12.2019
(33) Japan

(51) D04B 1/10
A41C 3/00
D04B 1/24
(11) EP4079950
(21) EP22165673.9
(47) 29.01.2025
(22) 03.05.2017
(54) UPPER-TORSO GARMENT WITH TUBULAR-JACQUARD KNIT STRUCTURE
(73) Nike Innovate C.V.
(72) MONTGOMERY, Paul R.
RENDONE, Nicole
STAUB, Andrea J.
MECKLEY, Virginia
DIAZ, Josue
(31) 201715584938
(32) 02.05.2017
(33) United States of America

(51) D04B 1/10
D04B 7/10
D04B 1/22
(11) EP4089217
(21) EP21172932.2
(47) 29.01.2025
(22) 10.05.2021
(54) METHOD FOR KNITTING AND FORMING WEFT-KNITTED FABRIC WITH VARYING THICKNESS BY FLAT KNITTING MACHINE AND WEFT-KNITTED FABRIC THEREOF
(73) Pai Lung Machinery Mill Co., Ltd.
(72) LEE, Chih-Chiang
CHEN, Po-Chun
SHIH, Ruei-Wen

(51) D04B 1/22
D04B 15/12
(11) EP3894621
(21) EP19832787.6
(47) 29.01.2025
(87) US2019065391
18.06.2020
(22) 10.12.2019
(54) KNITTING METHOD USING NEEDLE BED RACKING
(73) Nike Innovate C.V.
(72) MEIR, Adrian
(31) 201862777566 P
(32) 10.12.2018
(33) United States of America

(51) D04H 1/4234
B01D 39/10
B01D 39/12
B01D 39/20
B22F 3/00
H01M 4/04
H01M 4/80
(11) EP4281608
(21) EP22728541.8
(47) 29.01.2025
(87) EP2022062655
17.11.2022
(22) 10.05.2022
(54) NETWORK OF METAL FIBERS AND METHOD OF ASSEMBLING A FIBER NETWORK
(73) Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.
(72) SPATZ, Joachim
HACKNER, Maximilian
(31) PCT/EP2021/062435
(32) 11.05.2021
(33) World Intellectual Property Office (WIPO)

(51) D04H 3/147
D04H 3/011
D04H 3/018
(11) EP4219815
(21) EP21872321.1
(47) 29.01.2025
(87) JP2021034095
31.03.2022
(22) 16.09.2021
(54) LONG-FIBER WOVEN FABRIC AND METHOD FOR PRODUCING LONG-FIBER WOVEN FABRIC
(73) TOYOBO MC Corporation
(72) SAKAGUCHI, Hiroyasu
YOSHIDA, Hideo
SAIJO, Masahiro
INATOMI, Shinichiro
MINEMURA, Shinichi
(31) 2021126428
2020162365
(32) 02.08.2021
28.09.2020
(33) Japan
Japan

(51) D05B 55/02
D05B 55/10
D05C 11/04
D04H 18/02
(11) EP3529408
(21) EP17861919.3
(47) 29.01.2025
(87) US2017056851
26.04.2018
(22) 17.10.2017
(54) SYSTEMS FOR MANUFACTURING FOOTWEAR FELTING
(73) NIKE Innovate C.V.
(72) HO, Lai Wa C.
(31) 201715589641
201662409735 P
(32) 08.05.2017
18.10.2016
(33) United States of America
United States of America

(51) D06F 33/32
D06F 37/30
D06F 103/02
D06F 103/24
D06F 103/38
D06F 103/46
D06F 105/00
D06F 105/46
D06F 37/04
(11) EP4127292
(21) EP21715185.1
(47) 29.01.2025
(87) EP2021057249
07.10.2021
(22) 22.03.2021
(54) METHOD OF OPERATING AN AUTOMATIC WASHING MACHINE AND AUTOMATIC WASHING MACHINE
(73) Miele & Cie. KG
(72) BICKER, Rainer
KORTENJANN, Magnus
(31) 102020108694
(32) 30.03.2020
(33) Germany

(51) D06F 33/36
D06F 35/00
D06F 37/34
D06F 37/38
D06F 103/04
D06F 103/46
D06F 105/00
(11) EP4127294
(21) EP21715189.3
(47) 29.01.2025
(87) EP2021057269
07.10.2021
(22) 22.03.2021
(54) METHOD OF OPERATING AN AUTOMATIC WASHING MACHINE AND AUTOMATIC WASHING MACHINE
(73) Miele & Cie. KG
(72) ZIELKE, Marcel
SIEDING, Dirk
KORTENJANN, Magnus
BICKER, Rainer
(31) 102020108754
(32) 30.03.2020
(33) Germany

(51) D06F 33/37
D06F 39/02
D06F 39/14
D06F 39/08
D06F 25/00
D06F 58/22
(11) EP4144907
(21) EP22191737.0
(47) 29.01.2025
(22) 23.08.2022
(54) WASHING MACHINE AND METHOD FOR OPERATING A WASHING MACHINE
(73) Miele & Cie. KG

(72) BEHR, Markus
(31) 102021123053
(32) 07.09.2021
(33) Germany

(51) D06F 33/37
G06Q 50/06
D06F 39/02
G05B 15/02
D06F 33/47
D06F 33/46
(11) EP4249663
(21) EP21874605.5
(47) 29.01.2025
(87) CN2021126753
07.04.2022
(22) 27.10.2021
(54) CONTROL METHOD FOR SMART HOME SYSTEM
(73) Haier Smart Home Co., Ltd.
Qingdao Haier Washing Machine Co., Ltd.
(72) ZHANG, Shuxia
HUANG, Zhenxing
XU, Sheng
(31) 202011302965
(32) 19.11.2020
(33) China

(51) D06F 33/46
D06F 103/16
D06F 105/02
(11) EP4134477
(21) EP22184437.6
(47) 29.01.2025
(22) 12.07.2022
(54) METHOD AND CONTROL DEVICE FOR DETERMINING AN AMOUNT OF WATER AND CLEANING DEVICE
(73) Miele & Cie. KG
(72) Zielke, Marcel
Beckord, Christian
Sieding, Dirk
Löffler, Alexander
(31) 102021120590
(32) 09.08.2021
(33) Germany

(51) D06F 34/08
D06F 39/10
D06F 33/32
D06F 25/00
D06F 39/08
D06F 105/06
D06F 105/08
D06F 105/48
D06F 105/54
(11) EP3608465
(21) EP19185503.0
(47) 29.01.2025
(22) 10.07.2019
(54) HOUSEHOLD APPLIANCE FOR TREATING LAUNDRY
(73) BSH Hausgeräte GmbH
(72) Bischof, Andreas
Eglmeier, Hans
(31) 102018213381
(32) 09.08.2018
(33) Germany

(51) D06F 34/30
D06F 34/32
(11) EP4249665
(21) EP21912600.0
(47) 29.01.2025
(87) CN2021082525
07.07.2022
(22) 24.03.2021
(54) ROTARY KNOB ASSEMBLY AND ELECTRICAL APPARATUS
(73) Wuxi Little Swan Electric Co., Ltd.
(72) CHEN, Yuwen
LI, Birong
(31) 202011595610
(32) 29.12.2020
(33) China

(51) D06F 35/00
D06F 37/04
(11) EP4127297
(21) EP21715168.7
(47) 29.01.2025
(87) EP2021057194
07.10.2021
(22) 22.03.2021
(54) METHOD AND CONTROL UNIT FOR CARRYING OUT A SPIN-DRY PROGRAM FOR A CLEANING APPLIANCE, AND CLEANING APPLIANCE
(73) Miele & Cie. KG
(72) FEMMER, Uwe
ZIELKE, Marcel
BICKER, Rainer
FECHTEL, Benedikt
SIEDING, Dirk
LASNER, Steffen
DRÜCKER, Markus
KORTENJANN, Magnus
(31) 102020108677
(32) 30.03.2020
(33) Germany

(51) D06F 37/04
D06F 95/00
D06F 37/08
(11) EP3827124
(21) EP19761921.6
(47) 29.01.2025
(87) FR2019051854
30.01.2020
(22) 26.07.2019
(54) DRUM FOR A WASHING MACHINE, COMPRISING AT LEAST ONE PARALLELEPIPED-SHAPED COMPARTMENT, AND WASHING MACHINE COMPRISING SAME
(73) Wolak, Kévin
Barreau, Denis
(72) Barreau, Denis
Wolak, Kévin
(31) 1856959
(32) 26.07.2018
(33) France

(51) D06F 37/10
D06F 37/28
D06F 39/14
D06F 58/04
D06F 58/20
(11) EP4239119
(21) EP23187263.1
(47) 29.01.2025
(22) 13.11.2019
(54) CLOTHES HANDLING APPARATUS
(73) Samsung Electronics Co., Ltd.
(72) PARK, Jae Won
KANG, Hyun Su
LEE, Ki Su
KIM, Joon Ho
(31) 20180139308
(32) 13.11.2018
(33) Korea (Republic)

(51) D06F 39/00
D06F 39/02
D06F 39/12
D06F 58/20
D06F 23/02
(11) EP4166707
(21) EP22196884.5
(47) 29.01.2025
(22) 21.09.2022
(54) LAUNDRY CARE APPLIANCE WITH AN AUTOMATIC DOSING SYSTEM
(73) BSH Hausgeräte GmbH
(72) Ziegler, Jörg
Ayhaner, Alper
Patel, Necdet
(31) 102021211725
(32) 18.10.2021
(33) Germany

(51) D06F 39/02
(11) EP4036302
(21) EP22154376.2
(47) 29.01.2025
(22) 31.01.2022
(54) DISPENSING ASSEMBLY FOR APPLIANCE
(73) Whirlpool Corporation
(72) Schaaf, Demetrius
Sells, Joel Matthew
Carpenter, Scott E.
Burgess, Brent Michael
Bauman, Gregory Edward
Murphy, Sayer James
Hartnett, Christopher Aidan
Hammond, Richard Lee
VanFossen, Tristan James
(31) 202117163919
(32) 01.02.2021
(33) United States of America

(51) D06F 39/02
D06F 39/08
(11) EP3779021
(21) EP19804455.4
(47) 29.01.2025
(87) KR2019005719
21.11.2019
(22) 13.05.2019
(54) WASHING MACHINE
(73) Samsung Electronics Co., Ltd.
(72) CHO, Hwang Mook
SEO, Eung Ryeol
PARK, Jun Hong
LEE, Geon Ung
KIM, Hyun Joo
KIM, Jin Baek
(31) 20180055960
(32) 16.05.2018
(33) Korea (Republic)

(51) D06F 39/04

D06F 58/26
D06F 58/40
D06F 34/26
D06F 34/10
H05B 6/10
(11) EP4112802
(21) EP21759901.8
(47) 29.01.2025
(87) KR2021002515
02.09.2021
(22) 26.02.2021
(54) CLOTHING TREATMENT APPARATUS
(73) LG Electronics Inc.
Seoul National University R & DB Foundation
(72) JUN, Chaseung
SUL, Seungki
LEE, Joohyun
KIM, Hwigon
KONG, Taewoong
HONG, Sangwook
(31) 20200025604
(32) 28.02.2020
(33) Korea (Republic)

(51) D06F 39/08
D06F 25/00
D06F 39/02
(11) EP4053324
(21) EP22155568.3
(47) 29.01.2025
(22) 08.02.2022
(54) CLOTHES PROCESSING MACHINE
(73) BSH Hausgeräte GmbH
(72) Wang, Yongjia
Chen, Yanhong
Zhu, Yanglei
(31) 202110244939
(32) 05.03.2021
(33) China

(51) D06F 39/08
D06F 37/26
D06F 39/02
(11) EP4043634
(21) EP22166175.4
(47) 29.01.2025
(22) 17.12.2019
(54) LAUNDRY TREATING APPARATUS
(73) Qingdao Haier Drum Washing Machine Co., Ltd.
Haier Smart Home Co., Ltd.
(72) HUANG, Tao
XU, Yonghong
HUANG, Bencai
ZHAO, Xueli
(31) 201811560199
201811557261
201811567338
201811557254
201811560212
(32) 19.12.2018
19.12.2018
19.12.2018
19.12.2018
19.12.2018
(33) China
China
China
China

(51) D06F 39/08
D06F 39/10
D06F 33/43
D06F 103/14
(11) EP4053323
(21) EP22154986.8
(47) 29.01.2025
(22) 03.02.2022
(54) WASHING MACHINE WITH PUMP SYSTEM AND METHOD FOR ITS OPERATION
(73) BSH Hausgeräte GmbH
(72) Römer, Raymond
Hahn, Kevin
Mischke, Dirk
Wetzel, Stefan
Jacob, Marvin
(31) 102021202010
(32) 03.03.2021
(33) Germany

(51) D06F 58/22
B01D 46/00
(11) EP4019693
(21) EP20899750.2
(47) 29.01.2025
(87) KR2020017764
17.06.2021
(22) 07.12.2020
(54) LINT REMOVAL DEVICE AND CLOTHES DRYER INCLUDING SAME
(73) Samsung Electronics Co., Ltd.
(72) KI, Daesung
KIM, Juyeong
SEO, Dongpil
PARK, Hyunuk
(31) 20190166523
(32) 13.12.2019
(33) Korea (Republic)

(51) D06F 59/02
A47G 25/20
A47G 25/06
A47G 25/62
(11) EP4256122
(21) EP21823733.7
(47) 29.01.2025
(87) AT2021060455
09.06.2022
(22) 01.12.2021
(54) CLOTHES HOLDER
(73) Gurdet, Agata
(72) Gurdet, Agata
(31) 510492020
(32) 02.12.2020
(33) Austria

(51) D06N 3/00
D06M 11/00
D06M 15/564
D06N 3/14
D06B 3/18
D06B 15/00
D06C 11/00
(11) EP3901364
(21) EP19899044.2
(47) 29.01.2025
(87) JP2019048191
25.06.2020
(22) 10.12.2019
(54) NAPPED ARTIFICIAL LEATHER AND METHOD FOR PRODUCING SAME
(73) Kuraray Co., Ltd.
(72) NAGAYAMA, Rei
HATTORI, Hiroyuki
KATOU, Yasuhiro
SUETOSHI, Kazuyuki
(31) 2018239314
(32) 21.12.2018
(33) Japan

(51) D21C 5/02
D21C 9/10
D21H 11/14
(11) EP4274930
(21) EP21840694.0
(47) 29.01.2025
(87) IB2021062425
14.07.2022
(22) 29.12.2021
(54) OXYGEN TREATMENT OF HIGH KAPPA FIBERS
(73) GPCP IP Holdings LLC
(72) HOLTMAN, Kevin M.
LEE, Jeffrey A.
MILLER, Daniel E.
SUMNICHT, Daniel W.
(31) 202163134222 P
(32) 06.01.2021
(33) United States of America

(51) D21H 13/26
D21H 17/55
D21D 1/20
D21C 3/26
(11) EP4056755
(21) EP20910037.9
(47) 29.01.2025
(87) KR2020019048
08.07.2021
(22) 24.12.2020
(54) ARAMID PULP AND METHOD FOR MANUFACTURING SAME
(73) Kolon Industries, Inc.
(72) GU, Namdae
KO, Changhee
(31) 20200174805
20190179689
(32) 14.12.2020
31.12.2019
(33) Korea (Republic)
Korea (Republic)

(51) D21H 17/28
D21H 19/20
D21H 19/54
D21H 21/36
D21H 27/10
(11) EP4253651
(21) EP23020166.7
(47) 29.01.2025
(22) 31.03.2023
(54) METHOD FOR COATING CELLULOSIC MATERIAL
(73) RAIZ - Instituto De Investigação Da Floresta E Papel
Universidade de Coimbra
(72) Dos Santos Ferreira, Ana Cláudia
Monteiro Valente, Artur José
Aguado Garcia, Roberto Juan
Martins Lourenço, Ana Filipa

Bairrada Murtinho, Dina Maria
(31) 2022117894
(32) 31.03.2022
(33) Portugal

(51) D21H 27/40
B31F 1/07
B31F 1/12
B32B 29/00
(11) EP4077808
(21) EP19956697.7
(47) 29.01.2025
(87) SE2019051307
24.06.2021
(22) 18.12.2019
(54) TISSUE PRODUCT AND METHOD AND APPARATUS FOR PRODUCING SAME
(73) Essity Hygiene and Health Aktiebolag
(72) KIENTZ, Emmanuelle
BUOB, Agne
LAMB, Hans- Jürgen
SAUTER, Jürgen
JEANNOT, Sébastien
RUSSO, Carlo

(51) D21J 1/00
B82Y 30/00
B82Y 40/00
D21H 11/18
D21H 15/02
C08B 15/08
C08J 5/18
(11) EP3845706
(21) EP19869748.4
(47) 29.01.2025
(87) JP2019036541
09.04.2020
(22) 18.09.2019
(54) MOLDED BODY OF CELLULOSE FIBER AND METHOD OF MANUFACTURING SAME
(73) Daio Paper Corporation
(72) IMAI, Takaaki
MIYOSHI, Takahiro
OKAWA, Junya
(31) 2018190492
(32) 05.10.2018
(33) Japan

(51) E01B 27/16
(11) EP4256133
(21) EP21819324.1
(47) 29.01.2025
(87) AT2021060454
09.06.2022
(22) 30.11.2021
(54) METHOD FOR AUTOMATIC AUTONOMOUS CONTROL OF A TAMPING MACHINE
(73) HP3 Real GmbH
(72) LICHTBERGER, Bernhard
(31) 5023820 U
(32) 02.12.2020
(33) Austria

(51) E01B 31/00
E01B 31/13
E01B 31/17
B07B 7/083
B08B 5/04
B23Q 11/00
F04D 29/28
F24F 9/00
(11) EP4368776
(21) EP23206099.6
(47) 29.01.2025
(22) 26.10.2023
(54) SUCTION DEVICE FOR PARTICLES IN THE MACHINING OF RAILS
(73) Schweerbau International GmbH & Co. KG
(72) Mevert, Frank
(31) 102022129601
(32) 09.11.2022
(33) Germany

(51) E01C 11/00
(11) EP3839141
(21) EP20212154.7
(47) 29.01.2025
(22) 07.12.2020
(54) METHOD FOR RENOVATING A ROAD SURFACE AND LOCKING RING THEREFOR
(73) Riedlberger, Markus
(72) Riedlberger, Markus
(31) 102019008882
(32) 19.12.2019
(33) Germany

(51) E01C 23/082
(11) EP4263945
(21) EP21839912.9
(47) 29.01.2025
(87) EP2021085968
23.06.2022
(22) 15.12.2021
(54) TOWABLE STRUCTURE FOR THE TREATEMENT OF ROAD SURFACES
(73) Bridgestone Europe NV/SA
(72) CECCHINI, Davide
STRACQUALURSI, Giuseppe
DUCCI, Stefano
CRISTADORO, Daniele
(31) 202000031430
(32) 18.12.2020
(33) Italy

(51) E01D 19/10
B25J 5/04
E01D 22/00
E04G 3/28
(11) EP3997271
(21) EP20758343.6
(47) 29.01.2025
(87) IB2020056408
14.01.2021
(22) 08.07.2020
(54) SYSTEM AND METHOD FOR BRIDGE INSPECTION AND MAINTENANCE
(73) Fondazione Istituto Italiano di Tecnologia
(72) SCACCIA, Massimiliano
BAIZID, Khelifa
CANNELLA, Ferdinando
CEPOLINA, Emanuela Elisa
(31) 201900011295
(32) 09.07.2019
(33) Italy

(51) E02D 3/00
(11) EP3899145
(21) EP19845703.8
(47) 29.01.2025
(87) FR2019053086
25.06.2020
(22) 16.12.2019
(54) METHOD OF SUPPORTING A SOIL TREATMENT PROCESS
(73) Soletanche Freyssinet
(72) QUANDALLE, Benoit
(31) 1873143
(32) 18.12.2018
(33) France

(51) E02D 15/06
E02D 27/52
B28C 9/04
B63B 35/00
B28C 7/16
B63B 27/25
(11) EP3008251
(21) EP14810356.7
(47) 29.01.2025
(87) US2014042151
18.12.2014
(22) 12.06.2014
(54) OFFSHORE PREPARATION SYSTEM
(73) Meedl68 LP
(72) PIENADO, Rene E.
(31) 201361834323 P
(32) 12.06.2013
(33) United States of America

(51) E02F 3/407
B07B 1/15
(11) EP4263954
(21) EP21835403.3
(47) 29.01.2025
(87) IB2021061814
23.06.2022
(22) 16.12.2021
(54) SCREENING BUCKET
(73) Simex Engineering S.r.l.
(72) RISI, Mirco
(31) 202000031091
(32) 16.12.2020
(33) Italy

(51) E02F 9/08
E02F 9/20
B60T 1/00
(11) EP4276252
(21) EP23168287.3
(47) 29.01.2025
(22) 17.04.2023
(54) MOBILE WORKING MACHINE, IN PARTICULAR WHEEL LOADER, WITH AN ELECTRIC DRIVE MOTOR
(73) Weidemann GmbH
(72) Geiger, Tom
Albach, Andreas
(31) 102022111729
(32) 11.05.2022
(33) Germany

(51) E02F 9/26
E02F 9/28
G01N 3/62
B29C 31/00
(11) EP4237630
(21) EP21801907.3
(47) 29.01.2025
(87) EP2021080031
05.05.2022
(22) 28.10.2021

(54) PROTECTIVE CAPSULES FOR EARTH MOVING MACHINES HAVING A SLOT ANTENNA
(73) Metalogenia Research & Technologies, S.L.
(72) GIMENO TORDERA, Albert
VALLVÉ BERTRAN, Nil
MARQUEZ LLINAS, Jordi
FERRÁNDIZ BORRAS, Vicent
(31) 21382164
20382939
(32) 25.02.2021
28.10.2020
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) E03C 1/04
A47K 1/02
F21V 33/00
F21V 23/04
A47K 10/06
A47B 67/04
F21Y 113/13
F21Y 115/10
E03C 1/05
(11) EP3699365
(21) EP18868991.3
(47) 29.01.2025
(87) KR2018012299
25.04.2019
(22) 17.10.2018
(54) JOG DIAL OPERATION SWITCH AND SINK CABINET DEVICE COMPRISING SAME
(73) LG Electronics Inc.
(72) YANG, Inhyung
KIM, Seongho
KIM, Jong Seok
PARK, Daeyun
JO, Ung Je
(31) 20170156799
20170155157
20170155155
20170138613
20170134651
(32) 22.11.2017
20.11.2017
20.11.2017
24.10.2017
17.10.2017
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) E03D 11/14
E03D 11/13
H02G 3/04
H02G 3/38
E03D 9/08
(11) EP3957801
(21) EP21188264.2
(47) 29.01.2025
(22) 28.07.2021
(54) CONNECTION DEVICE BETWEEN A FLUSH-MOUNTED WATER COLLECTOR AND A SINK
(73) Oceanwell (Xiamen) Industrial Co., Ltd.
(72) CHEN, Ganming
YU, Xingyi
PENG, Dong
(31) 202021536839 U
(32) 29.07.2020
(33) China

(51) E04B 1/04
E04C 2/288
E04B 2/00
E04C 2/04
E04C 2/38
E04C 2/00
E04B 1/16
(11) EP4390000
(21) EP23211260.7
(47) 29.01.2025
(22) 21.11.2023
(54) PREFABRICATED HYBRID CONSTRUCTION PANEL, IN PARTICULAR FOR BUILDING FACADES
(73) LESAGE DEVELOPPEMENT
(72) LOZACH, Gwen
BOICHON, Emmanuel
DE CHEFDEBIEN-ZAGARRIGA, André
(31) 2213901
(32) 20.12.2022
(33) France

(51) E04B 1/348
E04H 1/12
(11) EP4006245
(21) EP21206911.6
(47) 29.01.2025
(22) 08.11.2021
(54) BUILDING MODULE FOR BUILDING A FREESTANDING BUILDING
(73) MiTec Projektmanagement und Technic GmbH
(72) MIKA, Michael Reiner
(31) 202020106862 U
(32) 30.11.2020
(33) Germany

(51) E04B 1/41
E04B 1/48
E04B 1/04
E04B 5/02
(11) EP3899155
(21) EP19898911.3
(47) 29.01.2025
(87) AU2019051425
25.06.2020
(22) 20.12.2019
(54) IMPROVED CONNECTOR
(73) Max Frank GmbH & Co. KG
(72) ROGERS, Lance
(31) 2018904920
(32) 21.12.2018
(33) Australia

(51) E04B 2/74
(11) EP3978699
(21) EP20200055.0
(47) 29.01.2025
(22) 05.10.2020
(54) DEMOUNTABLE WALL PARTITION SYSTEM
(73) SAINT-GOBAIN PLACO
(72) TOUGNE, Gaël
JESPERSEN, Uffe

(51) E04B 9/00
F21V 7/00
F21Y 101/00
(11) EP3301237
(21) EP17193922.6
(47) 29.01.2025
(22) 29.09.2017
(54) CLADDING ELEMENT AND ILLUMINATION SYSTEM
(73) Regent Beleuchtungskörper AG
(72) Reutter, Kornelius
Dreyfus, Thierry
(31) 5712017
12962016
(32) 28.04.2017
30.09.2016
(33) Switzerland
Switzerland

(51) E04C 2/42
E04F 15/02
E04F 19/10
(11) EP3891347
(21) EP19817637.2
(47) 29.01.2025
(87) EP2019083825
11.06.2020
(22) 05.12.2019
(54) GRATING AND METHOD FOR PRODUCTION
(73) ACO Ahlmann SE & Co. KG
(72) KRCIL, Jiri
(31) 102018131383
(32) 07.12.2018
(33) Germany

(51) E04C 5/01
E04C 5/07
E04C 5/08
E04C 5/12
(11) EP4206413
(21) EP23158276.8
(47) 29.01.2025
(22) 17.09.2012
(54) PRESTRESSED CONCRETE COMPONENTS AND METHOD FOR PRODUCING PRESTRESSED CONCRETE COMPONENTS
(73) CPC AG
(72) KURATH-GROLLMANN, Josef Peter

(51) E04D 1/30
E04D 1/04
F24S 20/67
F24S 25/613
H02S 20/23
H02S 20/25
(11) EP4343072
(21) EP23195871.1
(47) 29.01.2025
(22) 07.09.2023
(54) ATTACHMENT SYSTEM CONFIGURED TO SECURE AT LEAST ONE PHOTOVOLTAIC PANEL TO A ROOF
(73) Edilians
(72) MARTINAT, Eric
POUILLOT, Laurent
DUBOST, Daniel
(31) 2209730
(32) 26.09.2022
(33) France

(51) E04D 13/00
E04D 13/04
G08B 21/20
G08B 25/10
H04W 4/38
(11) EP4240924
(21) EP21890142.9
(47) 29.01.2025
(87) US2021058236
12.05.2022
(22) 05.11.2021
(54) INTELLIGENT ROOF DRAIN SYSTEMS
(73) Watts Regulator Co.
(72) RASMUSSEN, Michael
LAUGESEN, Caspar
(31) 202063110759 P
(32) 06.11.2020
(33) United States of America

(51) E04D 13/03
E06B 3/66
E04D 13/035
(11) EP4269715
(21) EP22169649.5
(47) 29.01.2025
(22) 25.04.2022
(54) ROOF WINDOW COMPRISING AN INSULATING GLASS UNIT WITH UTILITY SPACE
(73) VKR Holding A/S
(72) WIIG, Martin Schwartz
KRISTENSEN, Jens Troels Plesner
MØNSTED, David Damm

(51) E04D 13/03
E06B 3/66
E04D 13/035
(11) EP4269716
(21) EP22169650.3
(47) 29.01.2025
(22) 25.04.2022
(54) ROOF WINDOW COMPRISING ONE OR MORE HOLDING MEMBERS
(73) VKR Holding A/S
(72) THOMSEN, Carsten

(51) E04F 15/02
B44C 5/04
(11) EP4219861
(21) EP23161780.4
(47) 29.01.2025
(22) 25.10.2016
(54) FLOOR PANEL AND METHOD FOR MANUFACTURING FLOOR PANELS
(73) Unilin, BV
(72) VANDEVOORDE, Christof
(31) 201505691
201662359818 P
(32) 27.10.2015
08.07.2016
(33) Belgium
United States of America

(51) E04F 15/02
F16B 5/00
(11) EP4325070
(21) EP23214434.5
(47) 29.01.2025
(22) 14.06.2010
(54) FLOOR PANEL AND FLOOR COVERING CONSISTING OF A PLURALITY OF SUCH FLOOR PANELS
(73) I4F LICENSING NV
(72) PERRA, Antonio Giuseppe
ZWEED, Sander Gordon
(31) 2003019
PCT/NL2009/050540
(32) 12.06.2009
09.09.2009
(33) Netherlands
World Intellectual Property Office (WIPO)

(51) E04G 5/06
E04B 1/41
E04G 15/04
E04G 5/04
E04C 5/16
E04C 5/18
E04C 5/20
(11) EP3921490
(21) EP19832701.7
(47) 29.01.2025
(87) EP2019086980
13.08.2020
(22) 23.12.2019
(54) ASSEMBLY COMPRISING A MOUNTING SYSTEM AND AN ANCHORING DEVICE AND A METHOD FOR MOUNTING AN ASSEMBLY
(73) Albanese, Pino
(72) Albanese, Pino
(31) 1422019
(32) 06.02.2019
(33) Switzerland

(51) E04G 21/04
(11) EP4298297
(21) EP22707734.4
(47) 29.01.2025
(87) EP2022054641
01.09.2022
(22) 24.02.2022
(54) BOOM-ARM SEGMENT AND METHOD FOR PRODUCING A BOOM-ARM SEGMENT
(73) Putzmeister Engineering GmbH
(72) BENZ, Andreas
MÜLLER, Ansgar
RAU, Benjamin
(31) 102021104701
(32) 26.02.2021
(33) Germany

(51) E04H 3/10
E02B 17/00
E04H 3/22
E04H 4/00
E04H 3/16
E02D 17/00
G06Q 50/08
G06Q 50/16
(11) EP3902964
(21) EP19902227.8
(47) 29.01.2025
(87) US2019068419
02.07.2020
(22) 23.12.2019
(54) URBAN PERFORMANCE VENUE FOR THE PROVISION OF ENTERTAINMENT TO AN AUDIENCE IN A BEACH THEMED SETTING
(73) CRYSTAL LAGOONS TECHNOLOGIES, INC.
(72) FISCHMANN, Fernando Benjamin
(31) 201916538273
201862785086 P
(32) 12.08.2019
26.12.2018
(33) United States of America
United States of America

(51) E04H 9/14
E04H 17/14
E06B 5/00
E06B 11/02
(11) EP3940172
(21) EP19918887.1
(47) 29.01.2025
(87) JP2019046620
17.09.2020
(22) 28.11.2019
(54) MULTIPLEX WATER CUTOFF WALL
(73) Land Business Co., Ltd.
(72) KAMEI, Masamichi
(31) 2019046229
(32) 13.03.2019
(33) Japan

(51) E04H 12/34
B66B 7/02
E04F 17/00
B66F 3/46
(11) EP4004311
(21) EP21726551.1
(47) 29.01.2025
(87) DE2021200047
25.11.2021
(22) 14.04.2021
(54) METHOD FOR CONSTRUCTING AN ELEVATOR
(73) Gebhardt Fördertechnik GmbH
(72) GEBHARDT, Marco
HIMMELHAN, Reinhold
GEBHARDT, Fritz
(31) 102020206194
(32) 18.05.2020
(33) Germany

(51) E04H 17/18
E01F 13/02
E01F 13/12
E04H 17/16
E04H 17/00
(11) EP4339400
(21) EP23197772.9
(47) 29.01.2025
(22) 15.09.2023
(54) MOBILE FENCE ELEMENT AND MODULAR BARRIER FENCE FORMED BY A PLURALITY OF SUCH FENCE ELEMENTS
(73) Capra GmbH
(72) BOCKMEYER, Thomas
SCHROYEN, Jürgen
TILLMANN, Markus
(31) 22196249
(32) 16.09.2022
(33) European Patent Office (EPO)

(51) E05B 1/00
E05B 63/00
E05B 63/06
E05B 65/00
E05C 3/04
E05B 3/00

(11) EP4335997
(21) EP23188044.4
(47) 29.01.2025
(22) 27.07.2023
(54) CLOSING ASSEMBLY OF A DOOR AND DOOR WITH CLOSING ASSEMBLY
(73) Steinbach & Vollmann GmbH
(72) Kupka, Andreas Josef
(31) 22195029
(32) 12.09.2022
(33) European Patent Office (EPO)

(51) E05B 9/08
E05B 17/00
E05B 27/00
(11) EP4394149
(21) EP23206171.3
(47) 29.01.2025
(22) 26.10.2023
(54) REKEYABLE CYLINDER FOR A LOCK, METHOD FOR PRODUCING A REKEYABLE CYLINDER AND PROCESSES FOR PREPARING FOR USE A REKEYABLE CYLINDER
(73) Alban Giacomo S.p.A.
(72) ALBAN, Giacomo Mario
(31) 202200027033
(32) 28.12.2022
(33) Italy

(51) E05B 13/00
E05B 83/02
E05B 53/00
E05C 1/16
(11) EP4172436
(21) EP21737828.0
(47) 29.01.2025
(87) SE2021050633
30.12.2021
(22) 24.06.2021
(54) LOCKING ARRANGEMENT
(73) Autida AB
(72) Stenlund, Peter
(31) 2050755
(32) 24.06.2020
(33) Sweden

(51) E05B 17/22
E05B 47/00
E05B 49/00
E05B 65/00
G07C 9/00
E05B 37/08
E05B 47/06
(11) EP3561202
(21) EP19173291.6
(47) 29.01.2025
(22) 18.12.2013
(54) DEVICE AND METHODS FOR PREVENTING UNWANTED ACCESS TO A LOCKED ENCLOSURE
(73) Lock II, L.L.C.
(72) BURRUS, Chris L
MIMLITCH, Kenneth H
COOKE, Donald P Jr
REDMON, Benjamin T
DEHAVEN, Gregory J
JANES, John H
CRAYCRAFT, Brian T
MILLER, Clayton J
(31) 201261739437 P
(32) 19.12.2012
(33) United States of America

(51) E05B 19/00
E05B 27/00
(11) EP3822433
(21) EP20208515.5
(47) 29.01.2025
(22) 18.11.2020
(54) KEY, CYLINDER LOCK, SYSTEM AND METHOD
(73) SEA Schliess-Systeme AG
(72) Tahiri, Fatmir
Grossenbacher, Andreas
(31) 14582019
(32) 18.11.2019
(33) Switzerland

(51) E05B 21/06
E05B 19/00
(11) EP3045621
(21) EP15202589.6
(47) 29.01.2025
(22) 23.12.2015
(54) LOCK CYLINDER, KEY AND KEY BLANK
(73) ABUS August Bremicker Söhne KG
(31) 102014119678
(32) 29.12.2014
(33) Germany

(51) E05B 47/00
E05B 15/00
(11) EP4198224
(21) EP22212314.3
(47) 29.01.2025
(22) 08.12.2022
(54) ELECTRIC STRIKE
(73) IZYX Systems
(72) BURY, Jean
BROCHOT, Fabien
(31) 2113436
(32) 14.12.2021
(33) France

(51) E05B 73/00
(11) EP4295001
(21) EP22711283.6
(47) 29.01.2025
(87) GB2022050437
25.08.2022
(22) 17.02.2022
(54) SECURITY TAG
(73) Sekura Global IP LLP
(72) PRYCE-HALL, Timothy
(31) 202102311
(32) 18.02.2021
(33) United Kingdom

(51) E05B 79/20
E05B 81/06
E05B 81/16
E05B 81/90
E05B 83/02
E05B 85/22
(11) EP4332332
(21) EP23382861.5
(47) 29.01.2025
(22) 22.08.2023
(54) ELECTRONIC LOCK FOR CARGO VEHICLE DOORS
(73) Mecanizados Rodriguez Fernandez, S.L.
(72) PÉREZ LAGO, Miguel
(31) 202231421 U
(32) 30.08.2022
(33) Spain

(51) E05D 3/02
E05D 5/14
E05D 7/10
(11) EP4279689
(21) EP23174223.0
(47) 29.01.2025
(22) 19.05.2023
(54) HINGE FOR DOORS
(73) ELESA S.p.A.
(72) BERTANI, Alberto
(31) 202200010418
(32) 19.05.2022
(33) Italy

(51) E05D 3/14
E05F 5/02
(11) EP4314456
(21) EP22705445.9
(47) 29.01.2025
(87) FR2022050183
29.09.2022
(22) 01.02.2022
(54) PANTOGRAPH HINGE COMPRISING A RE-CENTRING DEVICE
(73) Stellantis Auto SAS
(72) ROBIN, Philippe
(31) 2103103
(32) 26.03.2021
(33) France

(51) E05D 5/02
E05D 15/30
E05D 15/52
(11) EP4015749
(21) EP21214559.3
(47) 29.01.2025
(22) 14.12.2021
(54) FIXING DEVICE FOR FIXING A FITTING PART TO A FRAME OF A BUILDING CLOSURE DEVICE COMPRISING A GROOVE, BUILDING CLOSURE DEVICE AND METHOD FOR FIXING A FITTING PART TO A FRAME OF A BUILDING CLOSURE DEVICE
(73) Roto Frank Fenster- und Türtechnologie GmbH
(72) Altweger, Tobias
Gonser, Manuel
(31) 102020216351
(32) 18.12.2020
(33) Germany

(51) E05D 7/081
E05D 11/00
F25D 23/02
(11) EP3926135
(21) EP21179978.8
(47) 29.01.2025
(22) 17.06.2021
(54) REFRIGERATOR
(73) LG Electronics Inc.
(72) HWANG, Joonyong
JANG, Jongmoon
(31) 20200073926
(32) 17.06.2020
(33) Korea (Republic)

(51) E05F 3/00
E05F 3/10
E05F 3/16
E05F 3/20
(11) EP3956537
(21) EP20717721.3
(47) 29.01.2025
(87) IB2020053405
22.10.2020
(22) 09.04.2020
(54) HINGE FOR DOORS OF REFRIGERATED CABINETS
(73) Cisaplast S.P.A.
(72) CAIONE, Stefano
CIOFI, Claudio
(31) 201900006160
(32) 19.04.2019
(33) Italy

(51) E05F 7/04
E05F 15/619
E05F 15/614
(11) EP4146896
(21) EP21727350.7
(47) 29.01.2025
(87) DE2021100163
11.11.2021
(22) 18.02.2021
(54) DOOR DRIVE FOR A MOTOR VEHICLE DOOR OR MOTOR VEHICLE FLAP
(73) Kiekert Aktiengesellschaft
(72) DROST, Bernhard
BERRES, Michael
(31) 102020112324
(32) 06.05.2020
(33) Germany

(51) E06B 1/34
E06B 1/60
E06B 1/68
E06B 1/62
(11) EP3805506
(21) EP20000363.0
(47) 29.01.2025
(22) 02.10.2020
(54) WINDOW COMPOSITE AND METHOD FOR INSERTING THE WINDOW COMPOSITE
(73) Soltkahn AG
(72) Soltkahn, Tassilo
(31) 202019004302 U
102019007280
(32) 11.10.2019
11.10.2019
(33) Germany
Germany

(51) E06B 3/663
(11) EP3877620
(21) EP19801513.3
(47) 29.01.2025
(87) EP2019080230
14.05.2020
(22) 05.11.2019
(54) INSULATING GLAZING UNIT FORMING A WINDOW OR DOOR OPENING PANEL, WHICH IS FRAMELESS AROUND AT LEAST A PART OF ITS PERIMETER
(73) Saint-Gobain Glass France
(72) MARION, Guillaume
ICLAZAN, Marian
MORIN, Camille
VATAMANU, Ghenadie
(31) 1860161
(32) 05.11.2018
(33) France

(51) E06B 3/67
E06B 5/20
(11) EP4291746
(21) EP22707813.6
(47) 29.01.2025
(87) FR2022050249
18.08.2022
(22) 11.02.2022
(54) GLAZING WITH RESONATORS
(73) Saint-Gobain Glass France
(72) DALZIN, Fabien
BOURE, Jean-Philippe
(31) 2101334
(32) 12.02.2021
(33) France

(51) E06B 3/88
E05F 7/00
(11) EP4045751
(21) EP20789170.6
(47) 29.01.2025
(87) EP2020078916
22.04.2021
(22) 14.10.2020
(54) DEVICE FOR HOLDING AND GUIDING A JOINERY OPENING LEAF
(73) HYDRO EXTRUDED SOLUTIONS AS
(72) MAZELLA, Antoine
LEROY, Jerôme
(31) 1911475
(32) 15.10.2019
(33) France

(51) E06B 9/17
E06B 9/54
E06B 9/42
(11) EP4290040
(21) EP23177269.0
(47) 29.01.2025
(22) 05.06.2023
(54) REMOVABLE DEVICE FOR ROLLER SHUTTER
(73) Caridade, Antoine
Valdebouze, Jean-François
(72) CARIDADE, Antoine
VALDEBOUZE, Jean -François
(31) 2205406
(32) 06.06.2022
(33) France

(51) E21B 21/08
E21B 47/047
E21B 47/06
(11) EP4189206
(21) EP20750208.9
(47) 29.01.2025
(87) EP2020071284
03.02.2022
(22) 28.07.2020
(54) DETECTING DOWNHOLE DRILLING EVENTS
(73) Montanuniversität Leoben
(72) THONHAUSER, Gerhard
ELMGERBI, Asad

(51) E21B 29/06
E21B 23/00
E21B 23/01
E21B 29/00
E21B 7/00
E21B 7/04
E21B 7/06
(11) EP4256168
(21) EP21901651.6
(47) 29.01.2025
(87) US2021072699
09.06.2022
(22) 02.12.2021
(54) METHOD AND APPARATUS FOR MILLING A WINDOW IN CASING
(73) ConocoPhillips Company
(72) MARIBU, Kenneth
RYAN, Anthony
ELLER, John Gary
(31) 202063120612 P
(32) 02.12.2020
(33) United States of America

(51) E21B 31/107
E21B 17/02
E21B 17/00
(11) EP4326970
(21) EP22724662.6
(47) 29.01.2025
(87) EP2022060551
27.10.2022
(22) 21.04.2022
(54) IMPACT DEVICE FOR A DRILL STRING
(73) think and vision GmbH
(72) RAMSAUER, Medardus
KOTOV, Anton
(31) 503062021
(32) 23.04.2021
(33) Austria

(51) E21B 33/127
(11) EP4226016
(21) EP21787471.8
(47) 29.01.2025
(87) EP2021077952
14.04.2022
(22) 08.10.2021
(54) EXPANSION APPARATUS
(73) Pragma Well Technology Limited
(72) PURKIS, Daniel, George
(31) 202016028
(32) 09.10.2020
(33) United Kingdom

(51) E21B 33/129
E21B 23/01
E21B 33/04
E21B 33/12
E21B 33/124
E21B 33/13
E21B 33/14
E21B 33/16
(11) EP4330514
(21) EP22724063.7
(47) 29.01.2025
(87) EP2022060490
03.11.2022
(22) 21.04.2022
(54) A WELL TOOL COMPRISING AN ANCHORING DEVICE AND METHOD FOR USING SAME

(73) Interwell Norway AS
(72) HIORTH, Thomas
(31) 20210509
(32) 27.04.2021
(33) Norway

(51) E21B 33/13
E21B 28/00
E21B 33/14
(11) EP4088001
(21) EP21738181.3
(47) 29.01.2025
(87) US2021012482
15.07.2021
(22) 07.01.2021
(54) SYSTEM AND METHOD FOR CEMENTING A TUBING
(73) National Oilwell DHT, L.P.
(72) ROSSING, Michael
(31) 202062958579 P
(32) 08.01.2020
(33) United States of America

(51) E21B 33/14
E21B 43/10
(11) EP4118298
(21) EP21711940.3
(47) 29.01.2025
(87) GB2021050587
16.09.2021
(22) 09.03.2021
(54) DOWNHOLE APPARATUS AND METHODS
(73) Expro North Sea Limited
(72) HORN, Tristam Paul
BRUCE, Stephen Edmund
SHAND, David Michael
REYNOLDS, Tyler Rhes
(31) 202019183
202003477
(32) 04.12.2020
10.03.2020
(33) United Kingdom
United Kingdom

(51) E21B 47/01
E21B 47/017
G01V 3/28
(11) EP4085181
(21) EP19872270.4
(47) 29.01.2025
(87) RU2019001049
08.07.2021
(22) 30.12.2019
(54) DOWNHOLE BAR ANTENNA WITH DISTRIBUTED WINDINGS
(73) Baker Hughes Oilfield Operations LLC
(72) HARTMANN, Andreas
VLASOV, David Sergeevich
VERSHININ, Alexander Sergeevich
BEHNSEN, Jens
FOLBERTH, Martin
VELKER, Nikolay Nikolaevich
LAMPE, Sven-Hendrik

(51) E21B 49/00
G01N 11/04
G01N 33/28
(11) EP4103816
(21) EP21710675.6
(47) 29.01.2025
(87) US2021017420
19.08.2021
(22) 10.02.2021
(54) LOST CIRCULATION MATERIALS (LCM) AND LOST CIRCULATION SHAPES (LCS) TEST FIXTURE
(73) Saudi Arabian Oil Company
(72) HITCHCOCK, Graham
WRIGHTON, Christopher Thomas
AFFLECK, Michael Anthony
(31) 202117168650
202062976033 P
(32) 05.02.2021
13.02.2020
(33) United States of America
United States of America

(51) E21B 49/00
G01V 3/18
G01V 13/00
(11) EP3578754
(21) EP19178259.8
(47) 29.01.2025
(22) 04.06.2019
(54) METHOD TO AUTOMATICALLY CALIBRATE A DOWNHOLE TOOL IN AN OIL-BASED MUD ENVIRONMENT
(73) Schlumberger Technology B.V.
(72) ABELLAN, Alexandre
(31) 201816000301
(32) 05.06.2018
(33) United States of America

(51) E21C 25/18
E21C 35/183
E21D 9/10
E21D 9/11
E21B 10/12
(11) EP3615771
(21) EP18719450.1
(47) 29.01.2025
(87) EP2018058269
01.11.2018
(22) 30.03.2018
(54) CUTTING APPARATUS
(73) Sandvik Intellectual Property AB
(72) STABER, Guenther
GARCIA, Luis
(31) 1750479
(32) 24.04.2017
(33) Sweden

(51) F01D 5/00
F01D 17/06
F01D 21/00
F01D 21/02
F01D 25/24
F01D 25/28
G01M 15/14
G02B 23/24
(11) EP3865659
(21) EP20211653.9
(47) 29.01.2025
(22) 03.12.2020
(54) PROBE ADAPTER AND METHOD FOR USING SAME
(73) RTX Corporation
(72) HACKETT, Bryan J.
WARREN, Eli C.
SAITTA, Michael J.
(31) 202016791730
(32) 14.02.2020
(33) United States of America

(51) F01D 5/04
F01D 11/04
F01D 25/12
F01D 25/16
(11) EP4015770
(21) EP21215928.9
(47) 29.01.2025
(22) 20.12.2021
(54) GAS TURBINE ENGINE WITH BEARING HOUSING COVER
(73) PRATT & WHITNEY CANADA CORP.
(72) DHALLA, Sandeep Vishal
MORENKO, Oleg
(31) 202017126678
(32) 18.12.2020
(33) United States of America

(51) F01D 5/16
F01D 5/22
F01D 5/26
F04D 29/66
(11) EP3976929
(21) EP20732122.5
(47) 29.01.2025
(87) EP2020064645
03.12.2020
(22) 27.05.2020
(54) ASSEMBLY FOR TURBOMACHINE
(73) Safran Aircraft Engines
(72) JOLY, Philippe Gérard Edmond
PERROLLAZ, Jean-Marc Claude
DE JAEGHERE, Edouard Antoine Dominique Marie
LAGARDE, Romain Nicolas
DOUGUET, Charles Jean-Pierre
JABLONSKI, Laurent
COMIN, François Jean
(31) 1905733
1905755
(32) 29.05.2019
29.05.2019
(33) France
France

(51) F01D 5/18
F01D 9/04
F01D 11/00
(11) EP3670836
(21) EP19215725.3
(47) 29.01.2025
(22) 12.12.2019
(54) AIRFOIL PLATFORM WITH COOLING ORIFICES
(73) RTX Corporation
(72) PROPHETER-HINCKLEY, Tracy A.
(31) 201816217794
(32) 12.12.2018
(33) United States of America

(51) F01D 5/20
F01D 5/22
(11) EP4259905
(21) EP20834064.6
(47) 29.01.2025
(87) US2020063759
16.06.2022
(22) 08.12.2020
(54) METHODS OF FORMING OR REPAIRING PART WITH OVERHUNG

SECTION, AND RELATED TURBOMACHINE PART
(73) General Electric Technology GmbH
(72) WOOLRIDGE, Jillian, Jamison
SALM, Jacob, Andrew
NEVILLE, Jason
HART, Kassy, Moy
(51) F01D 5/32
(11) EP4411111
(21) EP23214796.7
(47) 29.01.2025
(22) 07.12.2023
(54) ROTOR ASSEMBLY FOR A GAS TURBINE, GAS TURBINE AND METHOD FOR ASSEMBLING A ROTOR ASSEMBLY
(73) Doosan Enerbility Co., Ltd.
(72) LEE, Han Min
(31) 20230012527
(32) 31.01.2023
(33) Korea (Republic)

(51) F01D 9/02
F01D 9/04
F01D 25/24
F01D 25/26
F04D 29/54
F04D 19/02
(11) EP4095353
(21) EP22173727.3
(47) 29.01.2025
(22) 17.05.2022
(54) COMPRESSOR SECTION WITH SPLIT-LINE STATOR VANE ASSEMBLY
(73) General Electric Technology GmbH
(72) DEVARAJAN, Sabarinath
CARDOZA, Carlos Alberto
HEALY, Michael James
(31) 202111023487
202117389562
(32) 26.05.2021
30.07.2021
(33) India
United States of America

(51) F01D 11/00
F01D 25/24
F02C 7/28
(11) EP3571380
(21) EP17816593.2
(47) 29.01.2025
(87) EP2017081194
07.09.2018
(22) 01.12.2017
(54) TURBINE CASING AND ASSEMBLY METHOD FOR A TURBINE WITH A TURBINE CASING
(73) Siemens Energy Global GmbH & Co. KG
(72) BLESSING, Alexander
ROLLE, Mario
(31) 102017203210
(32) 28.02.2017
(33) Germany

(51) F01D 11/00
H02K 1/00
F01D 15/10
F01D 25/12
H02K 9/02
H02K 9/08
F01D 11/12
(11) EP4127412
(21) EP21717150.3
(47) 29.01.2025
(87) FR2021050489
30.09.2021
(22) 23.03.2021
(54) AIRCRAFT TURBINE ENGINE EQUIPPED WITH AN ELECTRIC MACHINE
(73) SAFRAN AIRCRAFT ENGINES
(72) GUILLOTEL, Loïc Paul Yves
CHASSAGNE, Amélie Argie Antoinette
DEJEU, Clément Marcel Maurice
(31) 2002896
(32) 25.03.2020
(33) France

(51) F01D 11/08
C04B 35/573
C04B 35/565
C04B 35/622
C04B 35/83
C04B 35/80
(11) EP4219908
(21) EP23165706.5
(47) 29.01.2025
(22) 24.09.2020
(54) DOUBLE BOX COMPOSITE SEAL ASSEMBLY WITH FIBER DENSITY ARRANGEMENT FOR GAS TURBINE ENGINE
(73) RTX Corporation
(72) FERNANDEZ, Robin H.
(31) 201916583649
(32) 26.09.2019
(33) United States of America

(51) F01D 15/10
F01D 11/02
F01D 25/12
F01D 25/16
(11) EP4083391
(21) EP21204255.0
(47) 29.01.2025
(22) 22.10.2021
(54) GAS TURBINE COMPRISING AN EMBEDDED AND COOLED ELECTRIC MACHINE
(73) General Electric Company Polska Sp. Z o.o
General Electric Company
(72) ZDROJEWSKI, Pawel
SCHIMMELS, Scott
JANCZAK, Lukasz
CZARNIK, Miroslaw
PAZINSKI, Adam
GRUNWALD, Maciej
DELAMETTER, Christopher
(31) 43770321
202117381677
(32) 26.04.2021
21.07.2021
(33) Poland
United States of America

(51) F01D 17/16
F04D 29/56
B64C 11/06
B64C 11/26
F02C 9/20
B64D 27/00
F01D 9/04
(11) EP4355983
(21) EP22735022.0
(47) 29.01.2025
(87) FR2022051113
22.12.2022
(22) 13.06.2022
(54) UNSHROUDED GUIDE VANE ASSEMBLY OF A TURBOMACHINE , MODULE OF A TURBOMACHINE AND TURBOMACHINE OF AN AIRCRAFT
(73) SAFRAN AIRCRAFT ENGINES
(72) MOUTON, Clémentine Charlotte Marie
COTTET, Clément
BAZOT, Olivier
BELMONTE, Olivier
(31) 2106330
(32) 15.06.2021
(33) France

(51) F01D 21/00
F01D 21/12
F02C 9/28
F01D 17/08
(11) EP4015783
(21) EP20215655.0
(47) 29.01.2025
(22) 18.12.2020
(54) GAS TURBINE ENGINE WITH FLAME FAILURE PROTECTION BASE ON EXHAUST GAS TEMPERATURE AND METHOD OF OPERATING A GAS TURBINE ENGINE
(73) Ansaldo Energia Switzerland AG
(72) SMITH, Richard
SINGLA, Ghislain

(51) F01D 25/16
F01D 25/18
F02C 7/36
(11) EP4067628
(21) EP22172639.1
(47) 29.01.2025
(22) 06.12.2016
(54) GEAR DRIVEN GAS TURBINE ENGINE ASSEMBLY
(73) RTX Corporation
(72) SHERIDAN, William G.
(31) 201514960934
(32) 07.12.2015
(33) United States of America

(51) F01M 1/10
F01M 11/03
F16N 39/06
(11) EP4293206
(21) EP22179703.8
(47) 29.01.2025
(22) 17.06.2022
(54) OIL FILTER ARRANGEMENT FOR FILTERING OIL OF A VEHICLE
(73) Volvo Car Corporation
(72) PETROV, Peter

(51) F01M 9/08
F01M 9/10
F01L 1/053
F01L 1/18
F01M 5/00
(11) EP4357592
(21) EP23193669.1
(47) 29.01.2025

(22) 28.08.2023
(54) INTERNAL COMBUSTION ENGINE AND STRADDLED VEHICLE
(73) Yamaha Hatsudoki Kabushiki Kaisha
(72) AOYAGI, Kenji
YAMAMOTO, Kensuke
(31) 2022166674
(32) 18.10.2022
(33) Japan

(51) F01M 11/00
F01M 11/06
F01M 1/02
F01M 1/12
(11) EP4215725
(21) EP22213360.5
(47) 29.01.2025
(22) 14.12.2022
(54) OIL SUPPLY SYSTEM FOR A MACHINE, IN PARTICULAR A POWER UNIT OF A MOTOR VEHICLE, AND POWER UNIT FOR A MOTOR VEHICLE WITH SUCH AN OIL SUPPLY SYSTEM
(73) Valeo Powertrain GmbH
(72) SEIDL, Rolf
GEGNER, Patrick
HEIDER, Kevin
KRAUSE, Michael
NICKEL, Vladimir
PFISTER, Matthias
EBERT, Katrin
HOCH, Joachim
STÖßEL, Roland
(31) 102022101185
(32) 19.01.2022
(33) Germany

(51) F01M 13/04
(11) EP4097339
(21) EP20917235.2
(47) 29.01.2025
(87) US2020063533
05.08.2021
(22) 07.12.2020
(54) ELECTRIC MOTOR INTEGRATED ROTATING CRANKCASE VENTILATION FILTER ASSEMBLIES
(73) Cummins Filtration Inc.
(72) TOFSLAND, Ken
PARIKH, Chirag D.
(31) 202062966688 P
(32) 28.01.2020
(33) United States of America

(51) F01N 1/14
(11) EP4382729
(21) EP23201774.9
(47) 29.01.2025
(22) 05.10.2023
(54) AIRCRAFT PROVIDED WITH AN ENGINE AND AN EXHAUST DUCT AROUND AN ENGINE EJECTION NOZZLE
(73) Airbus Helicopters
(72) ALBERTINI, Christophe
PINTO, Philippe
LEGRAS, Guillaume
(31) 2213058
(32) 09.12.2022
(33) France

(51) F01N 3/021
F01N 3/20
F01N 13/00
(11) EP4283099
(21) EP22175489.8
(47) 29.01.2025
(22) 25.05.2022
(54) AN EXHAUST AFTERTREATMENT SYSTEM (EATS)
(73) VOLVO TRUCK CORPORATION
(72) WAHLSTRÖM, Gert-Ove

(51) F01N 3/05
F01N 5/04
F01N 13/00
F01N 13/08
B62D 35/02
B62D 37/02
(11) EP4141226
(21) EP21398014.7
(47) 29.01.2025
(22) 27.08.2021
(54) IMPROVED VEHICLE PROVIDING EXHAUST GAS ENERGY RECOVERY
(73) António Cameira Eiras, Unipessoal Lda
(72) Cameira da Silva Eiras, António Manuel

(51) F01N 3/20
F01N 11/00
F01N 3/027
(11) EP4352342
(21) EP22728879.2
(47) 29.01.2025
(87) EP2022062963
15.12.2022
(22) 12.05.2022
(54) PROCESS FOR OPERATING A PROPULSION SYSTEM FOR A MOTOR VEHICLE AS WELL AS CORRESPONDING PROPULSION SYSTEM
(73) AUDI AG
(72) OBERTHÜR, Jan
(31) 102021114496
(32) 07.06.2021
(33) Germany

(51) F01N 13/00
F01N 3/20
F01N 3/30
F01N 3/08
(11) EP4341537
(21) EP22729131.7
(47) 29.01.2025
(87) EP2022062925
24.11.2022
(22) 12.05.2022
(54) COLD-START EXHAUST-GAS EMISSION CONTROL
(73) AUDI AG
(72) SEIFERT, Hagen
MÜLLER-HELLWIG, Simone
KRAJETE, Alexander
(31) 102021113161
(32) 20.05.2021
(33) Germany

(51) F01N 13/00
F01N 13/08
(11) EP4361415
(21) EP22203932.3
(47) 29.01.2025
(22) 26.10.2022
(54) TRACTOR
(73) Kubota Corporation
(72) Nagata, Satoshi
Inoue, Ryuichi

(51) F01N 13/18
B60K 13/04
F16F 1/373
(11) EP4368819
(21) EP23383066.0
(47) 29.01.2025
(22) 19.10.2023
(54) FIXING DEVICE FOR CONNECTING A FIRST COMPONENT TO A SECOND COMPONENT
(73) Cikautxo, S. Coop.
(72) AZPIAZU ECHAVE, Iñaki
(31) 22383078
(32) 09.11.2022
(33) European Patent Office (EPO)

(51) F02B 33/42
F02B 29/06
F04B 45/053
F01L 7/12
F01L 7/02
F02B 25/20
F02B 33/04
F01L 1/38
F04B 35/00
(11) EP4001609
(21) EP20208491.9
(47) 29.01.2025
(22) 18.11.2020
(54) METHOD FOR OPERATING A TWO-STROKE COMBUSTION ENGINE AND TWO-STROKE COMBUSTION ENGINE
(73) Rottil UG (haftungsbeschränkt)
(72) Hofmann, Arno

(51) F02B 37/18
F04D 27/00
F04D 27/02
F04D 29/42
F04D 29/58
F04D 29/66
F04D 29/68
(11) EP3557024
(21) EP19179578.0
(47) 29.01.2025
(22) 19.12.2011
(54) TURBOCHARGER WITH INTEGRATED ACTUATOR
(73) Garrett Transportation I Inc.
(72) Devulder, Nicolas
Love, Andrew C.
(31) 93023810
(32) 29.12.2010
(33) United States of America

(51) F02B 61/02
F02B 67/06
F02F 7/00
F01L 1/02
F01L 1/344
(11) EP4187068
(21) EP22207278.7
(47) 29.01.2025
(22) 14.11.2022
(54) INTERNAL COMBUSTION ENGINE
(73) Suzuki Motor Corporation
(72) FUKASAWA, Koki

(31) 2021191881
(32) 26.11.2021
(33) Japan

(51) F02B 77/13
G10K 11/16
(11) EP4223994
(21) EP21903217.4
(47) 29.01.2025
(87) JP2021043622
16.06.2022
(22) 29.11.2021
(54) SOUNDPROOF COVER
(73) Sumitomo Riko Company Limited
(72) YABU, Akio
MIYANAGA, Takashi
MAKIMURA, Satoshi
OWAKI, Junki
KANEDA, Koki
HATANAKA,Yukio
ONISHI, Kazuyoshi
TOMIYAMA, Koji
(31) 2020203034
(32) 07.12.2020
(33) Japan

(51) F02C 3/107
F01D 25/16
F02C 7/06
F02C 7/36
F16H 1/28
(11) EP4127437
(21) EP21732377.3
(47) 29.01.2025
(87) FR2021050521
30.09.2021
(22) 25.03.2021
(54) AIRCRAFT TURBINE ENGINE
(73) SAFRAN AIRCRAFT ENGINES
(72) LEVISSE, Paul, Ghislain, Albert
BECOULET, Julien, Fabien, Patrick
(31) 2003020
(32) 27.03.2020
(33) France

(51) F02C 6/08
F02C 7/045
F02C 7/055
F02C 9/18
(11) EP4296489
(21) EP23180029.3
(47) 29.01.2025
(22) 19.06.2023
(54) AIR INTAKE
(73) Rolls-Royce Deutschland Ltd & Co KG
(72) STEGER, Mathias
KNOBEN, Kjeld
HISCHEMÖLLER, Saskia
MACK, Gregory
(31) 102022115659
(32) 23.06.2022
(33) Germany

(51) F02C 7/045
F02C 7/047
F02C 7/052
F02C 7/055
(11) EP4202196
(21) EP22211615.4
(47) 29.01.2025
(22) 06.12.2022
(54) SYSTEM AND METHOD FOR PREVENTING ICING IN THE COMBUSTION INLET AIR PATH OF A GAS TURBINE SYSTEM
(73) General Electric Technology GmbH
(72) ADAMS, William Stanley
STITT, Jametra
GOSWAMI, Nileshpuri
GONZALEZ TELLEZ, Victor Alfonso
(31) 202117560367
(32) 23.12.2021
(33) United States of America

(51) F02C 7/14
F02C 7/32
F28D 7/00
F28D 7/08
F28D 7/10
F28D 7/14
F28F 1/04
F28F 1/40
F02C 7/224
(11) EP3680468
(21) EP19217257.5
(47) 29.01.2025
(22) 17.12.2019
(54) THREE-WAY HEAT EXCHANGER SYSTEM FOR AUXILIARY POWER UNIT
(73) Honeywell International Inc.
(72) ZONNEVELD, Paul
(31) 201816226200
(32) 19.12.2018
(33) United States of America

(51) F02C 7/14
F28D 9/00
F28D 9/02
F28F 9/02
B33Y 80/00
(11) EP4264029
(21) EP21851614.4
(47) 29.01.2025
(87) FR2021052336
23.06.2022
(22) 15.12.2021
(54) PLATE HEAT EXCHANGER COMPRISING PROFILED GUIDING ELEMENTS
(73) SAFRAN
(72) TOUBIANA, Ephraïm
(31) 2013527
(32) 17.12.2020
(33) France

(51) F02C 7/236
F02C 7/32
(11) EP4166773
(21) EP22200926.8
(47) 29.01.2025
(22) 11.10.2022
(54) ELECTRIC FUEL CONTROL CLOSED LOOP AIRCRAFT FUEL SYSTEM
(73) Hamilton Sundstrand Corporation
(72) HARDER, James
SOLOMON, Andrew W.
(31) 202117498855
(32) 12.10.2021
(33) United States of America

(51) F02C 7/24
F02C 6/06
F02C 7/047
(11) EP4134532
(21) EP22187148.6
(47) 29.01.2025
(22) 27.07.2022
(54) SYSTEM AND METHOD FOR CONTROLLING LOW PRESSURE RECOUP AIR IN GAS TURBINE ENGINE
(73) General Electric Technology GmbH
(72) YERRAM, Ravinder
BANDARU, Venkata Satyanarayana
FISHER, Keith
PONNURAJ, Balakrishnan
(31) 202117400337
(32) 12.08.2021
(33) United States of America

(51) F02D 9/06
F16D 3/06
F16D 3/10
F16D 3/12
F16K 1/22
F16K 31/04
(11) EP4033083
(21) EP21213002.5
(47) 29.01.2025
(22) 08.12.2021
(54) COUPLING ARRANGEMENT
(73) Purem GmbH
(72) Wacker, Andreas
Novosel, Miljenko
Schenk, Ralph
Lory, Markus
Zeumer, Annika
Birgler, Markus
Grün, Matthias
(31) 102021101134
(32) 20.01.2021
(33) Germany

(51) F02D 41/00
F02B 37/04
F02B 39/10
F02B 37/10
(11) EP3702601
(21) EP20158128.7
(47) 29.01.2025
(22) 19.02.2020
(54) CONTROL DEVICE; ELECTRICALLY DRIVEN CHARGING DEVICE AND METHOD FOR OPERATING A COMBUSTION ENGINE
(73) VOLKSWAGEN AG
(72) Bartolome, Javier
Heinken, Sebastian
Keich, Sebastian
Frese, Florian
(31) 102019202707
(32) 28.02.2019
(33) Germany

(51) F02D 41/04
F02D 19/02
F02D 43/00
F02D 45/00
F02D 35/02
F02D 41/00
F02D 41/14
F02D 41/22
(11) EP4036394

(21) EP20884494.4
(47) 29.01.2025
(87) JP2020040529
14.05.2021
(22) 28.10.2020
(54) REIGNITION PROCESSING DEVICE, REIGNITION METHOD, AND PROGRAM FOR GAS ENGINE
(73) MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.
(72) TSUBOKAWA, Hiroaki
KOAKUTSU, Takahiro
ANDOU, Junnosuke
MITSUHASHI, Masato
(31) 2019201065
(32) 05.11.2019
(33) Japan

(51) F02D 41/14
F02B 37/24
(11) EP4279729
(21) EP23174287.5
(47) 29.01.2025
(22) 19.05.2023
(54) ENGINE PRE TURBINE PRESSURE MONITORING SYSTEM
(73) DAF Trucks N.V.
(72) WORMS, Luc Hubertus Josephina
NIEUWENHUIJZE, Maarten Robertus Ingmar
(31) 2031951
(32) 20.05.2022
(33) Netherlands

(51) F02D 41/14
F02D 41/04
F01M 13/02
F02D 41/22
F01M 13/00
(11) EP3625447
(21) EP17725206.1
(47) 29.01.2025
(87) EP2017061729
22.11.2018
(22) 16.05.2017
(54) A SYSTEM FOR VENTILATION OF A CRANKCASE
(73) Volvo Truck Corporation
(72) YUDANOV, Sergi

(51) F02K 1/12
(11) EP4295025
(21) EP22708989.3
(47) 29.01.2025
(87) FR2022050262
25.08.2022
(22) 14.02.2022
(54) TURBOJET ENGINE REAR PORTION HAVING AN AUGMENTED A9/A8 NOZZLE AREA RATIO
(73) SAFRAN AIRCRAFT ENGINES
(72) KOHN, Thierry
KRAJKA, Dimitri, Thomas
(31) 2101523
(32) 18.02.2021
(33) France

(51) F02K 1/60
(11) EP4085189
(21) EP20851212.9
(47) 29.01.2025
(87) FR2020052554
08.07.2021
(22) 18.12.2020
(54) THRUST REVERSER COMPRISING DOORS AND AT LEAST ONE RETRACTABLE DEFLECTOR FOR CLOSING A LATERAL OPENING
(73) Safran Nacelles
(72) PHI, Alexandre
PASCAL, Sébastien Laurent Marie
GONIDEC, Patrick
FERREY, Paul
(31) 2000013
(32) 02.01.2020
(33) France

(51) F02K 9/30
F02K 9/97
(11) EP4172482
(21) EP20842379.8
(47) 29.01.2025
(87) US2020065217
30.12.2021
(22) 16.12.2020
(54) DISTRIBUTED AIRFOIL AEROSPIKE ROCKET NOZZLE
(73) Raytheon Company
(72) JOHNSON, Daniel K.
(31) 202016910342
(32) 24.06.2020
(33) United States of America

(51) F02M 15/00
F01P 1/06
F01P 5/06
F02M 17/04
F02M 31/04
F01P 1/02
F02F 1/34
F02M 35/06
F02M 35/10
F02B 63/02
(11) EP3670892
(21) EP19213159.7
(47) 29.01.2025
(22) 03.12.2019
(54) WORKING DEVICE WITH COMBUSTION ENGINE WITH CARBURETTOR COOLING
(73) Wacker Neuson Produktion GmbH & Co. KG
(72) BACHMANN, Matthias
GALLE, Steffen
(31) 102018133087
(32) 20.12.2018
(33) Germany

(51) F02M 21/02
F16K 43/00
(11) EP4150201
(21) EP21720717.4
(47) 29.01.2025
(87) EP2021060072
18.11.2021
(22) 19.04.2021
(54) GAS DOSING VALVE FOR INTERNAL COMBUSTION ENGINE
(73) Robert Bosch GmbH
(72) BOSSE, Daniel
BUROCK, Torsten
FISCHER, Fabian
SUENDERHAUF, Gerhard
BEIER, Marco
TUERKER, Oezguer
(31) 102020214170
102020206111
(32) 11.11.2020
14.05.2020
(33) Germany
Germany

(51) F02M 26/01
F02D 41/18
F02F 1/00
F02M 26/45
F02M 26/46
F02M 26/47
(11) EP4092260
(21) EP22184479.8
(47) 29.01.2025
(22) 19.09.2017
(54) CAST-IN-HEAD EGR CROSSOVER TUBE WITH INTEGRAL VENTURI TUBE FOR FLOW MEASUREMENTS
(73) Cummins, Inc.
(72) JONES, John Peter
PURCELL, John Jerl
DOWSON, Graham
DODS, James A.
LEGGOTT, Paul Andrew
ANDERSON, John R.
(31) 201662396660 P
(32) 19.09.2016
(33) United States of America

(51) F02M 26/23
F02M 26/30
F02M 26/32
F01P 3/02
F01P 3/12
F01P 11/04
(11) EP4259922
(21) EP21820038.4
(47) 29.01.2025
(87) US2021058564
16.06.2022
(22) 09.11.2021
(54) ENGINE SYSTEM WITH COOLANT COLLECTOR BRACKET BETWEEN CYLINDER HEAD AND EGR COOLER
(73) Caterpillar Inc.
(72) VAN FAROWE, Jason L.
CHEN, Allen Y.
BURCAR, Quinton M.
GOULD III, DeForest C.
WALTERS, Dean W.
(31) 202017119837
(32) 11.12.2020
(33) United States of America

(51) F02M 35/12
F02B 37/00
(11) EP3636909
(21) EP19197918.6
(47) 29.01.2025
(22) 18.09.2019
(54) ACOUSTIC DAMPING APPARATUS FOR AN INTAKE CONDUIT OF A SUPER-CHARGED INTERNAL COMBUSTION ENGINE
(73) NOVARES France
(72) JEAN, Thomas
(31) 1859280

(32) 08.10.2018
(33) France

(51) F02N 11/08
F02N 19/00
(11) EP4063640
(21) EP21216194.7
(47) 29.01.2025
(22) 21.12.2021
(54) START CONTROLLER, ENGINE SYSTEM, VEHICLE AND METHOD FOR STARTING A COMBUSTION ENGINE
(73) MAZDA MOTOR CORPORATION
(72) SUGANO, Hiromu
TANIMURA, Kenji
YAMAKAWA, Hirotaka
KOBAYASHI, Toru
SHIMO, Daisuke
(31) 2021051347
(32) 25.03.2021
(33) Japan

(51) F02P 3/08
F02P 9/00
F02P 3/00
F02P 3/04
F02P 11/02
(11) EP4019763
(21) EP21210327.9
(47) 29.01.2025
(22) 24.11.2021
(54) ELECTRONIC CIRCUIT AND CAPACITOR DISCHARGE IGNITION SYSTEM COMPRISING ELECTRONIC CIRCUIT
(73) SEM AB
(72) BENGTSSON, Jörgen
SVENSSON, Lars
KARLSSON, Tomas
GUSTAFSSON, Bert
EKLUND, Johan
(31) 2051548
(32) 22.12.2020
(33) Sweden

(51) F03B 13/20
F03B 13/24
(11) EP4121648
(21) EP21716977.0
(47) 29.01.2025
(87) EP2021057795
04.11.2021
(22) 25.03.2021
(54) A WAVE ENERGY CONVERTER
(73) Dick, William
(72) Dick, William
(31) 202006228
(32) 28.04.2020
(33) United Kingdom

(51) F03C 1/06
F04B 1/20
F04B 1/2014
F04B 53/22
F04B 53/08
(11) EP4060185
(21) EP22160386.3
(47) 29.01.2025
(22) 07.03.2022
(54) COOLING MODULE FOR A HYDRAULIC MACHINE, HYDRAULIC MACHINE USING THE SAME, AND HYDRAULIC UNIT
(73) Robert Bosch GmbH
(72) Schwacke, Johannes
Jungmann, Rainer
Rumpel, Manuel
Amrhein, Bertram
(31) 102021202489
(32) 15.03.2021
(33) Germany

(51) F03D 1/00
(11) EP3098435
(21) EP16172632.8
(47) 29.01.2025
(22) 25.10.2013
(54) METHOD AND SYSTEM FOR TRANSPORTING AND STORING AT LEAST TWO WIND TURBINE BLADES
(73) LM Wind Power A/S
(72) van der Zee, Jacobus
Nielsen, Anders
Skipper-Mortensen, Kenth
(31) 201220100
201219279
(32) 08.11.2012
26.10.2012
(33) United Kingdom
United Kingdom

(51) F03D 3/00
F03D 3/06
(11) EP4224010
(21) EP23154889.2
(47) 29.01.2025
(22) 03.02.2023
(54) ROTOR FOR A VERTICAL WIND TURBINE
(73) Strudler, Michael
Strommer, Andreas
(72) Strommer, Andreas
Probst, Gerhard
Strudler, Michael
Probst, Guido
(31) 322022
(32) 04.02.2022
(33) Austria

(51) F03D 7/02
(11) EP4019768
(21) EP20216978.5
(47) 29.01.2025
(22) 23.12.2020
(54) METHOD AND SYSTEM FOR DETERMINING A SETPOINT SIGNAL OF A WIND ENERGY CONVERSION SYSTEM
(73) Technische Universität Berlin
(72) Kuschke, Maren
Strunz, Kai
Almunem, Khaled

(51) F03D 7/02
F03D 80/50
(11) EP4330541
(21) EP22738688.5
(47) 29.01.2025
(87) EP2022068828
26.01.2023
(22) 07.07.2022
(54) SERVICE BRAKE FOR A WIND TURBINE YAW MOTOR
(73) Siemens Gamesa Renewable Energy A/S
(72) FOGH, Helge
NIELSEN, Rune
DAMGAARD, Steen
(31) 21187330
(32) 23.07.2021
(33) European Patent Office (EPO)

(51) F03D 7/04
F03D 7/02
(11) EP3830416
(21) EP19778811.0
(47) 29.01.2025
(87) EP2019074028
02.04.2020
(22) 10.09.2019
(54) NOISE CONTROL OF WIND TURBINE
(73) Siemens Gamesa Renewable Energy A/S
(72) HANSEN, Tomas Rosenberg
EGEDAL, Per
OERLEMANS, Stefan
(31) 18196477
(32) 25.09.2018
(33) European Patent Office (EPO)

(51) F03D 9/17
F03D 9/28
F03D 80/80
(11) EP4328446
(21) EP23193314.4
(47) 29.01.2025
(22) 24.08.2023
(54) AIR-ACTUATED POWER GENERATING SYSTEM
(73) Chang, Tien-Ming
(72) Chang, Tien-Ming
(31) 111132321
(32) 26.08.2022
(33) Taiwan, Chinese Taipei

(51) F03D 13/00
F03D 80/70
F03D 13/10
F03D 80/50
(11) EP4198301
(21) EP22211827.5
(47) 29.01.2025
(22) 06.10.2015
(54) MAIN SHAFT FIXTURE
(73) Liftra IP ApS
(72) FENGER, Per E.
(31) PA201500527
PA201400573
(32) 04.09.2015
07.10.2014
(33) Denmark
Denmark

(51) F03D 13/25
B66C 1/10
F03D 13/10
(11) EP4095376
(21) EP20920742.2
(47) 29.01.2025
(87) CN2020120171
26.08.2021
(22) 10.10.2020
(54) TOWER SECTION AND WIND GENERATING SET

(73) Jiangsu Goldwind Science & Technology Co., Ltd.
(72) MA, Long
ZHANG, Zhu
FANG, Jing
(31) 202010103876
(32) 20.02.2020
(33) China

(51) F03D 15/10
F03D 80/50
(11) EP4264041
(21) EP20828517.1
(47) 29.01.2025
(87) DK2020050374
23.06.2022
(22) 17.12.2020
(54) A METHOD FOR DISMANTLING A WIND TURBINE GEARBOX FROM A MAIN SHAFT AND USE OF THE METHOD
(73) Diesel ApS
(72) SØRENSEN, Ebbe Karsten

(51) F03D 17/00
(11) EP4008900
(21) EP20383053.4
(47) 29.01.2025
(22) 03.12.2020
(54) LOAD SENSORS IN WIND TURBINES
(73) General Electric Renovables España S.L.
(72) ALBISU ISO, Efrén
ARROYO BELTRI, Pedro

(51) F03D 80/00
(11) EP4077931
(21) EP20828282.2
(47) 29.01.2025
(87) DK2020050370
24.06.2021
(22) 16.12.2020
(54) WIND FARM BLOCKAGE
(73) VESTAS WIND SYSTEMS A/S
(72) MURCIA, Juan Pablo
MACHEFAUX, Ewan
(31) PA201970779
(32) 17.12.2019
(33) Denmark

(51) F03D 80/00
(11) EP4278088
(21) EP21844754.8
(47) 29.01.2025
(87) EP2021087754
09.09.2022
(22) 29.12.2021
(54) WIND TURBINE AND METHOD
(73) Siemens Gamesa Renewable Energy A/S
(72) PETERSEN, Jesper Elliot
HAWKINS, Samuel
(31) 21159942
(32) 01.03.2021
(33) European Patent Office (EPO)

(51) F03D 80/60
(11) EP4130467
(21) EP20939549.0
(47) 29.01.2025
(87) CN2020114020
16.12.2021
(22) 08.09.2020
(54) COOLING SYSTEM, AND WIND TURBINE
(73) Goldwind Science & Technology Co., Ltd.
(72) WANG, Dinghui
FANG, Tao
LI, Jinmeng
(31) 202010516556
(32) 09.06.2020
(33) China

(51) F03D 80/80
F03D 13/10
(11) EP4348047
(21) EP22724639.4
(47) 29.01.2025
(87) DK2022050098
01.12.2022
(22) 12.05.2022
(54) WIND TURBINE WITH AUXILIARY UNITS
(73) VESTAS WIND SYSTEMS A/S
(72) BAUN, Torben Ladegaard
DEMTRÖDER, Jens
(31) PA202100556
(32) 26.05.2021
(33) Denmark

(51) F04B 1/12
F04B 1/26
F04B 1/34
F04B 49/00
F04B 49/06
(11) EP4253754
(21) EP23164373.5
(47) 29.01.2025
(22) 27.03.2023
(54) METHOD FOR OPERATING A VARIABLE-SPEED PUMP
(73) Robert Bosch GmbH
(72) Bonefeld, Ralf
Engber, Arnold
(31) 102022203051
(32) 29.03.2022
(33) Germany

(51) F04B 5/02
F04B 39/00
F04B 39/04
F04B 53/14
F16J 15/00
F16J 15/26
F16J 15/3236
F16J 15/46
(11) EP4409138
(21) EP23808717.5
(47) 29.01.2025
(87) EP2023081701
23.05.2024
(22) 14.11.2023
(54) SEALING DEVICE FOR A PISTON ROD OF A RECIPROCATING COMPRESSOR
(73) Hoerbiger Wien GmbH
(72) LAGLER, Martin
KAUFMANN, Andreas
PRATELLI, Guido
(31) 202217988364
(32) 16.11.2022
(33) United States of America

(51) F04B 9/04
F04B 27/04
F04B 27/053
(11) EP4214417
(21) EP21777709.3
(47) 29.01.2025
(87) EP2021075257
24.03.2022
(22) 14.09.2021
(54) PISTON-CYLINDER ASSEMBLY FOR A RADIAL PISTON COMPRESSOR, AND RADIAL PISTON COMPRESSOR
(73) thyssenkrupp AG
thyssenkrupp Dynamic Components GmbH
(72) KRAUSE, Sebastian
MÜLLER, Ulf
DIETEL, Uwe
REICHELT, Robert
(31) 102020211680
(32) 17.09.2020
(33) Germany

(51) F04B 37/02
F04B 37/18
F16L 51/04
(11) EP4185771
(21) EP21752102.0
(47) 29.01.2025
(87) GB2021051898
27.01.2022
(22) 22.07.2021
(54) A MODULAR FORELINE SYSTEM
(73) Edwards Limited
(72) BAILEY, Christopher Mark
GALTRY, Michael Andrew
(31) 202011483
(32) 24.07.2020
(33) United Kingdom

(51) F04B 39/00
F04B 39/04
F04B 37/12
F16J 9/22
F16J 15/00
F16J 15/16
F16J 15/26
F16J 15/56
(11) EP4264050
(21) EP21839839.4
(47) 29.01.2025
(87) EP2021085597
30.06.2022
(22) 14.12.2021
(54) COMPRESSOR
(73) STASSKOL GmbH
NEUMAN & ESSER GmbH & Co. KG
(72) HOFF, Klaus Hubert
LANGELA, Marc
MORAWA, Uwe
(31) 102020134381
(32) 21.12.2020
(33) Germany

(51) F04C 2/08
F04C 2/18
(11) EP3495662
(21) EP18211606.1
(47) 29.01.2025
(22) 11.12.2018
(54) REDUCTION OF CAVITATION DAMAGES IN FUEL PUMPS
(73) Hamilton Sundstrand Corporation
(72) SMITH, Blair A.

POTEET, Steven
(31) 201715837044
(32) 11.12.2017
(33) United States of America

(51) F04C 2/18
B41J 2/01
B41J 2/175
B41J 2/18
F04C 15/00
B41J 29/38
(11) EP3283768
(21) EP16779779.4
(47) 29.01.2025
(87) JP2016002032
20.10.2016
(22) 14.04.2016
(54) GEAR PUMP AND PRINTING APPARATUS PROVIDED WITH SAME
(73) Seiko Epson Corporation
(72) ANDO, Masaaki
(31) 2015084840
(32) 17.04.2015
(33) Japan

(51) F04C 14/04
(11) EP4085199
(21) EP20842204.8
(47) 29.01.2025
(87) EP2020025602
08.07.2021
(22) 30.12.2020
(54) REVERSIBLE GEROTOR PUMP SYSTEM
(73) Eaton Intelligent Power Limited
(72) RANE, Vipin Nivrutti
KADAM, Hemant Rajaram
MAURYA, Rohit Kumar
HIREMATH, Satalingayya C.
BHURE, Mayur Keshav
SALUTAGI, Shivayogi Sidram
DESHPANDE, Shrikrishna
(31) 202011049065
201911054619
(32) 10.11.2020
31.12.2019
(33) India
India

(51) F04C 29/02
F04C 29/00
F04C 18/02
F04C 23/00
(11) EP3947974
(21) EP20776367.3
(47) 29.01.2025
(87) US2020024904
01.10.2020
(22) 26.03.2020
(54) COMPRESSOR HAVING OIL ALLOCATION MEMBER
(73) Copeland LP
(72) DUAN, Zhenfei
SU, Xiaogeng
LI, Bin
YU, Yinglin
CHEN, Yan
(31) 201920396278 U
201910232919
202016829303
(32) 26.03.2019
26.03.2019
25.03.2020
(33) China
China
United States of America

(51) F04C 29/02
F04C 29/00
F04C 23/02
F04C 23/00
F04C 29/04
(11) EP4170175
(21) EP21893104.6
(47) 29.01.2025
(87) CN2021127944
16.03.2023
(22) 01.11.2021
(54) ROTOR ASSEMBLY AND COMPRESSOR
(73) Guangdong Midea Environmental Technologies Co., Ltd.
(72) LI, Yang
LI, Zhenhao
(31) 202111056348
(32) 09.09.2021
(33) China

(51) F04D 13/14
F04D 15/00
(11) EP4098880
(21) EP22165677.0
(47) 29.01.2025
(22) 30.03.2022
(54) DOUBLE PUMP ASSEMBLY
(73) WILO SE
(72) Weizel, Olga
(31) 102816
(32) 01.06.2021
(33) Luxembourg

(51) F04D 19/04
F04D 27/00
F04D 27/02
(11) EP4137699
(21) EP22213776.2
(47) 29.01.2025
(22) 15.12.2022
(54) VACUUM DEVICE AND METHOD FOR OPERATING SAME
(73) Pfeiffer Vacuum Technology AG
(72) BÖTTCHER, Jochen

(51) F04D 29/02
F04D 29/42
(11) EP3800356
(21) EP19214395.6
(47) 29.01.2025
(22) 09.12.2019
(54) COATING FOR COMPRESSOR OUTLET HOUSING
(73) Hamilton Sundstrand Corporation
(72) ROSEN, Seth E.
MERRITT, Brent J.
BEERS, Craig M.
(31) 201916590450
(32) 02.10.2019
(33) United States of America

(51) F04D 29/32
F01D 5/02
F01D 5/30
F01D 11/00
(11) EP3797224
(21) EP19734849.3
(47) 29.01.2025
(87) FR2019051139
28.11.2019
(22) 20.05.2019
(54) IMPROVED FAN DISC FOR A TURBOMACHINE
(73) SAFRAN AIRCRAFT ENGINES
(72) MERCIER, Rémi Roland Robert
BOISSON, Alexandre Bernard Marie
CHABOUD, Alexis Thomas
DE GAILLARD, Thomas Alain
(31) 1854308
(32) 23.05.2018
(33) France

(51) F04D 29/38
F04D 29/32
(11) EP4212737
(21) EP21874807.7
(47) 29.01.2025
(87) JP2021018644
07.04.2022
(22) 17.05.2021
(54) PROPELLER FAN
(73) DAIKIN INDUSTRIES, LTD.
(72) IWATA Tooru
CHEN Zuozhou
MARUYAMA Kaname
ISHIBASHI Tomohiro
TAKADA Anan
(31) 2020163792
(32) 29.09.2020
(33) Japan

(51) F04D 29/38
F04D 29/68
(11) EP3889438
(21) EP19890036.7
(47) 29.01.2025
(87) JP2019045881
04.06.2020
(22) 22.11.2019
(54) PROPELLER FAN
(73) Fujitsu General Limited
(72) FUNADA, Kazuya
SAWADA, Hirotaka
(31) 2018226039
(32) 30.11.2018
(33) Japan

(51) F04D 29/42
F04D 29/50
(11) EP4278095
(21) EP22700434.8
(47) 29.01.2025
(87) IB2022050303
21.07.2022
(22) 14.01.2022
(54) AIR PUMP ASSEMBLY FOR AN INFLATABLE PRODUCT
(73) Intex Marketing Ltd.
(72) HUANG, Zhi Xiong
LIN, Zheng Wen
ZHANG, Ying Biao
(31) 202120101406 U
(32) 14.01.2021
(33) China

(51) F04D 29/66
F04D 15/00

F04D 29/60
(11) EP4056859
(21) EP21162309.5
(47) 29.01.2025
(22) 12.03.2021
(54) A METHOD OF OPERATING A PIPEWORK AGGREGATE, AND A PUMP UNIT COMPRISING AN ASSEMBLY FOR ATTENUATION OF VIBRATION OF A PUMP UNIT COUPLED TO A PIPEWORK AGGREGATE
(73) Sulzer Management AG
(72) Päivinen, Timo
Laaksonen, Mikko
Lehtonen, Anssi

(51) F15B 1/26
F15B 21/00
F15B 21/0423
F15B 1/02
F15B 21/041
F15B 1/033
F15B 21/08
F15B 7/00
(11) EP4253766
(21) EP23164233.1
(47) 29.01.2025
(22) 27.03.2023
(54) SYSTEM WITH LOW PRESSURE UNIT AND EXTERNAL TANK FOR INCREASING A PRESSURE LEVEL IN A HYDRAULIC DRIVE AND CORRESPONDING SYSTEM WITH A HYDRAULIC DRIVE
(73) Robert Bosch GmbH
(72) Kretzer, Simon
Foersterling, Heino
(31) 102022203102
(32) 30.03.2022
(33) Germany

(51) F15B 3/00
F15B 11/032
F15B 15/28
(11) EP3728863
(21) EP18826615.9
(47) 29.01.2025
(87) EP2018085636
27.06.2019
(22) 18.12.2018
(54) SYSTEM COMPRISING A HYDRAULIC PRESSURE AMPLIFIER
(73) Poclain Hydraulics Industrie
(72) TENAUD, Benjamin
PRIGENT, André
HEREN, Jean
(31) 1762372
(32) 18.12.2017
(33) France

(51) F15B 7/00
F15B 7/08
(11) EP3956569
(21) EP19722524.6
(47) 29.01.2025
(87) EP2019059923
22.10.2020
(22) 17.04.2019
(54) HYDRAULIC TRANSMISSION UNIT FOR AN ACTUATOR
(73) MetisMotion GmbH
(72) BACHMAIER, Georg
NEMOTO, Takeru
GERLICH, Matthias
ZÖLS, Wolfgang

(51) F15B 11/036
F15B 11/12
(11) EP4259941
(21) EP21863043.2
(47) 29.01.2025
(87) NL2021050748
16.06.2022
(22) 08.12.2021
(54) CYLINDER AND OPERATING METHODS THEREOF
(73) V.S.E. Vehicle Systems Engineering B.V.
(72) VAN DEN DRIESCHE, Dennis Vincent
VAN BOCKHOOVEN, Erwin
(31) 2027076
(32) 08.12.2020
(33) Netherlands

(51) F15B 15/14
B29C 63/00
(11) EP4402379
(21) EP22840180.8
(47) 29.01.2025
(87) EP2022087014
13.07.2023
(22) 20.12.2022
(54) LIGHTWEIGHT COMPOSITE ACTUATOR
(73) Trelleborg Sealing Solutions Germany GmbH
(72) PASANEN, Michael James
KIMBALL, Brett Arnold
(31) 202217647437
(32) 07.01.2022
(33) United States of America

(51) F15B 15/28
G01B 17/00
G01D 5/48
F15B 15/14
(11) EP4264061
(21) EP21835104.7
(47) 29.01.2025
(87) US2021062315
23.06.2022
(22) 08.12.2021
(54) MOLDED IN MAGNETIC SENSOR AND SYSTEMS, ASSEMBLIES, COMPONENTS, AND METHODS THEREOF
(73) Caterpillar Inc.
(72) NUTAKKI, Satish B.
GOSLOVICH, Kurt S.
PONNUSAMY, Ananda S.
(31) 202017122687
(32) 15.12.2020
(33) United States of America

(51) F15D 1/12
G01F 1/58
F15D 1/10
G01F 1/56
F15D 1/00
G01F 1/00
(11) EP3927980
(21) EP20759750.1
(47) 29.01.2025
(87) US2020019294
27.08.2020
(22) 21.02.2020
(54) IMPROVED INSERTION MAGNETIC METERS AND METHODS
(73) ONICON INCORPORATED
(72) HOLLER, Kevin
SHEPPARD, Adam
VALENTINE, William S.
UPHAM, Michael
(31) 201962809252 P
(32) 22.02.2019
(33) United States of America

(51) F16B 5/02
(11) EP4089293
(21) EP22181948.5
(47) 29.01.2025
(22) 01.06.2021
(54) SYSTEMS AND METHODS FOR MULTI-HOLE ASSEMBLIES WITH ANGULAR ADJUSTMENT AND LOCKING
(73) Goodrich Corporation
(72) NARAYAN, Karthik
(31) 202016893017
(32) 04.06.2020
(33) United States of America

(51) F16B 21/18
(11) EP4343159
(21) EP22197294.6
(47) 29.01.2025
(22) 23.09.2022
(54) FASTENING DEVICE FOR FASTENING A MECHANICAL ELEMENT WITH A SUPPORT STRUCTURE AS WELL AS FASTENING SYSTEM
(73) Airbus Operations GmbH
(72) Benthien, Stefan
Benthien, Hermann
Poppe, Andreas

(51) F16B 23/00
B60B 3/14
F16B 39/282
F16B 41/00
F16B 43/00
B25B 23/00
B25B 13/06
B60B 3/16
(11) EP3899291
(21) EP19839528.7
(47) 29.01.2025
(87) US2019066997
25.06.2020
(22) 17.12.2019
(54) SELF-REACTING CENTER WHEEL NUT ASSEMBLY, DRIVER ASSEMBLY, TOOL ASSEMBLY AND ASSOCIATED METHODS
(73) HYTORC Division UNEX Corporation
(72) O'BRIEN, Patrick A.
HULBROCK, Mark
JUNKERS, Eric P.
JUNKERS, Jason K.
(31) 201862780383 P
(32) 17.12.2018
(33) United States of America

(51) F16B 25/00
(11) EP3875791
(21) EP21166792.8

(47) 29.01.2025
(22) 02.11.2017
(54) THREADED FASTENER
(73) Illinois Tool Works, Inc.
(72) DILL, Michael C.
CABAJ, Stanley J.
TRUONG, Victor
GONG, Yongping
LATZ, Mark D.
(31) 201715800865
201662422978 P
(32) 01.11.2017
16.11.2016
(33) United States of America
United States of America

(51) F16C 1/10
F16B 19/02
(11) EP4310349
(21) EP23185220.3
(47) 29.01.2025
(22) 13.07.2023
(54) LOCKING BOLT SYSTEM WITH SEVERAL LOCKING BOLTS OPERATED BY BOWDEN CABLES AND A COMMON GRIP
(73) ICG GmbH & Co. KG
(72) Haug, André
LEINS, Marco
(31) 102022207530
(32) 22.07.2022
(33) Germany

(51) F16C 17/03
F16C 27/02
F16C 39/04
F16C 17/22
F16C 17/24
F16C 32/06
(11) EP4253778
(21) EP23161974.3
(47) 29.01.2025
(22) 15.03.2023
(54) TILTING PAD BEARING
(73) Mitsubishi Heavy Industries Compressor Corporation
(72) YOKOYAMA, Shinpei
YOSHIMINE, Chihiro
SHIGIHARA, Takuzo
KAMEYAMA, Yuki
NAGAO, Hideki
(31) 2022051784
(32) 28.03.2022
(33) Japan

(51) F16C 33/78
F16C 35/077
F01D 5/04
F01D 25/16
F01D 11/00
(11) EP4299933
(21) EP23181756.0
(47) 29.01.2025
(22) 27.06.2023
(54) BEARING-SUPPORTED SHAFT ASSEMBLY
(73) PRATT & WHITNEY CANADA CORP.
(72) REJMAN, Marcin
RADON, Joanna
(31) 202217809058
(32) 27.06.2022
(33) United States of America

(51) F16D 3/72
F01D 5/02
F01D 5/10
F01D 21/08
F02C 7/36
(11) EP4103820
(21) EP21709078.6
(47) 29.01.2025
(87) FR2021050245
19.08.2021
(22) 11.02.2021
(54) FLEXIBLE FRUSTOCONICAL INPUT SHAFT
(73) SAFRAN AIRCRAFT ENGINES
(72) FELIOT, Paul
DESOMBRE, Didier Gabriel Bertrand
(31) 2001500
(32) 14.02.2020
(33) France

(51) F16D 11/14
F16D 27/118
F16H 48/24
(11) EP4308824
(21) EP22712931.9
(47) 29.01.2025
(87) EP2022056438
22.09.2022
(22) 14.03.2022
(54) TRANSMISSION SYSTEM EQUIPPED WITH A COUPLING DEVICE
(73) VALEO EMBRAYAGES
(72) HENNEBELLE, Michael
VERHOOG, Roel
(31) 2102553
(32) 15.03.2021
(33) France

(51) F16D 13/75
(11) EP4010605
(21) EP20934994.3
(47) 29.01.2025
(87) TR2020051468
18.11.2021
(22) 31.12.2020
(54) CLUTCH COVER ASSEMBLY COMPENSATING LINING WEAR PRECISELY AND AUTOMATICALLY
(73) Dönmez Debriyaj Sanayi Ve Ticaret Anonim Sirketi
(72) AYGÜL, Erkan
(31) 202007682
(32) 15.05.2020
(33) Türkiye

(51) F16D 43/20
F16D 7/02
F16H 35/10
(11) EP2938897
(21) EP13866519.5
(47) 29.01.2025
(87) US2013076078
03.07.2014
(22) 18.12.2013
(54) TORQUE LIMITING ASSEMBLY
(73) Saint-Gobain Performance Plastics Corporation
(72) HAGAN, Timothy J.
(31) 201261748008 P
(32) 31.12.2012
(33) United States of America

(51) F16D 43/20
F16D 9/10
(11) EP4040001
(21) EP22154445.5
(47) 29.01.2025
(22) 01.02.2022
(54) ROTARY FEED-THROUGH
(73) Christian Maier GmbH & Co. KG Maschinenfabrik
(72) Szam, Peter
Frey, Christof
Schwenk, Günther
(31) 102021201087
(32) 05.02.2021
(33) Germany

(51) F16D 51/24
F16D 65/00
F16D 65/22
F16D 51/14
(11) EP4150229
(21) EP21726847.3
(47) 29.01.2025
(87) EP2021061422
18.11.2021
(22) 30.04.2021
(54) WHEEL CYLINDER DAMPED WITH RESPECT TO THE AXLE FLANGE, DRUM BRAKE COMPRISING SAID CYLINDER AND METHOD FOR ASSEMBLING SAID DRUM BRAKE
(73) Hitachi Astemo France
(72) WIEDER, Georges
MONTEGU, Didier
LEVASSORT, Ludovic
TISSIER, Grégory
EBLE, Philippe
(31) 2004610
(32) 11.05.2020
(33) France

(51) F16D 55/36
F16D 65/12
(11) EP4290093
(21) EP22461565.8
(47) 29.01.2025
(22) 08.06.2022
(54) ROTOR CLIP FOR BRAKE ASSEMBLY
(73) Goodrich Corporation
(72) SOSNOWSKI, Miroslaw
PALUSZKIEWICZ, Lukasz
BLACHUT, Aleksander

(51) F16D 65/00
(11) EP4323667
(21) EP22725367.1
(47) 29.01.2025
(87) EP2022059369
20.10.2022
(22) 08.04.2022
(54) CAP FOR GEAR MOTOR FOR DISC BRAKE ELECTRIC ACTUATOR AND GEAR MOTOR GROUP COMPRISING SAID CAP
(73) Hitachi Astemo France
(72) LENOIR, Jordane
BRIANE, Nicolas
QUAZUGUEL, Gaëtan
(31) 2103756
(32) 12.04.2021

(33) France

(51) F16D 65/00
(11) EP4397881
(21) EP23197035.1
(47) 29.01.2025
(22) 13.09.2023
(54) BRAKE DUST COLLECTOR
(73) HL Mando Corporation
(72) HUR, Jaejin
(31) 20230002867
(32) 09.01.2023
(33) Korea (Republic)

(51) F16D 69/02
(11) EP4122993
(21) EP21772040.8
(47) 29.01.2025
(87) JP2021006750
23.09.2021
(22) 24.02.2021
(54) FRICTION MATERIAL
(73) Nisshinbo Brake Inc.
(72) TAKADA Toshiya
YAMAMOTO Kazuhide
(31) 2020045002
(32) 16.03.2020
(33) Japan

(51) F16F 15/12
(11) EP3814651
(21) EP19731585.6
(47) 29.01.2025
(87) DE2019100484
02.01.2020
(22) 03.06.2019
(54) TORQUE TRANSFER DEVICE HAVING A CONTROL SYSTEM FOR DETERMINING THE DIRECTION OF ROTATION OF THE ROTOR
(73) Schaeffler Technologies AG & Co. KG
(72) HERRMANN, Johannes
(31) 102018115310
(32) 26.06.2018
(33) Germany

(51) F16G 13/16
H02G 11/00
(11) EP3971445
(21) EP21206575.9
(47) 29.01.2025
(22) 22.12.2017
(54) SYSTEMS FOR MONITORING THE OPERATION OF AN ENERGY CHAIN
(73) igus GmbH
(72) Schmer, Konstantin
Habering, Richard
Hermey, Andreas
Barten, Dominik
Jaeker, Thilo-Alexander
(31) 202016107317 U
(32) 23.12.2016
(33) Germany

(51) F16G 15/08
F16G 15/04
(11) EP4341578
(21) EP22730610.7
(47) 29.01.2025
(87) IB2022054670
24.11.2022
(22) 19.05.2022
(54) SWIVEL CONNECTION DEVICE
(73) Camp S.p.A.
(72) DONADONI, Andrea
CODEGA, Antonio
(31) 202100012905
(32) 19.05.2021
(33) Italy

(51) F16H 3/00
(11) EP4200539
(21) EP21749219.8
(47) 29.01.2025
(87) EP2021071003
24.02.2022
(22) 27.07.2021
(54) DOUBLE CLUTCH TRANSMISSION
(73) Mercedes-Benz Group AG
(72) KOLB, Andreas
GITT, Carsten
HAHN, Peter
SCHILDER, Tobias
SPERRFECHTER, Stefan
ZEIBIG, Jonathan
HAERTER, Tobias
SCHWEITZER, Juergen
RIEDL, Klaus
ROMANIAK, Jakub
(31) 102020005103
(32) 20.08.2020
(33) Germany

(51) F16H 25/20
F16H 25/24
(11) EP4350172
(21) EP22199828.9
(47) 29.01.2025
(22) 05.10.2022
(54) LINEAR ACTUATOR AND TELESCOPIC COLUMN WITH DOUBLE THREADED SPINDEL
(73) ROL AB
(72) Dahlberg, Fredrik

(51) F16H 47/04
(11) EP3904728
(21) EP19904027.0
(47) 29.01.2025
(87) JP2019047757
02.07.2020
(22) 06.12.2019
(54) WORK VEHICLE
(73) Kubota Corporation
(72) IWASE, Ryoma
TAKEOKA, Susumu
NISHIKUBO, Takuya
HIRASE, Yuji
KAWAZOE, Tsubasa
GONO, Tsuyoshi
JINNAI, Atsushi
(31) 2019158483
2018245770
(32) 30.08.2019
27.12.2018
(33) Japan
Japan

(51) F16H 57/025
F16H 57/028
B60K 17/06
B60K 17/00
(11) EP4230897
(21) EP23152542.9
(47) 29.01.2025
(22) 19.01.2023
(54) VEHICLE DRIVING DEVICE NOISE-ABSORBING STRUCTURE
(73) Suzuki Motor Corporation
(72) INOUE, Shoichi
KUNO, Mineyuki
TSUJIMA, Keita
(31) 2022022777
(32) 17.02.2022
(33) Japan

(51) F16H 57/04
(11) EP4119817
(21) EP21185795.8
(47) 29.01.2025
(22) 15.07.2021
(54) ARRANGEMENT FOR LUBRICATING A GEAR
(73) VOLVO TRUCK CORPORATION
(72) WIKSTRÖM, Anna
HAGERMAN, Henrik
HEDMAN, Anders

(51) F16J 15/16
F01D 25/18
F16J 15/34
(11) EP3825524
(21) EP20209324.1
(47) 29.01.2025
(22) 23.11.2020
(54) OIL RETURN PASSAGEWAY FOR ANNULAR ROTATING SEAL SEAT
(73) RTX Corporation
(72) LINK, Kurt
PETERS, Robert E.
ZANDONELLA Jr., Arnold
(31) 201962939212 P
(32) 22.11.2019
(33) United States of America

(51) F16J 15/3204
F16J 15/3268
F16J 15/3244
(11) EP3825586
(21) EP19837054.6
(47) 29.01.2025
(87) JP2019025059
23.01.2020
(22) 25.06.2019
(54) SEALING DEVICE
(73) NOK Corporation
(72) SYONAI, Masaru
(31) 2018134588
(32) 17.07.2018
(33) Japan

(51) F16J 15/34
(11) EP4105524
(21) EP22179160.1
(47) 29.01.2025
(22) 15.06.2022
(54) SEALING RING OF A SLIDING RING SEAL AND SLIDING RING SEAL WITH SUCH A SEALING RING
(73) KACO GmbH + Co. KG
(72) Epple, Stefan
Gerner, Sven
Fehrenbacher, Cornelius
Podeswa, Matthias
Schuller, Simon
Wunder, Wilhelm

Schebesch, Markus
Reichert, Joachim
Genesius, Andreas
Sauter, Bernd
(31) 102021003139
(32) 18.06.2021
(33) Germany

(51) F16J 15/34
B23K 26/364
F16C 33/74
F16J 15/16
F16J 15/40
F16J 15/54
(11) EP3803165
(21) EP19815144.1
(47) 29.01.2025
(87) US2019035305
12.12.2019
(22) 04.06.2019
(54) MECHANICAL SEAL WITH A SEAL FACE HAVING CHANNELS
(73) JOHN CRANE INC.
(72) LAI, Wei-Tang
(31) 201862682496 P
(32) 08.06.2018
(33) United States of America

(51) F16J 15/34
F16J 15/16
(11) EP3475597
(21) EP17820978.9
(47) 29.01.2025
(87) US2017039078
04.01.2018
(22) 23.06.2017
(54) DRY RUNNING END FACE MECHANICAL SEAL
(73) Flowserve Pte. Ltd.
(72) MARTIN, Jose G.
(31) 201615194826
(32) 28.06.2016
(33) United States of America

(51) F16J 15/447
F16J 15/44
B65G 39/09
F16J 15/40
F16J 15/16
F16H 57/029
F16H 57/04
F16H 49/00
(11) EP4130524
(21) EP20939179.6
(47) 29.01.2025
(87) JP2020022359
09.12.2021
(22) 05.06.2020
(54) LUBRICANT SEALING STRUCTURE, WAVE-MOTION GEAR DEVICE AND ACTUATOR
(73) Harmonic Drive Systems Inc.
(72) KOBAYASHI, Syuhei
ORII, Daisuke

(51) F16K 1/46
F16K 1/36
G05D 16/06
G05D 16/10
(11) EP4330569
(21) EP22723867.2
(47) 29.01.2025
(87) US2022026098
03.11.2022
(22) 25.04.2022
(54) POPPET-STYLE VALVE ARRANGEMENTS
(73) Swagelok Company
(72) STEPHENSON, Graham, Harwood
PARKES, David John, Owen
BREGAZZI, Charles, Kneen
IRVINE, Barry, Cannell
(31) 202163180166 P
(32) 27.04.2021
(33) United States of America

(51) F16K 1/52
F16K 3/24
F16K 3/32
F16K 3/34
F24D 19/10
F24H 15/31
G05D 7/01
(11) EP4202266
(21) EP22215080.7
(47) 29.01.2025
(22) 20.12.2022
(54) VALVE FOR CONTROLLING A FLUID FLOW AND USE THEREOF, AND VALVE INSERT FOR A VALVE HOUSING FOR CONTROLLING A FLUID FLOW
(73) Meibes System-Technik GmbH
(72) SCHRAMEDEI, Ron
KLEIN, Jens
BLOCK, Sebastian
(31) 102021134501
(32) 23.12.2021
(33) Germany

(51) F16K 3/34
F16K 3/26
F16K 31/54
F16K 3/316
(11) EP4330581
(21) EP22719978.3
(47) 29.01.2025
(87) FR2022050641
03.11.2022
(22) 06.04.2022
(54) IMPROVED CRYOGENIC REGULATING VALVE FOR AIRCRAFT OR SPACECRAFT
(73) ArianeGroup SAS
(72) LAVENU, Yoann
RIOS FERNANDEZ, Sonia
(31) 2104452
(32) 28.04.2021
(33) France

(51) F16K 7/12
F16K 31/04
F16K 31/53
(11) EP4253815
(21) EP23191676.8
(47) 29.01.2025
(22) 18.07.2022
(54) TENSIONING ASSEMBLY FOR A PROCESS VALVE
(73) GEMÜ Gebr. Müller Apparatebau GmbH & Co. Kommanditgesellschaft
(72) Barghoorn, Maximilian
Magej, Johann
(31) 202021107033 U
102021120287
(32) 23.12.2021
04.08.2021
(33) Germany
Germany

(51) F16K 7/16
F16K 7/12
F16K 27/02
(11) EP4180697
(21) EP22204289.7
(47) 29.01.2025
(22) 28.10.2022
(54) DIAPHRAGM VALVE WITH MOVEABLE PRESSURE COMPONENT
(73) SISTO Armaturen S.A.
(72) SICHWARDT, Paul
GERLACH, Markus
LOEW, Pascal
HACKENBERGER, Bernd
(31) 102021129349
(32) 11.11.2021
(33) Germany

(51) F16K 17/16
F16K 24/00
H01M 50/308
H01M 50/342
H01M 50/35
H01M 50/30
(11) EP4264095
(21) EP21854775.0
(47) 29.01.2025
(87) US2021064025
23.06.2022
(22) 17.12.2021
(54) ADDITIVE MANUFACTURING OF AN ENCLOSED VENTILATION FILTER
(73) Donaldson Company, Inc.
(72) YODER, Mikayla A.
RAHMATHULLAH, Aflal
LAUER, David D.
BOYAT, Alexandra M.
SUTHAR, Anil
MORAVEC, Davis B.
GOERTZ, Matthew P.
WIDDEL, Jeffery T.
SANDERS, Jacob L.
(31) 202063127071 P
(32) 17.12.2020
(33) United States of America

(51) F16K 31/06
F16K 31/08
(11) EP4390195
(21) EP22215531.9
(47) 29.01.2025
(22) 21.12.2022
(54) ELECTROMAGNETICALLY OPERATED VALVE
(73) AVS, Ingenieur J.C. Römer GmbH
(72) Mück, Andreas
Grill, Pascal
Dirndorfer, Florian
Absmeier, Michael

(51) F16K 37/00
G01L 19/00
(11) EP4070002
(21) EP20808170.3
(47) 29.01.2025

(87) EP2020083229
10.06.2021
(22) 24.11.2020
(54) A VALVE FOR ADJUSTING A FLUID FLOW AND METHODS FOR USE IN CONNECTION WITH SUCH A VALVE
(73) IMI Hydronic Engineering International SA
(72) JILDEROS, Daniel
(31) 19212860
(32) 02.12.2019
(33) European Patent Office (EPO)

(51) F16L 3/10
F16L 55/035
(11) EP4249782
(21) EP23162794.4
(47) 29.01.2025
(22) 20.03.2023
(54) SOUND INSULATION INSERT MADE OF AN INSULATING MATERIAL FOR A PIPE CLIP AND PIPE CLIP COMPRISING SUCH A SOUND INSULATION INSERT
(73) REHAU Industries SE & Co. KG
(72) Zipf, Christian
Hennauer, René
(31) 202022101477 U
(32) 22.03.2022
(33) Germany

(51) F16L 5/00
F16L 5/02
(11) EP4386245
(21) EP23215286.8
(47) 29.01.2025
(22) 08.12.2023
(54) SLEEVE ATTACHMENT SYSTEM
(73) AIRBUS OPERATIONS (S.A.S.)
(72) BROCARD, Marc-Antoine
DELPY, Vincent
FOUCART-GAUDY, Simon
MILLET, Gérard
(31) 2213534
(32) 16.12.2022
(33) France

(51) F16L 11/08
F16L 11/112
(11) EP4278119
(21) EP22703053.3
(47) 29.01.2025
(87) IB2022050286
21.07.2022
(22) 14.01.2022
(54) CORRUGATED TUBING WITH EXTERNAL REINFORCEMENT
(73) Industrie Ilpea S.p.A.
(72) CITTADINI, Paolo
CATALDO, Claudio Damiano
(31) 202100000662
(32) 15.01.2021
(33) Italy

(51) F16L 11/20
F16L 13/02
F16L 33/01
F16L 33/26
(11) EP4150240
(21) EP21727340.8
(47) 29.01.2025
(87) US2021030778
18.11.2021
(22) 05.05.2021
(54) HOSE ASSEMBLY AND METHODS OF MAKING AND USING IT
(73) Swagelok Company
(72) ZABORSZKI, Stephen, J.
(31) 202063024691 P
(32) 14.05.2020
(33) United States of America

(51) F16L 13/14
(11) EP4377595
(21) EP22732192.4
(47) 29.01.2025
(87) EP2022065540
27.04.2023
(22) 08.06.2022
(54) CONNECTOR PIECE FOR PIPELINES
(73) SANHA GmbH & Co. KG
(72) HERBERG, Tom
VAN DEN ABBEELE, Geert
(31) 21203867
(32) 21.10.2021
(33) European Patent Office (EPO)

(51) F16L 19/10
B01D 63/06
B01D 69/04
B01D 53/22
B01D 71/02
H01M 8/0662
(11) EP4208283
(21) EP21802446.1
(47) 29.01.2025
(87) NL2021050529
10.03.2022
(22) 31.08.2021
(54) COUPLING DEVICE AND COMBINATION AND ASSEMBLY THEREOF WITH A TUBE
(73) Technische Universiteit Eindhoven
(72) GALLUCCI, Fausto
BINDRABAN, Madan
(31) 2026391
(32) 01.09.2020
(33) Netherlands

(51) F16L 23/00
F16L 23/02
F16L 23/18
F16L 37/12
(11) EP4075040
(21) EP22177491.2
(47) 29.01.2025
(22) 03.10.2018
(54) FLANGE ASSEMBLY
(73) Trelleborg Westbury Limited
(72) Williamson,, Mark
(31) 201716781
(32) 13.10.2017
(33) United Kingdom

(51) F16L 27/12
F16L 37/113
F16L 25/12
F16L 37/107
(11) EP4334623
(21) EP22736294.4
(47) 29.01.2025
(87) EP2022068375
12.01.2023
(22) 04.07.2022
(54) FLUID CIRCUIT AND METHOD FOR CONNECTING DUCTS OF SUCH A FLUID CIRCUIT
(73) Airbus Atlantic
(72) PERHERIN, Daniel
ROUYARD, Dimitri
BOULZE, Daniel
(31) 2107360
(32) 07.07.2021
(33) France

(51) F16L 33/207
(11) EP3963244
(21) EP20727706.2
(47) 29.01.2025
(87) IB2020053812
05.11.2020
(22) 22.04.2020
(54) FITTING FOR CONNECTING PIPES, IN PARTICULAR FLEXIBLE PIPES
(73) I.V.A.R. S.P.A.
(72) CONTINI, Mario
BERTOLOTTI, Mr. Umberto
(31) 201900006496
(32) 02.05.2019
(33) Italy

(51) F16L 37/091
(11) EP4279788
(21) EP23167440.9
(47) 29.01.2025
(22) 11.04.2023
(54) PUSH-FITTING
(73) Mueller Industries, Inc.
(72) ROBEY, Eric J
PISCITELLI, John S
WILLIAMS, Stephen A
(31) 202217745111
(32) 16.05.2022
(33) United States of America

(51) F16L 37/113
F16L 23/04
F16L 25/00
F16L 37/098
F16L 37/127
F16L 37/23
F16L 37/252
(11) EP4271929
(21) EP21721443.6
(47) 29.01.2025
(87) EP2021060365
15.09.2022
(22) 21.04.2021
(54) CONNECTING DEVICE FOR CONNECTING A FIRST LINE END TO A SECOND LINE END
(73) FLECOTEC AG
(72) KOCH, Martin
(31) 102021105817
(32) 10.03.2021
(33) Germany

(51) F16L 37/24
F16L 37/56
F16L 37/23
(11) EP4334625
(21) EP22726298.7
(47) 29.01.2025
(87) IB2022054197
10.11.2022
(22) 06.05.2022

(54) CONNECTOR FOR HYDRAULIC LINES, MULTI-CONNECTOR DEVICE FOR THIS CONNECTOR AND TOOL FOR MOUNTING AND/OR DISMOUNTING THE CONNECTOR
(73) FASTER S.r.l.
(72) SEGHIERI, Matteo
CARDI, Massimo
RAMBALDINI, Mauro
(31) 202100011777
(32) 07.05.2021
(33) Italy

(51) F16L 37/28
(11) EP4314619
(21) EP22715722.9
(47) 29.01.2025
(87) IB2022052747
06.10.2022
(22) 25.03.2022
(54) APPARATUS AND METHOD FOR MONITORING AND MANAGING THE CONNECTION AND OPERATION OF LINES OF A HYDRAULIC SYSTEM
(73) FASTER S.r.l.
(72) RUSCONI, Paolo
LA PLACA, Alessandro
DANIELE, Andrea
SEGHIERI, Matteo
TORAZZA, Enrico
TROISI, Luca
ARRIGONI, Riccardo
TORRESI, Emiliano
(31) 202100007949
(32) 31.03.2021
(33) Italy

(51) F16L 37/36
B60L 58/33
F16L 37/56
H01M 10/625
H01M 10/6567
H01M 50/249
F16L 37/50
H01R 13/631
H01M 10/613
H01M 50/204
H01M 50/271
(11) EP3904748
(21) EP19906161.5
(47) 29.01.2025
(87) CN2019130096
02.07.2020
(22) 30.12.2019
(54) LIQUID COOLING PLUG-IN ASSEMBLY, LIQUID COOLING PLUG-IN APPARATUS, AND BATTERY PACK ASSEMBLY
(73) Aulton New Energy Automotive Technology Group
(72) ZHANG, Jianping
HUANG, Chunhua
(31) 201811645940
(32) 29.12.2018
(33) China

(51) F16L 55/163
A61F 2/82
A61F 2/90
F16L 55/18
F16L 57/02
A61F 2/915
(11) EP3928022
(21) EP20758706.4
(47) 29.01.2025
(87) US2020018593
27.08.2020
(22) 18.02.2020
(54) STENT SPRINGS AND STENTS FOR REPAIRING PIPES
(73) Mueller International, LLC
(72) FURCOIU, Aurelian Ioan
(31) 201962834168 P
201962807264 P
(32) 15.04.2019
19.02.2019
(33) United States of America
United States of America

(51) F16L 55/165
E02D 29/12
F16L 11/04
(11) EP4264108
(21) EP21801111.2
(47) 29.01.2025
(87) EP2021079672
23.06.2022
(22) 26.10.2021
(54) LINING TUBE FOR RESTORING DEFECTIVE SEWER SHAFTS AND METHOD FOR PRODUCING AND INSTALLING SAME
(73) Brandenburger Liner GmbH & Co. KG
(72) BLENKE, Stefan
EBELING, Milan
(31) 102020134224
(32) 18.12.2020
(33) Germany

(51) F16L 55/165
E03F 3/06
F16L 11/04
(11) EP4264109
(21) EP21801469.4
(47) 29.01.2025
(87) EP2021079673
23.06.2022
(22) 26.10.2021
(54) LINING TUBE FOR RECONDITIONING OF DEFECTIVE SEWER PIPES AND METHOD OF PRODUCING AND INSTALLING ONE
(73) Brandenburger Liner GmbH & Co. KG
(72) BLENKE, Stefan
(31) 102020134200
(32) 18.12.2020
(33) Germany

(51) F16L 59/065
F25D 23/06
(11) EP4160075
(21) EP21812958.3
(47) 29.01.2025
(87) JP2021019930
02.12.2021
(22) 26.05.2021
(54) VACUUM INSULATION MATERIAL, AND THERMALLY INSULATING CONTAINER AND THERMALLY INSULATING WALL USING SAME
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) KAWARAZAKI, Hideji
KITANO, Tomoaki
HIRANO, Toshiaki
MIYAJI, Noriyuki
HATA, Yuichi
(31) 2020092029
(32) 27.05.2020
(33) Japan

(51) F16M 11/00
F16M 11/02
F21V 21/26
F21V 21/28
(11) EP3593026
(21) EP18764679.9
(47) 29.01.2025
(87) US2018021342
13.09.2018
(22) 07.03.2018
(54) AERODYNAMICALLY SHAPED SURGICAL LIGHTING SUSPENSON
(73) American Sterilizer Company
(72) BELLOWS, Lance, Clark
JURKIEWICZ, Damon
(31) 201762468469 P
(32) 08.03.2017
(33) United States of America

(51) F16M 13/02
F16D 51/00
(11) EP2912363
(21) EP13848289.8
(47) 29.01.2025
(87) US2013066752
01.05.2014
(22) 25.10.2013
(54) INTEGRATED BRAKE COMPONENT MOUNTING BRACKET
(73) Hendrickson USA, L.L.C.
(72) RAMSEY, John, E.
PIERCE, Phillippi, R.
(31) 201261718777 P
(32) 26.10.2012
(33) United States of America

(51) F16N 39/00
F16N 39/06
B01D 29/07
F01M 11/03
B01D 29/52
B01D 35/26
A47J 37/12
(11) EP4266963
(21) EP21843746.5
(47) 29.01.2025
(87) EP2021087452
30.06.2022
(22) 23.12.2021
(54) DEVICE FOR REMOVING FOREIGN MATTER FROM A LIQUID
(73) VITO AG
(72) SCHMIDT, Andreas
(31) 102020134844
(32) 23.12.2020
(33) Germany

(51) F17C 3/02
(11) EP4112992
(21) EP21184576.3
(47) 29.01.2025
(22) 08.07.2021

(54) TANK FOR STORING FLUID MEDIA UNDER CRYOGENIC CONDITIONS ON BORD OF A VEHICLE
(73) Airbus Operations GmbH
(72) Linde, Peter
Müller, Markus
(31) 21182736
(32) 30.06.2021
(33) European Patent Office (EPO)

(51) F17C 13/00
B01D 53/14
C02F 1/66
B63H 21/38
(11) EP4184052
(21) EP21861607.6
(47) 29.01.2025
(87) JP2021031139
03.03.2022
(22) 25.08.2021
(54) SHIP
(73) Mitsubishi Shipbuilding Co., Ltd.
(72) UNSEKI Takashi
OGATA Toshio
(31) 2020209288
2020141419
(32) 17.12.2020
25.08.2020
(33) Japan
Japan

(51) F17C 13/04
(11) EP4352403
(21) EP22729586.2
(47) 29.01.2025
(87) EP2022063416
15.12.2022
(22) 18.05.2022
(54) FUEL CELL SYSTEM, GAS TANK DEVICE AND SHUT-OFF VALVE FOR A GAS TANK DEVICE
(73) Robert Bosch GmbH
(72) RAU, Andreas
SCHAICH, Udo
SOUBARI, Joachim
(31) 102021205810
(32) 09.06.2021
(33) Germany

(51) F17C 13/12
(11) EP4073417
(21) EP20776143.8
(47) 29.01.2025
(87) EP2020076416
31.03.2022
(22) 22.09.2020
(54) ENERGY STORAGE ASSEMBLY FOR A MOTOR VEHICLE
(73) Audi AG
(72) MLEKUSCH, Bernd
MOLDERING, Florian
MEYER, Jannik
STOLL, Oliver

(51) F17D 1/04
(11) EP4170224
(21) EP22198533.6
(47) 29.01.2025
(22) 28.09.2022
(54) PLANT FOR TREATING GAS, PARTICULARLY NATURAL GAS, SUPPLIED BY A TRANSMISSION NETWORK
(73) Gruppo Societa' Gas Rimini S.p.A.
(72) GHELLI, Gianluca
BUGLI, Alessandro
(31) 202100026921
(32) 20.10.2021
(33) Italy

(51) F17D 5/00
F17D 5/02
G01M 3/28
(11) EP4105544
(21) EP22187851.5
(47) 29.01.2025
(22) 26.11.2019
(54) GAS NETWORK AND METHOD FOR DETECTING OBSTRUCTIONS IN A GAS NETWORK UNDER PRESSURE OR UNDER VACUUM
(73) Atlas Copco Airpower, Naamloze Vennootschap
(72) LOUARROUDI, Ebrahim
GEUENS, Philippe
(31) 201805860
(32) 07.12.2018
(33) Belgium

(51) F21S 4/10
F21V 23/00
F21V 31/00
(11) EP4124793
(21) EP22186608.0
(47) 29.01.2025
(22) 25.07.2022
(54) LED LAMP MANUFACTURED BY INJECTION MOLDING PROCESS
(73) Chongyi Jingyi Lighting Product Co., Ltd
(72) He, Yaoquan
(31) 202111103206
202110869213
(32) 18.09.2021
28.07.2021
(33) China
China

(51) F21S 4/28
F21V 5/00
F21V 7/00
F21V 13/04
F21V 7/05
F21V 17/16
F21W 131/305
F21Y 103/10
F21Y 115/10
(11) EP4184053
(21) EP22208115.0
(47) 29.01.2025
(22) 17.11.2022
(54) LAMP FOR USE IN A DISPLAY CABINET AND DISPLAY CABINET THEREOF
(73) SELF ELECTRONICS Germany GmbH
Lin, Wanjiong
Self Electronics Co., Ltd.
(72) HE, Zuping
XU, Kai
YANG, Jun
ZENG, Guoqing
CHEN, Dong
DONG, Jianguo
(31) 202122875691 U
(32) 22.11.2021
(33) China

(51) F21S 4/28
F21V 7/00
(11) EP4107426
(21) EP21704227.4
(47) 29.01.2025
(87) EP2021052890
26.08.2021
(22) 05.02.2021
(54) ELONGATED LAMP
(73) Zumtobel Lighting GmbH
(72) COVI, Matthias
LUDWICZAK, Bogna
(31) 202020100899 U
(32) 19.02.2020
(33) Germany

(51) F21S 41/00
F21S 2/00
F21S 43/00
F21S 45/00
F21W 103/00
F21W 104/00
F21W 105/00
F21W 107/10
F21Y 115/30
(11) EP3567304
(21) EP17890379.5
(47) 29.01.2025
(87) JP2017047233
12.07.2018
(22) 28.12.2017
(54) ILLUMINATION DEVICE
(73) Dai Nippon Printing Co., Ltd.
(72) NISHIO Shumpei
KURASHIGE Makio
(31) 2017000671
(32) 05.01.2017
(33) Japan

(51) F21S 41/143
F21S 41/151
F21S 41/153
F21S 41/24
F21S 41/25
F21S 41/32
F21S 41/663
B60Q 1/12
(11) EP4191127
(21) EP21211988.7
(47) 29.01.2025
(22) 02.12.2021
(54) ILLUMINATION DEVICE FOR A MOTORCYCLE HEADLAMP
(73) ZKW Group GmbH
(72) Kokoska, Anton
Martiska, Matej

(51) F21S 43/19
F21S 43/14
F21S 43/235
(11) EP3784954
(21) EP19723319.0
(47) 29.01.2025
(87) EP2019060090
31.10.2019
(22) 18.04.2019
(54) FLEXIBLE LED LIGHTING STRIP WITH SLANTED LEDS

(73) Lumileds LLC
(72) KLEIJNEN, Christian
CROMPVOETS, Floris, Maria, Hermansz
(31) 18169520
(32) 26.04.2018
(33) European Patent Office (EPO)

(51) F21V 5/00
F21V 7/00
F21V 17/16
F21V 19/00
F21V 21/02
F21Y 103/10
F21Y 115/10
(11) EP4078027
(21) EP20837962.8
(47) 29.01.2025
(87) EP2020086571
24.06.2021
(22) 16.12.2020
(54) LONGITUDINAL LUMINAIRE WITH ALIGNMENT FEATURES
(73) Thorn Lighting Limited
(72) BOWNESS, Anton
POTTER, Kenneth
CARROLL, Paul
BROWN, Nigel
(31) 201919453
(32) 20.12.2019
(33) United Kingdom

(51) F21V 7/00
F21S 8/00
(11) EP4206524
(21) EP21957181.7
(47) 29.01.2025
(87) CN2021119443
23.03.2023
(22) 18.09.2021
(54) OPTICAL REFLECTION SYSTEM FOR VEHICLE LAMP LIGHTING DEVICE, AND VEHICLE LAMP LIGHTING DEVICE
(73) Hasco Vision Technology Co., Ltd.
(72) CHEN, Jiayuan
SANG, Wenhui
DONG, Shikun
ZHU, He
ZHOU, Hao
ZHANG, Jie

(51) F21V 8/00
F21Y 103/33
F21W 131/406
F21Y 105/12
F21Y 113/10
F21Y 115/10
(11) EP4336098
(21) EP24154000.4
(47) 29.01.2025
(22) 09.08.2017
(54) HEADLIGHT
(73) Arnold & Richter Cine Technik GmbH & Co. Betriebs KG
(72) MUSCHAWECK, Julius
(31) 102016114694
(32) 09.08.2016
(33) Germany

(51) F21V 8/00
G02F 1/13357
G02F 1/1335
(11) EP3653930
(21) EP19208475.4
(47) 29.01.2025
(22) 12.11.2019
(54) LIGHTING DEVICE COMPATIBLE WITH NIGHT VISION EQUIPMENT HAVING LATERAL LIGHT INJECTION WINDOWS OF DAY LIGHT AND NIGHT LIGHT
(73) THALES
(72) TORAILLE, Vincent
ROCCA, Patrick
(31) 1871860
(32) 15.11.2018
(33) France

(51) F21V 15/00
G06F 21/79
G06F 21/86
G06F 21/88
(11) EP3650750
(21) EP19207516.6
(47) 29.01.2025
(22) 06.11.2019
(54) DEVICES AND METHODS FOR OPTICAL-BASED TAMPER DETECTION USING VARIABLE LIGHT CHARACTERISTICS
(73) VERIFONE, INC.
(72) BARROWMAN, John Henry
(31) 201816181765
(32) 06.11.2018
(33) United States of America

(51) F21V 33/00
G06Q 10/0836
(11) EP4317773
(21) EP23188560.9
(47) 29.01.2025
(22) 29.07.2023
(54) ILLUMINATED DOOR FOR LOCKERS OR CABINETS WITH LIMITED ACCESS, IN PARTICULAR FOR POST OFFICE BOXES
(73) Allegro Spolka z Ograniczona Odpowiedzialnoscia
(72) Glimasinski, Kamil
Derek, Marcin
Szolle, Wojciech
(31) 44194922
(32) 05.08.2022
(33) Poland

(51) F22B 1/30
E21B 43/24
(11) EP4356042
(21) EP22733138.6
(47) 29.01.2025
(87) EP2022066311
22.12.2022
(22) 15.06.2022
(54) SYSTEMS AND METHODS FOR STEAM PRODUCTION
(73) Shell Internationale Research Maatschappij B.V.
(72) PLOEMEN, Ingmar Hubertus Josephina
DI NOLA, Gianluca
MACKLIN, Joseph Daniel
(31) 21179924
(32) 17.06.2021
(33) European Patent Office (EPO)

(51) F23D 14/02
F23N 5/12
(11) EP4123222
(21) EP22178078.6
(47) 29.01.2025
(22) 09.06.2022
(54) METHOD FOR CONTROLLING A BURNER OF A HEAT GENERATOR, BURNER, HEAT GENERATOR AND HEATING SYSTEM
(73) Viessmann Climate Solutions SE
(72) PAESLER, Lars
(31) 102021207690
(32) 19.07.2021
(33) Germany

(51) F23D 14/12
F23G 7/06
F23D 14/16
F23D 14/14
B01D 53/70
B01D 53/79
(11) EP3884209
(21) EP19809602.6
(47) 29.01.2025
(87) GB2019053294
28.05.2020
(22) 21.11.2019
(54) ABATEMENT METHOD FOR PERFLUORO COMPOUNDS
(73) Edwards Limited
(72) GRAY, Fraser
SEELEY, Andrew James
(31) 201819055
(32) 22.11.2018
(33) United Kingdom

(51) F23D 14/64
(11) EP4232752
(21) EP21790403.6
(47) 29.01.2025
(87) EP2021077533
28.04.2022
(22) 06.10.2021
(54) GAS COOKTOP
(73) BSH Hausgeräte GmbH
(72) PAN, Shuo
MA, Jianxiang
LUO, Haitao
(31) 202022360863 U
(32) 21.10.2020
(33) China

(51) F23N 5/02
F23C 3/00
(11) EP4177520
(21) EP22202500.9
(47) 29.01.2025
(22) 19.10.2022
(54) SAFE START-UP OF A COOLED RADIANT TUBE BURNER AT HIGH TEMPERATURE OPERATION
(73) Honeywell International Inc.
(72) HUNING, Thomas
KNOSTMANN, Martin
GITZINGER, Heinz-Peter
(31) 202117521441
(32) 08.11.2021
(33) United States of America

(51) F23R 3/00
(11) EP4058729

(21) EP20828976.9
(47) 29.01.2025
(87) EP2020085479
15.07.2021
(22) 10.12.2020
(54) CERAMIC RESONATOR FOR COMBUSTION CHAMBER SYSTEMS AND COMBUSTION CHAMBER SYSTEM
(73) Siemens Energy Global GmbH & Co. KG
(72) GRALKI, Matthias
KRUSCH, Claus
(31) 102020200204
(32) 09.01.2020
(33) Germany

(51) F23R 3/28
F23L 7/00
F02K 9/52
F02K 7/00
(11) EP3956607
(21) EP20719987.8
(47) 29.01.2025
(87) EP2020060544
22.10.2020
(22) 15.04.2020
(54) INJECTOR DEVICE FOR AN ENGINE DEVICE, ENGINE DEVICE, AND AIR- AND/OR SPACECRAFT
(73) Deutsches Zentrum für Luft- und Raumfahrt e.V.
(72) MIENE, Yannik
OSCHWALD, Michael
ARMBRUSTER, Wolfgang
SUSLOV, Dmitry
HARDI, Justin
(31) 102019110258
102019109929
(32) 18.04.2019
15.04.2019
(33) Germany
Germany

(51) F24C 7/08
(11) EP3948089
(21) EP20712596.4
(47) 29.01.2025
(87) EP2020058392
08.10.2020
(22) 25.03.2020
(54) HOUSEHOLD COOKING APPLIANCE HAVING A COOKING CHAMBER CAMERA AND METHOD FOR OPERATION
(73) BSH Hausgeräte GmbH
(72) ADAM, Julien
FLESCH, Sebastien
(31) 19290021
(32) 05.04.2019
(33) European Patent Office (EPO)

(51) F24C 15/00
F24C 15/32
F24C 7/08
F24C 7/06
F24C 15/16
(11) EP4248139
(21) EP21819039.5
(47) 29.01.2025
(87) EP2021081973
27.05.2022
(22) 17.11.2021
(54) COOKING CHAMBER INSERT WITH HANDLE ZONES BETWEEN AN EXPOSED HEATING BODY AND AN EDGE, AND COOKING DEVICE
(73) BSH Hausgeräte GmbH
(72) DINKEL, Alexander
JELL, Peter
SCHÜRF, Stefan
HORN, Katrin
HÖRNER, Wolfgang
WREHDE, Edith
SOMDALEN, Ragnar
PADEL, Robert
ROLL, Markus
(31) 102021212758
102020214630
(32) 12.11.2021
20.11.2020
(33) Germany
Germany

(51) F24C 15/00
H05B 6/64
(11) EP3833906
(21) EP19748552.7
(47) 29.01.2025
(87) EP2019071136
13.02.2020
(22) 06.08.2019
(54) COOLING SYSTEM FOR A COOKING OVEN
(73) ELECTROLUX APPLIANCES AKTIEBOLAG
(72) SOKOVETS, Dmytro
SPECHT, Trevor
CATALOGNE, Cedric
(31) 18188391
(32) 10.08.2018
(33) European Patent Office (EPO)

(51) F24D 3/18
F24D 19/10
F24H 15/164
F24H 15/254
F24H 15/277
F24H 15/32
F24H 15/325
F24H 15/429
(11) EP4296583
(21) EP23177910.9
(47) 29.01.2025
(22) 07.06.2023
(54) METHOD FOR HEATING AT LEAST ONE BUILDING AND HEATING SYSTEM FOR AT LEAST ONE BUILDING
(73) Ameis, Tim
(72) Ameis, Tim
(31) 102022112850
(32) 20.06.2022
(33) Germany

(51) F24D 17/00
F24H 15/174
F24H 15/238
F24H 15/395
F24D 17/02
F24D 19/10
F24H 15/219
F24H 4/04
F28D 21/00
F28D 20/02
F24H 7/04
F24H 15/156
F24H 15/212
F24H 15/242
F24H 15/265
F24H 15/277
F24H 15/429
F24H 15/225
(11) EP4288704
(21) EP22709027.1
(47) 29.01.2025
(87) IB2022051075
11.08.2022
(22) 07.02.2022
(54) METHODS AND SYSTEMS AND APPARATUS TO SUPPORT REDUCED ENERGY AND WATER USAGE
(73) Octopus Energy Heating Limited
(72) KONOWALCZYK, Peter
(31) 202111089
202109600
202109599
202109598
202109597
202109596
202109594
202109593
202101678
(32) 02.08.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
07.02.2021
(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom

(51) F24D 19/00
F24D 19/10
F24H 3/08
(11) EP4278135
(21) EP21840688.2
(47) 29.01.2025
(87) IB2021062256
21.07.2022
(22) 23.12.2021
(54) METHOD FOR THE PREDICTIVE MAINTENANCE OF PRIMARY CIRCUIT COMPONENTS OF A BOILER
(73) ARISTON S.P.A.
(72) CENTURELLI, Lorenzo
CHIAVETTI, Flavio
SILVESTRI, Giacomo
(31) 202100000383
(32) 12.01.2021
(33) Italy

(51) F24D 19/10

F24H 15/152
F24H 15/172
F24H 15/174
F24H 15/238
F24H 15/242
F24H 15/265
F24H 15/375
(11) EP4288711
(21) EP22709026.3
(47) 29.01.2025
(87) IB2022051074
11.08.2022
(22) 07.02.2022
(54) METHODS AND SYSTEMS FOR PREDICTIVE HEATED WATER PROVISION
(73) Octopus Energy Heating Limited
(72) KONOWALCZYK, Peter
(31) 202111082
202109600
202109599
202109598
202109597
202109596
202109594
202109593
202101678
(32) 02.08.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
07.02.2021
(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom

(51) F24D 19/10
F24H 15/212
F24H 15/375
F24H 15/262
F24H 15/265
(11) EP4288713
(21) EP22709033.9
(47) 29.01.2025
(87) IB2022051081
11.08.2022
(22) 07.02.2022
(54) HEATING INSTALLATION FOR PREMISES AND METHOD OF CONTROLLING A PREMISES HEATING INSTALLATION
(73) Octopus Energy Heating Limited
(72) KONOWALCZYK, Peter
(31) 202111076
202109600
202109599
202109598
202109597
202109596
202109594
202109593
202101678
(32) 02.08.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
02.07.2021
07.02.2021
(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom

(51) F24F 1/20
F24F 1/22
F24F 11/88
(11) EP4345383
(21) EP23198557.3
(47) 29.01.2025
(22) 20.09.2023
(54) HEAT PUMP APPARATUS
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) NAGAI, Masaaki
KITAGAKI, Masaomi
AOYAMA, Shigeo
TSURU, Kakeru
KOBAYASHI, Tatuhiro
MATSUNAMI, Yohei
(31) 2022158739
(32) 30.09.2022
(33) Japan

(51) F24F 11/48
F24F 11/526
F24F 7/007
F24F 11/00
F24F 11/61
F24F 11/65
F24F 1/0035
(11) EP4224079
(21) EP21875756.5
(47) 29.01.2025
(87) JP2021036037
07.04.2022
(22) 30.09.2021
(54) AIR-CONDITIONING AND VENTILATION SYSTEM
(73) Daikin Industries, Ltd.
(72) NISHIDA, Teruo
ASHIZAWA, Tomoharu
(31) 2020165292
(32) 30.09.2020
(33) Japan

(51) F24F 11/62
F24F 11/70
(11) EP4119861
(21) EP21184944.3
(47) 29.01.2025
(22) 12.07.2021
(54) HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEM AND METHOD OF CONTROLLING A HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEM
(73) Robert Bosch GmbH
(72) Cola, Fabrizio
Tanyildiz, Baris
Pradipta, Justin

(51) F24F 11/65
F24F 11/64
F24F 6/14
(11) EP3742063
(21) EP18915720.9
(47) 29.01.2025
(87) CN2018092859
24.10.2019
(22) 26.06.2018
(54) AIR CONDITIONING DEVICE, AND CONTROL METHOD THEREFOR AND CONTROL DEVICE THEREOF
(73) GD Midea Air-Conditioning Equipment Co., Ltd.
(72) YUAN, Hongliang
WENG, Jinlian
(31) 201810359110
(32) 19.04.2018
(33) China

(51) F24H 1/10
C02F 1/42
F24H 8/00
F24H 9/20
F24D 19/00
(11) EP4168720
(21) EP21719586.6
(47) 29.01.2025
(87) EP2021059688
23.12.2021
(22) 14.04.2021
(54) HEATING DEVICE WITH INTEGRATED WATER DECALCIFICATION
(73) Robert Bosch GmbH
(72) CUNHA, Patrick
SALUSTIO, Sergio
(31) 2020116501
(32) 17.06.2020
(33) Portugal

(51) F24H 4/02
F24H 1/18
F24D 11/02
F24D 17/02
F24D 19/10
F24H 4/04
F24H 9/20
(11) EP3663670
(21) EP18841308.2
(47) 29.01.2025
(87) JP2018028302
07.02.2019
(22) 27.07.2018
(54) HOT WATER SUPPLY SYSTEM
(73) Daikin Industries, Ltd.
(72) MATSUSAKA, Yukio
NISHIDA, Teruo
YOSHIKAWA, Shinji
(31) 2017150147
(32) 02.08.2017
(33) Japan

(51) F24H 9/20
G05D 23/00
F24D 19/10
G01K 1/14
G01K 1/26
G01K 7/02
G01K 7/16
(11) EP3546847
(21) EP19171702.4
(47) 29.01.2025
(22) 04.12.2013
(54) TEMPERATURE SENSOR
(73) Oxford University Innovation Ltd.
(72) ARMSTRONG, Peter Michael
MCCULLOCH, Malcolm Duncan
(31) 201221828
(32) 04.12.2012
(33) United Kingdom

(51) F24H 15/00
H02J 13/00
G06Q 50/06
H02J 3/00
H02J 3/14
F24D 3/00
F24D 3/18
F24H 4/02
F24H 4/06
F24H 15/429
F24H 15/443
F24H 1/12
F24H 1/52
F24D 12/02
F24H 15/156
F24H 15/16
F24D 19/10
(11) EP4253867
(21) EP21897860.9
(47) 29.01.2025
(87) JP2021042478
02.06.2022
(22) 18.11.2021
(54) FLUID HEATING SYSTEM
(73) Daikin Industries, Ltd.
(72) MATSUMOTO, Akihito
OKA, Yasuhiko
(31) 2020194598
(32) 24.11.2020
(33) Japan

(51) F24S 10/30
F24S 20/20
F24S 23/79
F24S 60/00
F24S 80/20
F28D 13/00
(11) EP4100685
(21) EP20713088.1
(47) 29.01.2025
(87) IB2020050828
12.08.2021
(22) 03.02.2020
(54) DEVICE FOR STORING THERMAL ENERGY OF SOLAR ORIGINE WITH MULTIPLE REFLECTION
(73) Magaldi Power S.P.A.
(72) MAGALDI, Mario
BASSETTI, Fulvio

(51) F25B 1/00
F25B 31/00
F25B 13/00
F25B 49/02
(11) EP3967949
(21) EP20805173.0
(47) 29.01.2025
(87) JP2020017922
19.11.2020
(22) 27.04.2020
(54) HEAT SOURCE SYSTEM
(73) Carrier Japan Corporation
(72) YANG, ShuoBing
MORITA, Takeru
(31) 2019091481
(32) 14.05.2019
(33) Japan

(51) F25B 13/00
F25B 43/00
(11) EP3926255
(21) EP21178113.3
(47) 29.01.2025
(22) 08.06.2021
(54) AIR CONDITIONER
(73) LG Electronics Inc.
(72) PARK, Jungmin
HONG, Seongho
CHO, Eunjun
KIM, Yejin
YOON, Pilhyun
(31) 20200073100
(32) 16.06.2020
(33) Korea (Republic)

(51) F25B 15/06
(11) EP3842710
(21) EP19219205.2
(47) 29.01.2025
(22) 23.12.2019
(54) METHOD FOR OPERATING A SORPTION SYSTEM AND SORPTION SYSTEM
(73) Technische Universität Berlin
(72) PETERSEN, Stefan

(51) F25B 21/02
F25D 11/02
(11) EP4212796
(21) EP22185164.5
(47) 29.01.2025
(22) 15.07.2022
(54) REFRIGERATOR
(73) LG Electronics Inc.
(72) LIM, Hyoung Keun
LEE, Jae Duck
PARK, Hyun Woo
(31) 20220005420
(32) 13.01.2022
(33) Korea (Republic)

(51) F25B 41/335
(11) EP4145066
(21) EP22192314.7
(47) 29.01.2025
(22) 26.08.2022
(54) METHOD FOR MANUFACTURING POWER ELEMENT, POWER ELEMENT, AND EXPANSION VALVE EQUIPPED WITH THE SAME
(73) Fujikoki Corporation
(72) OKUTSU, Kinya
KAMATA, Naoki
MATSUDA, Ryo
(31) 2021145007
(32) 06.09.2021
(33) Japan

(51) F25B 49/00
F25B 49/02
(11) EP4141357
(21) EP21204961.3
(47) 29.01.2025
(22) 27.10.2021
(54) TRANSPORT REFRIGERATION UNIT AND CONTROL METHOD
(73) Thermo King LLC
(72) ZEBRA, Frantisek
OCEJO RODRIGUEZ, Luis
VIJAYAN, Vipin
(31) 202111038486
(32) 25.08.2021
(33) India

(51) F25C 1/04
F25C 1/22
F25C 5/04
F25C 5/08
F25C 5/20
(11) EP3861262
(21) EP19869276.6
(47) 29.01.2025
(87) KR2019012977
09.04.2020
(22) 02.10.2019
(54) REFRIGERATOR
(73) LG Electronics Inc.
(72) BAE, Yongjun
LEE, Donghoon
PARK, Chongyoung
SON, Sunggyun
LEE, Wookyong
LEE, Donghoon
YEOM, Seungseob
(31) 20190081688
20180142117
20180117785
20180117822
20180117821
20180117819
(32) 06.07.2019
16.11.2018
02.10.2018
02.10.2018
02.10.2018
02.10.2018
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) F25C 1/142
F25C 3/04
F25D 21/06
F28F 17/00
F28D 1/053
F28F 9/013
F28G 1/10
(11) EP4067781
(21) EP21165822.4
(47) 29.01.2025
(22) 30.03.2021

(54) COOLING COIL FOR COLD AIR GENERATION WITH DE-ICING DEVICE
(73) 3CON Anlagenbau GmbH
(72) GRUBER, Daniel
MAYR, Christian
(51) F25C 5/18
(11) EP4184088
(21) EP21793703.6
(47) 29.01.2025
(87) CN2021090383
28.10.2021
(22) 28.04.2021
(54) ICE MAKING DEVICE AND REFRIGERATOR
(73) QINGDAO HAIER RREFRIGERATOR CO., LTD.
HAIER SMART HOME CO., LTD.
(72) DU, Qihai
YANG, Jun
ZHAO, Zhenyu
ZHANG, Yanqing
ZHANG, Fangyou
(31) 202010685335
(32) 16.07.2020
(33) China
(51) F25D 11/00
(11) EP4206569
(21) EP21871291.7
(47) 29.01.2025
(87) CN2021117714
31.03.2022
(22) 10.09.2021
(54) REFRIGERATOR
(73) Haier Smart Home Co., Ltd.
Qingdao Haier Refrigerator Co., Ltd.
(72) LIU, Haoquan
SUN, Yongsheng
ZHU, Xiaobing
FEI, Bin
(31) 202011029619
(32) 27.09.2020
(33) China
(51) F25D 11/02
(11) EP4206575
(21) EP21868443.9
(47) 29.01.2025
(87) CN2021115640
24.03.2022
(22) 31.08.2021
(54) REFRIGERATOR
(73) Shenyang Haier Refrigerator Co., Ltd.
Haier Smart Home Co., Ltd.
Qingdao Haier Refrigerator Co., Ltd.
(72) CUI, Zhanpeng
LYU, Peng
JI, Lisheng
LI, Jiaming
(31) 202010968834
(32) 15.09.2020
(33) China
(51) F25D 11/04
F25C 1/18
F25C 5/18
F25D 11/00
F25D 29/00
F25D 25/02
F25C 1/24
F25C 5/02
(11) EP3862674
(21) EP19869401.0
(47) 29.01.2025
(87) KR2019012861
09.04.2020
(22) 01.10.2019
(54) REFRIGERATOR
(73) LG Electronics Inc.
(72) LEE, Wookyong
PARK, Chongyoung
YEOM, Seungseob
SON, Sunggyun
BAE, Yongjun
LEE, Donghoon
LEE, Donghoon
(31) 20190081741
20190081749
20180142117
20180117785
20180117822
20180117821
20180117819
(32) 06.07.2019
06.07.2019
16.11.2018
02.10.2018
02.10.2018
02.10.2018
02.10.2018
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
(51) F25D 13/04
F25D 17/00
F25D 17/04
F25D 25/04
B65G 1/04
(11) EP4251936
(21) EP21815192.6
(47) 29.01.2025
(87) EP2021082371
02.06.2022
(22) 19.11.2021
(54) SYSTEM AND METHOD OF TEMPERATURE CONTROL IN AN AUTOMATED GRID BASED STORAGE AND RETRIEVAL SYSTEM
(73) Autostore Technology AS
(72) FAGERLAND, Ingvar
HADDELAND, Ole Andreas
(31) 20201296
(32) 25.11.2020
(33) Norway
(51) F25D 17/06
(11) EP4127578
(21) EP20785516.4
(47) 29.01.2025
(87) EP2020078050
30.09.2021
(22) 07.10.2020
(54) A REFRIGERATION APPLIANCE EQUIPPED WITH A REFRIGERATION SYSTEM HAVING A FAN FOR CIRCULATING AIR
(73) ELECTROLUX APPLIANCES AKTIEBOLAG
(72) INGARGIOLA, Paolo
GASPAROTTO, Paolo
SEDRANI, Michele
CRISTIANO, Francesco
(31) 20165287
20165291
(32) 24.03.2020
24.03.2020
(33) European Patent Office (EPO)
European Patent Office (EPO)
(51) F25D 19/02
F25D 17/06
(11) EP3861264
(21) EP19899444.4
(47) 29.01.2025
(87) KR2019015973
25.06.2020
(22) 20.11.2019
(54) REFRIGERATOR
(73) Samsung Electronics Co., Ltd.
(72) JEON, Byung Woo
HONG, Dae Jin
BAE, Il Sung
HONG, Sun Gi
(31) 20180165556
(32) 19.12.2018
(33) Korea (Republic)
(51) F25D 21/02
F25D 21/14
F25D 29/00
(11) EP4127580
(21) EP22778803.1
(47) 29.01.2025
(87) CN2022083169
06.10.2022
(22) 25.03.2022
(54) REFRIGERATOR WITH DYNAMIC MULTI-ZONE ANTI-SWEAT HEATING SYSTEM
(73) Midea Group Co., Ltd.
(72) LANGNESS, Brian
SCALF, Eric
(31) 202117215349
(32) 29.03.2021
(33) United States of America
(51) F25D 23/02
F25D 29/00
(11) EP3327386
(21) EP17202681.7
(47) 29.01.2025
(22) 21.11.2017
(54) REFRIGERATOR
(73) LG Electronics Inc.
(72) LEE, Ikkyu
WOO, Dongrim
(31) 20170028004
20160160178
(32) 04.03.2017
29.11.2016
(33) Korea (Republic)
Korea (Republic)
(51) F25D 31/00
F25B 7/00
F25B 5/02
F25B 41/37
F25B 41/42

F25B 43/00
F25B 47/02
F25B 49/02
F25B 40/04
F25D 21/04
(11) EP4352433
(21) EP22741540.3
(47) 29.01.2025
(87) EP2022069852
19.01.2023
(22) 15.07.2022
(54) MEDICAL CONTACT SHOCK FREEZER
(73) B Medical Systems S.à r.l.
(72) LAVILLE, Kevin
HAJJI, Imane
SCHRAMER, Uwe
(31) 202110256
(32) 16.07.2021
(33) United Kingdom

(51) F26B 17/00
F26B 21/02
F26B 21/06
(11) EP4413313
(21) EP23702163.9
(47) 29.01.2025
(87) EP2023052348
17.08.2023
(22) 31.01.2023
(54) PARTICLE DRYER WITH RECYCLING OF PART OF THE HOT GAS
(73) Crosset, Léon
(72) Crosset, Léon
(31) 202205095
(32) 14.02.2022
(33) Belgium

(51) F26B 23/08
F26B 25/18
F26B 3/347
(11) EP4411299
(21) EP22908798.6
(47) 29.01.2025
(87) CN2022141247
27.06.2024
(22) 23.12.2022
(54) MICROWAVE VACUUM LOW-TEMPERATURE DRYING MACHINE AND PROCESS
(73) Shanghai Ailu Packaging Co., Ltd.
(72) CHEN, Ankang
(31) 202211634406
(32) 19.12.2022
(33) China

(51) F28D 1/053
F28F 1/20
F28F 21/08
F28D 21/00
(11) EP4303517
(21) EP23181285.0
(47) 29.01.2025
(22) 23.06.2023
(54) HEAT EXCHANGER WITH FLUID CIRCULATION TUBE AND PROTECTION AGAINST MICRO-METEORITES
(73) Liebherr-Aerospace Toulouse SAS
(72) RAMOUSSE, Arnaud
ROBERT, Julien
MEUNIER, Stéphane
(31) 2206786
(32) 04.07.2022
(33) France

(51) F28D 7/16
F28F 9/02
(11) EP4281724
(21) EP21835607.9
(47) 29.01.2025
(87) EP2021083883
28.07.2022
(22) 02.12.2021
(54) TUBE HEAT EXCHANGER
(73) Marinnovation HB
(72) BLOMGREN, Ralf
(31) 2150054
(32) 20.01.2021
(33) Sweden

(51) F28D 9/00
(11) EP4310428
(21) EP22425032.4
(47) 29.01.2025
(22) 22.07.2022
(54) BRAZED PLATE HEAT EXCHANGER
(73) Alfa Laval Corporate AB
(72) Zorzin, Alvaro
Muzzolon, Angelo

(51) F28D 9/00
F28F 9/02
(11) EP4291846
(21) EP22703090.5
(47) 29.01.2025
(87) IB2022050936
18.08.2022
(22) 03.02.2022
(54) EVAPORATOR ASSEMBLY
(73) UFI Innovation Center S.r.l.
(72) GIRONDI, Giorgio
(31) 202100002951
(32) 10.02.2021
(33) Italy

(51) F28D 15/02
F28D 15/04
F28F 3/02
F28F 21/08
F28F 3/08
(11) EP4325156
(21) EP23191681.8
(47) 29.01.2025
(22) 16.08.2023
(54) HEAT PIPE OF THE CAPILLARY PUMPING TYPE, WITH RE-ENTRANT GROOVES INCLUDING AT LEAST ONE SUBSTRATE POROUS AT THE EVAPORATOR
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) MARIOTTO, Mathieu
GRUSS, Jean-Antoine
CHAMPEL, Bénédicte
(31) 2208353
(32) 17.08.2022
(33) France

(51) F28D 20/00
F28D 17/00
F28D 17/04
F24H 7/02
(11) EP3844450
(21) EP19762350.7
(47) 29.01.2025
(87) EP2019073147
05.03.2020
(22) 29.08.2019
(54) METHOD AND APPARATUS FOR HEAT STORAGE
(73) Heliac A/S
(72) PRANOV, Henrik
(31) 201814140
(32) 30.08.2018
(33) United Kingdom

(51) F28D 20/02
F01M 5/00
F28F 13/00
F28F 27/02
G06F 1/00
H05K 7/20
(11) EP3824239
(21) EP19745238.6
(47) 29.01.2025
(87) GB2019052028
23.01.2020
(22) 19.07.2019
(54) THERMAL MANAGEMENT SYSTEM
(73) BAE SYSTEMS plc
(72) HOLLAND, Graham Andrew
(31) 201811860
(32) 20.07.2018
(33) United Kingdom

(51) F28D 20/02
F28F 13/00
F28F 27/02
G06F 1/20
H05K 7/20
(11) EP3824238
(21) EP19745237.8
(47) 29.01.2025
(87) GB2019052027
23.01.2020
(22) 19.07.2019
(54) THERMAL MANAGEMENT SYSTEM
(73) BAE SYSTEMS plc
(72) HOLLAND, Graham Andrew
(31) 201811856
(32) 20.07.2018
(33) United Kingdom

(51) F28F 9/02
F28D 1/03
F28D 1/053
F28D 1/02
(11) EP4390293
(21) EP22215658.0
(47) 29.01.2025
(22) 21.12.2022
(54) MANIFOLD FOR A COLD PLATE COOLING SYSTEM
(73) Aptiv Technologies AG
(72) WODECKI, Waldemar
LUKASZ, Stanek
KORTA, Jakub
WISNIOWSKI, Michal
PIETRAS, Marcin
DOLOT, Tomasz
ZBOROWSKI, Jakub
PUCHALA, Grzegorz

(51) F28F 9/02
H01M 10/6554

(11) EP4425085
(21) EP23205725.7
(47) 29.01.2025
(22) 27.02.2023
(54) HEAT EXCHANGER PLATE
(73) Benteler Automobiltechnik GmbH
(72) Fortmeier, Günter
Düpmeier, Tobias
Grußmann, Elmar

(51) F28F 9/02
H01M 10/6555
(11) EP4421437
(21) EP23158875.7
(47) 29.01.2025
(22) 27.02.2023
(54) HEAT EXCHANGER PLATE AND METHOD FOR PRODUCING A HEAT EXCHANGER PLATE
(73) Benteler Automobiltechnik GmbH
(72) Fortmeier, Günter
Bickmann, Carsten
Düpmeier, Tobias
Grußmann, Elmar

(51) F28G 9/00
F28D 21/00
B08B 13/00
B08B 9/027
F28G 15/00
F28G 13/00
B08B 7/00
(11) EP4162221
(21) EP21730548.1
(47) 29.01.2025
(87) EP2021064572
09.12.2021
(22) 31.05.2021
(54) METHOD, SYSTEM AND APPARATUS FOR HYDROCARBON FLOW SYSTEM FLUID COOLING
(73) Empig AS
(72) STROMMEGJERDE, Lars
SPERLE, Thomas
LUND, Fredrik
(31) 202008533
(32) 05.06.2020
(33) United Kingdom

(51) F41A 19/14
(11) EP3948144
(21) EP19922797.6
(47) 29.01.2025
(87) IB2019000326
08.10.2020
(22) 29.03.2019
(54) SAFETY LOCK MECHANISMS FOR PORTABLE WEAPONS, INCLUDING CROSSBOWS AND FIREARMS, SUCH AS GUNS, RIFLES AND ALIKE
(73) Song, Jiuhong
(72) LIU, Xinting
SONG, Jiuhong

(51) F41A 19/16
F41A 19/45
F41A 19/15
(11) EP3839408
(21) EP19216895.3
(47) 29.01.2025
(22) 17.12.2019
(54) EXTRACTION UNIT FOR A FIREARM
(73) Glock Technology GmbH
(72) Markut, Karl
Werdnig, Andreas

(51) F41C 23/18
(11) EP4396519
(21) EP22768838.9
(47) 29.01.2025
(87) EP2022073719
09.03.2023
(22) 25.08.2022
(54) ONE-PIECE GUNSTOCK OF ADVANCED COMPOSITE MATERIAL FOR FIREARM AND MANUFACTURING METHOD THEREOF
(73) Sabatti S.p.A.
(72) MERELLI, Bernardino
(31) 202100022535
(32) 30.08.2021
(33) Italy

(51) F41H 1/08
F41H 5/04
B32B 5/02
B32B 5/12
B32B 5/26
B32B 5/28
B32B 27/08
B32B 27/12
B32B 27/32
B32B 27/36
(11) EP4234240
(21) EP23174573.8
(47) 29.01.2025
(22) 17.12.2018
(54) HIGH PERFORMANCE FIBERS COMPOSITE SHEET
(73) Avient Protective Materials B.V.
(72) VAN ELBURG, Johann
MARISSEN, Roelof
VAN DER WERFF, Harm
PEREZ GRATEROL, Raul Marcelino
HEISSERER, Ulrich
(31) 201762609655 P
18153429
(32) 22.12.2017
25.01.2018
(33) United States of America
European Patent Office (EPO)

(51) F42B 3/12
F42D 1/055
(11) EP4239278
(21) EP20958925.8
(47) 29.01.2025
(87) CL2020050144
05.05.2022
(22) 29.10.2020
(54) PROGRAMMABLE NON-EXPLOSIVE ELECTRONIC INITIATOR FOR ROCK BLASTING, AND EXOTHERMIC REACTION AND TESTING PROCESS OF THE INITIATOR
(73) COMERCIALIZADORA EXOBLAST CHILE SPA
(72) ABARCA VARGAS, Eduardo Alfredo

(51) F42B 12/60
F42B 12/62
F42B 12/06
(11) EP3717860
(21) EP18884120.9
(47) 29.01.2025
(87) SE2018050973
06.06.2019
(22) 26.09.2018
(54) DEVICE AND METHOD FOR COUNTERACTING A TUMBLING MOTION OF ELONGATED SUB-PROJECTILES
(73) Bae Systems Bofors AB
(72) THUMAN, Christer
VESA, Reijo
HEICHE, Ulf
(31) 1700293
(32) 28.11.2017
(33) Sweden

(51) F42C 15/20
F42D 1/04
(11) EP4290174
(21) EP23178206.1
(47) 29.01.2025
(22) 08.06.2023
(54) DETONATION CONTROL SYSTEM UTILIZING A SMART SAFETY PIN
(73) Gate Technologies Ltd.
(72) GEVA, Gal
GEVA, Amir
GEVA, Asaf
(31) 29369222
(32) 08.06.2022
(33) Israel

(51) G01B 5/008
G01B 21/04
(11) EP4295107
(21) EP22705458.2
(47) 29.01.2025
(87) GB2022050409
25.08.2022
(22) 16.02.2022
(54) METROLOGY APPARATUS AND CORRESPONDING OPERATING METHOD
(73) Renishaw PLC
(72) HOY, Benjamin, George
BUTTER, Andrew Geoffrey
(31) 202102201
202102200
202102199
(32) 17.02.2021
17.02.2021
17.02.2021
(33) United Kingdom
United Kingdom
United Kingdom

(51) G01B 9/02001
(11) EP4251947
(21) EP21799031.6
(47) 29.01.2025
(87) EP2021079532
02.06.2022
(22) 25.10.2021
(54) A POSITIONING SYSTEM, A LITHOGRAPHIC APPARATUS, AN ABSOLUTE POSITION DETERMINATION METHOD, AND A DEVICE MANUFACTURING METHOD
(73) ASML Netherlands B.V.
(72) JANSEN, Maarten, Jozef
(31) 20209459

(32) 24.11.2020
(33) European Patent Office (EPO)

(51) G01B 11/02
G01N 29/07
G01N 29/44
G01B 5/02
G01N 21/95
(11) EP4237834
(21) EP21801503.0
(47) 29.01.2025
(87) EP2021079800
05.05.2022
(22) 27.10.2021
(54) AUTOMATED EVALUATION OF USED SCREWS
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) STAMMLER, Matthias
(31) 102020213694
(32) 30.10.2020
(33) Germany

(51) G01B 11/25
G01B 5/00
G01N 21/958
(11) EP4423455
(21) EP22840241.8
(47) 29.01.2025
(87) FR2022052187
08.06.2023
(22) 28.11.2022
(54) DEFLECTOMETRY MEASUREMENT METHOD
(73) WYSE LIGHT
(72) SURREL, Yves
(31) 2112836
(32) 02.12.2021
(33) France

(51) G01B 15/00
G01N 23/04
G01N 23/20025
H01M 10/42
H01M 10/0525
H01M 10/0587
(11) EP4382858
(21) EP23740923.0
(47) 29.01.2025
(87) CN2023085237
25.04.2024
(22) 30.03.2023
(54) GAP MEASUREMENT DEVICE AND GAP MEASUREMENT METHOD
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) REN, Shaoteng
QI, Siyuan
SHI, Zhimeng
LIU, Jianlin
ZHANG, Fenglin
(31) 202211290267
(32) 20.10.2022
(33) China

(51) G01B 17/08
G01N 29/04
G01N 29/11
G01N 29/44
(11) EP3875897
(21) EP21159765.3
(47) 29.01.2025
(22) 26.02.2021
(54) SURFACE ROUGHNESS ANALYSIS SYSTEM AND METHOD OF ANALYZING SURFACE ROUGHNESS OF A WORKPIECE
(73) The Boeing Company
(72) GEORGESON, Gary E.
DESAI, Nihar Ashokkumar
JAHANBIN, Shahrooz M.
IHN, Jeong-Beom
(31) 202016806894
(32) 02.03.2020
(33) United States of America

(51) G01C 11/02
B64G 1/10
B64G 1/24
G06V 20/13
B64G 3/00
(11) EP4356069
(21) EP23719040.0
(47) 29.01.2025
(87) FR2023050428
05.10.2023
(22) 27.03.2023
(54) METHOD AND SYSTEM FOR ALLOCATING EARTH OBSERVATIONS TO BE MADE TO A PLURALITY OF SATELLITES
(73) Airbus Defence and Space SAS
(72) PICARD, Mathieu
GUERRA, Jonathan
(31) 2202757
(32) 28.03.2022
(33) France

(51) G01C 21/00
G01C 21/36
B60W 60/00
G06V 20/56
(11) EP4160147
(21) EP22208429.5
(47) 29.01.2025
(22) 14.06.2018
(54) METHOD AND SERVER FOR CREATING AND DISTRIBUTING LOCALLY ALIGNED NAVIGATION INFORMATION FOR AUTONOMOUS DRIVING
(73) Mobileye Vision Technologies Ltd.
(72) GDALYAHU, Yoram
SHASHUA, Amnon
GUBERMAN, Yahel
SPRINGER, Ofer
SHALEV-SHWARTZ, Shai
SHAMMAH, Shaked
(31) 201762519493 P
201762519471 P
(32) 14.06.2017
14.06.2017
(33) United States of America
United States of America

(51) G01C 21/20
(11) EP4283257
(21) EP22207819.8
(47) 29.01.2025
(22) 16.11.2022
(54) SYSTEM AND METHOD FOR COMMUNICATING DIRECTIONS BY ONE OR MORE DRONES
(73) Otis Elevator Company
(72) AKKINA, Vinod
NAGAVELLI, Vidyasagar
SURISETTY, Venkata Krishna
RACHA, Rajendra Prasad
(31) 202217751784
(32) 24.05.2022
(33) United States of America

(51) G01C 21/36
G08G 1/14
G01C 21/34
G08G 1/01
(11) EP4130675
(21) EP22196978.5
(47) 29.01.2025
(22) 29.09.2017
(54) METHODS AND SYSTEMS FOR GENERATING PARKING RELATED DATA
(73) TomTom Traffic B.V.
(72) BÖSCHE, Konrad
SKARDING, Joakim
SCHMIDT, Gunnar
WIESNER, Steffen, Gunther
(31) 201662401822 P
(32) 29.09.2016
(33) United States of America

(51) G01C 21/36
G08G 1/16
B60W 30/09
G01C 21/28
G06V 20/56
(11) EP4012347
(21) EP20213858.2
(47) 29.01.2025
(22) 14.12.2020
(54) SYSTEM AND METHOD FOR MAPPING A VEHICLE ENVIRONMENT
(73) Aptiv Technologies AG
(72) Kogut, Krzysztof
Porebski, Jakub
Rózewicz, Maciej

(51) G01C 23/00
(11) EP4151953
(21) EP22196402.6
(47) 29.01.2025
(22) 19.09.2022
(54) TIME BASED OVERLAY FOR POSITIONAL MAP DISPLAYS
(73) Rockwell Collins, Inc.
(72) McGAUGHY, Ellen L.
KRENZ, Michael J.
(31) 202117479830
(32) 20.09.2021
(33) United States of America

(51) G01C 23/00
G08G 5/00
(11) EP4060289
(21) EP22157904.8
(47) 29.01.2025
(22) 22.02.2022
(54) SYSTEMS AND METHODS FOR EDITING AND DISPLAYING WAYPOINT CONSTRAINTS AND CONDITIONS
(73) Honeywell International Inc.
(72) KHATWA, Ratan
CROUCH, Steven C.
MATHAN, Santosh

(31) 202117205901
(32) 18.03.2021
(33) United States of America

(51) G01C 25/00
B60W 60/00
(11) EP4251490
(21) EP20812028.7
(47) 29.01.2025
(87) EP2020083402
02.06.2022
(22) 25.11.2020
(54) A METHOD FOR CONTROLLING A DRIVING OPERATION OF AN AUTONOMOUSLY CONTROLLED VEHICLE
(73) Volvo Autonomous Solutions AB
(72) JONASSON, Mats
TAGESSON, Kristoffer
HELFRICH, Thorsten

(51) G01D 5/353
(11) EP4273509
(21) EP22171178.1
(47) 29.01.2025
(22) 02.05.2022
(54) DEVICE AND METHOD FOR DISTRIBUTED SENSING, PREFERABLY IN A STAR NETWORK
(73) Omnisens S.A.
(72) ROCHAT, Etienne
GOY, Alexandre

(51) G01D 11/24
(11) EP4006496
(21) EP20210352.9
(47) 29.01.2025
(22) 27.11.2020
(54) SUBASSEMBLY FOR A SENSOR
(73) Pepperl+Fuchs SE
(72) GEIGER, Thomas
DREBES, Patrick
ELTER, Johann

(51) G01D 11/30
H01R 13/52
G01N 27/38
(11) EP4028727
(21) EP20807179.5
(47) 29.01.2025
(87) US2020056321
29.04.2021
(22) 19.10.2020
(54) SENSOR SHIELD
(73) Lonza Biologics Inc.
(72) MASON, Kevin
JACKSON, Alexandra
HADDADIN, Zaid
GENTILE, Matthew
(31) 201962924870 P
(32) 23.10.2019
(33) United States of America

(51) G01F 1/66
G01F 25/00
G01F 1/667
(11) EP4367484
(21) EP22786804.9
(47) 29.01.2025
(87) EP2022076399
27.04.2023
(22) 22.09.2022
(54) CALIBRATION METHOD FOR A FLOW MEASUREMENT SYSTEM, FLOW MEASUREMENT SYSTEM AND COMPUTER PROGRAM PRODUCT
(73) Siemens Aktiengesellschaft
(72) WILKENING, Wilko
KIEFER, Jürgen
(31) 102021211941
(32) 22.10.2021
(33) Germany

(51) G01F 1/66
G01F 25/00
G01F 1/667
G01F 25/10
(11) EP4296630
(21) EP23209443.3
(47) 29.01.2025
(22) 26.04.2011
(54) ULTRASONIC FLOW METER
(73) Apator Miitors ApS
(72) DRACHMANN, Jens
(31) 10161295
(32) 28.04.2010
(33) European Patent Office (EPO)

(51) G01F 1/7082
G01F 1/712
G01F 1/667
G01F 1/66
(11) EP3922957
(21) EP19914612.7
(47) 29.01.2025
(87) JP2019009564
13.08.2020
(22) 11.03.2019
(54) FLOW RATE MEASUREMENT DEVICE
(73) Omron Corporation
(72) ISHIDA, Yui
YOSHITAKE, Naoki
TSURUKAME, Yoshitaka
(31) 2019018701
(32) 05.02.2019
(33) Japan

(51) G01F 1/84
G01N 9/00
G01N 11/16
(11) EP4251956
(21) EP21819844.8
(47) 29.01.2025
(87) EP2021083119
02.06.2022
(22) 26.11.2021
(54) SENSOR OF A MEASUREMENT DEVICE AND MEASUREMENT DEVICE
(73) Endress+Hauser Flowtec AG
(72) SCHÜTZ, Markus
WERNER, Marc
SCHWENTER, Benjamin
(31) 102020131563
(32) 27.11.2020
(33) Germany

(51) G01F 15/00
G01F 1/00
(11) EP4336151
(21) EP22382841.9
(47) 29.01.2025
(22) 12.09.2022
(54) NANOMECHANICAL MASS FLOW METER AND CONTROLLER DEVICE, METHOD, AND ASSOCIATED USES THEREOF
(73) Consejo Superior de Investigaciones Cientificas (CSIC)
(72) MOLINA FERNÁNDEZ, Juan
ESCOBAR ALCÓN, Javier Enrique
SAN PAULO HERNANDO, Álvaro
RUZ MARTÍNEZ, José Jaime
TAMAYO DE MIGUEL, Francisco Javier
CALLEJA GÓMEZ, Montserrat
KOSAKA MONTEIRO, Priscila
GIL SANTOS, Eduardo
MALVAR VIDAL, Óscar

(51) G01F 15/075
E03B 7/07
G01F 15/063
G01F 15/00
(11) EP4345425
(21) EP23198444.4
(47) 29.01.2025
(22) 20.09.2023
(54) WATER CONSUMPTION MONITORING AND OPTIMIZATION
(73) Sagemcom Energy & Telecom SAS
(72) TEBOULLE, Henri
(31) 2209901
(32) 29.09.2022
(33) France

(51) G01F 23/00
E03B 7/07
E03B 1/04
F16L 41/00
F16L 41/02
(11) EP4019910
(21) EP20461602.3
(47) 29.01.2025
(22) 22.12.2020
(54) FLUID LEVEL SENSING ASSEMBLY FOR MOTORISED VALVE
(73) Goodrich Corporation
(72) KUROWSKA, Agata
KROCZEK, Piotr
SAPIJA, Dariusz

(51) G01F 23/284
H01H 29/00
(11) EP3729014
(21) EP18822468.7
(47) 29.01.2025
(87) GB2018053643
27.06.2019
(22) 17.12.2018
(54) IMPROVEMENTS IN OR RELATING TO INTERFACE DETECTION
(73) Rosemount Tank Radar AB
(72) ZHANG, Jingdong
(31) 201721252
(32) 19.12.2017
(33) United Kingdom

(51) G01G 19/03
(11) EP4198464
(21) EP21216108.7
(47) 29.01.2025
(22) 20.12.2021
(54) CONVEYOR BELT SCALE WITH METAL DETECTOR
(73) Bizerba SE & Co. KG
(72) Kern, Thomas

(51) G01H 1/00
G01H 3/08
F03D 17/00
F03D 80/70
(11) EP4234927
(21) EP23173870.9
(47) 29.01.2025
(22) 04.04.2018
(54) CONDITION MONITORING SYSTEM AND WIND TURBINE COMPRISING SAME
(73) NTN Corporation
(72) HATAKEYAMA, Wataru
HASEBA, Takashi
MIYAZAKI, Makoto
SUZUKI, Yosuke
(31) 2018064000
2017079696
2017079695
2017079556
(32) 29.03.2018
13.04.2017
13.04.2017
13.04.2017
(33) Japan
Japan
Japan
Japan

(51) G01H 1/00
G01H 3/08
F03D 17/00
F03D 80/70
(11) EP4245992
(21) EP23174200.8
(47) 29.01.2025
(22) 04.04.2018
(54) CONDITION MONITORING SYSTEM AND WIND TURBINE COMPRISING SAME
(73) NTN Corporation
(72) HASEBA, Takashi
HATAKEYAMA, Wataru
MIYAZAKI, Makoto
SUZUKI, Yosuke
(31) 2018064000
2017079696
2017079695
2017079556
(32) 29.03.2018
13.04.2017
13.04.2017
13.04.2017
(33) Japan
Japan
Japan
Japan

(51) G01H 9/00
G01D 5/26
G02B 6/26
G02B 6/36
(11) EP3721188
(21) EP18811876.4
(47) 29.01.2025
(87) EP2018084237
13.06.2019
(22) 10.12.2018
(54) OPTICAL FIBER BASED ORGANIC CANTILEVER WITH INTEGRATED TRANSDUCTION
(73) Université de Bordeaux
Institut Polytechnique de Bordeaux
Université de Technologie de Compiègne
Centre National de la Recherche Scientifique
(72) AYELA, Cédric
BOKELOH, Frank
HAUPT, Karsten
(31) 18162383
17306732
(32) 16.03.2018
08.12.2017
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) G01J 1/02
G01N 21/958
H01J 5/00
H02S 50/00
G01N 21/88
G01N 21/95
G01N 21/94
G01J 5/00
(11) EP3482194
(21) EP17737915.3
(47) 29.01.2025
(87) NL2017050448
11.01.2018
(22) 04.07.2017
(54) METHOD AND DEVICE DETERMINING SOILING OF A SHIELD
(73) OTT HydroMet B.V.
(72) VAN MECHELEN, Xander Olivier
JAUS, Joachim Christian
MES, Joop
(31) 2018484
2017108
(32) 08.03.2017
05.07.2016
(33) Netherlands
Netherlands

(51) G01J 1/04
G01J 1/06
G01J 1/42
G01J 1/44
G01S 7/481
G01S 17/89
G02B 6/42
G01J 1/02
(11) EP3548853
(21) EP17876751.3
(47) 29.01.2025
(87) US2017064367
07.06.2018
(22) 02.12.2017
(54) WAVEGUIDE DIFFUSER FOR LIGHT DETECTION USING AN APERTURE
(73) Waymo LLC
(72) HUTCHISON, David
DROZ, Pierre-Yves
(31) 201615368579
(32) 03.12.2016
(33) United States of America

(51) G01J 3/26
G01J 3/28
(11) EP3596434
(21) EP17828909.6
(47) 29.01.2025
(87) EP2017084158
28.06.2018
(22) 21.12.2017
(54) OPTICAL SYSTEM
(73) CSEM Centre Suisse d'Electronique et de Microtechnique SA - Recherche et Développement
(72) STANLEY, Ross
DUNBAR, Liza Andrea
CHEBIRA, Amina
PAD, Pedram
(31) PCT/EP2016/082054
(32) 21.12.2016
(33) World Intellectual Property Office (WIPO)

(51) G01J 3/28
G01N 15/14
G01J 3/44
G01J 3/12
(11) EP3671148
(21) EP19216383.0
(47) 29.01.2025
(22) 16.12.2019
(54) A MULTICOLOR SENSOR FOR FLOW CYTOMETRY
(73) Imec VZW
(72) VERELLEN, Niels
VAN DORPE, Pol
PEUMANS, Peter
(31) 18214403
(32) 20.12.2018
(33) European Patent Office (EPO)

(51) G01J 3/52
G01N 21/27
G02B 21/34
G02B 5/20
G01J 3/02
(11) EP3739311
(21) EP20182419.0
(47) 29.01.2025
(22) 30.03.2017
(54) CALIBRATION SLIDE GLASS
(73) Dai Nippon Printing Co., Ltd.
(72) KAJIMURA, Yoichi
MITANI, Shota
MIZUNO, Hitoshi
TAGUCHI, Kunio
SASAGAWA, Yasushi
SAHARA, Takahiro
OGINO, Yoshihiko
(31) 2016072002
2016071831
(32) 31.03.2016
31.03.2016
(33) Japan
Japan

(51) G01J 5/00
G01J 5/80
(11) EP4264210
(21) EP21823375.7
(47) 29.01.2025
(87) IB2021061437
23.06.2022
(22) 08.12.2021
(54) ESTIMATION OF THE TEMPERATURE OF A STEEL PRODUCT
(73) ArcelorMittal

(72) LE NOC, Gwenaël
FERTE, Morgan
MICQUE, Noëlle
(31) PCT/IB2020/061937
(32) 15.12.2020
(33) World Intellectual Property Office (WIPO)

(51) G01J 5/08
G01J 5/12
G01J 5/04
G01J 5/0802
G01J 5/10
H01L 27/146
(11) EP3997428
(21) EP20749810.6
(47) 29.01.2025
(87) EP2020069354
14.01.2021
(22) 09.07.2020
(54) METHOD FOR FABRICATING A HIGH-RESOLUTION THERMAL INFRARED SENSOR ARRAY IN A VACUUM-FILLED WAFER-LEVEL PACKAGE
(73) Heimann Sensor GmbH
(72) HERRMANN, Frank
SIMON, Marion
SCHIEFERDECKER, Jörg
LENEKE, Wilhelm
FORG, Bodo
SCHMIDT, Christian
SCHNORR, Michael
(31) 102019118586
(32) 09.07.2019
(33) Germany

(51) G01K 1/024
G01K 15/00
G01K 3/08
G06Q 10/0832
(11) EP4296639
(21) EP22179961.2
(47) 29.01.2025
(22) 20.06.2022
(54) TEMPERATURE SENSOR TESTING
(73) Carrier Corporation
(72) BEAUFRERE, FLORIAN

(51) G01K 1/14
G01K 7/02
(11) EP3324163
(21) EP16200123.4
(47) 29.01.2025
(22) 22.11.2016
(54) TEMPERATURE PROBE FOR DOMESTIC OVEN AND DOMESTIC OVEN USING SUCH PROBE
(73) Whirlpool Corporation
(72) Giuliani, Marco
Ghiglieri, Giulio
Pastore, Cristiano
Nava, Riccardo

(51) G01K 7/32
G01K 15/00
(11) EP4004509
(21) EP20846630.0
(47) 29.01.2025
(87) IL2020050840
04.02.2021
(22) 29.07.2020
(54) ON-DIE THERMAL SENSING NETWORK FOR INTEGRATED CIRCUITS
(73) PROTEANTECS LTD.
(72) TANASRA, Faten
FAYNEH, Eyal
WEINTROB, Inbar
DAVID, Yahel
REDLER, Guy
LANDMAN, Evelyn
(31) 201962879625 P
(32) 29.07.2019
(33) United States of America

(51) G01K 17/08
B01J 19/00
B01F 25/313
B01F 25/431
B01F 35/21
B01F 35/92
G01N 25/48
(11) EP3932531
(21) EP20183838.0
(47) 29.01.2025
(22) 02.07.2020
(54) CONTINUOUS REACTION CALORIMETER
(73) Fluitec Invest AG
(72) Merkel, Norbert
Andreoli, Silvano
Moser, Marlies
Hodler, Micha
Rosasco, Esteban
Georg, Alain

(51) G01L 1/18
H01L 29/84
G01L 9/00
G01L 1/22
G01P 15/12
(11) EP3848987
(21) EP19858272.8
(47) 29.01.2025
(87) JP2019034672
12.03.2020
(22) 03.09.2019
(54) ORGANIC SEMICONDUCTOR ELEMENT, STRAIN SENSOR, VIBRATION SENSOR, AND MANUFACTURING METHOD FOR ORGANIC SEMICONDUCTOR ELEMENT
(73) The University of Tokyo
(72) TAKEYA, Junichi
YAEGASHI, Keita
WATANABE, Shunichiro
YAMASHITA, Yu
(31) 2018165519
(32) 04.09.2018
(33) Japan

(51) G01L 5/00
G01L 5/107
B65H 18/20
B65H 23/00
(11) EP4288753
(21) EP22706909.3
(47) 29.01.2025
(87) IB2022050990
11.08.2022
(22) 04.02.2022
(54) TESTING FILM WITH DETERMINATION OF FORCE
(73) ESTL NV
(72) DENDAUW, Jelle Carl
BAEYENS, Kristof Karel Maria
(31) 202105091
(32) 05.02.2021
(33) Belgium

(51) G01L 5/28
B60W 30/09
G01M 17/007
B60W 40/10
(11) EP4300064
(21) EP22181544.2
(47) 29.01.2025
(22) 28.06.2022
(54) MEASURING STOPPING DISTANCE OF A WORKING MACHINE WITH AN APPARATUS
(73) Sandvik Mining and Construction Oy
(72) LEHTONEN, Jarkko
RAUHALA, Riku

(51) G01L 9/00
(11) EP3671161
(21) EP18215759.4
(47) 29.01.2025
(22) 21.12.2018
(54) MOULD AND METHOD FOR MANUFACTURING THE SAME
(73) Exentis Knowledge GmbH
(72) Schmitt, Rafael
Vasic, Srdan

(51) G01L 9/00
G01L 19/06
G01L 19/14
(11) EP3943904
(21) EP21203632.1
(47) 29.01.2025
(22) 20.10.2021
(54) PRESSURE SENSOR APPARATUS
(73) Melexis Technologies NV
(72) CLAESEN, Karel
OTTE, Laurent

(51) G01L 19/00
G01L 19/08
G01L 19/14
(11) EP4198477
(21) EP22212686.4
(47) 29.01.2025
(22) 12.12.2022
(54) PRESSURE GAUGE AND FLUID PRESSURE SYSTEM
(73) SMC Corporation
(72) SUZUKI, Takahiro
(31) 2021204698
(32) 17.12.2021
(33) Japan

(51) G01L 19/00
G01L 19/14
(11) EP3978888
(21) EP21210330.3
(47) 29.01.2025
(22) 24.11.2021
(54) PRESSURE SENSOR MODULE APPARATUS AND METHOD OF MANUFACTURING THE SAME
(73) Melexis Technologies NV

(72) CLAESEN, Karel
OTTE, Laurent
(51) G01L 19/06
(11) EP4202392
(21) EP22203343.3
(47) 29.01.2025
(22) 24.10.2022
(54) VESSEL COMPRISING A MEMBRANE FOR USE WITH HYDROGEN-CONTAINING FLUID MEDIA
(73) Kistler Holding AG
(72) Mastrogiacomo, Giovanni
Märki, Hans Beat
Cadonau, Thomas
(31) 21217511
(32) 23.12.2021
(33) European Patent Office (EPO)

(51) G01L 19/14
G01L 13/06
G01L 19/06
(11) EP3933368
(21) EP20762939.5
(47) 29.01.2025
(87) JP2020007034
03.09.2020
(22) 21.02.2020
(54) DIFFERENTIAL PRESSURE DETECTION DEVICE
(73) YAMASHIN FILTER CORP.
(72) SASAKI, Nobuki
OSHITA, Tatsuhiro
NOMOTO, Megumi
(31) 2019031227
(32) 25.02.2019
(33) Japan

(51) G01L 25/00
G01L 3/20
G01L 5/24
(11) EP4256298
(21) EP21819982.6
(47) 29.01.2025
(87) IB2021061221
09.06.2022
(22) 02.12.2021
(54) METHOD TO CHECK THE CORRECT FUNCTIONING OF A TIGHTENING TOOL
(73) Atlas Copco Industrial Technique AB
(72) AZZONE, Daniele
CELICO FADINI, Gianmaria
GEROSA, Roberto
CATTANEO, Massimiliano
(31) 202000029621
(32) 03.12.2020
(33) Italy

(51) G01L 25/00
H02K 49/10
(11) EP4056976
(21) EP22159611.7
(47) 29.01.2025
(22) 02.03.2022
(54) PERTURBATOR SYSTEMS AND METHODS
(73) Baker Hughes Oilfield Operations LLC
(72) HOWARD, Brian F.
O'CONNOR, David R.
HUTCHINSON, Patrick
(31) 202217650776
202163158011 P
(32) 11.02.2022
08.03.2021
(33) United States of America
United States of America

(51) G01M 3/28
F15B 19/00
F17D 5/02
F17D 5/06
(11) EP4130701
(21) EP22191262.9
(47) 29.01.2025
(22) 26.11.2019
(54) GAS NETWORK AND METHOD FOR DETECTING LEAKS IN A GAS NETWORK UNDER PRESSURE OR UNDER VACUUM
(73) Atlas Copco Airpower, naamloze vennootschap
(72) LOUARROUDI, Ebrahim
GEUENS, Philippe Eric
(31) 201805861
(32) 07.12.2018
(33) Belgium

(51) G01M 3/36
G01M 13/005
(11) EP3957968
(21) EP20192256.4
(47) 29.01.2025
(22) 21.08.2020
(54) FLEXIBLE LID SEAL INTEGRITY SENSOR
(73) Teledyne Instruments, Inc.
(72) Wright, Stephen
Meade, Eric

(51) G01M 13/045
G01H 1/00
G01M 99/00
(11) EP3306294
(21) EP17202870.6
(47) 29.01.2025
(22) 22.12.2009
(54) AN ANALYSIS SYSTEM
(73) S.P.M. Instrument AB
(72) HEDIN, Lars-Olov Elis
(31) 0950311
0850178
175508 P
(32) 05.05.2009
22.12.2008
05.05.2009
(33) Sweden
Sweden
United States of America

(51) G01M 99/00
G01M 17/08
B61D 27/00
(11) EP4392755
(21) EP22782696.3
(47) 29.01.2025
(87) EP2022075205
06.04.2023
(22) 12.09.2022
(54) METHOD AND TEST ARRANGEMENT FOR TESTING AN AIR-CONDITIONING UNIT
(73) Siemens Mobility GmbH
(72) SCHMITZ, Markus
KASAP, Irfan
(31) 102022200266
102021211033
(32) 13.01.2022
30.09.2021
(33) Germany
Germany

(51) G01N 1/04
B23H 7/28
B23H 7/30
G21C 17/01
(11) EP3669159
(21) EP18756411.7
(47) 29.01.2025
(87) EP2018072176
21.02.2019
(22) 16.08.2018
(54) EROSION DEVICE FOR PERFORMING AN EROSION PROCESS FOR TAKING MATERIAL SAMPLES OF METAL COMPONENTS OF NUCLEAR POWER PLANTS, USE OF AN EROSION DEVICE, AND METHOD FOR TAKING MATERIAL SAMPLES
(73) Framatome GmbH
(72) MÜLLER, Harald
NORDHARDT, Günter
ZEIKE, Wolfgang
(31) 102017118935
(32) 18.08.2017
(33) Germany

(51) G01N 1/08
G01N 1/04
G01N 1/28
(11) EP4352483
(21) EP22732224.5
(47) 29.01.2025
(87) EP2022065711
15.12.2022
(22) 09.06.2022
(54) APPARATUS COMPRISING AN INTERFACE FOR DETACHABLE COUPLING OF A DISSECTION TOOL
(73) Xyall B.V.
(72) WIMBERGER-FRIEDL, Reinhold
VAN TUIJL, Martijn
(31) 21178992
(32) 11.06.2021
(33) European Patent Office (EPO)

(51) G01N 1/12
G01N 33/20
(11) EP4235172
(21) EP23170346.3
(47) 29.01.2025
(22) 12.06.2018
(54) MOLTEN METAL SAMPLERS FOR HIGH AND LOW OXYGEN APPLICATIONS
(73) Heraeus Elektro-Nite International N.V.
(72) Beyens, Dries
Mingneau, Frank
Vaes, Hilaire
Neyens, Guido
Doets, Jan

(51) G01N 1/28
G01N 1/31
G01N 15/14
G01N 15/1433

G01N 35/00
G01N 35/02
G01N 35/04
(11) EP4293337
(21) EP23179181.5
(47) 29.01.2025
(22) 14.06.2023
(54) CONTROL METHOD FOR TEST SYSTEM, AND TEST SYSTEM
(73) SYSMEX CORPORATION
(72) ASAHARA, Tomoyuki
SHINABE, Seiya
KAWAKAMI, Daiki
(31) 2022098427
(32) 17.06.2022
(33) Japan

(51) G01N 15/08
G01N 37/00
C12Q 1/02
G01N 33/15
B01L 3/00
(11) EP4016047
(21) EP20865968.0
(47) 29.01.2025
(87) JP2020018941
25.03.2021
(22) 12.05.2020
(54) METHOD FOR EVALUATING PERMEABILITY OF POROUS FILM, METHOD FOR EVALUATING CELL AND METHOD FOR EVALUATING DRUG
(73) FUJIFILM Corporation
(72) OKU, Keisuke
OBA, Takahiro
MIYOSHI, Hayato
(31) 2019169806
(32) 18.09.2019
(33) Japan

(51) G01N 15/14
G01N 15/00
G01N 15/02
B03C 5/02
G01N 30/00
B01L 3/00
B03C 5/00
(11) EP3842146
(21) EP20159969.3
(47) 29.01.2025
(22) 28.02.2020
(54) METHOD AND APPARATUS FOR CONTINUOUSLY SEPARATING COMPONENTS FROM A SAMPLE
(73) Imec VZW
Katholieke Universiteit Leuven KU Leuven Research & Development
(72) SET, Ying Ting
STASSEN, Andim
LIU, Chengxun
(31) 19219882
19219885
(32) 27.12.2019
27.12.2019
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) G01N 15/1404
G01N 15/1434
G01N 15/14
C12M 1/34
C12Q 1/04
G01N 15/10
(11) EP3933377
(21) EP20762318.2
(47) 29.01.2025
(87) JP2020005846
03.09.2020
(22) 14.02.2020
(54) CELL OBSERVATION SYSTEM AND CELL OBSERVATION METHOD
(73) Hamamatsu Photonics K.K.
National University Corporation Hamamatsu University School of Medicine
(72) KIKUCHI Hirotoshi
YAMASHITA Daisuke
HIROTSU Amane
OKAZAKI Shigetoshi
YAMADA Hidenao
(31) 2019033782
(32) 27.02.2019
(33) Japan

(51) G01N 15/1434
G01N 15/00
G01N 15/10
G02B 21/00
G02B 21/34
G02B 21/14
(11) EP4127653
(21) EP21713655.5
(47) 29.01.2025
(87) EP2021057103
30.09.2021
(22) 19.03.2021
(54) CHARACTERIZATION OF GENE THERAPY VECTORS
(73) Cytiva BioProcess R&D AB
(72) MIELL, Matthew
(31) 202004254
(32) 24.03.2020
(33) United Kingdom

(51) G01N 17/02
(11) EP3351924
(21) EP16845770.3
(47) 29.01.2025
(87) ES2016000097
23.03.2017
(22) 12.09.2016
(54) SENSOR FOR MONITORING CORROSION BY MEANS OF MEASUREMENTS OF ELECTROCHEMICAL IMPEDANCE AND NOISE AND OF RESISTANCE TO POLARISATION AND USE OF SAME
(73) Universidad Complutense De Madrid
(72) PEREZ TRUJILLO, Francisco Javier
SANTOS BARAHONA, Hector
GARCÍA MARTÍN, Gustavo
DE MIGUEL GAMO, María Teresa
LASANTA CARRASCO, María Isabel
(31) 201500674
(32) 18.09.2015
(33) Spain

(51) G01N 21/05
G01N 21/03
G01N 21/31
G01N 21/33
(11) EP4127658
(21) EP21716292.4
(47) 29.01.2025
(87) EP2021057798
07.10.2021
(22) 25.03.2021
(54) OPTICAL SENSOR FOR DETECTING A GAS, USE THEREOF, AND MEANS OF TRANSPORTATION COMPRISING SUCH A SENSOR
(73) VOLKSWAGEN AG
(72) VOGEL, Alexander
ZLATKOV, Branislav
KIEFER, Matthias
DJINOVIC, Zoran
(31) 102020108768
(32) 30.03.2020
(33) Germany

(51) G01N 21/17
(11) EP4330655
(21) EP22727047.7
(47) 29.01.2025
(87) EP2022061598
03.11.2022
(22) 29.04.2022
(54) PHOTOACOUSTIC GAS SENSOR, AND METHOD FOR PRODUCING SAME
(73) Technische Universität Dortmund
(72) PALZER, Stefan
(31) 102021111012
(32) 29.04.2021
(33) Germany

(51) G01N 21/17
G01N 21/3504
G01J 3/02
G01N 21/61
(11) EP4421477
(21) EP23158197.6
(47) 29.01.2025
(22) 23.02.2023
(54) OPTICAL RADIATION DEVICE PACKAGE
(73) Infineon Technologies AG
(72) MITTEREDER, Tobias
TUMPOLD, David
PAVIER, Mark
WESTMARLAND, Paul
QI, Siyuan
KRUMBEIN, Ulrich
GLACER, Christoph
RICHARD, Hugh

(51) G01N 21/25
(11) EP4092404
(21) EP22171870.3
(47) 29.01.2025
(22) 05.05.2022
(54) MICROPLATE READING DEVICE
(73) BMG Labtech GmbH
(72) Herzog, Nils
(31) 102021112938
(32) 19.05.2021
(33) Germany

(51) G01N 21/25
G01N 35/10
G01N 21/31
(11) EP4078144
(21) EP20803103.9
(47) 29.01.2025
(87) EP2020080387

24.06.2021
(22) 29.10.2020
(54) LABORATORY SYSTEM
(73) Hamilton Bonaduz AG
(72) WULFMEYER, Timo
(31) 102019134846
(32) 18.12.2019
(33) Germany

(51) G01N 21/35
G01N 21/552
G02B 6/12
(11) EP4170321
(21) EP21204001.8
(47) 29.01.2025
(22) 21.10.2021
(54) OPTICAL RESONATOR SYSTEM, NARROWBAND MID-INFRARED RADIATION SOURCE AND FLUID SENSOR
(73) Infineon Technologies AG
(72) PUEHRINGER, Gerald
JANNESARI, Reyhaneh
STOCKER, Gerald
FLEURY, Clement
JAKOBY, Bernhard
GRILLE, Thomas
CONSANI, Cristina
TORTSCHANOFF, Andreas

(51) G01N 21/3581
G01N 21/3563
G01N 21/23
G01N 21/84
(11) EP3835760
(21) EP20211590.3
(47) 29.01.2025
(22) 03.12.2020
(54) SYSTEMS AND METHODS OF ASSESSING A COATING MICROSTRUCTURE
(73) General Electric Company
(72) MANDAYAM, Shyamsunder
SEN GUPTA, Esha
(31) 201916707493
(32) 09.12.2019
(33) United States of America

(51) G01N 21/3581
G01N 21/952
G01N 21/88
G01N 17/00
G01N 25/72
G05B 23/02
(11) EP3894840
(21) EP19828522.3
(47) 29.01.2025
(87) US2019065477
18.06.2020
(22) 10.12.2019
(54) INSPECTION AND FAILURE DETECTION OF CORROSION UNDER FIREPROOFING INSULATION USING A HYBRID SENSORY SYSTEM
(73) Saudi Arabian Oil Company
(72) CUNNINGHAM, Vincent
AMER, Ayman
AL SHEHRI, Ali
(31) 201816214615
(32) 10.12.2018
(33) United States of America

(51) G01N 21/47
G01N 21/49
A61B 5/1455
A61B 5/145
G01N 21/31
A61B 5/024
A61B 5/02
(11) EP3458836
(21) EP17724856.4
(47) 29.01.2025
(87) GB2017000068
23.11.2017
(22) 09.05.2017
(54) NON-INVASIVE BLOOD ANALYSIS
(73) LMD IP, LLC
(72) ELLIOTT, Christopher
JONES, Mark-Eric
(31) 201608781
(32) 19.05.2016
(33) United Kingdom

(51) G01N 21/84
G06T 7/00
G01B 11/24
G01B 11/30
(11) EP4361613
(21) EP21946909.5
(47) 29.01.2025
(87) IB2021000416
29.12.2022
(22) 21.06.2021
(54) PAINTING EVALUATION DEVICE AND PAINTING EVALUATION METHOD
(73) NISSAN MOTOR CO., LTD.
Renault s.a.s
(72) NAGAYAMA, Mori
UEHARA, Yoshitaka
YAMAZAKI, Shota
KAITO, Takahiro
YUGE, Kentarou

(51) G01N 21/89
B65B 57/04
B65B 57/00
B65B 5/06
B65B 57/08
G05B 19/418
(11) EP4198501
(21) EP22212502.3
(47) 29.01.2025
(22) 09.12.2022
(54) BAG PROCESSING APPARATUS
(73) Pacraft Co., Ltd.
(72) Sakamoto, Takuya
Nagai, Hiroaki
(31) 2021204573
(32) 16.12.2021
(33) Japan

(51) G01N 22/02
(11) EP4118421
(21) EP21711378.6
(47) 29.01.2025
(87) IB2021052038
16.09.2021
(22) 11.03.2021
(54) SYSTEM AND METHOD FOR SPATIALLY DETECTING ANY FOREIGN BODIES WITHIN A PRODUCT ON THE BASIS OF DIELECTRIC CHARACTERISTICS OF SAID PRODUCT
(73) FT System S.r.l.
Politecnico Di Torino
(72) TOBON VASQUEZ, Jorge Alberto
TURVANI, Giovanna
CASU, Mario Roberto
RICCI, Marco
FORESTELLI, Fabio
VIPIANA, Francesca
(31) 202000005458
(32) 13.03.2020
(33) Italy

(51) G01N 24/08
G01N 24/10
G01R 33/38
G01R 33/60
G01R 33/383
G01R 33/389
G07D 7/04
H01F 7/02
H01F 3/10
(11) EP4264245
(21) EP21839330.4
(47) 29.01.2025
(87) EP2021025494
23.06.2022
(22) 13.12.2021
(54) SENSOR ELEMENT AND DEVICE FOR AUTHENTICATING A DATA CARRIER HAVING A SPIN RESONANCE FEATURE
(73) Giesecke+Devrient Currency Technology GmbH
(72) HUBER, Stephan
SCHULLER, Christian
(31) 102020007707
(32) 16.12.2020
(33) Germany

(51) G01N 24/08
G01R 33/44
G01V 3/14
(11) EP4158323
(21) EP21718311.0
(47) 29.01.2025
(87) US2021022826
02.12.2021
(22) 17.03.2021
(54) MATERIAL DETECTION METHOD AND SYSTEM
(73) Raytheon Company
(72) FRAUNDORFER, Joseph J.
DOLGIN, Benjamin P.
LAVEDAS, Thomas G.
(31) 202063030048 P
(32) 26.05.2020
(33) United States of America

(51) G01N 27/22
(11) EP3825683
(21) EP20214733.6
(47) 29.01.2025
(22) 28.06.2018
(54) SYSTEM AND METHOD FOR ANALYTE SENSING IN PHYSIOLOGICAL GAS SAMPLES
(73) Regents of the University of Minnesota
(72) KELLY, David W.
NELSON, Justin Theodore

SHERWOOD, Gregory J.
(31) 2019492
201762533916 P
(32) 06.09.2017
18.07.2017
(33) Netherlands
United States of America

(51) G01N 27/36
G01N 27/333
G01N 27/30
G01N 27/414
G01N 27/416
(11) EP3568692
(21) EP17825407.4
(47) 29.01.2025
(87) EP2017081993
14.06.2018
(22) 08.12.2017
(54) ELECTROCHEMICAL SENSOR AND METHOD FOR FABRICATION THEREOF
(73) Mettler-Toledo GmbH
(72) LIMON PETERSEN, Juan
RUTZ, Andreas
(31) 16203103
(32) 09.12.2016
(33) European Patent Office (EPO)

(51) G01N 27/404
(11) EP4253949
(21) EP21897369.1
(47) 29.01.2025
(87) JP2021009326
02.06.2022
(22) 09.03.2021
(54) ELECTROCHEMICAL OXYGEN SENSOR AND METHOD FOR PRODUCING SAME
(73) Maxell, Ltd.
(72) IWANAMI Yoshiharu
WATANABE Mitsutoshi
KITAZAWA Naohisa
(31) 2020195501
(32) 25.11.2020
(33) Japan

(51) G01N 27/417
(11) EP4139670
(21) EP21719549.4
(47) 29.01.2025
(87) EP2021059403
28.10.2021
(22) 12.04.2021
(54) METHOD FOR DETERMINING AN OXYGEN CONCENTRATION IN A WASTE GAS
(73) Robert Bosch GmbH
(72) FIEDLER, Michael
DAECKE, Dirk
(31) 102020205020
(32) 21.04.2020
(33) Germany

(51) G01N 27/48
G01N 33/18
(11) EP4180805
(21) EP21383025.0
(47) 29.01.2025
(22) 12.11.2021
(54) SCREEN-PRINTED ELECTRODE, MANUFACTURING METHOD THEREOF, ELECTROCHEMICAL SENSOR COMPRISING SAID ELECTRODE FOR DETECTING WATER POLLUTANTS, AND OPERATING METHOD OF SAID SENSOR
(73) Consejo Superior de Investigaciones Cientificas
(72) GICH GARCÍA, Martí
FERNÁNDEZ SÁNCHEZ, César
DUAN, Wenchao

(51) G01N 29/024
G01N 13/02
G01N 29/036
G01N 29/24
(11) EP4392773
(21) EP22836317.2
(47) 29.01.2025
(87) GB2022053350
29.06.2023
(22) 21.12.2022
(54) ANALYTICAL METHOD, CORRESPONDING CONTROLLER AND COMPUTER PROGRAM PRODUCT
(73) Apoha Limited
(72) SHRIVASTAVA, Shamit
(31) 202118692
(32) 21.12.2021
(33) United Kingdom

(51) G01N 29/024
G01N 29/30
G01N 29/32
(11) EP3561502
(21) EP17885208.3
(47) 29.01.2025
(87) JP2017045260
28.06.2018
(22) 18.12.2017
(54) GAS CONCENTRATION MEASURING DEVICE AND METHOD OF CALIBRATING SAME
(73) Japan Radio Co., Ltd.
Ueda Japan Radio Co., Ltd.
Nisshinbo Holdings Inc.
(72) ITO, Isao
TORIYAMA, Yasuhiro
MATSUBAYASHI, Katsuyuki
SAKAGUCHI, Osamu
(31) 2016247448
(32) 21.12.2016
(33) Japan

(51) G01N 29/04
G01N 29/22
G01N 29/265
(11) EP4290230
(21) EP22382558.9
(47) 29.01.2025
(22) 10.06.2022
(54) ULTRASONIC INSPECTION MACHINE FOR PERFORMING NON-DESTRUCTIVE ULTRASONIC INSPECTIONS ON WIND TURBINE BLADES
(73) Endity Solutions S.L.
(72) Castro Casas, Ivan
Aizpurua Maestre, Iratxe
Gutierrez, Hector

(51) G01N 30/06
(11) EP4070089
(21) EP20825243.7
(47) 29.01.2025
(87) IB2020061541
10.06.2021
(22) 04.12.2020
(54) CHELATOR BASED ELUENTS FOR SOLID PHASE EXTRACTION OF PHOSPHORYLATED COMPOUNDS
(73) Waters Technologies Corporation
(72) LAUBER, Matthew
DONEGAN, Michael
LIU, Xiaoxiao
(31) 201962944153 P
(32) 05.12.2019
(33) United States of America

(51) G01N 30/32
G01N 33/00
(11) EP4231009
(21) EP22157753.9
(47) 29.01.2025
(22) 21.02.2022
(54) PNEUMATIC MODULE FOR GAS ANALYSIS DEVICE, AND MANUFACTURING METHOD AND COMPUTER PROGRAM PRODUCT THEREFOR
(73) Siemens Aktiengesellschaft
(72) RICHTER, Josef
STRAUCH, Piotr

(51) G01N 30/60
B01D 15/10
G01N 30/30
(11) EP3285069
(21) EP17178189.1
(47) 29.01.2025
(22) 10.12.2012
(54) ESTABLISHING FLUIDIC CONNECTIONS BETWEEN CHROMATOGRAPHY COMPONENTS
(73) Waters Technologies Corporation
(72) FISK, Raymond
HILL, Ryan
LEVEILLE, Wade
BELANGER, Jonathan
KIRBY, Peter
PEROZA, Marcos
TRUDEAU, Steven
(31) 201161578257 P
(32) 21.12.2011
(33) United States of America

(51) G01N 30/86
(11) EP4042153
(21) EP20786567.6
(47) 29.01.2025
(87) EP2020078119
15.04.2021
(22) 07.10.2020
(54) FLUID SAMPLE CLASSIFICATION
(73) Cytiva Sweden AB
(72) BJERNELD, Erik
(31) 201914575
(32) 09.10.2019
(33) United Kingdom

(51) G01N 30/86
A61D 17/00
G01N 30/72
G01N 33/497

(11) EP4153992
(21) EP21808871.4
(47) 29.01.2025
(87) AU2021050481
25.11.2021
(22) 20.05.2021
(54) METHOD FOR DETERMINING THE PREGNANCY STATE OF AN ANIMAL
(73) Agscent Pty Ltd
(72) DARLINGTON, Bronwyn
(31) 2020901611
(32) 20.05.2020
(33) Australia

(51) G01N 33/00
F02D 41/02
G01N 33/22
G01N 27/18
(11) EP4370918
(21) EP22768760.5
(47) 29.01.2025
(87) EP2022073442
06.04.2023
(22) 23.08.2022
(54) METHOD AND SYSTEMS FOR DETERMINING A MEASUREMENT ERROR IN A HYDROGEN CONCENTRATION MEASUREMENT
(73) Siemens Aktiengesellschaft
(72) HÖRNER, Thomas
(31) 21200215
(32) 30.09.2021
(33) European Patent Office (EPO)

(51) G01N 33/08
G01N 1/10
(11) EP4176256
(21) EP21742539.6
(47) 29.01.2025
(87) NL2021050427
13.01.2022
(22) 05.07.2021
(54) EGG DETERMINING METHOD AND DEVICE
(73) In Ovo Holding B.V.
(72) BRUINS, Wouter Sebastiaan
TEUNISSEN, Sebastiaan Frans
DROUIN, Nicolas Francois Pierre
HANKEMEIER, Thomas
STUTTERHEIM, Wil Marijn
(31) 2026004
(32) 05.07.2020
(33) Netherlands

(51) G01N 33/28
C10G 75/00
(11) EP4381290
(21) EP23723473.7
(47) 29.01.2025
(87) EP2023061117
02.11.2023
(22) 27.04.2023
(54) METHOD FOR DETERMINING A STANDARDISED SOOTING TENDENCY OF A SUBSTANCE MIXTURE, AND FOR DETERMINING REPRESENTATIVE INDICES FOR CALCULATING A TOTAL SOOTING TENDENCY INDEX
(73) VOLKSWAGEN AG
(72) BITTNER, Yvonne
KÖRTKE, Kerstin
(31) 102022110522
(32) 29.04.2022
(33) Germany

(51) G01N 33/487
(11) EP4052033
(21) EP20797746.3
(47) 29.01.2025
(87) EP2020080163
06.05.2021
(22) 27.10.2020
(54) ELECTROPHYSIOLOGICAL MEASURING APPARATUS AND MEASUREMENT METHOD FOR DETECTING AT LEAST ONE ELECTRICAL MEASURED VALUE OF A BIOLOGICAL CELL SAMPLE
(73) ChanPharm GmbH
(72) HERING, Steffen
(31) 102019129042
(32) 28.10.2019
(33) Germany

(51) G01N 33/49
A61B 5/15
G01N 33/72
(11) EP3999848
(21) EP19938267.2
(47) 29.01.2025
(87) US2019064636
28.01.2021
(22) 05.12.2019
(54) TANGENT FLOW HEMOLYSIS DETECTION BLOOD TESTING DEVICE
(73) Siemens Healthcare Diagnostics, Inc.
(72) SAMPRONI, Jennifer
LEDDEN, David
KAUFFMANN, Aaron
(31) 201962876211 P
(32) 19.07.2019
(33) United States of America

(51) G01N 33/543
C12Q 1/6804
C12Q 1/6841
(11) EP4092414
(21) EP22154515.5
(47) 29.01.2025
(22) 01.02.2022
(54) CONNECTOR, MARKER AND METHOD FOR ANALYSING BIOLOGICAL SAMPLES
(73) Leica Microsystems CMS GmbH
(72) Alsheimer, Soeren
(31) PCT/EP2021/087551
PCT/EP2021/087558
PCT/EP2021/073819
PCT/EP2021/066645
PCT/EP2021/063310
22153210
(32) 23.12.2021
23.12.2021
28.08.2021
18.06.2021
19.05.2021
25.01.2022
(33) World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)
European Patent Office (EPO)

(51) G01N 33/543
G01N 21/41
G01N 33/553
(11) EP3564675
(21) EP17886839.4
(47) 29.01.2025
(87) JP2017046393
05.07.2018
(22) 25.12.2017
(54) METAL RESIN COMPOSITE AND USE THEREOF
(73) NIPPON STEEL Chemical & Material Co., Ltd.
(72) ENOMOTO Yasushi
MATSUMURA Yasufumi
(31) 2016256913
(32) 28.12.2016
(33) Japan

(51) G01N 33/543
G01N 27/74
B01L 3/00
H01F 1/00
(11) EP3447492
(21) EP18191274.2
(47) 29.01.2025
(22) 26.11.2013
(54) METHOD FOR CAPTURING AND DETECTION WITHOUT WASHING OF A MOLECULE IN A SAMPLE
(73) Institut Polytechnique de Grenoble
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
(72) CUGAT, Orphée
BLAIRE, Guillaume
BRUCKERT, Franz
DEMPSEY, Nora
WEIDENHAUPT, Marianne
ZANINI, Luiz Fernando
REYNE, Gilbert
(31) 1350421
(32) 17.01.2013
(33) France

(51) G01N 33/58
G01N 33/86
(11) EP4276467
(21) EP23172990.6
(47) 29.01.2025
(22) 12.05.2023
(54) METHOD FOR OBTAINING INFORMATION ON VON WILLEBRAND FACTOR, MEASUREMENT SAMPLE PREPARATION METHOD, AND USE OF REAGENT KIT
(73) National University Corporation Hokkaido University
SYSMEX CORPORATION
(72) KINJO, Masataka
GANGULY, Akshay
RAMASWAMY, Lausonia
(31) 2022079618
(32) 13.05.2022
(33) Japan

(51) G01N 33/68
(11) EP4409297
(21) EP22800159.0
(47) 29.01.2025

(87) EP2022077433
06.04.2023
(22) 03.10.2022
(54) NOVEL METHOD FOR DETERMINING A CONCENTRATION OF N-TERMINAL PRO-HORMONE BNP (NT-PROBNP) IN A SAMPLE
(73) Gentian AS
(72) KNÜTTEL, Torsten
GUDIM, Ingvild
WEIKUM, Julia
SUNDREHAGEN, Erling
DAVID, Arnaud
(31) 202117492372
(32) 01.10.2021
(33) United States of America

(51) G01N 33/68
G01N 33/50
(11) EP3730943
(21) EP20177199.5
(47) 29.01.2025
(22) 08.04.2011
(54) B-CELL ANTIGEN PRESENTING CELL ASSAY
(73) University of Pittsburgh - Of the Commonwealth System of Higher Education
(72) SINDHI, Rakesh
ASHOKKUMAR, Chethan
(31) 32223410 P
(32) 08.04.2010
(33) United States of America

(51) G01N 33/92
(11) EP3903107
(21) EP19839675.6
(47) 29.01.2025
(87) IB2019061268
02.07.2020
(22) 23.12.2019
(54) METHOD FOR DETECTING THE PRESENCE AND QUANTITY OF THE LRP8 RECEPTOR AND OF ITS PROTEOLYTIC FRAGMENTS, DETECTION KIT AND RELATED ANTIBODIES
(73) Russo, Claudio
(72) IMPERLINI, Esther
MIGNOGNA, Donatella
RUSSO, Claudio
FODERA', Emanuele
INTRIERI, Mariano
GUERRA, Germano
MEDORO, Alessandro
PAGANO, Aldo
FLORIO, Tullio
BARTOLLINO, Silvia
DI MARCO, Roberto Maria Antonio
PORCILE, Carola
RAIMO, Gennaro
(31) 201800021157
(32) 27.12.2018
(33) Italy

(51) G01N 35/00
(11) EP3346274
(21) EP16841267.4
(47) 29.01.2025
(87) JP2016069634
09.03.2017
(22) 01.07.2016
(54) AUTOMATIC ANALYZER
(73) F. Hoffmann-La Roche AG
Hitachi High-Tech Corporation
(72) SUGIME Takayuki
OFENLOCH-HAEHNLE, Beatus
SASAKI Shunsuke
FAATZ Elke
IMAI Kenta
SUZUKI Toshiharu
MATSUBARA Shigeki
(31) 2015174285
(32) 04.09.2015
(33) Japan

(51) G01N 35/00
G01N 35/10
(11) EP4155736
(21) EP22188202.0
(47) 29.01.2025
(22) 02.08.2022
(54) ADAPTIVE LIGHT BARRIER PROCESSING
(73) Stratec SE
(72) Habrich, Thilo
(31) 202113627
(32) 24.09.2021
(33) United Kingdom

(51) G01N 35/02
G01N 35/04
G01N 35/10
G01N 35/00
(11) EP3961223
(21) EP20796400.8
(47) 29.01.2025
(87) JP2020004289
29.10.2020
(22) 05.02.2020
(54) AUTOMATIC ANALYSIS DEVICE
(73) Hitachi High-Tech Corporation
(72) YAMASHITA, Yoshihiro
NEHASHI, Fumiya
TANOUE, Hidetsugu
TAKADA, Eiichiro
FUKAYA, Masashi
(31) 2019085236
(32) 26.04.2019
(33) Japan

(51) G01P 1/02
G01D 11/30
G01C 21/26
G01P 15/00
G01C 19/5783
H05K 7/12
(11) EP4113126
(21) EP21760888.4
(47) 29.01.2025
(87) JP2021001253
02.09.2021
(22) 15.01.2021
(54) NAVIGATION DEVICE AND NAVIGATION DEVICE PRODUCTION METHOD
(73) JVCKENWOOD Corporation
(72) TANAKA, Hisaki
OKAMOTO, Kazumoto
MUKOYAMA, Takuya
(31) 2020033587
2020033583
(32) 28.02.2020
28.02.2020
(33) Japan
Japan

(51) G01P 1/08
G01P 13/02
(11) EP4198521
(21) EP22212232.7
(47) 29.01.2025
(22) 08.12.2022
(54) APPARATUSES, COMPUTER-IMPLEMENTED METHODS, AND COMPUTER PROGRAM PRODUCTS FOR GENERATING INTUITIVE DATA INDICATORS FOR VEHICLE USER INTERFACES
(73) Honeywell International Inc.
(72) MONTOYA, Roberto Gudino
KEBERLE, Kelsey Marie
CROUCH, Steven Curtis
(31) 202117644943
(32) 17.12.2021
(33) United States of America

(51) G01P 3/48
G01P 3/50
(11) EP4305430
(21) EP22713706.4
(47) 29.01.2025
(87) FR2022050421
15.09.2022
(22) 09.03.2022
(54) METHOD, DEVICE AND COMPUTER PROGRAM FOR ESTIMATING A SPEED OF A WHEELED VEHICLE
(73) SAFRAN
Institut National de Recherche en Informatique et en Automatique
(72) MARNISSI, Yosra
ABBOUD, Dany
BARRAU, Axel
LEIBER, Maxime
(31) 2102407
(32) 11.03.2021
(33) France

(51) G01P 5/24
(11) EP4390404
(21) EP22215917.0
(47) 29.01.2025
(22) 22.12.2022
(54) ACOUSTIC WIND MEASUREMENT
(73) Vaisala, OYJ
(72) KEITAANNIEMI, Joonas
LAUKKANEN, Samuli

(51) G01P 5/24
(11) EP4390405
(21) EP22215975.8
(47) 29.01.2025
(22) 22.12.2022
(54) ACOUSTIC WIND MEASUREMENT
(73) Vaisala, OYJ
(72) KEITAANNIEMI, Joonas

(51) G01P 13/02
B64D 43/02
G01D 5/26
(11) EP4187257
(21) EP22209407.0
(47) 29.01.2025

(22) 24.11.2022
(54) FLOW ANGLE SENSOR WITH IMAGE SENSOR
(73) ROSEMOUNT AEROSPACE INC.
(72) BURNS, Jeremy
RAMTHUN, Kent Allan
VENNELAKANTI, Venkata Sai Sudheer Kumar
DEVARAKONDA, Naveen Kumar
REID, Alexander N.
JEGATHEESWARAN, Karthik
VALLAMKONDU, Aswin Kumar
(31) 202141055481
(32) 30.11.2021
(33) India

(51) G01R 15/20
G01R 31/34
H02K 11/27
H02K 11/33
H02K 17/30
(11) EP4323777
(21) EP22723355.8
(47) 29.01.2025
(87) EP2022059943
20.10.2022
(22) 13.04.2022
(54) PHASE CONNECTION FOR ELECTRIC MOTORS FOR MEASURING PHASE CURRENTS
(73) MOLABO GmbH
(72) ROSSNER, Stefan
BACHHEIBL, Florian
(31) 102021203802
(32) 16.04.2021
(33) Germany

(51) G01R 22/06
G01R 11/25
G01R 11/24
(11) EP4121785
(21) EP21714558.0
(47) 29.01.2025
(87) US2021020886
23.09.2021
(22) 04.03.2021
(54) ELECTRIC METER INSTALLATION ISSUE DETECTION BASED ON ORIENTATION CHANGE
(73) Landis+Gyr Technology, Inc.
(72) STENBERG, David
SCHAMBER, David
(31) 202016823133
(32) 18.03.2020
(33) United States of America

(51) G01R 29/10
H01Q 3/26
(11) EP3521842
(21) EP18075017.6
(47) 29.01.2025
(22) 12.12.2018
(54) METHODS AND SYSTEMS FOR ESA METROLOGY
(73) Rockwell Collins, Inc.
(72) McBryde, Connor C.
Jensen, Dana J.
Paulsen, Lee M.
Hill, Adrian A.
Gillett, Joel T.
(31) 201815885362
(32) 31.01.2018
(33) United States of America

(51) G01R 31/00
B64D 37/06
B64F 5/40
G01R 19/165
G01R 31/58
(11) EP3413063
(21) EP18175376.5
(47) 29.01.2025
(22) 31.05.2018
(54) DETECTION SYSTEM FOR ABRADED WIRES IN FUEL TANKS
(73) The Boeing Company
(72) TILLOTSON, Brian J.
(31) 201715612491
(32) 02.06.2017
(33) United States of America

(51) G01R 31/08
G01R 31/34
(11) EP4107534
(21) EP21705512.8
(47) 29.01.2025
(87) EP2021053644
26.08.2021
(22) 15.02.2021
(54) APPARATUS AND METHOD FOR LOCATING PARTIAL DISCHARGES IN MEDIUM-VOLTAGE AND HIGH-VOLTAGE EQUIPMENT
(73) Omicron electronics GmbH
(72) ENGELEN, Christoph
ÖTTL, Fabian
(31) 501152020
(32) 18.02.2020
(33) Austria

(51) G01R 31/12
G01R 31/62
H01F 27/36
G01R 31/14
G01R 31/52
(11) EP3671235
(21) EP19215047.2
(47) 29.01.2025
(22) 10.12.2019
(54) METHOD AND CIRCUIT FOR DETECTING AN ARC FAULT
(73) GE Aviation Systems Limited
(72) OSBORNE, Frank Graham
DAFFURN, Benjamin Robert
HANDY, Peter James
SMITH, Michael James
(31) 201820540
(32) 17.12.2018
(33) United Kingdom

(51) G01R 31/26
G01R 31/327
G01R 31/52
(11) EP4300107
(21) EP23178854.8
(47) 29.01.2025
(22) 13.06.2023
(54) CURRENT LEAK DETECTION FOR SOLID STATE DEVICES
(73) Infineon Technologies Austria AG
(72) AICHRIEDLER, Leo
WRIESSNEGGER, Gerald
(31) 202217850713
(32) 27.06.2022
(33) United States of America

(51) G01R 31/327
H01M 10/48
H01M 10/42
(11) EP3974850
(21) EP20902610.3
(47) 29.01.2025
(87) KR2020017934
24.06.2021
(22) 09.12.2020
(54) PARALLEL BATTERY RELAY DIAGNOSIS DEVICE AND METHOD
(73) LG Energy Solution, Ltd.
(72) PARK, Jong Il
(31) 20190172452
(32) 20.12.2019
(33) Korea (Republic)

(51) G01R 31/367
(11) EP4113139
(21) EP22773375.5
(47) 29.01.2025
(87) CN2022081476
13.10.2022
(22) 17.03.2022
(54) LITHIUM BATTERY SOC ESTIMATION METHOD AND COMPUTER-READABLE STORAGE MEDIUM
(73) SHENZHEN POWEROAK NEWENER CO., LTD
(72) MA, Hui
LEI, Jianhua
CANG, Wentao
(31) 202111215850
(32) 19.10.2021
(33) China

(51) G01R 31/367
G01R 31/36
(11) EP3992648
(21) EP20902257.3
(47) 29.01.2025
(87) KR2020017931
24.06.2021
(22) 09.12.2020
(54) APPARATUS AND METHOD FOR DIAGNOSING BATTERY
(73) LG Energy Solution, Ltd.
(72) KIM, Young Jin
(31) 20190172451
(32) 20.12.2019
(33) Korea (Republic)

(51) G01R 31/367
G01R 31/36
G01R 31/392
G01R 31/3835
G01R 19/165
G06N 20/00
G06N 3/08
G06N 3/04
H01M 10/42
H01M 10/44
(11) EP4246159
(21) EP22902494.8
(47) 29.01.2025
(87) KR2022019344
15.06.2023
(22) 01.12.2022

(54) METHOD FOR SELECTING LOW-VOLTAGE DEFECTIVE BATTERIES
(73) LG Energy Solution, Ltd.
(72) KIM, Sung Tae
SUNG, Nak Gi
KANG, Joon Sup
(31) 20210175819
(32) 09.12.2021
(33) Korea (Republic)

(51) G01R 31/389
(11) EP4127751
(21) EP21716276.7
(47) 29.01.2025
(87) EP2021057458
30.09.2021
(22) 23.03.2021
(54) MEASURING DEVICE AND METHOD FOR DETERMINING AN ELECTRICAL PROPERTY
(73) Batixt IP AB
(72) ERIKSSON, Lars
(31) 2050319
(32) 24.03.2020
(33) Sweden

(51) G01R 31/392
G01R 31/367
G01R 31/36
G01R 31/382
(11) EP4043897
(21) EP20911771.2
(47) 29.01.2025
(87) KR2020018094
15.07.2021
(22) 10.12.2020
(54) SIMULATION SYSTEM AND DATA DISTRIBUTION METHOD
(73) LG Energy Solution, Ltd.
(72) RYU, Hojin
(31) 20200002216
(32) 07.01.2020
(33) Korea (Republic)

(51) G01R 31/396
G01R 1/36
G01R 19/00
(11) EP4235200
(21) EP22210769.0
(47) 29.01.2025
(22) 01.12.2022
(54) CIRCUIT FOR MEASURING BATTERY CELL VOLTAGE AND CONTROL METHOD THEREOF
(73) Hyundai Mobis Co., Ltd.
(72) PARK, Joon Ho
(31) 20220023668
(32) 23.02.2022
(33) Korea (Republic)

(51) G01R 31/60
G01R 31/69
(11) EP4336201
(21) EP22194621.3
(47) 29.01.2025
(22) 08.09.2022
(54) SIMPLIFIED TEST SETUP IN CABLE HARNESS TESTING
(73) ESPI Logistics GmbH
(72) Lochmann, Rüdiger

(51) G01R 33/56
G01R 33/46
G06N 3/08
G01N 24/08
(11) EP3839546
(21) EP19218443.0
(47) 29.01.2025
(22) 20.12.2019
(54) SYSTEM AND METHOD FOR PROVIDING TRAINING DATA TO ENABLE A NEURAL NETWORK TO IDENTIFY SIGNALS IN NMR MEASUREMENTS
(73) Bruker Switzerland AG
(72) Galiash, Irina
Bolliger, Christine
Glur, Marco
Klages, Jochen
Moriaud, Fabrice
Horlacher, Oliver

(51) G01R 33/561
G01R 33/565
G01R 33/24
G01R 33/483
(11) EP4394426
(21) EP22217282.7
(47) 29.01.2025
(22) 30.12.2022
(54) METHOD AND DEVICE FOR DRIVING A MAGNETIC RESONANCE IMAGING SYSTEM IN THE CONTEXT OF ECHO-PLANAR IMAGING
(73) Siemens Healthineers AG
(72) Zeller, Mario

(51) G01S 5/00
G01S 5/02
(11) EP4267983
(21) EP21844591.4
(47) 29.01.2025
(87) US2021072987
30.06.2022
(22) 17.12.2021
(54) SIDELINK-AIDED HYBRID NETWORK POSITIONING
(73) QUALCOMM INCORPORATED
(72) MANOLAKOS, Alexandros
DUAN, Weimin
LY, Hung Dinh
LEI, Jing
HOSSEINI, Seyedkianoush
(31) 20200100746
(32) 23.12.2020
(33) Greece

(51) G01S 5/00
G01S 5/02
G01S 5/10
(11) EP3949564
(21) EP19716845.3
(47) 29.01.2025
(87) EP2019058292
08.10.2020
(22) 02.04.2019
(54) METHOD OF CORRECTING TIME OF DEPARTURE IN OBSERVED TIME DIFFERENCE OF ARRIVAL POSITIONING
(73) Nokia Technologies Oy
(72) MICHALOPOULOS, Diomidis

(51) G01S 5/00
G08G 5/00
H04B 7/185
G01S 11/02
G01S 19/03
(11) EP3839549
(21) EP20203441.9
(47) 29.01.2025
(22) 22.10.2020
(54) DECODING POSITION INFORMATION
(73) Aireon LLC
(72) GARCIA, Michael
DOLAN, John
(31) 201916717289
(32) 17.12.2019
(33) United States of America

(51) G01S 5/06
G01S 3/48
(11) EP3859370
(21) EP20196872.4
(47) 29.01.2025
(22) 18.09.2020
(54) MULTI-WIRELESS DEVICE LOCATION DETERMINATION
(73) Juniper Networks, Inc.
(72) CASTAGNOLI, Neal Dante
SHAFFER, Shmuel
(31) 202016915381
202063011851 P
202062968754 P
(32) 29.06.2020
17.04.2020
31.01.2020
(33) United States of America
United States of America
United States of America

(51) G01S 7/02
G01S 13/34
G01S 13/87
G01S 13/931
G01S 13/58
(11) EP3835809
(21) EP20208040.4
(47) 29.01.2025
(22) 17.11.2020
(54) METHOD AND SYSTEM FOR FREQUENCY OFFSET MODULATION RANGE DIVISION MIMO AUTOMOTIVE RADAR USING I-CHANNEL ONLY MODULATION MIXER
(73) NXP USA, Inc.
(72) Garrity, Douglas Alan
Wu, Ryan Haoyun
Brett, Maik
(31) 201916707235
(32) 09.12.2019
(33) United States of America

(51) G01S 7/282
G01S 7/285
G01S 13/58
G01S 13/02
(11) EP3879300
(21) EP20189827.7
(47) 29.01.2025
(22) 06.08.2020
(54) RADAR EXCITATION SIGNALS FOR WIRELESS COMMUNICATIONS SYSTEM
(73) Nokia Technologies Oy

(72) WILD, Thorsten
BRAUN, Volker
(31) 20205252
(32) 10.03.2020
(33) Finland

(51) G01S 7/48
G01S 7/497
G01S 17/42
(11) EP4382953
(21) EP23208651.2
(47) 29.01.2025
(22) 08.11.2023
(54) OPTOELECTRONIC SENSOR AND METHOD FOR DETECTING AND DETERMINING THE DISTANCE OF OBJECTS
(73) SICK AG
(72) Fillhardt, Christiane
Hammes, Markus
Breindl, Michael
Stein, Patrick
Krämer, Joachim
(31) 102022132310
(32) 06.12.2022
(33) Germany

(51) G01S 7/481
H05K 7/20
G01S 17/42
G01D 11/24
(11) EP3877779
(21) EP19900062.1
(47) 29.01.2025
(87) US2019065160
25.06.2020
(22) 09.12.2019
(54) INTEGRATED COOLING SOLUTION FOR SPINNING SENSORS
(73) Waymo LLC
(72) ANDRADE, Justin, Mathew
ELLGAS, Simon
(31) 201816221940
(32) 17.12.2018
(33) United States of America

(51) G01S 7/497
G01S 17/08
(11) EP3640671
(21) EP18211335.7
(47) 29.01.2025
(22) 10.12.2018
(54) LIGHT DETECTION AND RANGING SYSTEM AND METHOD FOR OPERATING AND TESTING A LIGHT DETECTION AND RANGING SYSTEM, PARTICULARLY FOR SAFETY RELEVANT APPLICATIONS
(73) Integrated Device Technology, Inc.
(72) TAVANO, Giuseppe
GRUBER, Dominik
DI MATTEO, Serge
(31) 18200519
(32) 15.10.2018
(33) European Patent Office (EPO)

(51) G01S 13/931
G01S 7/41
G01S 7/282
G01S 7/35
H01Q 21/22
(11) EP4184211
(21) EP21851171.5
(47) 29.01.2025
(87) CN2021107009
03.02.2022
(22) 19.07.2021
(54) DISTRIBUTED RADAR
(73) Huawei Technologies Co. Ltd.
(72) LYU, Rui
LIU, Yu
ZHANG, Luqi
(31) 202010742331
(32) 28.07.2020
(33) China

(51) G01S 13/931
G01S 7/521
G01S 15/931
G10K 9/22
G10K 11/00
(11) EP4260094
(21) EP21819120.3
(47) 29.01.2025
(87) EP2021083285
16.06.2022
(22) 29.11.2021
(54) ULTRASONIC SENSOR FOR A MOTOR VEHICLE, AND MOTOR VEHICLE
(73) Valeo Schalter und Sensoren GmbH
(72) HAAG, Fabian
WEHLING, Hans Wilhelm
(31) 102020132631
(32) 08.12.2020
(33) Germany

(51) G01S 15/89
A61B 8/00
G01S 7/52
(11) EP4210585
(21) EP21773304.7
(47) 29.01.2025
(87) EP2021074082
17.03.2022
(22) 01.09.2021
(54) ULTRASOUND PROBE CONNECTED VIA A CABLE
(73) Koninklijke Philips N.V.
(72) ROBINSON, Andrew, Lee
VAN RENS, Antonia, Cornelia
DOUGLAS, Alexander, Ulrich
(31) 202063075756 P
(32) 08.09.2020
(33) United States of America

(51) G01S 15/89
G01S 7/52
G01N 29/22
G01N 29/24
B06B 1/06
(11) EP3788361
(21) EP19796200.4
(47) 29.01.2025
(87) US2019028832
07.11.2019
(22) 24.04.2019
(54) DUAL FREQUENCY ULTRASOUND TRANSDUCER
(73) Fujifilm Sonosite, Inc.
(72) IVANYTSKYY, Oleg
PANG, Guofeng
AMINI, Hossein
KOLAJA, Robert
(31) 201816051060
201862666519 P
(32) 31.07.2018
03.05.2018
(33) United States of America
United States of America

(51) G01S 17/02
G01N 21/21
H04N 1/00
G01N 21/47
(11) EP3769115
(21) EP19713398.6
(47) 29.01.2025
(87) EP2019056843
26.09.2019
(22) 19.03.2019
(54) METHODS AND SYSTEMS FOR IDENTIFYING MATERIAL COMPOSITION OF MOVING OBJECTS
(73) IRIDESENSE
(72) BUCHTER, Scott
(31) 201862745370 P
201862644746 P
(32) 14.10.2018
19.03.2018
(33) United States of America
United States of America

(51) G01S 17/42
G01S 7/481
G01S 17/89
(11) EP3835826
(21) EP20210063.2
(47) 29.01.2025
(22) 26.11.2020
(54) LIDAR DEVICE AND LIDAR SYSTEM INCLUDING THE SAME
(73) Samsung Electronics Co., Ltd.
(72) SHIN, Changgyun
(31) 20200059967
20190165996
(32) 19.05.2020
12.12.2019
(33) Korea (Republic)
Korea (Republic)

(51) G01S 19/21
G01S 19/15
G01S 19/28
(11) EP4209808
(21) EP22214890.0
(47) 29.01.2025
(22) 20.12.2022
(54) DETECTION OF MULTIPLE SPOOFED OR FAULTY GLOBAL NAVIGATION SATELLITE SIGNALS
(73) Honeywell International Inc.
(72) MORTON, Blaise
(31) 202217569330
(32) 05.01.2022
(33) United States of America

(51) G01T 3/06
(11) EP3143433
(21) EP15719284.0
(47) 29.01.2025
(87) GB2015051227
19.11.2015
(22) 28.04.2015
(54) NEUTRON DETECTION
(73) Symetrica Limited

(72) RAMSDEN, David
FOSTER, Mark Abbot
(31) 201408516
(32) 14.05.2014
(33) United Kingdom

(51) G01V 3/10
H02J 50/60
B60L 53/124
(11) EP4113173
(21) EP22181417.1
(47) 29.01.2025
(22) 28.06.2022
(54) FOREIGN OBJECT DETECTION METHOD AND APPARATUS, AND WIRELESS CHARGING SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) WANG, Yaoyi
BAI, Pengfei
WU, Zhixian
WANG, Zhenzhen
CAO, Jiakai
TANG, Chunsen
KUANG, Wei
WANG, Zhihui
(31) 202110721532
(32) 28.06.2021
(33) China

(51) G01V 8/10
B25J 9/16
G01S 17/04
(11) EP3869240
(21) EP20157966.1
(47) 29.01.2025
(22) 18.02.2020
(54) SENSOR ASSEMBLY AND METHOD FOR OPERATING A SENSOR ASSEMBLY
(73) Leuze electronic GmbH + Co. KG
(72) Hess, Alexander
Ruff, Markus
Brunner, Rolf
Feller, Bernhard

(51) G01V 8/12
F16P 3/14
G08B 13/183
G01V 8/20
(11) EP4141492
(21) EP21193157.1
(47) 29.01.2025
(22) 26.08.2021
(54) LIGHT BARRIER ASSEMBLY AND METHOD FOR OPERATING A LIGHT BARRIER ASSEMBLY
(73) Leuze electronic GmbH + Co. KG
(72) Feller, Bernhard

(51) G01V 8/20
A61M 1/28
A61M 1/14
A61M 1/36
(11) EP3561551
(21) EP19161586.3
(47) 29.01.2025
(22) 07.07.2011
(54) DISPOSABLE FLUID-HANDLING CASSETTE FOR USE IN MEDICAL TREATMENT SYSTEM
(73) DEKA Products Limited Partnership
(72) Finch, Matthew J.
Scarpaci, Jacob W.
Vanwyk, Eric J.
Helmore, Simon C.
(31) 36225910 P
(32) 07.07.2010
(33) United States of America

(51) G01W 1/08
G01D 11/24
(11) EP4113175
(21) EP21182867.8
(47) 29.01.2025
(22) 30.06.2021
(54) RADIOSONDE AND METHOD OF MANUFACTURING A RADIOSONDE
(73) VAISALA OYJ
(72) JUNTTILA, Janne

(51) G02B 1/115
G02B 27/00
(11) EP4293411
(21) EP23201834.1
(47) 29.01.2025
(22) 09.09.2019
(54) OPTICAL ELEMENT WITH A STACK OF LAYER PACKETS, AND METHOD FOR PRODUCING THE OPTICAL ELEMENT
(73) Rodenstock GmbH
(72) SCHERSCHLICHT, Rüdiger
RADÜNZ, Stefan
(31) 102018122444
(32) 13.09.2018
(33) Germany

(51) G02B 5/00
G02B 26/04
(11) EP4187289
(21) EP22207166.4
(47) 29.01.2025
(22) 14.11.2022
(54) MICRO-ELECTRO-MECHANICAL OPTICAL SHUTTER WITH ROTATING SHIELDING STRUCTURES AND RELATED MANUFACTURING PROCESS
(73) STMicroelectronics S.r.l.
(72) VERCESI, Federico
CERINI, Fabrizio
GUERINONI, Luca
BONI, Nicolò
(31) 202100030269
(32) 30.11.2021
(33) Italy

(51) G02B 5/04
G02B 6/00
G02B 19/00
E06B 3/67
(11) EP4081733
(21) EP20838971.8
(47) 29.01.2025
(87) EP2020087231
01.07.2021
(22) 18.12.2020
(54) COMPOSITE PANEL ELEMENT FOR GUIDING LIGHT
(73) temicon GmbH
(72) HUMBACH, Oliver
(31) 102019135712
(32) 23.12.2019
(33) Germany

(51) G02B 5/10
F21S 41/675
G03B 21/28
B60Q 1/08
B60Q 1/50
F21S 41/147
F21S 41/16
F21S 41/255
F21S 41/265
F21S 41/33
F21S 41/365
G03B 21/14
G03B 29/00
F21W 103/60
(11) EP3339919
(21) EP17205347.2
(47) 29.01.2025
(22) 05.12.2017
(54) VEHICLE LIGHTING APPARATUS
(73) STANLEY ELECTRIC CO., LTD.
(72) HOSHINO, Shinya
(31) 2016237432
(32) 07.12.2016
(33) Japan

(51) G02B 5/30
(11) EP4283350
(21) EP23161370.4
(47) 29.01.2025
(22) 13.03.2023
(54) POLARIZING FILM AND DISPLAY APPARATUS EMPLOYING THE SAME
(73) Samsung Display Co., Ltd.
(72) Lee, Dukjin
Beon, Beonghun
Jung, Woosuk
Hong, Hyosung
(31) 20220065288
(32) 27.05.2022
(33) Korea (Republic)

(51) G02B 5/30
C08F 118/08
G02B 1/04
(11) EP3779536
(21) EP19778060.4
(47) 29.01.2025
(87) JP2019013872
03.10.2019
(22) 28.03.2019
(54) POLY(VINYL ALCOHOL) FILM AND PRODUCTION METHOD FOR POLARIZING FILM
(73) SEKISUI CHEMICAL CO., LTD.
(72) NAKAJIMA, Nami
KUSAKA, Yasunari
NISHIMURA, Yohei
(31) 2018070375
(32) 30.03.2018
(33) Japan

(51) G02B 5/30
G02B 27/01
G02B 27/09
(11) EP4115218
(21) EP21706568.9
(47) 29.01.2025
(87) EP2021054026
10.09.2021
(22) 18.02.2021

(54) ARRANGEMENT FOR REFLECTION SUPPRESSION IN A WINDSCREEN DISPLAY SYSTEM, AND WINDSCREEN DISPLAY SYSTEM
(73) Bayerische Motoren Werke Aktiengesellschaft
(72) JANZER, Michael Arthur
(31) 102020106160
(32) 06.03.2020
(33) Germany

(51) G02B 6/02
C03B 37/012
C03B 37/027
(11) EP3832363
(21) EP19213094.6
(47) 29.01.2025
(22) 03.12.2019
(54) A DEVICE AND METHOD FOR CONNECTING A FIBRE PREFORM TO A PRESSURE SUPPLY SYSTEM
(73) ASML Netherlands B.V.
(72) NIU, Mingli
BAUERSCHMIDT, Sebastian, Thomas

(51) G02B 6/125
G02F 1/225
G02B 6/12
(11) EP3377927
(21) EP16762834.6
(47) 29.01.2025
(87) GB2016052677
26.05.2017
(22) 30.08.2016
(54) AN OPTICAL MODULATION DEVICE
(73) Lumentum Technology UK Limited
(72) JONES, Stephen
WHITBREAD, Neil David
CARTER, Andrew Cannon
WARD, Andrew
(31) 201520472
(32) 20.11.2015
(33) United Kingdom

(51) G02B 6/36
G02B 6/38
(11) EP4191297
(21) EP21859554.4
(47) 29.01.2025
(87) CN2021082377
03.03.2022
(22) 23.03.2021
(54) OPTICAL FIBER CONNECTOR PLUG, OPTICAL FIBER ADAPTER, CONNECTOR ASSEMBLY, AND COMMUNICATION DEVICE
(73) Huawei Technologies Co. Ltd.
(72) XIONG, Wei
LI, Xiupeng
PENG, Shangjun
(31) 202010880697
(32) 27.08.2020
(33) China

(51) G02B 6/38
(11) EP3978972
(21) EP21199966.9
(47) 29.01.2025
(22) 29.09.2021
(54) CONNECTOR ASSEMBLIES FOR TELECOMMUNICATION ENCLOSURES
(73) Corning Research & Development Corporation
(72) SCOTTA, Felice
DANNOUX, Thierry Luc Alain
(31) 202063085845 P
(32) 30.09.2020
(33) United States of America

(51) G02B 6/42
H01S 5/0239
H01L 23/367
H01S 5/024
H01L 23/38
H01L 23/42
(11) EP4235244
(21) EP22305205.1
(47) 29.01.2025
(22) 24.02.2022
(54) APPARATUS FOR INTEGRATING AN ELECTRONIC INTEGRATED CIRCUIT AND A PHOTONIC INTEGRATED CIRCUIT
(73) Nokia Solutions and Networks Oy
(72) SHEN, Alexandre
BITAULD, David
ENRIGHT, Ryan
NEEL, Delphine

(51) G02B 7/02
G02B 1/111
G02B 1/18
G02B 5/22
G03B 11/00
G03B 15/00
(11) EP3832367
(21) EP19840170.5
(47) 29.01.2025
(87) JP2019026156
30.01.2020
(22) 01.07.2019
(54) CONNECTION METHOD, LENS, HOLDING MECHANISM, CAMERA DEVICE, AND MOVING BODY
(73) Kyocera Corporation
(72) KEYAKI Ryohta
OKADA Takahiro
(31) 2018141811
(32) 27.07.2018
(33) Japan

(51) G02B 7/02
G02B 27/62
G01S 7/481
G01S 7/497
(11) EP4390491
(21) EP23208652.0
(47) 29.01.2025
(22) 08.11.2023
(54) ADJUSTMENT DEVICE AND ADJUSTMENT METHOD
(73) SICK AG
(72) Jägel, Matthias
Baumgartner, August
(31) 102022134544
(32) 22.12.2022
(33) Germany

(51) G02B 7/08
(11) EP3500884
(21) EP17844254.7
(47) 29.01.2025
(87) US2017047931
01.03.2018
(22) 22.08.2017
(54) CAMERA LENS SUSPENSION WITH ENHANCED AUTO FOCUS ELECTRICAL INTERCONNECTS
(73) Hutchinson Technology Incorporated
(72) MILLER, Mark A.
SAKAMOTO, Yasushi
(31) 201715682456
201662378001 P
(32) 21.08.2017
22.08.2016
(33) United States of America
United States of America

(51) G02B 7/105
G03B 3/10
H02K 1/17
G02B 7/00
G01B 11/30
G02B 7/02
G02B 7/09
G02B 26/08
G02B 27/64
(11) EP3457189
(21) EP17796345.1
(47) 29.01.2025
(87) KR2017004767
16.11.2017
(22) 08.05.2017
(54) LENS DRIVING DEVICE, CAMERA MODULE, AND PORTABLE DEVICE
(73) LG Innotek Co., Ltd.
(72) JUNG, Tae Jin
MIN, Sang Jun
LEE, Kap Jin
SHIN, Seung Taek
HAN, Jin Suk
(31) 20160085367
20160066608
20160066280
20160056777
(32) 06.07.2016
30.05.2016
30.05.2016
10.05.2016
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) G02B 13/16
G02B 27/00
G02B 27/01
G02B 3/02
G02B 27/12
(11) EP4067964
(21) EP22163417.3
(47) 29.01.2025
(22) 22.03.2022
(54) OPTICAL DEVICE AND METHOD OF CONTROLLING OPTICAL DEVICE
(73) Samsung Display Co., Ltd.
(72) LEE, Cheon Myeong
HA, Ju Hwa
BAEK, Soo Min
LEE, Ji Won
KIM, Sang Ho
(31) 20210041720
(32) 31.03.2021

(33) Korea (Republic)

(51) G02B 21/06
G02B 21/36
G06F 3/01
(11) EP3992689
(21) EP20204290.9
(47) 29.01.2025
(22) 28.10.2020
(54) CONTROL SYSTEM FOR ADAPTING ILLUMINATION INTENSITY IN MICROSCOPY, MICROSCOPY ARRANGEMENT AND CORRESPONDING METHOD
(73) Leica Instruments (Singapore) Pte. Ltd.
(72) Paulus, Robert

(51) G02B 21/26
G02B 21/36
G02B 21/00
G02B 27/32
G02B 21/34
C12M 1/34
(11) EP2932425
(21) EP13862299.8
(47) 29.01.2025
(87) US2013075045
19.06.2014
(22) 13.12.2013
(54) AUTOMATED ROBOTIC MICROSCOPY SYSTEMS
(73) The J. David Gladstone Institutes, a testamentary trust established under the Will of J. David Gladstone
(72) FINKBEINER, Steven M.
DAUB, Aaron C.
ANDO, Dale Michael
(31) 201261737683 P
(32) 14.12.2012
(33) United States of America

(51) G02B 21/36
G02B 21/00
G02B 21/02
G02B 21/08
G02B 21/16
G02B 21/18
(11) EP3237949
(21) EP15874101.7
(47) 29.01.2025
(87) US2015064512
30.06.2016
(22) 08.12.2015
(54) SELECTIVE PLANE ILLUMINATION MICROSCOPY INSTRUMENTS
(73) Leica Microsystems CMS GmbH
(72) COOPER, Jeremy R.
(31) 201562109245 P
201462095959 P
(32) 29.01.2015
23.12.2014
(33) United States of America
United States of America

(51) G02B 21/36
G02B 21/34
(11) EP3014331
(21) EP14818171.2
(47) 29.01.2025
(87) CA2014000542
31.12.2014
(22) 26.06.2014
(54) PREVIEW STATION AND METHOD FOR TAKING PREVIEW IMAGES OF MICROSCOPE SLIDES
(73) Huron Technologies International Inc.
(72) VIRK, Audil
CRAIG, Ian
FAYEK, Reda
DAMASKINOS, Savvas
(31) 201361839500 P
(32) 26.06.2013
(33) United States of America

(51) G02B 23/16
G02B 27/00
F41G 1/38
(11) EP4089462
(21) EP22173042.7
(47) 29.01.2025
(22) 12.05.2022
(54) ATTACHMENT FOR AN EYEPIECE OR LENS OF A REMOTE OPTICAL DEVICE
(73) Swarovski-Optik AG & Co KG.
(72) SOCHER, Michael
KUHN, Martin
ZANGERL, Alois
GIMPL, Philipp
(31) 503752021
(32) 14.05.2021
(33) Austria

(51) G02B 27/00
G03H 1/04
G03H 1/02
G02B 27/01
G03H 1/18
(11) EP3969958
(21) EP20746803.4
(47) 29.01.2025
(87) US2020040839
14.01.2021
(22) 04.07.2020
(54) APODIZED OPTICAL ELEMENTS FOR OPTICAL ARTIFACT REDUCTION
(73) Meta Platforms Technologies, LLC
(72) ANDREEV, Gregory Olegovic
CHI, Wanli
LI, Gang
OUDERKIRK, Andrew John
JIANG, Yingfei
SHIPTON, Erik
(31) 201916505462
201916505412
(32) 08.07.2019
08.07.2019
(33) United States of America
United States of America

(51) G02B 27/01
G02B 27/00
(11) EP4310576
(21) EP22211455.5
(47) 29.01.2025
(22) 05.12.2022
(54) DIFFRACTIVE OPTICAL WAVEGUIDE AND DISPLAY DEVICE
(73) Jiaxing UPhoton Optoelectronics Technology Co., Ltd.
(72) SONG, Yuming
TIAN, Kehan
DOU, Chenhao
(31) 202210856430
(32) 21.07.2022
(33) China

(51) G02B 27/01
G06F 3/01
G06T 15/00
G06T 19/00
H04N 13/00
H04N 13/128
H04N 13/122
(11) EP3765890
(21) EP19766573.0
(47) 29.01.2025
(87) US2019022349
19.09.2019
(22) 14.03.2019
(54) DISPLAY SYSTEMS AND METHODS FOR CLIPPING CONTENT TO INCREASE VIEWING COMFORT
(73) Magic Leap, Inc.
(72) SCHWAB, Brian David
HAND, Randall E.
VLASKAMP, Bjorn, Nicolaas, Servatius
(31) 201862642761 P
(32) 14.03.2018
(33) United States of America

(51) G02B 27/01
G06F 3/01
G06T 19/00
G02B 27/00
(11) EP3552053
(21) EP17835522.8
(47) 29.01.2025
(87) US2017064978
21.06.2018
(22) 07.12.2017
(54) VIRTUAL RIGID FRAMEWORK FOR SENSOR SUBSYSTEM
(73) Microsoft Technology Licensing, LLC
(72) MILLER, Quentin Simon Charles
MCGEE, Nicholas Damien
SAMPLES, Michael
STEEDLY, Drew Edward
CHERKASHIN, Lev
(31) 201615376521
(32) 12.12.2016
(33) United States of America

(51) G02B 27/09
B23K 26/064
B23K 26/382
G02B 5/00
B23K 26/06
H01S 3/00
(11) EP3415977
(21) EP17750346.3
(47) 29.01.2025
(87) JP2017004834
17.08.2017
(22) 09.02.2017
(54) LASER BEAM SHAPING DEVICE AND REMOVAL MACHINING DEVICE
(73) Riken
(72) SUGIOKA, Kouji
(31) 2016024150
(32) 10.02.2016
(33) Japan

(51) G02B 27/10
H04N 5/222
H04N 23/45

H04N 25/131
H04N 25/133
H04N 23/11
(11) EP3902249
(21) EP21178691.8
(47) 29.01.2025
(22) 28.02.2017
(54) DEPTH SENSING SYSTEMS AND METHODS
(73) Magic Leap, Inc.
(72) LINK, Gregory Michael
(31) 201662301847 P
(32) 01.03.2016
(33) United States of America

(51) G02B 30/27
B42D 25/30
G02B 30/56
G02B 3/00
(11) EP4073576
(21) EP20816249.5
(47) 29.01.2025
(87) EP2020084639
17.06.2021
(22) 04.12.2020
(54) LASER ENGRAVABLE FLOATING IMAGE FOR SECURITY LAMINATES
(73) Thales Dis France SAS
(72) POHJOLA, Teemu
(31) 19306618
(32) 10.12.2019
(33) European Patent Office (EPO)

(51) G02C 5/14
G02C 11/00
(11) EP3635475
(21) EP18726790.1
(47) 29.01.2025
(87) EP2018063378
13.12.2018
(22) 22.05.2018
(54) SPECTACLES WITH BIO-SENSORS
(73) Safilo Societa' Azionaria Fabbrica Italiana Lavorazione Occhiali S.p.a.
(72) BELLI, Nicola
MANERA, Giorgio
(31) 201700062334
(32) 07.06.2017
(33) Italy

(51) G02C 7/00
G02C 7/02
G02C 7/04
G02C 11/00
H01F 27/00
(11) EP3844561
(21) EP19881802.3
(47) 29.01.2025
(87) US2019060071
14.05.2020
(22) 06.11.2019
(54) OXYGEN PERMEABLE SCLERAL CONTACT LENSES WITH THICK PAYLOADS
(73) Tectus Corporation
(72) HAN, Allen, Ming-kuang
ICE, Donald, Arthur
JOHNSON, Eric
HACKETT, Benjamin, Lyle
WIEMER, Michael, West
(31) 201916670515
201916360872
201816184242
(32) 31.10.2019
21.03.2019
08.11.2018
(33) United States of America
United States of America
United States of America

(51) G02C 7/02
A61F 2/16
G02C 7/04
G02C 7/06
(11) EP3881130
(21) EP19804710.2
(47) 29.01.2025
(87) EP2019081304
22.05.2020
(22) 14.11.2019
(54) COMPUTER-IMPLEMENTED METHOD FOR DETERMINING AN OPHTHALMIC LENS ADAPTED FOR CORRECTING AN ABNORMAL REFRACTION OF AN EYE OF A WEARER
(73) ESSILOR INTERNATIONAL
(72) PAILLE, Damien
FERMIGIER, Bruno
GUILLOT, Matthieu
DROBE, Bjorn
(31) 18315041
(32) 15.11.2018
(33) European Patent Office (EPO)

(51) G02C 7/02
G02C 7/06
(11) EP4305489
(21) EP22726442.1
(47) 29.01.2025
(87) EP2022061453
03.11.2022
(22) 29.04.2022
(54) A PROGRESSIVE SPECTACLE LENS
(73) Carl Zeiss Vision International GmbH
(72) VARNAS, Saulius
JESTER, Philipp
SPRATT, Ray Steven
(31) PCT/US2021/030236
(32) 30.04.2021
(33) World Intellectual Property Office (WIPO)

(51) G02C 7/04
B05D 5/06
B29D 11/00
G02B 1/04
(11) EP2598938
(21) EP11813222.4
(47) 29.01.2025
(87) US2011045810
02.02.2012
(22) 29.07.2011
(54) Method for producing silicon hydrogel contact lenses with crosslinked hydrophilic coatings thereon
(73) Alcon Inc.
(72) QIU, Yongxing
WINTERTON, Lynn, Cook
NELSON, Jared
KOLLURU, Chandana
PRUITT, John, Dallas
QIAN, Xinming
WU, Daqing
MEDINA, Arturo, N.
SAMUEL, Newton, T.
(31) 369102 P
201161448478 P
(32) 30.07.2010
02.03.2011
(33) United States of America
United States of America

(51) G02F 1/01
G02F 1/29
B82Y 20/00
(11) EP3936908
(21) EP21184296.8
(47) 29.01.2025
(22) 07.07.2021
(54) PHASE MODULATOR AND PHASE MODULATOR ARRAY INCLUDING THE SAME
(73) Samsung Electronics Co., Ltd.
The Board of Trustees of the Leland Stanford Junior University
(72) PARK, Junghyun
WANG, Yifei
BRONGERSMA, Mark L.
(31) 20210061637
20210037549
202063049903 P
(32) 12.05.2021
23.03.2021
09.07.2020
(33) Korea (Republic)
Korea (Republic)
United States of America

(51) G02F 1/1333
G02F 1/1345
H10K 59/131
(11) EP4210107
(21) EP22814276.6
(47) 29.01.2025
(87) CN2022118105
01.06.2023
(22) 09.09.2022
(54) DISPLAY PANEL AND MANUFACTURING METHOD THEREFOR, AND TERMINAL DEVICE
(73) Honor Device Co., Ltd.
(72) AN, Yabin
QU, Wei
ZHANG, Feng
(31) 202111428818
(32) 29.11.2021
(33) China

(51) G02F 1/1333
H05K 9/00
G06F 1/16
H01L 27/02
H01L 27/15
H10K 59/10
(11) EP3832382
(21) EP18927456.6
(47) 29.01.2025
(87) KR2018015065
30.01.2020
(22) 30.11.2018
(54) DISPLAY DEVICE
(73) LG Electronics Inc.
(72) CHOI, Kwangho
LEE, Jaehun

NA, Seokhun
CHO, Jaewoo
(31) 20180088175
(32) 27.07.2018
(33) Korea (Republic)

(51) G02F 1/13357
G09G 3/34
G01J 1/42
G01J 1/06
G01J 1/04
B60Q 3/14
B60Q 3/18
G01J 1/02
G01J 1/32
(11) EP3271780
(21) EP16704460.1
(47) 29.01.2025
(87) EP2016053224
25.08.2016
(22) 16.02.2016
(54) DISPLAY APPARATUS AND METHOD
(73) Jaguar Land Rover Limited
(72) SKRYPCHUK, Lee
(31) 201502637
(32) 17.02.2015
(33) United Kingdom

(51) G02F 1/163
E06B 9/24
H02J 13/00
H01B 9/00
(11) EP4040230
(21) EP22164772.0
(47) 29.01.2025
(22) 10.11.2017
(54) POWER DISTRIBUTION NETWORKS FOR ELECTROCHROMIC DEVICES
(73) View, Inc.
(72) VIGANO, Jose
KANESHIRO, Kevin Kazuo
Brown, Stephen Clark
SHRIVASTAVA, Dhairya
(31) 201615365685
(32) 30.11.2016
(33) United States of America

(51) G02F 1/225
G02F 1/21
(11) EP3590007
(21) EP18761713.9
(47) 29.01.2025
(87) US2018019007
07.09.2018
(22) 21.02.2018
(54) HIGH FREQUENCY OPTICAL MODULATOR WITH LATERALLY DISPLACED CONDUCTION PLANE RELATIVE TO MODULATING ELECTRODES
(73) NeoPhotonics Corporation
(72) POIRIER, Maxime
NARAYAN, Raghuram
BOUDREAU, Marcel Gerard
CHEN, Chengkun
GOKHALE, Milind
(31) 201715462099
201762466694 P
(32) 17.03.2017
03.03.2017
(33) United States of America

(51) G02F 1/29
H01L 31/00
(11) EP3848747
(21) EP20183407.4
(47) 29.01.2025
(22) 01.07.2020
(54) LIGHT DETECTING DEVICE AND OPTICAL SYSTEM INCLUDING THE SAME
(73) Samsung Electronics Co., Ltd.
Research & Business Foundation SungKyunKwan University
(72) CHOI, Byounglyong
GU, Taejun
LEE, Eunkyung
WHANG, Dongmok
(31) 20200002145
(32) 07.01.2020
(33) Korea (Republic)

(51) G03B 17/12
G02B 9/34
G02B 5/20
G02B 13/00
(11) EP3907543
(21) EP19907479.0
(47) 29.01.2025
(87) KR2019018696
09.07.2020
(22) 30.12.2019
(54) OPTICAL SYSTEM, AND CAMERA MODULE COMPRISING SAME
(73) LG Innotek Co., Ltd.
(72) KIM, Ji Sung
(31) 20190001216
(32) 04.01.2019
(33) Korea (Republic)

(51) G03B 42/02
G03B 42/04
(11) EP3220197
(21) EP17169518.2
(47) 29.01.2025
(22) 10.03.2009
(54) STORAGE FILM SUPPLY
(73) Thoms, Michael
(72) Thoms, Michael
(31) 102008013918
(32) 12.03.2008
(33) Germany

(51) G03F 1/38
G03F 1/24
(11) EP4332676
(21) EP23193326.8
(47) 29.01.2025
(22) 24.08.2023
(54) REFLECTIVE MASK BLANK AND METHOD FOR MANUFACTURING REFLECTIVE MASK
(73) SHIN-ETSU CHEMICAL CO., LTD.
(72) OGOSE, Taiga
KOSAKA, Takuro
(31) 2022139059
(32) 01.09.2022
(33) Japan

(51) G03F 1/58
G03F 1/26
G03F 1/84
G21K 1/06
(11) EP4071551
(21) EP22165025.2
(47) 29.01.2025
(22) 29.03.2022
(54) PHOTOMASK BLANK, METHOD FOR PRODUCING PHOTOMASK, AND PHOTOMASK
(73) Shin-Etsu Chemical Co., Ltd.
(72) Terashima, Ryusei
Matsuhashi, Naoki
(31) 2022033825
2021064874
(32) 04.03.2022
06.04.2021
(33) Japan
Japan

(51) G03G 15/00
(11) EP4053637
(21) EP22157302.5
(47) 29.01.2025
(22) 17.02.2022
(54) IMAGE INSPECTOR AND IMAGE FORMING SYSTEM INCORPORATING THE IMAGE INSPECTOR
(73) Ricoh Company, Ltd.
(72) ISHITSUKA, Ryoh
AOYAGI, Kohta
YAMAZAKI, Kimiharu
ISHII, Tatsuya
EBINUMA, Ryosuke
NAKAYAMA, Satoshi
MATSUMOTO, Tohru
(31) 2021035472
(32) 05.03.2021
(33) Japan

(51) G03G 15/00
(11) EP4060417
(21) EP22161436.5
(47) 29.01.2025
(22) 10.03.2022
(54) INSPECTION DEVICE, IMAGE FORMING SYSTEM, INSPECTION METHOD, AND CARRIER MEDIUM
(73) Ricoh Company, Ltd.
(72) Tachibana, Hiroki
(31) 2021046489
(32) 19.03.2021
(33) Japan

(51) G03G 15/00
G03G 15/16
(11) EP4141543
(21) EP22166233.1
(47) 29.01.2025
(22) 01.04.2022
(54) IMAGE FORMING APPARATUS
(73) FUJIFILM Business Innovation Corp.
(72) HOSHINO, Takashi
(31) 2021137635
(32) 25.08.2021
(33) Japan

(51) G03G 15/20
(11) EP4300208
(21) EP23163614.3
(47) 29.01.2025
(22) 23.03.2023
(54) IMAGE FORMING APPARATUS
(73) FUJIFILM Business Innovation Corp.

(72) KODERA, Tetsuro
YOSHIOKA, Tomoaki
YAMASHITA, Takayuki
(31) 2022103398
(32) 28.06.2022
(33) Japan

(51) G03G 21/00
G03G 15/00
G02B 5/00
G03B 27/32
(11) EP4099097
(21) EP21748118.3
(47) 29.01.2025
(87) JP2021001732
05.08.2021
(22) 19.01.2021
(54) INFORMATION PROCESSING METHOD
(73) FUJIFILM Corporation
(72) SONODA, Shinichiro
YOSHIZAWA, Hirotoshi
(31) 2020011774
(32) 28.01.2020
(33) Japan

(51) G03G 21/10
(11) EP4235310
(21) EP23175414.4
(47) 29.01.2025
(22) 28.12.2016
(54) TONER CONTAINER, IMAGE FORMING APPARATUS
(73) KYOCERA Document Solutions Inc.
(72) SUE, Tomohiro
MATSUMOTO, Hiromu
(31) 2016114510
(32) 08.06.2016
(33) Japan

(51) G03H 1/04
G01N 21/00
(11) EP4016190
(21) EP20215951.3
(47) 29.01.2025
(22) 21.12.2020
(54) MULTI-SPECTRAL MICROSCOPIC IMAGING SPANNING THE VISIBLE AND SHORT-WAVE INFRARED RANGE
(73) Imec VZW
(72) JAYAPALA, Murali
VANMEERBEECK, Geert
YURT, Abdulkadir
LIN, Ziduo

(51) G03H 1/04
G03H 1/08
G01N 21/45
G01N 21/17
G03H 1/26
(11) EP4016191
(21) EP20215954.7
(47) 29.01.2025
(22) 21.12.2020
(54) A DEVICE AND A METHOD FOR IMAGING OF MICROSCOPIC OBJECTS
(73) Imec VZW
(72) JAYAPALA, Murali
YURT, Abdulkadir
LIN, Ziduo
VANMEERBEECK, Geert

(51) G04B 17/04
G04B 17/28
(11) EP4012506
(21) EP20213737.8
(47) 29.01.2025
(22) 14.12.2020
(54) TIMEPIECE RESONATOR MECHANISM PROVIDED WITH A TRANSLATION FRAME
(73) The Swatch Group Research and Development Ltd
(72) KAHROBAIYAN, Mohammad Hussein

(51) G04B 29/04
F16B 25/00
(11) EP3671367
(21) EP18215659.6
(47) 29.01.2025
(22) 21.12.2018
(54) ASSEMBLY COMPRISING A SUPPORT, A PLATE AND ATTACHMENT MEANS, IN PARTICULAR FOR A TIMEPIECE
(73) ETA SA Manufacture Horlogère Suisse
(72) BALMER, Raphaël

(51) G05B 13/02
G01C 21/36
G06F 3/0488
(11) EP3084531
(21) EP14808849.5
(47) 29.01.2025
(87) EP2014003279
25.06.2015
(22) 06.12.2014
(54) PREDICTING AN INTERFACE CONTROL ACTION OF A USER WITH AN IN-VEHICLE USER INTERFACE
(73) Mercedes-Benz Group AG
(72) MOSALEM, Khaled
KREIS, Marius
SMIROLDO, Rigel
KRUZIC, David
(31) 201322614
(32) 19.12.2013
(33) United Kingdom

(51) G05B 13/04
G05B 11/36
G05B 13/02
B30B 15/26
(11) EP3933514
(21) EP20762605.2
(47) 29.01.2025
(87) JP2020007413
03.09.2020
(22) 25.02.2020
(54) CONTROL DEVICE, CONTROL METHOD, AND CONTROL PROGRAM
(73) OMRON Corporation
(72) ABE, Yasuaki
INAMOTO, Shuji
UEYAMA, Yuki
TOKU, Takahiro
(31) 2019032026
(32) 25.02.2019
(33) Japan

(51) G05B 13/04
G05B 23/02
G05B 13/02
G05B 17/02
G05B 19/418
(11) EP3671375
(21) EP18879622.1
(47) 29.01.2025
(87) JP2018041848
23.05.2019
(22) 12.11.2018
(54) PLANT MANAGEMENT SYSTEM AND MANAGEMENT DEVICE
(73) Chiyoda Corporation
(72) FURUICHI Kazuya
IKAWA Shizuka
(31) 2017219077
(32) 14.11.2017
(33) Japan

(51) G05B 19/042
B60W 50/02
B60W 60/00
G07C 5/08
(11) EP3882725
(21) EP21163721.0
(47) 29.01.2025
(22) 19.03.2021
(54) METHOD AND SYSTEM FOR REAL-TIME AND RELIABLE AUTONOMOUS VEHICLE FAULT DIAGNOSIS AND PROTECTION
(73) Beijing IDRIVERPLUS Technology Co., Ltd.
(72) PAN, Hao
ZENG, Zicheng
LI, Xiaofei
WANG, Xiao
ZHANG, Fang
HUO, Shuhao
CUI, Shiwei
ZHANG, Dezhao
(31) 202010200564
(32) 20.03.2020
(33) China

(51) G05B 19/042
G05B 19/418
(11) EP3891564
(21) EP19812820.9
(47) 29.01.2025
(87) EP2019083779
11.06.2020
(22) 05.12.2019
(54) INTEGRATION OF A PLURALITY OF INSTALLATION MODULES EACH HAVING AT LEAST ONE PROCESS-TECHNICAL UNIT TO FORM A MODULARLY CONSTRUCTED OVERALL INSTALLATION
(73) Phoenix Contact GmbH & Co. KG
(72) JESCHIN, Jörg
VOTHKNECHT, Claus
(31) 201805858
(32) 06.12.2018
(33) Belgium

(51) G05B 19/048
B61B 12/06
B61B 1/02
(11) EP4160327
(21) EP22198183.0
(47) 29.01.2025
(22) 27.09.2022
(54) A HAZARD MONITORING SYSTEM, METHOD FOR MONITORING

HAZARDS AT A LIFT STATION AND COMPUTER PROGRAM PRODUCT
(73) Syrto AG
(72) SCHNYDER, Remo
(31) 21200107
(32) 30.09.2021
(33) European Patent Office (EPO)

(51) G05B 19/05
G05B 19/042
G05B 19/409
(11) EP4236262
(21) EP23180742.1
(47) 29.01.2025
(22) 30.08.2019
(54) DEVICE AND METHOD FOR EMBEDDING A WEB FRAME IN PROCESS GRAPHICS
(73) Fisher-Rosemount Systems, Inc.
(72) HOUJI, Snehalata
TAJMAJER, Michael
FADUL, Camilo
STRINDEN, Daniel
WESTBROCK, Jon
SANCHEZ, Adrian
HAVEKOST, Robert
(31) 201816121091
(32) 04.09.2018
(33) United States of America

(51) G05B 19/05
G05B 23/02
(11) EP3715973
(21) EP17936750.3
(47) 29.01.2025
(87) CN2017120227
04.07.2019
(22) 29.12.2017
(54) ANOMALY DETECTION METHOD AND SYSTEM FOR PROCESS INSTRUMENT, AND PLC
(73) Siemens Aktiengesellschaft
(72) HU, Xi
LI, Ji
ZHUO, Yue
WANG, Qinggang

(51) G05B 19/12
G05B 23/00
G06T 7/70
(11) EP3940480
(21) EP20773341.1
(47) 29.01.2025
(87) BR2020050084
24.09.2020
(22) 12.03.2020
(54) PAINT-PRODUCTION SYSTEM WITH AUTOMATIC SELF-ADJUSTMENT OF PROPERTIES OF THE END PRODUCT, AND RELATED METHOD
(73) Baptista Auad, Rogério
(72) Baptista Auad, Rogério
(31) 102019005047
(32) 15.03.2019
(33) Brazil

(51) G05B 19/4069
G05B 19/4063
G05B 19/4065
(11) EP4172702
(21) EP21766489.5
(47) 29.01.2025
(87) EP2021073780
03.03.2022
(22) 27.08.2021
(54) SYSTEM AND METHOD FOR INSTANTANEOUS PERFORMANCE MANAGEMENT OF A MACHINE TOOL
(73) Siemens Aktiengesellschaft
(72) B R, Chethan Ravi
NAIR, Sudev
(31) 20193083
(32) 27.08.2020
(33) European Patent Office (EPO)

(51) G05B 19/416
G05B 19/4069
(11) EP4291960
(21) EP22725230.1
(47) 29.01.2025
(87) EP2022060858
03.11.2022
(22) 25.04.2022
(54) METHODS AND SYSTEMS FOR ADAPTING A FEED RATE OF A FEED CONTROL ON NUMERICALLY CONTROLLED MACHINE TOOLS
(73) Siemens Aktiengesellschaft
(72) KÖPKEN, Hans-Georg
JÄGER, Tobias
(31) 21171260
(32) 29.04.2021
(33) European Patent Office (EPO)

(51) G05B 23/02
A01G 3/08
B60L 58/24
(11) EP4009125
(21) EP20211296.7
(47) 29.01.2025
(22) 02.12.2020
(54) METHOD FOR DETERMINING INFORMATION ABOUT A CONDITION OF A DRIVE MOTOR SYSTEM AND/OR A DRIVE ACCUMULATOR PACK OF A GARDENING, FORESTRY AND/OR CONSTRUCTION MACHINE AND SYSTEM FOR DETERMINING INFORMATION ABOUT THE CONDITION OF A DRIVE MOTOR SYSTEM AND/OR DRIVE MOTOR SYSTEM CONSTRUCTION PROCESSING EQUIPMENT
(73) Andreas Stihl AG & Co. KG
(72) Conrad, Nils
Sigle, Christian
Trinkle, Simon
Naegele, Claus

(51) G05B 23/02
F03D 17/00
(11) EP3951532
(21) EP20784089.3
(47) 29.01.2025
(87) JP2020010213
08.10.2020
(22) 10.03.2020
(54) CONDITION MONITORING SYSTEM FOR A WIND POWER GENERATION FACILITY AND WIND POWER GENERATION SYSTEM INCLUDING THE SAME
(73) NTN Corporation
(72) IWANAGA, Hiroyuki
(31) 2019069662
(32) 01.04.2019
(33) Japan

(51) G05B 23/02
G05B 19/4065
G06F 119/04
(11) EP4071573
(21) EP22163238.3
(47) 29.01.2025
(22) 21.03.2022
(54) A METHOD FOR PREDICTING A REMAINING LIFETIME PARAMETER OF A COMPONENT
(73) Liebherr-Components Colmar SAS
(72) MARTIN, Mikaël
(31) 102021108560
(32) 07.04.2021
(33) Germany

(51) G05D 1/00
(11) EP3572897
(21) EP17893066.5
(47) 29.01.2025
(87) JP2017046691
26.07.2018
(22) 26.12.2017
(54) WORK VEHICLE
(73) Kubota Corporation
(72) NAKATSUKA, Takahiro
FUKUNAGA, Tomofumi
KOBAYASHI, Atsushi
NISHI, Keishiro
SHINKAI, Atsushi
(31) 2017087498
2017084414
2017084413
2017008348
2017008346
(32) 26.04.2017
21.04.2017
21.04.2017
20.01.2017
20.01.2017
(33) Japan
Japan
Japan
Japan
Japan

(51) G05D 1/00
(11) EP3696640
(21) EP19157249.4
(47) 29.01.2025
(22) 14.02.2019
(54) ROBOTIC VEHICLE FOR MOVABLE OPERATION IN A WORK AREA
(73) Stiga S.P.A.
(72) CECCHETTO, Mauro
MOOSBRUGGER, Anton
ROBINSON, Sean
SCHMIDT, Alexander
SCAPIN, Michele

(51) G05D 1/00
(11) EP4079125
(21) EP20901456.2
(47) 29.01.2025
(87) JP2020047171
24.06.2021
(22) 17.12.2020

(54) WORK VEHICLE
(73) KUBOTA CORPORATION
(72) YOSHIMURA Fumiya
SHINTANI Koichi
NISHIKUBO Takuya
YAMAGUCHI Kotaro
MORISHITA Takafumi
(31) 2019228668
(32) 18.12.2019
(33) Japan

(51) G05D 1/00
(11) EP4264389
(21) EP20965382.3
(47) 29.01.2025
(87) CN2020136446
23.06.2022
(22) 15.12.2020
(54) SIGNAL INTERFERENCE REJECTION METHOD AND APPARATUS
(73) Globe (Jiangsu) Co., Ltd.
(72) ALZEN, Jimmy

(51) G05D 1/00
(11) EP4180894
(21) EP21847177.9
(47) 29.01.2025
(87) CN2021090523
27.01.2022
(22) 28.04.2021
(54) METHOD AND DEVICE FOR PLANNING OBSTACLE AVOIDANCE PATH FOR TRAVELING DEVICE
(73) Huawei Digital Power Technologies Co., Ltd.
(72) CHENG, Siyuan
WANG, Xinyu
WANG, Chao
(31) 202010699919
(32) 20.07.2020
(33) China

(51) G05D 1/00
(11) EP4345565
(21) EP23215657.0
(47) 29.01.2025
(22) 23.06.2022
(54) UNIVERSAL CONTROL ARCHITECTURE FOR CONTROL OF UNMANNED SYSTEMS
(73) Tomahawk Robotics, Inc.
(72) BOWMAN, William S.
FALENDYSZ, Andrew D.
COOPER, Jeffrey S.
WAGONER, Sean
HEDMAN, Daniel R.
BOWMAN, Michael E.
MAKOVY, Kevin
SUMMER, Matthew D.
TRUESDELL, Brad
(31) 202217571305
202163215043 P
(32) 07.01.2022
25.06.2021
(33) United States of America
United States of America

(51) G05D 1/00
B63B 49/00
B63B 43/18
B63B 35/00
(11) EP4187347
(21) EP22210233.7
(47) 29.01.2025
(22) 29.11.2022
(54) SYSTEM AND METHOD FOR MULTI-IMAGE-BASED VESSEL PROXIMITY SITUATION RECOGNITION SUPPORT
(73) Korea Institute of Ocean Science & Technology
(72) PYO, ChunSeon
PARK, HanSol
SON, NamSun
(31) 20210167292
(32) 29.11.2021
(33) Korea (Republic)

(51) G05D 1/00
G01C 21/20
(11) EP4177695
(21) EP21833402.7
(47) 29.01.2025
(87) JP2021023299
06.01.2022
(22) 21.06.2021
(54) ROUTE PLANNING SYSTEM, MOBILE ROBOT, ROUTE PLANNING PROGRAM, AND MOBILE ROBOT CONTROL PROGRAM
(73) OMRON Corporation
(72) KOGA, Tatsuya
OKADA, Yasutaka
SASAKI, Jun
YAMADA, Ryota
(31) 2020115465
(32) 03.07.2020
(33) Japan

(51) G05D 1/00
G08G 1/00
G08G 1/16
B60W 40/02
B60W 30/09
B60W 50/14
B60W 60/00
B60W 50/02
(11) EP4131201
(21) EP21775655.0
(47) 29.01.2025
(87) JP2021009486
30.09.2021
(22) 10.03.2021
(54) INFORMATION PROCESSING METHOD AND INFORMATION PROCESSING SYSTEM
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) YONEDA, Takahiro
MATSUMURA, Yuki
HONDA, Yoshimasa
(31) 2020055906
(32) 26.03.2020
(33) Japan

(51) G05D 1/00
G08G 5/00
(11) EP4307072
(21) EP23166135.6
(47) 29.01.2025
(22) 31.03.2023
(54) POWER MANAGEMENT FOR LANDING UNMANNED AERIAL VEHICLES WITH VERTICAL-LIFT ROTORS
(73) The Boeing Company
(72) RYSDYK, Rolf
WINDE, Jonathon G.
(31) 202217713518
(32) 05.04.2022
(33) United States of America

(51) G05D 1/00
G10L 15/00
(11) EP4180892
(21) EP22179960.4
(47) 29.01.2025
(22) 26.09.2019
(54) SELF-AWARE VISUAL-TEXTUAL CO-GROUNDED NAVIGATION AGENT
(73) salesforce.com, inc.
(72) MA, Chih-Yao
XIONG, Caiming
(31) 201816176955
201862737684 P
(32) 31.10.2018
27.09.2018
(33) United States of America
United States of America

(51) G05D 1/20
(11) EP3885225
(21) EP18940791.9
(47) 29.01.2025
(87) KR2018014348
28.05.2020
(22) 21.11.2018
(54) DEVICE PROVIDED TO VEHICLE AND CONTROL METHOD THEREFOR
(73) LG Electronics Inc.
(72) CHOI, Hyoungkyu
LEE, Namsu
YOON, Jaegu
PARK, Junbum

(51) G05D 1/628
G05D 1/672
G05D 105/80
G05D 107/00
G05D 109/25
H01Q 1/27
H01Q 1/22
G01S 13/88
G01S 13/86
G01S 13/524
G01C 13/00
B64U 101/35
G01F 1/002
G01S 13/58
G01F 1/663
B64U 101/30
(11) EP4078095
(21) EP20823848.5
(47) 29.01.2025
(87) EP2020086307
24.06.2021
(22) 15.12.2020
(54) NON-INVASIVE METHOD AND DEVICE TO MEASURE THE FLOW RATE OF A RIVER, OPEN CHANNEL OR FLUID FLOWING IN AN UNDERGROUND PIPE OR CHANNEL
(73) Flow-Tronic S.A.
(72) SEVAR, Jean-Marie
(31) 19216692
(32) 16.12.2019

(33) European Patent Office (EPO)

(51) G05D 16/06
(11) EP4425295
(21) EP23159179.3
(47) 29.01.2025
(22) 28.02.2023
(54) PRESSURE REDUCER ASSEMBLY
(73) Husqvarna AB
(72) Renner, Thomas

(51) G05D 23/19
(11) EP3104249
(21) EP16153470.6
(47) 29.01.2025
(22) 29.01.2016
(54) INTERIOR VOLUME THERMAL MODELING AND CONTROL APPARATUSES, METHODS AND SYSTEMS
(73) Schneider Electric Usa, Inc.
(72) TURNER, Larry
(31) 201562110379 P
201562110398 P
201562110344 P
201562110393 P
201562110386 P
(32) 30.01.2015
30.01.2015
30.01.2015
30.01.2015
30.01.2015
(33) United States of America
United States of America
United States of America
United States of America
United States of America

(51) G06F 1/16
(11) EP4222576
(21) EP21736444.7
(47) 29.01.2025
(87) US2021036076
07.04.2022
(22) 07.06.2021
(54) HINGE ASSEMBLY FOR MOBILE COMPUTING DEVICE
(73) Microsoft Technology Licensing, LLC
(72) PARK, Daniel Clark
SIDDIQUI, Kabir
(31) 202117191630
202017133133
202063085071 P
(32) 03.03.2021
23.12.2020
29.09.2020
(33) United States of America
United States of America
United States of America

(51) G06F 1/16
(11) EP4180909
(21) EP22172888.4
(47) 29.01.2025
(22) 12.05.2022
(54) FOLDABLE HINGE AND ELECTRONIC DEVICE
(73) Beijing Xiaomi Mobile Software Co., Ltd.
(72) YANG, Jieming
(31) 202111342141
(32) 12.11.2021
(33) China

(51) G06F 1/16
G06F 3/01
(11) EP3579077
(21) EP18764579.1
(47) 29.01.2025
(87) CN2018075328
13.09.2018
(22) 05.02.2018
(54) TERMINAL
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) ZHANG, Haiping
(31) 201720219847 U
201710132062
(32) 07.03.2017
07.03.2017
(33) China
China

(51) G06F 1/16
G06F 3/04883
G06F 3/04886
G06F 3/044
(11) EP4177708
(21) EP22207171.4
(47) 29.01.2025
(22) 03.03.2006
(54) MULTI-FUNCTIONAL HAND-HELD DEVICE
(73) Apple Inc.
(72) HOTELLING, Steven Porter
(31) 663345 P
658777 P
(32) 16.03.2005
04.03.2005
(33) United States of America
United States of America

(51) G06F 1/16
G06F 3/04886
G06F 1/3234
(11) EP3830667
(21) EP19737435.8
(47) 29.01.2025
(87) US2019038859
19.03.2020
(22) 25.06.2019
(54) COMPUTING DEVICE DISPLAY MANAGEMENT
(73) Microsoft Technology Licensing, LLC
(72) BAREL, Eli
DEILY, Michael F.
PANAY, Panos C.
KIM, Young S.
TEDESCO, Megan L.
SCHENONE, Scott D.
ESCOLIN, Timothy G.
PLATT, David P.
(31) 201816128390
(32) 11.09.2018
(33) United States of America

(51) G06F 1/16
G09F 9/30
H04M 1/02
(11) EP3842895
(21) EP20212620.7
(47) 29.01.2025
(22) 09.12.2020
(54) DISPLAY DEVICE
(73) Fine DNC Co., Ltd.
Samsung Display Co., Ltd.
(72) Hong, Sung Chun
Jung, Taehyeog
Lee, Byoungsu
Ahn, Sungsang
Kim, Tae-Chang
(31) 20190175225
(32) 26.12.2019
(33) Korea (Republic)

(51) G06F 1/16
G09F 9/30
H04M 1/02
(11) EP4194995
(21) EP21889615.7
(47) 29.01.2025
(87) KR2021016034
12.05.2022
(22) 05.11.2021
(54) ELECTRONIC DEVICE INCLUDING FLEXIBLE DISPLAY
(73) Samsung Electronics Co., Ltd.
(72) YOON, Byounguk
CHO, Joongyeon
LEE, Seungjoon
YOON, Yeonggyu
KANG, Youngmin
CHOI, Junyoung
SHIN, Moonchul
(31) 20200181730
20200147658
(32) 23.12.2020
06.11.2020
(33) Korea (Republic)
Korea (Republic)

(51) G06F 1/16
H04M 1/02
(11) EP4404027
(21) EP23175991.1
(47) 29.01.2025
(22) 30.05.2023
(54) HINGE ASSEMBLY AND CASING ASSEMBLY FOR ELECTRONIC DEVICE
(73) Getac Technology Corporation
(72) CHANG, Juei-Chi
LEE, KUN-CHENG
(31) 202310073077
(32) 18.01.2023
(33) China

(51) G06F 1/16
H04M 1/02
G09F 9/30
G02F 1/1333
(11) EP4325282
(21) EP23209605.7
(47) 29.01.2025
(22) 06.11.2020
(54) ELECTRONIC DEVICE AND CONTROL METHOD THEREOF
(73) Vivo Mobile Communication Co., Ltd.
(72) LIU, Mingjian
DU, Xianhe
(31) 201911083554
(32) 07.11.2019
(33) China

(51) G06F 3/01
(11) EP3654142
(21) EP18206207.5

(47) 29.01.2025
(22) 14.11.2018
(54) FIRST-PERSON PERSPECTIVE-MEDIATED REALITY
(73) Nokia Technologies Oy
(72) Mate, Sujeet Shyamsundar
Lehtiniemi, Arto
Eronen, Antti Johannes
Leppänen, Jussi Artturi
(51) G06F 3/01
G06F 3/00
G06F 3/16
G10L 15/25
G10L 15/04
G10L 15/22
G06V 40/16
G06F 18/25
G06V 10/80
G10L 15/32
G10L 25/48
(11) EP3867735
(21) EP19894610.5
(47) 29.01.2025
(87) KR2019017730
18.06.2020
(22) 13.12.2019
(54) METHOD OF PERFORMING FUNCTION OF ELECTRONIC DEVICE AND ELECTRONIC DEVICE USING SAME
(73) Samsung Electronics Co., Ltd.
(72) JANG, Sungwoon
WOO, Hyelim
KIM, Sunok
(31) 20180162246
(32) 14.12.2018
(33) Korea (Republic)

(51) G06F 3/01
G06F 3/02
G06F 3/041
(11) EP3759575
(21) EP19710078.7
(47) 29.01.2025
(87) GB2019050535
29.08.2019
(22) 26.02.2019
(54) HAPTIC BUTTON WITH SHAPE MEMORY ALLOY
(73) Cambridge Mechatronics Limited
(72) WEBBER, Dominic George
SCHOLZ, Marc-Sebastian
FLOURIS, Andreas
HOWARTH, James
CARR, Joshua
BROWN, Andrew Benjamin Simpson
OOI, David Kuan Wei
BUNTING, Stephen Matthew
VAN WYK, Peter
POWELL, Thomas James
(31) 201813008
201803084
(32) 09.08.2018
26.02.2018
(33) United Kingdom
United Kingdom

(51) G06F 3/01
G06F 3/03
G06F 3/0346
(11) EP4189526
(21) EP21758231.1
(47) 29.01.2025
(87) US2021043345
10.02.2022
(22) 27.07.2021
(54) SYSTEMS AND METHODS FOR OBJECT TRACKING USING FUSED DATA
(73) META PLATFORMS TECHNOLOGIES, LLC
(72) YU, Tsz Ho
YAN, Chengyuan
FORSTER, Christian
(31) 202016983958
(32) 03.08.2020
(33) United States of America

(51) G06F 3/01
G06F 3/16
(11) EP4320498
(21) EP22712436.9
(47) 29.01.2025
(87) EP2022058273
13.10.2022
(22) 29.03.2022
(54) APPARATUS AND METHOD FOR GENERATING AN AUDIO SIGNAL
(73) Koninklijke Philips N.V.
(72) KOPPENS, Jeroen Gerardus Henricus
VAREKAMP, Christiaan
(31) 21167514
(32) 08.04.2021
(33) European Patent Office (EPO)

(51) G06F 3/041
G06F 3/042
G06V 40/13
H10K 59/35
H10K 59/40
H10K 59/65
H10K 59/80
(11) EP4053909
(21) EP22157327.2
(47) 29.01.2025
(22) 17.02.2022
(54) DISPLAY DEVICE
(73) Samsung Display Co., Ltd.
(72) Yang, Tae Hoon
Yoo, Byeong Wook
Kim, Suk
Kim, Gee Bum
Lee, Dae Young
Jung, Keum Dong
(31) 20210028369
(32) 03.03.2021
(33) Korea (Republic)

(51) G06F 3/0481
G06F 3/0487
G06F 1/16
G06F 3/04883
G06F 3/04886
G06F 3/147
G06T 11/60
(11) EP4057121
(21) EP22169395.5
(47) 29.01.2025
(22) 09.11.2016
(54) ELECTRONIC DEVICE HAVING ROLLABLE DISPLAY AND METHOD OF CONTROLLING THE SAME
(73) Samsung Electronics Co., Ltd.
(72) Lee, Sang-young
Jeong, Hee-seok
(31) 20160011446
201562256889 P
(32) 29.01.2016
18.11.2015
(33) Korea (Republic)
United States of America

(51) G06F 3/0481
G06F 9/451
G06F 3/0488
(11) EP4130955
(21) EP21797745.3
(47) 29.01.2025
(87) CN2021080231
04.11.2021
(22) 11.03.2021
(54) METHOD FOR MANAGING APPLICATION WINDOW, AND TERMINAL DEVICE AND COMPUTER-READABLE STORAGE MEDIUM
(73) Huawei Technologies Co., Ltd.
(72) HU, Yingfeng
WANG, Hongjun
(31) 202010346737
(32) 27.04.2020
(33) China

(51) G06F 3/0482
G06F 3/0488
(11) EP4158459
(21) EP21719817.5
(47) 29.01.2025
(87) US2021024750
02.12.2021
(22) 30.03.2021
(54) USER ACCESSIBLE TITLE BAR
(73) Microsoft Technology Licensing, LLC
(72) MAMARIL, Bryan K.
HOEF, Cassandra Lynn
(31) 202016886355
(32) 28.05.2020
(33) United States of America

(51) G06F 3/0484
G06T 13/40
G06T 19/20
(11) EP4177724
(21) EP21868404.1
(47) 29.01.2025
(87) CN2021114237
24.03.2022
(22) 24.08.2021
(54) FACIAL IMAGE DISPLAY METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM
(73) BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD.
(72) LIU, Jiacheng
(31) 202010981627
(32) 17.09.2020
(33) China

(51) G06F 3/0488
G06F 3/04817
B66F 9/075
B66F 9/24

G06F 3/0483
(11) EP3995944
(21) EP21210326.1
(47) 29.01.2025
(22) 17.11.2017
(54) USER INTERFACE DEVICE FOR INDUSTRIAL VEHICLE
(73) Crown Equipment Corporation
(72) NEUBERT, Katharine
OCHENAS, Jonathan
(31) 201662425099 P
(32) 22.11.2016
(33) United States of America

(51) G06F 3/04883
G06F 3/04817
(11) EP4180933
(21) EP21837647.3
(47) 29.01.2025
(87) CN2021097697
13.01.2022
(22) 01.06.2021
(54) DEVICE CONTROL METHOD AND APPARATUS, AND STORAGE MEDIUM AND ELECTRONIC DEVICE
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) MO, Boyu
(31) 202010658123
(32) 09.07.2020
(33) China

(51) G06F 3/06
(11) EP4361786
(21) EP23182401.2
(47) 29.01.2025
(22) 29.06.2023
(54) COMPUTATIONAL STORAGE DEVICE, METHOD FOR OPERATING THE COMPUTATIONAL STORAGE DEVICE AND METHOD FOR OPERATING HOST DEVICE
(73) Samsung Electronics Co., Ltd.
(72) LEE, Jong Won
(31) 20220137423
(32) 24.10.2022
(33) Korea (Republic)

(51) G06F 3/12
(11) EP3945408
(21) EP21187416.9
(47) 29.01.2025
(22) 23.07.2021
(54) INFORMATION PROCESSING APPARATUS, CONTROL METHOD, AND PROGRAM
(73) CANON KABUSHIKI KAISHA
(72) MATSUI, Yusuke
(31) 2020128509
(32) 29.07.2020
(33) Japan

(51) G06F 3/12
H04N 1/203
H04N 1/32
(11) EP4206894
(21) EP21881665.0
(47) 29.01.2025
(87) CN2021112166
28.04.2022
(22) 12.08.2021
(54) IMAGE PROCESSING METHOD AND DEVICE
(73) Zhuhai Pantum Electronics Co., Ltd.
(72) SHANG, Yunying
HU, Dongcheng
YU, Han
(31) 202011140527
(32) 22.10.2020
(33) China

(51) G06F 3/14
H04N 17/02
H04N 17/04
(11) EP3891595
(21) EP19839024.7
(47) 29.01.2025
(87) US2019066679
09.07.2020
(22) 17.12.2019
(54) TECHNIQUES FOR DETERMINING EFFECTIVE COLOR SPACE OF A DISPLAY
(73) Microsoft Technology Licensing, LLC
(72) SPRUILL, David Foster
TAO, Simon Young
(31) 201816237030
(32) 31.12.2018
(33) United States of America

(51) G06F 3/16
H04R 1/10
H04R 5/027
H04R 5/033
H04S 3/00
H04W 4/80
G11B 27/10
H04R 3/00
(11) EP4162709
(21) EP21731628.0
(47) 29.01.2025
(87) US2021032516
09.12.2021
(22) 14.05.2021
(54) CAPTURING AND SYNCHRONIZING DATA FROM MULTIPLE SENSORS
(73) Bose Corporation
(72) BLAGROVE, Nathan
MEIYAPPAN, Somasundaram
(31) 202021023355
202117319333
(32) 03.06.2020
13.05.2021
(33) India
United States of America

(51) G06F 7/58
(11) EP4130977
(21) EP21781090.2
(47) 29.01.2025
(87) ES2021070179
07.10.2021
(22) 12.03.2021
(54) QUANTUM RANDOM NUMBER GENERATOR
(73) Universidad de Vigo
(72) DÍAZ OTERO, Francisco, Javier
(31) 202030271
(32) 03.04.2020
(33) Spain

(51) G06F 8/33
G06F 8/34
G06F 8/38
G06F 9/451
(11) EP4224310
(21) EP22155721.8
(47) 29.01.2025
(22) 08.02.2022
(54) METHODS AND SYSTEMS FOR REIDENTIFICATION IN A USER INTERFACE
(73) Blue Prism Limited
(72) SENSOY, Murat

(51) G06F 8/34
F24F 11/46
F24F 11/50
G06F 3/16
G10L 15/00
G10L 15/28
H04Q 9/00
F24F 11/56
F24F 11/62
(11) EP4036710
(21) EP22163669.9
(47) 29.01.2025
(22) 13.07.2018
(54) AIR CONDITIONING MANAGEMENT SYSTEM
(73) Daikin Industries, Ltd.
(72) MATSUBARA, Atsushi
TSUDA, Tetsushi
MAEDA, Toshiyuki
SAKAI, Seiichi
TSUBOI, Kousuke
GUNTURU, Naveen
HIROSE, Tadashi
TEI, Shimei
TASAKA, Akio
OHSHIMA, Hisanori
KITAURA, Yoshihiro
MATSUMURA, Naoki
KURIYAMA, Naoko
(31) 2017213117
2017138612
2017138627
2017138626
2017138625
2017138613
2017138624
(32) 02.11.2017
14.07.2017
14.07.2017
14.07.2017
14.07.2017
14.07.2017
14.07.2017
(33) Japan
Japan
Japan
Japan
Japan
Japan
Japan

(51) G06F 8/60
G06F 9/445
(11) EP3611616
(21) EP19191686.5
(47) 29.01.2025
(22) 14.08.2019

(54) SOFTWARE CODE OPTIMIZER AND METHOD
(73) Pegasystems Inc.
(72) ARNOLD, John
GAGNON, Paul
JOHNSON, Nigel
MARTEL, Timothy
(31) 201862718809 P
(32) 14.08.2018
(33) United States of America

(51) G06F 8/61
G06F 9/445
(11) EP4281857
(21) EP21839769.3
(47) 29.01.2025
(87) US2021062722
28.07.2022
(22) 10.12.2021
(54) APPLICATION DEPLOYMENT FOR APPLICATIONS OFFERED BY MULTIPLE DEPLOYMENT SOURCES
(73) Microsoft Technology Licensing, LLC
(72) ARGIL TORRES, Jose Julian
GARCIA GOMEZ, Yeison David
MORENO, David
YOO, Jeremy Tae
(31) 202117153506
(32) 20.01.2021
(33) United States of America

(51) G06F 8/65
(11) EP3797350
(21) EP19735412.9
(47) 29.01.2025
(87) IT2019050109
28.11.2019
(22) 21.05.2019
(54) SYSTEM TO DESIGN AND/OR UPDATE PROGRAMS FOR INDUSTRIAL DEVICES ASSIGNED TO THE OPERATOR INTERFACE AND/OR TO MANAGE MACHINES AND/OR PLANTS FOR INDUSTRIAL AUTOMATION
(73) ASEM S.r.l.
(72) FUMAGALLI, Maurizio
RICCIO, Alberto
(31) 201800005542
(32) 21.05.2018
(33) Italy

(51) G06F 8/65
G06F 11/14
G06F 8/71
G06F 9/4401
G06F 9/445
(11) EP4202647
(21) EP22824228.5
(47) 29.01.2025
(87) CN2022098854
22.12.2022
(22) 15.06.2022
(54) OPERATING SYSTEM UPGRADING METHOD, AND DEVICE, STORAGE MEDIUM AND COMPUTER PROGRAM PRODUCT
(73) Honor Device Co., Ltd.
(72) CHEN, Chao
WANG, Yanzhao
LI, Yongchao
ZHANG, Zenghui
(31) 202110661865
(32) 15.06.2021
(33) China

(51) G06F 8/656
(11) EP4130986
(21) EP22197232.6
(47) 29.01.2025
(22) 16.10.2020
(54) MODIFYING PROGRAM MODULES IN RUNNING APPLICATIONS
(73) Microsoft Technology Licensing, LLC
(72) JAIN, Abhinav
WALEC, Krystian Krzysztof
GOODWIN, Robert Lovejoy
BARAC, Dragos
FAGHIHI REZAEI, Pedram
(31) 201916662001
(32) 23.10.2019
(33) United States of America

(51) G06F 8/658
G06F 11/14
G06F 9/445
G06F 9/4401
G06F 8/71
(11) EP4141651
(21) EP22801946.9
(47) 29.01.2025
(87) CN2022098863
22.12.2022
(22) 15.06.2022
(54) OPERATING SYSTEM DATA UPDATING METHOD AND DEVICE, STORAGE MEDIUM, AND PROGRAM PRODUCT
(73) Honor Device Co., Ltd.
(72) ZHANG, Zenghui
CHEN, Chao
WANG, Yanzhao
(31) 202110662973
(32) 15.06.2021
(33) China

(51) G06F 8/74
(11) EP3961384
(21) EP20192815.7
(47) 29.01.2025
(22) 26.08.2020
(54) AUTOMATIC DERIVATION OF SOFTWARE ENGINEERING ARTIFACT ATTRIBUTES FROM PRODUCT OR SERVICE DEVELOPMENT CONCEPTS
(73) Siemens Aktiengesellschaft
(72) Körner, Christian
(31) 20192519
(32) 25.08.2020
(33) European Patent Office (EPO)

(51) G06F 8/77
(11) EP4309034
(21) EP22716906.7
(47) 29.01.2025
(87) EP2022057228
22.09.2022
(22) 18.03.2022
(54) SOFTWARE COMPOSITION ANALYSIS ON TARGET SOURCE CODE
(73) Snyk Sweden AB
(72) ALDAMA, Jon
ÅKERUD, Daniel
(31) 202117207238
(32) 19.03.2021
(33) United States of America

(51) G06F 9/30
G06F 9/38
(11) EP4264419
(21) EP21816013.3
(47) 29.01.2025
(87) EP2021082175
23.06.2022
(22) 18.11.2021
(54) COMMAND-TYPE FILTERING BASED ON PER-COMMAND FILTERING INDICATOR
(73) International Business Machines Corporation
(72) KISLEY, Richard
GOMES, Louis
(31) 202017122346
(32) 15.12.2020
(33) United States of America

(51) G06F 9/445
(11) EP3264265
(21) EP15885828.2
(47) 29.01.2025
(87) CN2015074789
29.09.2016
(22) 20.03.2015
(54) APPLICATION PROTECTION METHOD, SERVER AND TERMINAL
(73) Huawei Technologies Co. Ltd.
(72) WANG, Fei

(51) G06F 9/445
G06F 9/451
(11) EP3756101
(21) EP19756522.9
(47) 29.01.2025
(87) US2019017419
29.08.2019
(22) 11.02.2019
(54) DYNAMIC USER INTERFACE BLUEPRINT
(73) American Express Travel Related Services Company, Inc.
(72) DASARI, Srinivas
ATHALE, Anant
(31) 201815898788
(32) 19.02.2018
(33) United States of America

(51) G06F 9/448
G06F 8/30
G06F 16/84
(11) EP4172761
(21) EP21731620.7
(47) 29.01.2025
(87) US2021032124
30.12.2021
(22) 13.05.2021
(54) INITIAL LOADING OF PARTIAL DEFERRED OBJECT MODEL
(73) Microsoft Technology Licensing, LLC
(72) LOUVAU, Scott M.
FANNING, Michael C.
(31) 202016912386
(32) 25.06.2020
(33) United States of America

(51) G06F 9/451
G06T 11/40
(11) EP4083792

(21) EP21851485.9
(47) 29.01.2025
(87) CN2021081367
03.02.2022
(22) 17.03.2021
(54) IMAGE PROCESSING METHOD AND ELECTRONIC DEVICE
(73) Honor Device Co., Ltd.
(72) CHEN, Tankun
LU, Tao
(31) 202010762068
(32) 31.07.2020
(33) China

(51) G06F 9/451
H04M 1/72463
G06F 3/0488
(11) EP3623943
(21) EP19204820.5
(47) 29.01.2025
(22) 21.05.2014
(54) PORTABLE DEVICE AND METHOD FOR RESTRICTING USE OF PORTABLE DEVICE
(73) Samsung Electronics Co., Ltd.
(72) LEE, Jun-Seok
KIM, Hwa-Kyung
JUN, Jin-Ha
(31) 20130100359
(32) 23.08.2013
(33) Korea (Republic)

(51) G06F 9/455
G06F 9/48
(11) EP4170492
(21) EP21832328.5
(47) 29.01.2025
(87) CN2021102011
06.01.2022
(22) 24.06.2021
(54) SYSTEM AND INTERRUPT PROCESSING METHOD
(73) Huawei Technologies Co., Ltd.
(72) MA, Jian
WANG, Haibin
YU, Zenghui
(31) 202010604993
(32) 29.06.2020
(33) China

(51) G06F 9/455
G06F 9/50
H04L 67/1001
(11) EP4220396
(21) EP22215261.3
(47) 29.01.2025
(22) 15.11.2017
(54) ACCELERATION RESOURCE SCHEDULING METHOD AND ACCELERATION SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) Jia, Xiaolin
Wang, Junjie

(51) G06F 9/46
G06F 9/54
(11) EP4095688
(21) EP22175817.0
(47) 29.01.2025
(22) 27.05.2022
(54) METHOD AND APPARATUS FOR PROCESSING TRANSACTION
(73) Samsung SDS Co., Ltd.
(72) PARK, Joo Kyung
IM, Jong In
HAN, Sang Uk
KIM, Yong Tae
(31) 20210069115
(32) 28.05.2021
(33) Korea (Republic)

(51) G06F 9/50
(11) EP3862881
(21) EP20215759.0
(47) 29.01.2025
(22) 18.12.2020
(54) SYSTEM AND METHOD FOR OFFLOADING APPLICATION EXTENSION SCRIPT EXECUTION FROM APPLICATION HOSTING INFRASTRUCTURE
(73) Shopify Inc.
(72) CAMERON, David
DICKINSON, Jonathan
(31) 202016820920
202062971614 P
(32) 17.03.2020
07.02.2020
(33) United States of America
United States of America

(51) G06F 9/54
G06F 9/445
H04L 41/0806
H04L 41/08
H04L 41/5054
G06F 9/451
H04L 41/0816
H04L 41/0893
H04L 43/16
(11) EP4131006
(21) EP22188562.7
(47) 29.01.2025
(22) 03.08.2022
(54) AUTOMATED SERVICE INTEGRATION IN SERVICE MESHES
(73) SAP SE
(72) EBERLEIN, Peter
DRIESEN, Volker
(31) 202117395654
(32) 06.08.2021
(33) United States of America

(51) G06F 11/00
G06N 20/10
(11) EP3602308
(21) EP18717465.1
(47) 29.01.2025
(87) US2018023433
27.09.2018
(22) 20.03.2018
(54) CODE DEFECT PREDICTION BY TRAINING A SYSTEM TO IDENTIFY DEFECT PATTERNS IN CODE HISTORY
(73) Versata Development Group, Inc.
(72) GURUKAR, Saket
DURGA, Ahmedali
(31) 201715463071
(32) 20.03.2017
(33) United States of America

(51) G06F 11/07
(11) EP3798839
(21) EP19213050.8
(47) 29.01.2025
(22) 03.12.2019
(54) LOG ANALYSIS IN VECTOR SPACE
(73) Juniper Networks, Inc.
(72) WANG, Jisheng
NANDODE, Gaurav Sunil
FERNANDES, Winson Benedict
(31) 201916583064
(32) 25.09.2019
(33) United States of America

(51) G06F 11/07
G06F 11/14
G06F 11/30
G06F 11/34
G06F 12/02
G06F 12/0815
G06F 12/1036
(11) EP4097594
(21) EP20839447.8
(47) 29.01.2025
(87) US2020064742
05.08.2021
(22) 14.12.2020
(54) SELECTIVE ENDPOINT ISOLATION FOR SELF-HEALING IN A CACHE AND MEMORY COHERENT SYSTEM
(73) Microsoft Technology Licensing, LLC
(72) LEA, Perry Victor
(31) 202016777502
(32) 30.01.2020
(33) United States of America

(51) G06F 11/263
G06F 11/32
G06F 11/36
(11) EP4264433
(21) EP21823854.1
(47) 29.01.2025
(87) EP2021083725
23.06.2022
(22) 01.12.2021
(54) SYSTEM TESTING INFRASTRUCTURE WITH HIDDEN VARIABLE, HIDDEN ATTRIBUTE, AND HIDDEN VALUE DETECTION
(73) International Business Machines Corporation
(72) GISOLFI, Daniel, Nicolas
RAWLINS, Ryan, Thomas
MINERLEY, Kevin
HICKS, Andrew
BLUE, Dale
(31) 202017121854
(32) 15.12.2020
(33) United States of America

(51) G06F 11/36
(11) EP3704588
(21) EP18830975.1
(47) 29.01.2025
(87) US2018063533
13.06.2019
(22) 02.12.2018
(54) STRONG SIMULATION METHODS FOR UNIT TESTING QUANTUM SOFTWARE
(73) Microsoft Technology Licensing, LLC
(72) KLIUCHNIKOV, Vadym
PAZ, Andres C.
GRANADE, Christopher

(31) 201816023908
201762596620 P
(32) 29.06.2018
08.12.2017
(33) United States of America
United States of America

(51) G06F 11/36
G06N 20/00
G06F 18/24
G06F 30/00
G05B 19/00
(11) EP4307121
(21) EP23176378.0
(47) 29.01.2025
(22) 31.05.2023
(54) COMPUTER-IMPLEMENTED METHOD FOR CONFIGURING A VIRTUAL TEST SYSTEM AND TRAINING METHOD
(73) dSPACE GmbH
(72) Hildebrandt, Andre
(31) 102022117160
(32) 11.07.2022
(33) Germany

(51) G06F 12/02
(11) EP3987402
(21) EP20728850.7
(47) 29.01.2025
(87) US2020031397
24.12.2020
(22) 05.05.2020
(54) ARENA-BASED MEMORY MANAGEMENT
(73) Microsoft Technology Licensing, LLC
(72) GOODWIN, Robert Lovejoy
SALADA, Charles Ryan
SOLLICH, Peter Franz Valentin
(31) 201916447790
(32) 20.06.2019
(33) United States of America

(51) G06F 12/02
G06F 3/06
G06F 9/48
G06F 9/50
G06F 9/54
(11) EP4398111
(21) EP23208574.6
(47) 29.01.2025
(22) 08.11.2023
(54) COMPUTATIONAL STORAGE DEVICE AND METHOD FOR OPERATING THE DEVICE
(73) Samsung Electronics Co., Ltd.
(72) LEE, Jong Won
(31) 20230000554
(32) 03.01.2023
(33) Korea (Republic)

(51) G06F 12/02
G06F 13/40
G06F 13/42
(11) EP4217874
(21) EP21791200.5
(47) 29.01.2025
(87) US2021051669
31.03.2022
(22) 23.09.2021
(54) UNIFIED MEMORY MANAGEMENT FOR A MULTIPLE PROCESSOR SYSTEM
(73) Hughes Network Systems, LLC
(72) SETHI, Yogesh
VARHALE, Ashish A.
BHATIA, Gaurav
CHENG, Yingquan
KAKKAR, Karan
HANTZ, Daniel C.
(31) 202017031432
(32) 24.09.2020
(33) United States of America

(51) G06F 12/0804
G06F 3/06
G06F 12/0868
G06F 12/0862
G06F 12/0873
G06F 12/0888
(11) EP4325367
(21) EP22200475.6
(47) 29.01.2025
(22) 10.10.2022
(54) METHOD AND DEVICE FOR DATA CACHING
(73) Samsung Electronics Co., Ltd.
(72) DONG, Fei
JIANG, Yan
ZHOU, Yangxu
(31) 202210992490
(32) 18.08.2022
(33) China

(51) G06F 12/0888
G06F 12/126
(11) EP3552110
(21) EP17822865.6
(47) 29.01.2025
(87) US2017065094
14.06.2018
(22) 07.12.2017
(54) NO ALLOCATE CACHE POLICY
(73) Advanced Micro Devices, Inc.
(72) FOWLER, Mark
(31) 201615374788
(32) 09.12.2016
(33) United States of America

(51) G06F 12/0895
G06F 12/06
(11) EP4198748
(21) EP22207649.9
(47) 29.01.2025
(22) 15.11.2022
(54) INTERLEAVED CACHED MEMORY
(73) Next Silicon Ltd
(72) SHECHTER, Dan
RAZ, Elad
(31) 202117553931
(32) 17.12.2021
(33) United States of America

(51) G06F 12/14
G06F 9/345
(11) EP4208794
(21) EP21786638.3
(47) 29.01.2025
(87) US2021048634
10.03.2022
(22) 01.09.2021
(54) MEMORY PROTECTION FOR VECTOR OPERATIONS
(73) Sifive, Inc.
(72) ASANOVIC, Krste
WATERMAN, Andrew
(31) 202063073916 P
(32) 02.09.2020
(33) United States of America

(51) G06F 13/16
G06F 3/06
(11) EP3791257
(21) EP19800712.2
(47) 29.01.2025
(87) US2019028843
14.11.2019
(22) 24.04.2019
(54) MEMORY BUFFER MANAGEMENT AND BYPASS
(73) MICRON TECHNOLOGY, INC.
(72) HASBUN, Robert, Nasry
GANS, Dean, D.
DARUWALLA, Sharookh
(31) 201816113854
201815975607
(32) 27.08.2018
09.05.2018
(33) United States of America
United States of America

(51) G06F 13/16
G06F 5/06
G06F 5/10
(11) EP4081896
(21) EP20907399.8
(47) 29.01.2025
(87) US2020067084
01.07.2021
(22) 27.12.2020
(54) USING AGE MATRICES FOR MANAGING ENTRIES IN SUB-QUEUES OF A QUEUE
(73) Advanced Micro Devices, Inc.
(72) DONLEY, Gregg
SILLA, Mark
(31) 201916729377
(32) 28.12.2019
(33) United States of America

(51) G06F 13/16
G06F 5/14
H04L 47/32
H04W 28/14
G06F 1/3234
H04L 49/90
G06F 1/3209
G06F 1/3287
(11) EP4248328
(21) EP21811552.5
(47) 29.01.2025
(87) US2021054433
27.05.2022
(22) 11.10.2021
(54) SYSTEM AND METHOD FOR MODEM STABILIZATION WHEN WAITING FOR AP-DRIVEN LINK RECOVERY
(73) QUALCOMM INCORPORATED
(72) MITRA, Alok
PAIK, Hyun Seung
(31) 202017100579
(32) 20.11.2020
(33) United States of America

(51) G06F 13/16
G06F 11/30
(11) EP4211566

(21) EP20808243.8
(47) 29.01.2025
(87) US2020057293
05.05.2022
(22) 26.10.2020
(54) MODULATING CREDIT ALLOCATIONS IN MEMORY SUBSYSTEMS
(73) Google LLC
(72) BAGCHI, Abhra
PUTTI, Nagaraj Ashok
ANANTHANARAYANAN, Venkateswaran
NAINALA, Vyagrheswarudu Durga

(51) G06F 13/16
G06F 13/40
(11) EP4273709
(21) EP23198384.2
(47) 29.01.2025
(22) 04.09.2020
(54) TECHNIQUES FOR COMMAND BUS TRAINING TO A MEMORY DEVICE
(73) INTEL Corporation
(72) TAYLOR, Steven
GOH, Alvin Shing Chye
MOZAK, Christopher
(31) 201916709798
(32) 10.12.2019
(33) United States of America

(51) G06F 13/28
(11) EP4231163
(21) EP22157005.4
(47) 29.01.2025
(22) 16.02.2022
(54) DIRECT MEMORY ACCESS SYSTEM, SYSTEM FOR PROCESSING SENSOR DATA AND METHOD FOR DIRECT MEMORY ACCESS
(73) Infineon Technologies AG
(72) HOSTALKA, Henrik
NIEDETZKY, Boris Alexander
ZHENG, Yuanfen

(51) G06F 13/36
G06F 13/38
H04L 12/40
(11) EP4074014
(21) EP20898864.2
(47) 29.01.2025
(87) IB2020061663
17.06.2021
(22) 08.12.2020
(54) METHOD AND SYSTEM FOR HIGH INTEGRITY CAN BUS TRAFFIC SUPERVISION IN SAFETY CRITICAL APPLICATION
(73) Ground Transportation Systems Canada Inc.
(72) LUNGU, Mihai
KANNER, Abe
GREEN, Alon
(31) 201962945675 P
(32) 09.12.2019
(33) United States of America

(51) G06F 16/22
G06F 16/901
(11) EP4198760
(21) EP21215913.1
(47) 29.01.2025
(22) 20.12.2021
(54) METHOD FOR PROCESSING SIGNAL DATA
(73) PLATH GmbH & Co. KG
(72) ALT, Martin

(51) G06F 16/27
H04L 9/40
G06F 21/57
H04L 9/00
H04L 9/32
H04L 9/08
(11) EP4359954
(21) EP23717270.5
(47) 29.01.2025
(87) JP2023010206
04.01.2024
(22) 09.03.2023
(54) SYSTEMS AND METHODS FOR BLOCKCHAIN-BASED INDUSTRIAL AUTOMATION
(73) Mitsubishi Electric Corporation
(72) KALABIC, Uros
CHIU, Tsz-Chun Michael
GOLDSMITH, Abraham
(31) 202217809255
(32) 27.06.2022
(33) United States of America

(51) G06F 16/35
G06F 40/30
(11) EP4248334
(21) EP21816006.7
(47) 29.01.2025
(87) EP2021082138
27.05.2022
(22) 18.11.2021
(54) METHODS AND SYSTEMS FOR REUSE OF DATA ITEM FINGERPRINTS IN GENERATION OF SEMANTIC MAPS
(73) Cortical.io AG
(72) DE SOUSA WEBBER, Francisco
(31) 202063115944 P
(32) 19.11.2020
(33) United States of America

(51) G06F 16/40
G06F 16/13
G06F 16/23
G06F 16/41
G06F 16/178
G06F 16/22
G06F 16/955
H04N 21/43
(11) EP3100182
(21) EP15705154.1
(47) 29.01.2025
(87) US2015013568
06.08.2015
(22) 29.01.2015
(54) METHODS AND DEVICES FOR SYNCHRONIZING AND SHARING MEDIA ITEMS
(73) Meta Platforms, Inc.
(72) PONCZEK, Justin
SCHOEBEN, Spencer
MCDERMOTT, Graham
FULTON, Jesse
SNIBBE, Scott
(31) 201514608097
201461934681 P
(32) 28.01.2015
31.01.2014
(33) United States of America
United States of America

(51) G06F 16/906
(11) EP3871113
(21) EP18942312.2
(47) 29.01.2025
(87) CN2018118884
11.06.2020
(22) 03.12.2018
(54) METHOD AND APPARATUS FOR CLASSIFYING DATA
(73) Siemens Mobility GmbH
(72) LIU, Xiaonan
HUI, Haotian
LU, Lei
LOH, Changwei
WU, Chaohua
LI, Congchao

(51) G06F 16/9535
(11) EP3895038
(21) EP19829383.9
(47) 29.01.2025
(87) US2019064804
18.06.2020
(22) 06.12.2019
(54) PERSONALIZED SEARCH RESULT RANKINGS
(73) Microsoft Technology Licensing, LLC
(72) DE BARROS, Marcelo
SINGHAL, Aman
SRINIVASAN, Prithvishankar
(31) 201816219791
(32) 13.12.2018
(33) United States of America

(51) G06F 17/11
G06N 3/047
G06N 5/01
G06N 3/092
G06N 3/098
G06N 7/01
(11) EP4148628
(21) EP22175119.1
(47) 29.01.2025
(22) 24.05.2022
(54) DATA PROCESSING APPARATUS, DATA PROCESSING METHOD, AND DATA PROCESSING PROGRAM
(73) FUJITSU LIMITED
(72) Watanabe, Yasuhiro
(31) 2021148257
(32) 13.09.2021
(33) Japan

(51) G06F 18/25
(11) EP3033010
(21) EP14758727.3
(47) 29.01.2025
(87) US2014050030
19.02.2015
(22) 07.08.2014
(54) SYSTEMS AND METHODS FOR IDENTIFYING PERSONALIZED VASCULAR IMPLANTS FROM PATIENT-SPECIFIC ANATOMIC DATA
(73) HeartFlow, Inc.
(72) TAYLOR, Charles, A.
ROGERS, Campbell
CHOI, Gilwoo

GRADY, Leo
(31) 201414254544
201414254599
201414254630
201361866758 P
(32) 16.04.2014
16.04.2014
16.04.2014
16.08.2013
(33) United States of America
United States of America
United States of America
United States of America

(51) G06F 21/14
(11) EP3799641
(21) EP19744929.1
(47) 29.01.2025
(87) US2019039398
16.01.2020
(22) 27.06.2019
(54) PROTECTING ARTIFICIAL INTELLIGENCE MODELS USING VIRTUAL SECURE MODE
(73) Microsoft Technology Licensing, LLC
(72) TERAN GUAJARDO, Adrian Francisco
LIANG, Chen
SHEN, Wenbo
NITTA, Bryston Mitsuo
(31) 201816031715
(32) 10.07.2018
(33) United States of America

(51) G06F 21/31
G06F 21/44
G06F 21/60
G06F 21/62
H04L 9/40
G06F 3/06
(11) EP3732598
(21) EP18826282.8
(47) 29.01.2025
(87) EP2018085298
04.07.2019
(22) 17.12.2018
(54) METHOD, FIRST DEVICE, SECOND DEVICE AND SYSTEM FOR MANAGING ACCESS TO DATA
(73) Thales Dis France SAS
THALES DIS CPL USA, INC.
(72) ALI, Asad Mahbaab
HUGOT, Didier
ARORA, Gorav
(31) 201715858882
(32) 29.12.2017
(33) United States of America

(51) G06F 21/31
G06F 21/45
G06F 21/34
G06F 21/42
H04L 9/40
(11) EP3877877
(21) EP19909657.9
(47) 29.01.2025
(87) CA2019051741
23.07.2020
(22) 04.12.2019
(54) METHODS AND SYSTEMS FOR DETECTING UNAUTHORIZED ACCESS
(73) Malikie Innovations Limited
(72) MITCHELL, Robert Scott
(31) 201916250410
(32) 17.01.2019
(33) United States of America

(51) G06F 21/51
H04L 9/40
(11) EP4281887
(21) EP21840084.4
(47) 29.01.2025
(87) FR2021052211
28.07.2022
(22) 06.12.2021
(54) METHOD AND DEVICE FOR CONTROLLING ACCESS TO A DATABUS ON BOARD A VEHICLE BY EXTERNAL DIAGNOSTIC COMPUTING MEANS
(73) Stellantis Auto SAS
(72) DHAINAUT, Jean Marc
(31) 2100678
(32) 25.01.2021
(33) France

(51) G06F 21/55
A63F 13/30
A63F 13/35
A63F 13/73
G07F 17/32
A63F 13/75
(11) EP3833458
(21) EP19846733.4
(47) 29.01.2025
(87) US2019045375
13.02.2020
(22) 06.08.2019
(54) GAME ENGINE-BASED COMPUTER SECURITY
(73) JAMF SOFTWARE, LLC
(72) WARDLE, Patrick Nathaniel
MALM, Jonathan Allan
STEIN, Joshua Howard
(31) 201862715627 P
(32) 07.08.2018
(33) United States of America

(51) G06F 21/55
G06F 21/56
G06F 21/51
(11) EP3958153
(21) EP21202731.2
(47) 29.01.2025
(22) 19.12.2018
(54) DETECTING SCRIPT-BASED MALWARE
(73) CrowdStrike, Inc.
(72) IONESCU, Ion-Alexandru
TANDA, Satoshi
(31) 201816224678
201762607870 P
(32) 18.12.2018
19.12.2017
(33) United States of America
United States of America

(51) G06F 21/55
H04L 9/40
(11) EP4206963
(21) EP22211857.2
(47) 29.01.2025
(22) 07.12.2022
(54) SYSTEM AND METHOD FOR DIAGNOSTICS AND MONITORING OF ANOMALIES OF A CYBER-PHYSICAL SYSTEM
(73) AO Kaspersky Lab
(72) DEMIDOV, Nikolay N.
LAVRENTYEV, Andrey B.
TRAVOV, Alexander V.
SHKULEV, Vyacheslav I.
MAMAEV, Maxim A.
NECHIPORUK, Artyom M.
VORONTSOV, Artem M.
IVANOV, Dmitry A.
(31) 2021139349
202217973796
(32) 28.12.2021
26.10.2022
(33) Russian Federation
United States of America

(51) G06F 21/57
H04L 9/40
G06F 21/55
(11) EP3948600
(21) EP20784480.4
(47) 29.01.2025
(87) US2020023557
08.10.2020
(22) 19.03.2020
(54) SYSTEM AND METHOD FOR MITIGATING CYBER SECURITY THREATS
(73) Armis Security Ltd.
(72) LADELSKY LELLOUCH, Shiri
SELTZER, Misha
IZRAEL, Nadir
(31) 201916371794
(32) 01.04.2019
(33) United States of America

(51) G06F 21/62
G06F 21/10
H04L 9/00
G06F 21/16
H04L 67/50
H04L 67/10
(11) EP4232928
(21) EP21758261.8
(47) 29.01.2025
(87) US2021043805
28.04.2022
(22) 30.07.2021
(54) DATA PROVENANCE TRACKING SERVICE
(73) Microsoft Technology Licensing, LLC
(72) BLISS, William James
(31) 202017077935
(32) 22.10.2020
(33) United States of America

(51) G06F 21/62
G06F 21/60
H04L 9/40
G06F 40/174
G06F 40/186
G06Q 40/03
G06Q 30/0201
G06F 16/906
(11) EP4070229
(21) EP20896454.4
(47) 29.01.2025

(87) US2020063240
10.06.2021
(22) 04.12.2020
(54) METHOD AND SYSTEM FOR SELF-AGGREGATION OF PERSONAL DATA AND CONTROL THEREOF
(73) Wilshinsky, Murray B.
(72) Wilshinsky, Murray B.
(31) 201962943871 P
(32) 05.12.2019
(33) United States of America

(51) G06F 21/62
H04L 9/32
G06F 21/53
G06F 21/31
G06F 21/64
G06Q 20/02
G06Q 20/38
G06Q 20/40
H04L 9/40
H04L 9/08
H04L 9/00
(11) EP3961457
(21) EP21181988.3
(47) 29.01.2025
(22) 28.06.2021
(54) DATA CHECK METHODS, APPARATUSES, AND DEVICES
(73) Alipay (Hangzhou) Information Technology Co., Ltd.
(72) QIAN, Feng
GUO, Qianting
YANG, Renhui
WANG, Xinmin
YANG, Wenyu
CHEN, Yuan
LI, Shubo
(31) 202010900858
(32) 31.08.2020
(33) China

(51) G06F 21/64
G06Q 20/06
G06Q 20/40
G06Q 30/06
G06Q 20/38
G06Q 40/04
(11) EP3996028
(21) EP20847049.2
(47) 29.01.2025
(87) CN2020104551
04.02.2021
(22) 24.07.2020
(54) CROSS-CHAIN TRANSACTION METHOD AND APPARATUS
(73) Huawei Technologies Co., Ltd.
(72) ZHAO, Zhenlong
LUO, Yulong
LI, Huifeng
(31) 201911129391
201910683735
(32) 18.11.2019
26.07.2019
(33) China
China

(51) G06F 21/64
H04L 9/40
(11) EP4430501
(21) EP22830686.6
(47) 29.01.2025
(87) EP2022081183
11.05.2023
(22) 08.11.2022
(54) METHOD AND RELATED COMPUTER SYSTEMS FOR SAFEGUARDING THE INTEGRITY OF DATA
(73) KraLos GmbH
(72) GREIWE, Christian Clemens
KLEIN, Carsten
(31) 500837
(32) 08.11.2021
(33) Luxembourg

(51) G06F 30/00
G06F 113/14
G06F 113/16
(11) EP3718031
(21) EP17816588.2
(47) 29.01.2025
(87) EP2017081054
06.06.2019
(22) 30.11.2017
(54) A METHOD OF OPERATING A CAD SYSTEM MODEL FOR MODELLING AN ARTICLE TO BE MANUFACTURED
(73) Siemens Industry Software Limited
(72) KNIGHT, Peter A.

(51) G06F 111/04
G06F 111/20
G06F 30/15
(11) EP3304359
(21) EP16726312.8
(47) 29.01.2025
(87) EP2016062347
08.12.2016
(22) 01.06.2016
(54) COMPONENT DESIGN SYSTEM FOR GENERATING AIRCRAFT COMPONENT DESIGNS
(73) Airbus Operations GmbH
(72) GONNSEN, Johannes
BUENO-MORENO, Irene
(31) 15170090
(32) 01.06.2015
(33) European Patent Office (EPO)

(51) G06K 1/00
(11) EP3920077
(21) EP21175471.8
(47) 29.01.2025
(22) 21.05.2021
(54) SYSTEMS AND METHODS FOR OPERATING AN IMAGING DEVICE
(73) Hand Held Products, Inc.
(72) AU, Ka Man
HEJL, Benjamin
HARPER, Jeffrey Dean
GIORDANO, Patrick Anthony
WILZ, David M.
(31) 202016892824
(32) 04.06.2020
(33) United States of America

(51) G06K 7/10
B65G 47/48
B65G 43/00
B65G 47/252
(11) EP4177788
(21) EP21207320.9
(47) 29.01.2025
(22) 09.11.2021
(54) A PARCEL HANDLING AND TRACKING SYSTEM AND A METHOD OF SCANNING IDENTIFYING FEATURES ON PARCELS
(73) Fameccanica.Data S.p.A.
(72) CICCHITTI, Anselmo

(51) G06K 7/10
G06K 7/14
(11) EP4414887
(21) EP24151460.3
(47) 29.01.2025
(22) 11.01.2024
(54) CODE READING APPARATUS AND METHOD FOR PARALLEL READING OF A PLURALITY OF CODES
(73) SICK AG
(72) Hafner, Carl Joseph
Zimmermann, Tobias
Ermantraut, Jaroslaw
Pierl, Manfred
Lais, Stefan
(31) 102023102950
(32) 07.02.2023
(33) Germany

(51) G06K 7/10
G06K 19/07
(11) EP4296886
(21) EP23179930.5
(47) 29.01.2025
(22) 19.06.2023
(54) ENROLLMENT ASSISTANCE DEVICE WITH CONDUCTOR SPIRAL, BIOMETRIC SYSTEM AND ENROLLMENT METHOD
(73) Fingerprint Cards Anacatum IP AB
(72) HAMMERSBERG, Johan
ASAD, Muhammad
(31) 2250779
(32) 23.06.2022
(33) Sweden

(51) G06K 7/10
G06K 19/077
G08B 13/24
(11) EP3776327
(21) EP18914099.9
(47) 29.01.2025
(87) US2018067659
17.10.2019
(22) 27.12.2018
(54) RFID MULTI-READ PORTAL
(73) Fujitsu Frontech North America Inc.
(72) NAGAYUMI, Shinichi
MARKMAN, Herbert
DALTON, Daniel, G.
TETER, Aaron
MARKMAN, Jeffrey
(31) 201862654702 P
(32) 09.04.2018
(33) United States of America

(51) G06K 19/06
(11) EP4235498
(21) EP23175615.6
(47) 29.01.2025
(22) 23.07.2014
(54) PRODUCT COMPRISING AN OPTO-ELECTRONICALLY READABLE CODE
(73) Continental Reifen Deutschland GmbH

(72) Hübner, Felix
Metz, Markus
Bogenschütz, Peter
(31) 102013223567
102013221661
(32) 19.11.2013
24.10.2013
(33) Germany
Germany

(51) G06K 19/06
(11) EP4334840
(21) EP22734472.8
(47) 29.01.2025
(87) EP2022025206
10.11.2022
(22) 04.05.2022
(54) 3D CODE
(73) Khadjavi, Armin
(72) Khadjavi, Armin
(31) 202021001643 U
(32) 04.05.2021
(33) Germany

(51) G06K 19/07
G06K 19/02
H01Q 1/22
G06K 19/077
(11) EP4032024
(21) EP20786161.8
(47) 29.01.2025
(87) US2020051625
25.03.2021
(22) 18.09.2020
(54) SYSTEM AND METHODS FOR LASER TUNING AND ATTACHING RFID TAGS TO PRODUCTS
(73) Sensormatic Electronics LLC
(72) PETERSEN, Bjoern
CHANDRAMOWLE, Gopal
BERGMAN, Adam S.
GARCIA, Carlos G.
VILAÇA, João
SEQUEIRA, Melwyn F.
SHAHIDI, Amin
WEST, George H.
TRIVELPIECE, Steve E.
(31) 201916685584
201916685508
201962902355 P
(32) 15.11.2019
15.11.2019
18.09.2019
(33) United States of America
United States of America
United States of America

(51) G06K 19/07
G06K 19/077
H01Q 1/22
H01Q 7/00
(11) EP4235967
(21) EP23182083.8
(47) 29.01.2025
(22) 29.12.2017
(54) DUAL FUNCTION STRAP FOR RESONATING ELEMENTS AND ULTRA HIGH FREQUENCY ANTENNAS
(73) Avery Dennison Retail Information Services LLC
(72) FORSTER, Ian J.
(31) 201662440131 P
(32) 29.12.2016
(33) United States of America

(51) G06K 19/077
B65D 63/00
G09F 3/00
B65D 63/10
G09F 3/14
G09F 3/20
(11) EP4248363
(21) EP21806192.7
(47) 29.01.2025
(87) EP2021080538
27.05.2022
(22) 03.11.2021
(54) RADIOFREQUENCY IDENTIFICATION TAG DEVICES
(73) Allflex UK Group Ltd
(72) SPOOR, Ian Graydon
HEALD, Keith Daniel James
(31) 202018053
(32) 17.11.2020
(33) United Kingdom

(51) G06K 19/14
G06K 19/18
G06V 20/80
G06K 19/08
B42D 25/00
B42D 25/305
(11) EP4268130
(21) EP21835370.4
(47) 29.01.2025
(87) IB2021060644
30.06.2022
(22) 17.11.2021
(54) METHOD FOR UNAMBIGUOUSLY MARKING OBJECTS
(73) Leuchtstoffwerk Breitungen GmbH
(72) DAUMANN, Benedikt
BITZER, Thomas
UHLICH, Dominik
(31) 102020134568
(32) 22.12.2020
(33) Germany

(51) G06N 3/0464
G06N 3/0495
G06N 3/09
(11) EP3736742
(21) EP20168788.6
(47) 29.01.2025
(22) 08.04.2020
(54) MACHINE LEARNING SYSTEM, A METHOD, A COMPUTER PROGRAM AND A DEVICE FOR CREATING THE MACHINE LEARNING SYSTEM
(73) Robert Bosch GmbH
(72) Pfeil, Thomas
(31) 102019206621
(32) 08.05.2019
(33) Germany

(51) G06N 3/0475
G06N 3/094
G06N 3/048
(11) EP3745309
(21) EP19176670.8
(47) 29.01.2025
(22) 27.05.2019
(54) TRAINING A GENERATIVE ADVERSARIAL NETWORK
(73) Robert Bosch GmbH
(72) Munoz Delgado, Andres Mauricio

(51) G06N 3/048
G06N 3/063
(11) EP4167141
(21) EP22201464.9
(47) 29.01.2025
(22) 13.10.2022
(54) VECTOR ACTIVATION FUNCTION TO SUPPORT MACHINE LEARNING INFERENCE AND OTHER PROCESSES
(73) Mellanox Technologies, Ltd.
(72) KOREM, Noam
FUHRER, Benjamin
PARDO, Ilan
YEFET, Gal
BAR-ON, Tomer
(31) 202117500598
(32) 13.10.2021
(33) United States of America

(51) G06N 3/0495
G06N 3/0464
G06N 3/063
G06N 3/084
G06V 10/82
G06V 40/16
(11) EP3671575
(21) EP19204904.7
(47) 29.01.2025
(22) 23.10.2019
(54) NEURAL NETWORK PROCESSING METHOD AND APPARATUS BASED ON NESTED BIT REPRESENTATION
(73) Samsung Electronics Co., Ltd.
(72) LEE, Seoh Yung
HAN, Jaejoon
CHOI, Chang Kyu
SON, Changyong
JUNG, San Gil
SON, Jinwoo
KWAK, Youngjun
(31) 20180165585
(32) 19.12.2018
(33) Korea (Republic)

(51) G06N 3/067
G06N 3/048
(11) EP4232960
(21) EP21789717.2
(47) 29.01.2025
(87) EP2021077798
28.04.2022
(22) 08.10.2021
(54) DEVICE, SYSTEM AND METHOD FOR PROVIDING AN ARTIFICIAL NEURAL NETWORK
(73) VOLKSWAGEN AKTIENGESELLSCHAFT
(72) KURZ, Heiko Gustav
(31) 102020213258
(32) 20.10.2020
(33) Germany

(51) G06N 3/08
G06F 21/55
G06F 21/75
G06N 3/045

(11) EP3885952
(21) EP18942817.0
(47) 29.01.2025
(87) JP2018046158
18.06.2020
(22) 14.12.2018
(54) LEARNING IDENTIFICATION DEVICE, LEARNING IDENTIFICATION METHOD, AND LEARNING IDENTIFICATION PROGRAM
(73) Mitsubishi Electric Corporation
(72) NAKAI, Tsunato
(51) G06N 3/096
G06N 3/088
G06N 3/045
G06N 3/047
G06N 3/084
(11) EP3736745
(21) EP19210350.5
(47) 29.01.2025
(22) 20.11.2019
(54) MODEL TRAINING METHOD AND APPARATUS
(73) Samsung Electronics Co., Ltd.
(72) KANG, Hyoh Yeong
LEE, Hos Hik
NA, Hwidong
KIM, Hog Yeong
(31) 20190053131
(32) 07.05.2019
(33) Korea (Republic)
(51) G06N 3/096
G06N 3/092
G06N 3/045
G06N 3/084
G06N 3/006
(11) EP3782080
(21) EP19719243.8
(47) 29.01.2025
(87) EP2019060070
24.10.2019
(22) 18.04.2019
(54) NEURAL NETWORKS FOR SCALABLE CONTINUAL LEARNING IN DOMAINS WITH SEQUENTIALLY LEARNED TASKS
(73) DeepMind Technologies Limited
(72) HADSELL, Raia Thais
CZARNECKI, Wojciech
LUKETINA, Jelena
PASCANU, Razvan
SCHWARZ, Jonathan
TEH, Yee Whye
(31) 201862659610 P
(32) 18.04.2018
(33) United States of America
(51) G06N 20/00
G06F 40/00
G16H 50/20
G16H 80/00
G06F 40/205
G06F 40/30
(11) EP3948701
(21) EP20783927.5
(47) 29.01.2025
(87) US2020020980
08.10.2020
(22) 04.03.2020
(54) ARTIFICIAL INTELLIGENCE ADVISORY SYSTEMS AND METHODS FOR VIBRANT CONSTITUTIONAL GUIDANCE
(73) KPN Innovations, LLC
(72) NEUMANN, Kenneth
(31) 201916372540
(32) 02.04.2019
(33) United States of America
(51) G06Q 10/00
G06Q 20/32
G06Q 20/40
G06Q 20/34
(11) EP3254243
(21) EP16756753.6
(47) 29.01.2025
(87) GB2016052554
23.02.2017
(22) 18.08.2016
(54) IDENTITY VALIDATION
(73) Worldpay (UK) Limited
(72) VOKES, Jonathan
TELFORD-REED, Nicholas
(31) 201514657
(32) 18.08.2015
(33) United Kingdom
(51) G06Q 10/00
G06Q 50/04
(11) EP4193313
(21) EP21786805.8
(47) 29.01.2025
(87) EP2021076687
31.03.2022
(22) 28.09.2021
(54) MONITORING DEVICE AND METHOD FOR SEGMENTING DIFFERENT TIMES SERIES OF SENSOR DATA POINTS
(73) Siemens Aktiengesellschaft
(72) SCHNURBUSCH, Michael
BRONNER, Johanna
LEBACHER, Michael
BRUHN, Cecilia Margareta
(31) 20198778
(32) 28.09.2020
(33) European Patent Office (EPO)
(51) G06Q 10/02
G06F 21/31
G06Q 20/04
G06Q 20/32
G07B 15/00
G07C 9/21
G06Q 30/06
G06F 21/10
G06F 21/30
H04L 9/32
H04L 9/40
H04W 12/06
H04W 12/08
G06F 21/35
G06F 21/60
G06F 21/62
G06Q 20/40
(11) EP4372655
(21) EP24165865.7
(47) 29.01.2025
(22) 01.12.2020
(54) A DIGITAL, PERSONAL AND SECURE ELECTRONIC ACCESS PERMISSION
(73) Codiqo AB
(72) UNGERHOLM, Mikael
(31) 1930393
(32) 06.12.2019
(33) Sweden
(51) G06Q 10/0631
G06Q 30/0202
G06Q 50/08
G06Q 50/40
(11) EP3857498
(21) EP19829034.8
(47) 29.01.2025
(87) EP2019084845
25.06.2020
(22) 12.12.2019
(54) METHOD FOR DESIGNING A TRAFFIC INFRASTRUCTURE, ELECTRONIC COMPUTING DEVICE FOR CARRYING OUT A METHOD, COMPUTER PROGRAM, AND DATA CARRIER
(73) Siemens Aktiengesellschaft
(72) HUBER, Matthias
KÜPPERS, Martin
NAMOCKEL, Nils
(31) 102018222820
(32) 21.12.2018
(33) Germany
(51) G06Q 10/08
G08G 5/00
(11) EP3659079
(21) EP17751292.8
(47) 29.01.2025
(87) EP2017068682
31.01.2019
(22) 24.07.2017
(54) TRANSPORT SYSTEM FOR PASSENGER TRANSPORTATION AND METHOD FOR OPERATING A TRANSPORT SYSTEM FOR PASSENGER TRANSPORTATION
(73) Volocopter GmbH
(72) REUTER, Florian
ZOSEL, Alexander
(51) G06Q 10/087
B65G 65/00
B65G 1/137
B65G 1/04
B25J 5/00
(11) EP4179484
(21) EP21743127.9
(47) 29.01.2025
(87) EP2021068944
13.01.2022
(22) 08.07.2021
(54) MOBILE AUTONOMOUS ROBOT FOR ORDER PICKING AND ORDER PICKING METHOD
(73) iFollow
(72) MENIGOZ, Nicolas
JACQUEMART, Vincent
(31) 2007360
(32) 10.07.2020
(33) France
(51) G06Q 20/02
H04W 12/02
G06Q 20/38
G06Q 20/08
G06Q 20/32

(11) EP3021273
(21) EP15194524.3
(47) 29.01.2025
(22) 13.11.2015
(54) METHOD FOR SECURING A TRANSACTION BETWEEN A MOBILE TERMINAL AND A SERVER OF A SERVICE PROVIDER VIA A PLATFORM
(73) ORANGE
(72) BRUN, Arnaud
KIRSCHBAUM, Patrick
(31) 1460995
(32) 14.11.2014
(33) France

(51) G06Q 20/20
G06Q 20/32
G06Q 20/22
G06Q 20/38
G06Q 20/40
(11) EP4246405
(21) EP23191053.0
(47) 29.01.2025
(22) 12.04.2019
(54) METHOD AND SYSTEM FOR CONTACTLESS TRANSMISSION USING OFF-THE-SHELF DEVICES
(73) Mastercard International Incorporated
(72) Mushing, Alan
Rutherford, Bruce John
Lourenco, Fernando
(31) 201862657241 P
(32) 13.04.2018
(33) United States of America

(51) G06Q 20/28
H02J 7/00
B60L 53/62
B60L 53/66
B60L 53/80
B60L 58/12
B60L 58/16
B60L 58/18
(11) EP4170572
(21) EP21865321.0
(47) 29.01.2025
(87) CN2021115783
09.03.2023
(22) 31.08.2021
(54) BATTERY SWAPPING METHOD, APPARATUS AND SYSTEM, AND DEVICE AND MEDIUM
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) YAN, Yu
LI, Zhanliang
ZHANG, Miaomiao
DAN, Zhimin

(51) G06Q 20/32
G06Q 20/34
G06Q 20/40
(11) EP3226190
(21) EP17172013.9
(47) 29.01.2025
(22) 04.09.2013
(54) PRE-PAID VIRTUAL CARD AND METHOD FOR ITS CREATION AND ITS UTILIZATION
(73) 2Pay S.r.l.
(72) OCCARI, Diego
BERNARDI, Daniele
(31) PD20120257
(32) 06.09.2012
(33) Italy

(51) G06Q 20/34
G06Q 30/018
G07F 7/08
G06Q 20/04
G06Q 20/32
G06Q 20/36
G06Q 20/38
G06Q 20/40
G07B 15/02
(11) EP3690783
(21) EP19154847.8
(47) 29.01.2025
(22) 31.01.2019
(54) DATA PROCESSING APPARATUSES AND METHODS
(73) Mastercard International Incorporated
(72) ROBERTS, David Anthony
PITCHER, Joseph

(51) G06Q 20/38
G06Q 20/40
(11) EP3732815
(21) EP18896342.5
(47) 29.01.2025
(87) US2018067842
04.07.2019
(22) 28.12.2018
(54) DISPUTE RESOLUTION CRYPTOCURRENCY SIDECHAIN SYSTEM
(73) PayPal, Inc.
(72) NUZZI, Frank Anthony
(31) 201715858536
(32) 29.12.2017
(33) United States of America

(51) G06Q 30/018
G06F 16/22
G06F 16/28
(11) EP2936409
(21) EP13815501.5
(47) 29.01.2025
(87) EP2013077692
26.06.2014
(22) 20.12.2013
(54) METHOD AND SYSTEM FOR MARKING AN ITEM, AN ITEM SO MARKED AND A METHOD AND SYSTEM FOR AUTHENTICATING A MARKED ITEM
(73) SICPA HOLDING SA
(72) MONNARD, René Henri
SETO, Myron
MAK, Kok Weng
(31) 12199158
(32) 21.12.2012
(33) European Patent Office (EPO)

(51) G06Q 30/02
(11) EP3146487
(21) EP15725854.2
(47) 29.01.2025
(87) GB2015051458
26.11.2015
(22) 19.05.2015
(54) SYSTEM AND METHOD FOR DETERMINING DEMOGRAPHIC INFORMATION
(73) Hoxton Analytics Limited
(72) MCCORMACK, Owen
(31) 201408795
(32) 19.05.2014
(33) United Kingdom

(51) G06Q 50/10
D06F 33/30
G06N 3/08
(11) EP3847614
(21) EP19907179.6
(47) 29.01.2025
(87) KR2019018116
09.07.2020
(22) 19.12.2019
(54) CLOTHING MANAGEMENT APPARATUS AND METHOD FOR CONTROLLING THEREOF
(73) Samsung Electronics Co., Ltd.
(72) KANG, Minjeong
LEE, Jungmin
CHOI, Yoonhee
(31) 20180174169
(32) 31.12.2018
(33) Korea (Republic)

(51) G06T 1/20
(11) EP3308349
(21) EP16738566.5
(47) 29.01.2025
(87) IL2016050611
15.12.2016
(22) 09.06.2016
(54) IMAGE PROCESSOR AND METHODS FOR PROCESSING AN IMAGE
(73) Mobileye Vision Technologies Ltd.
(72) SIXOU, Emmanuel
DOGON, Gil Israel
SREBNIK, Daniel
(31) 201662293908 P
201662293147 P
201662293145 P
201662290400 P
201662290395 P
201662290392 P
201662290389 P
201662290383 P
201562173392 P
201562173389 P
(32) 11.02.2016
09.02.2016
09.02.2016
02.02.2016
02.02.2016
02.02.2016
02.02.2016
02.02.2016
10.06.2015
10.06.2015
(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

(51) G06T 3/40
(11) EP4128043
(21) EP21776117.0
(47) 29.01.2025
(87) US2021023939
30.09.2021
(22) 24.03.2021
(54) SYSTEMS AND METHODS FOR MACHINE LEARNED IMAGE CONVERSION
(73) Nintendo Co., Ltd.
(72) PONCET, Raphael
CHARVET, Theo
DELATTRE, Alexandre
(31) 202016829950
202016830032
(32) 25.03.2020
25.03.2020
(33) United States of America
United States of America

(51) G06T 5/00
G06T 1/00
G06V 10/141
G06V 40/40
G06V 40/16
H04N 5/33
H04N 17/00
H04N 23/20
H04N 25/705
(11) EP4156674
(21) EP22789143.9
(47) 29.01.2025
(87) CN2022092485
16.02.2023
(22) 12.05.2022
(54) DATA ACQUISITION METHOD AND APPARATUS
(73) Honor Device Co., Ltd.
(72) LIAO, Chuan
ZHOU, Junwei
YUAN, Jiangfeng
(31) 202110925831
(32) 12.08.2021
(33) China

(51) G06T 5/00
G06T 5/70
G06T 5/50
A61B 5/03
(11) EP3948765
(21) EP20718741.0
(47) 29.01.2025
(87) GB2020050876
08.10.2020
(22) 02.04.2020
(54) IMAGE RECONSTRUCTION
(73) King's College London
(72) READER, Andrew J
(31) 201904678
(32) 03.04.2019
(33) United Kingdom

(51) G06T 5/70
H04N 5/21
(11) EP3718049
(21) EP18883932.8
(47) 29.01.2025
(87) US2018063531
06.06.2019
(22) 02.12.2018
(54) TEMPORAL DE-NOISING
(73) Mine One GmbH
(72) MCCOMBE, James, A.
BIRKHOLD, Christoph
(31) 201762593920 P
(32) 02.12.2017
(33) United States of America

(51) G06T 7/00
(11) EP3559902
(21) EP17826220.0
(47) 29.01.2025
(87) EP2017083702
28.06.2018
(22) 20.12.2017
(54) COMPUTER SCORING BASED ON PRIMARY STAIN AND IMMUNOHISTOCHEMISTRY IMAGES
(73) Ventana Medical Systems, Inc.
(72) CHEN, Ting
NGUYEN, Kien
CHUKKA, Srinivas
(31) 201662438354 P
(32) 22.12.2016
(33) United States of America

(51) G06T 7/00
(11) EP4062361
(21) EP20824023.4
(47) 29.01.2025
(87) US2020060944
27.05.2021
(22) 18.11.2020
(54) SYSTEMS AND METHODS FOR PROCESSING ELECTRONIC MEDICAL IMAGES TO DETERMINE ENHANCED ELECTRONIC MEDICAL IMAGES
(73) Boston Scientific Scimed, Inc.
(72) FUSMAN, Judith
GYLLENHAAL, Evan
CAHILL, Andrea
SILVA, Aaron
DEMISSE, Mussie, Teshome
CHEN, Longquan
(31) 201962936947 P
(32) 18.11.2019
(33) United States of America

(51) G06T 7/00
A61B 6/00
A61B 5/00
A61B 8/08
(11) EP2973405
(21) EP14770526.3
(47) 29.01.2025
(87) US2014023673
25.09.2014
(22) 11.03.2014
(54) SYSTEM AND METHOD FOR DIAGNOSTIC VECTOR CLASSIFICATION SUPPORT
(73) Seno Medical Instruments, Inc.
(72) STAVROS, Anthony
MILLER, Thomas
ZALEV, Jason
LAVIN, Philip
BUTLER, Reni
(31) 201361898392 P
201361810238 P
201361799213 P
(32) 31.10.2013
09.04.2013
15.03.2013
(33) United States of America
United States of America
United States of America

(51) G06T 7/00
G06F 18/23
G06V 10/143
G06V 10/147
G06V 10/42
G06V 10/60
G06V 10/762
G06V 20/10
G06V 30/142
A61B 5/00
(11) EP3413790
(21) EP17750864.5
(47) 29.01.2025
(87) US2017017450
17.08.2017
(22) 10.02.2017
(54) SYSTEMS AND METHODS FOR EVALUATING PIGMENTED TISSUE LESIONS
(73) Balter, Inc.
(72) STAMNES, Jakob, J.
(31) 201662293579 P
(32) 10.02.2016
(33) United States of America

(51) G06T 7/00
G06T 3/02
(11) EP3965003
(21) EP20808836.9
(47) 29.01.2025
(87) CN2020086304
26.11.2020
(22) 23.04.2020
(54) IMAGE PROCESSING METHOD AND DEVICE
(73) Huawei Technologies Co., Ltd.
(72) FENG, Bailan
LI, Songjiang
YANG, Yun
YU, Bing
(31) 201910421550
(32) 21.05.2019
(33) China

(51) G06T 7/00
G06T 5/50
G06T 5/00
(11) EP4050558
(21) EP20879013.9
(47) 29.01.2025
(87) CN2020087260
29.04.2021
(22) 27.04.2020
(54) IMAGE FUSION METHOD AND APPARATUS, STORAGE MEDIUM, AND ELECTRONIC DEVICE
(73) Zhejiang Uniview Technologies Co., Ltd.
(72) ZHANG, Yanan
(31) 201911000100
(32) 21.10.2019
(33) China

(51) G06T 7/11
G06T 7/00

G06T 7/62
(11) EP4445330
(21) EP23821204.7
(47) 29.01.2025
(87) EP2023084503
13.06.2024
(22) 06.12.2023
(54) PROCESSING IMAGE DATA OF A FETUS
(73) Koninklijke Philips N.V.
(72) RAYNAUD, Caroline Denise Francoise
GERMOND ROUET, Laurence
CIOFOLO VEIT, Cybèle
OLIVIER, Antoine
(31) 22290071
(32) 09.12.2022
(33) European Patent Office (EPO)

(51) G06T 7/20
(11) EP3839887
(21) EP20214382.2
(47) 29.01.2025
(22) 15.12.2020
(54) METHOD AND DEVICE FOR CALIBRATING A SYSTEM FOR COLLABORATIVE MONITORING OF TARGETS
(73) Bull SAS
(72) ARNAISE, Nicolas
TROLAT, Florent
GUEGAN-MARAT, Sophie
(31) 1914511
(32) 16.12.2019
(33) France

(51) G06T 7/246
G06V 10/143
G06V 10/80
G06V 20/52
G06V 20/54
G06F 18/25
G06V 10/75
(11) EP3107039
(21) EP16175214.2
(47) 29.01.2025
(22) 20.06.2016
(54) METHOD AND APPARATUS FOR TRACKING TARGETS
(73) The Boeing Company
(72) KIM, Kyungnam
KWON, Hyukseong
OWECHKO, Yuri
(31) 201514743349
(32) 18.06.2015
(33) United States of America

(51) G06T 7/40
B33Y 40/00
G01B 11/30
B29C 64/393
G01N 21/956
G01N 21/93
B22F 10/85
B33Y 10/00
B33Y 50/02
G01N 21/01
G01N 21/88
G06T 7/00
G06T 7/90
G06V 20/69
(11) EP3781400
(21) EP19721338.2
(47) 29.01.2025
(87) GB2019050955
24.10.2019
(22) 03.04.2019
(54) SURFACE ROUGHNESS ANALYSIS
(73) Additive Manufacturing Technologies Limited
(72) SYAM, Wahyudin
GAIO, Andre
LEACH, Richard
CRABTREE, Joseph Gwilliam
RYBALCENKO, Konstantin
(31) 201806168
(32) 16.04.2018
(33) United Kingdom

(51) G06T 7/521
G06T 7/80
(11) EP4379662
(21) EP22211198.1
(47) 29.01.2025
(22) 02.12.2022
(54) PROVISION OF REAL WORLD AND IMAGE SENSOR CORRESPONDENCE POINTS FOR USE IN CALIBRATION OF AN IMAGING SYSTEM FOR THREE DIMENSIONAL IMAGING BASED ON LIGHT TRIANGULATION
(73) Sick IVP AB
(72) RYDSTRÖM, Daniel

(51) G06T 7/73
(11) EP3886046
(21) EP21156122.0
(47) 29.01.2025
(22) 09.02.2021
(54) MULTI-VIEW POSITIONING USING REFLECTIONS
(73) Sony Group Corporation
(72) ISBERG, Anders
PETEF, Andrej
MOLINER, Olivier
Huang, Sangxia
(31) 2050332
(32) 26.03.2020
(33) Sweden

(51) G06T 7/73
(11) EP4057226
(21) EP22159874.1
(47) 29.01.2025
(22) 03.03.2022
(54) METHOD AND APPARATUS FOR ESTIMATING POSE OF DEVICE
(73) Samsung Electronics Co., Ltd.
(72) MA, Kuan
WANG, Qiang
LEE, Hongseok
KIM, Yuntae
LIU, Zhihua
(31) 202110257474
20210162793
(32) 09.03.2021
23.11.2021
(33) China
Korea (Republic)

(51) G06T 7/73
G01C 21/20
G01C 21/00
(11) EP4170593
(21) EP22200281.8
(47) 29.01.2025
(22) 07.10.2022
(54) AUTOMATED ANALYSIS OF VISUAL DATA OF IMAGES TO DETERMINE THE IMAGES' ACQUISITION LOCATIONS ON BUILDING FLOOR PLANS
(73) MFTB Holdco, Inc.
(72) Bessinger, Zachary S
Kang, Sing Bing
Boyadzhiev, Ivaylo
Khosravan, Naji
Narayana, Manjunath
Min, Zhixiang
(31) 202163279247 P
202163270794 P
(32) 15.11.2021
22.10.2021
(33) United States of America
United States of America

(51) G06T 7/80
G06T 7/70
(11) EP4443388
(21) EP23166600.9
(47) 29.01.2025
(22) 04.04.2023
(54) DETERMINING A POSE OF A FIRST CAMERA RELATIVE TO A SECOND CAMERA
(73) SICK AG
(72) Aiple, Manuel

(51) G06T 11/00
(11) EP4128164
(21) EP21721146.5
(47) 29.01.2025
(87) FR2021050475
30.09.2021
(22) 22.03.2021
(54) X-RAY TOMOGRAPHIC RECONSTRUCTION METHOD AND ASSOCIATED DEVICE
(73) SAFRAN
(72) PICARD, Sylvaine
CHAPDELAINE, Camille Jocelyn Roger
(31) 2002980
(32) 26.03.2020
(33) France

(51) G06T 11/20
(11) EP2975579
(21) EP15176797.7
(47) 29.01.2025
(22) 15.07.2015
(54) TRANSFORMING SENSORY REPRESENTATIONS
(73) The Boeing Company
(72) HOWE, Wayne Richard
HOWARD, Emily Louise
LAUGHLIN, Brian Dale
(31) 201414334939
(32) 18.07.2014
(33) United States of America

(51) G06T 13/40
G06T 19/20
(11) EP3314577
(21) EP16731900.3
(47) 29.01.2025
(87) EP2016064610
29.12.2016

(22) 23.06.2016
(54) SKINNED MULTI-PERSON LINEAR MODEL
(73) Max-Planck-Gesellschaft zur Förderung der Wissenschaften
(72) LOPER, Matt
MAHMOOD, Naureen
PONS-MOLL, Gerard
BLACK, Michael J.
ROMERO, Javier
(31) 201562183853 P
(32) 24.06.2015
(33) United States of America

(51) G06T 15/00
A63F 13/00
A63F 13/355
G06T 1/20
(11) EP2556493
(21) EP12756343.5
(47) 29.01.2025
(87) JP2012062720
29.11.2012
(22) 11.05.2012
(54) RENDERING CONTROL APPARATUS, CONTROL METHOD THEREOF, RECORDING MEDIUM, RENDERING SERVER, AND RENDERING SYSTEM
(73) Square Enix Holdings Co., Ltd.
(72) IWASAKI, Tetsuji
(31) 2011260976
201213453212
201161489761 P
(32) 29.11.2011
23.04.2012
25.05.2011
(33) Japan
United States of America
United States of America

(51) G06T 15/04
(11) EP4336453
(21) EP23188960.1
(47) 29.01.2025
(22) 01.08.2023
(54) METHOD AND APPARATUS FOR REAL-TIME IMAGE-BASED LIGHTING OF 3D SURROUND VIEW
(73) Hyundai Mobis Co., Ltd.
(72) YUN, Yeo Min
(31) 20220113157
(32) 07.09.2022
(33) Korea (Republic)

(51) G06T 19/00
(11) EP4064209
(21) EP21217893.3
(47) 29.01.2025
(22) 28.12.2021
(54) METHOD AND SYSTEM FOR DRAPING A 3D GARMENT ON A 3D HUMAN BODY
(73) Tata Consultancy Services Limited
(72) TIWARI, Lokender
BHOWMICK, Brojeshwar
(31) 202121013169
(32) 25.03.2021
(33) India

(51) G06T 19/00
A63F 13/358
A63F 13/31
A63F 13/332
A63F 13/352
A63F 13/65
H04L 67/10
G06T 15/00
H04L 67/52
H04L 67/566
H04L 67/567
A63F 13/213
A63F 13/34
H04L 67/131
A63F 13/216
(11) EP3918579
(21) EP20763709.1
(47) 29.01.2025
(87) IB2020051614
03.09.2020
(22) 25.02.2020
(54) AUGMENTED REALITY MOBILE EDGE COMPUTING
(73) Niantic, Inc.
(72) SMITH, David Grayson
RAGHURAMAN, Gandeevan
PEAKE, Benjamin
HU, Si ying Diana
TURNER, Peter James
(31) 201962810115 P
(32) 25.02.2019
(33) United States of America

(51) G06V 10/32
G06V 10/764
G06V 10/82
G06V 20/64
G06V 40/16
G06F 18/2413
G06T 15/04
G06T 19/20
(11) EP4099221
(21) EP22185824.4
(47) 29.01.2025
(22) 23.06.2016
(54) FACE RECOGNITION METHOD AND APPARATUS
(73) Samsung Electronics Co., Ltd.
(72) Rhee Seon, Min
Jungbae, Kim
Yoo, Yungin
Han, Seungju
Han, Jaejoon
(31) 20150175672
20150089503
(32) 10.12.2015
24.06.2015
(33) Korea (Republic)
Korea (Republic)

(51) G06V 10/44
G06V 10/46
G06V 40/16
(11) EP3698274
(21) EP18785974.9
(47) 29.01.2025
(87) EP2018078518
25.04.2019
(22) 18.10.2018
(54) METHOD FOR CALCULATING A GLOBAL DESCRIPTOR OF AN IMAGE
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) BOUSEFSAF, Frédéric
TAMAAZOUSTI, Mohamed
MICHEL, Rémi
(31) 1759814
(32) 19.10.2017
(33) France

(51) G06V 10/75
(11) EP2798578
(21) EP12806821.0
(47) 29.01.2025
(87) US2012069148
04.07.2013
(22) 12.12.2012
(54) CLUSTERING-BASED OBJECT CLASSIFICATION
(73) Pelco, Inc.
(72) AGHDASI, Farzin
ZHU, Hongwei
MILLAR, Greg
(31) 201113338617
(32) 28.12.2011
(33) United States of America

(51) G06V 10/774
G06V 20/58
(11) EP3872696
(21) EP21158904.9
(47) 29.01.2025
(22) 24.02.2021
(54) METHOD AND APPARATUS FOR DETECTING MOBILE TRAFFIC LIGHT, AND ELECTRONIC DEVICE
(73) Beijing Baidu Netcom Science and Technology Co., Ltd.
(72) Qin, Huan
(31) 202010116857
(32) 25.02.2020
(33) China

(51) G06V 20/10
A01D 45/00
A01D 41/127
A01B 79/00
(11) EP3998585
(21) EP21202269.3
(47) 29.01.2025
(22) 12.10.2021
(54) METHOD AND SYSTEM FOR OPTICAL YIELD MEASUREMENT OF A STANDING CROP IN A FIELD
(73) Deere & Company
(72) SMITH, Benjamin M.
ADVANI, Gurmukh H.
ANDERSON, Noel W.
(31) 202117301315
202063198592 P
(32) 31.03.2021
29.10.2020
(33) United States of America
United States of America

(51) G06V 20/52
G06V 20/58
(11) EP3809313
(21) EP19203614.3
(47) 29.01.2025
(22) 16.10.2019
(54) A VEHICLE PARKING FINDER SUPPORT SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR DETERMINING IF A VEHICLE

IS AT A REFERENCE PARKING LOCATION
(73) Ningbo Geely Automobile Research & Development Co., Ltd.
(72) LINDBERG NILSSON, Erik
JOHANSSON, Jonathan

(51) G06V 20/52
G06V 40/16
(11) EP3889831
(21) EP21164436.4
(47) 29.01.2025
(22) 23.03.2021
(54) SYSTEMS AND METHODS FOR COLLECTING VIDEO CLIP EVIDENCE FROM A PLURALITY OF VIDEO STREAMS OF A VIDEO SURVEILLANCE SYSTEM
(73) Honeywell International Inc.
(72) DUDANI, Samir
NICASTRI, James
ROWLINSON, Michael
(31) 202016837195
(32) 01.04.2020
(33) United States of America

(51) G06V 20/56
G06V 20/58
G06V 20/20
G06V 10/80
B60W 30/14
B60W 40/02
B60W 50/14
B60R 1/00
G05D 1/00
G02B 27/01
(11) EP3666613
(21) EP18887087.7
(47) 29.01.2025
(87) KR2018015276
13.06.2019
(22) 04.12.2018
(54) VEHICLE AND METHOD FOR CONTROLLING SAME
(73) Samsung Electronics Co., Ltd.
(72) HAN, Seongwon
(31) 20170167240
(32) 07.12.2017
(33) Korea (Republic)

(51) G06V 40/10
G06V 40/20
(11) EP3809321
(21) EP20198943.1
(47) 29.01.2025
(22) 29.09.2020
(54) ACTION RECOGNITION METHOD AND APPARATUS AND ELECTRONIC EQUIPMENT
(73) FUJITSU LIMITED
(72) Zhu, Xiantan
Yin, Rui
Tan, Zhiming
(31) 201910977125
(32) 15.10.2019
(33) China

(51) G06V 40/12
G06V 10/74
(11) EP4028937
(21) EP20768338.4
(47) 29.01.2025
(87) EP2020075110
18.03.2021
(22) 08.09.2020
(54) METHOD FOR DETERMINING A MATCH BETWEEN A CANDIDATE FINGERPRINT AND A REFERENCE FINGERPRINT
(73) Thales Dis France SAS
(72) VIBERT, Laurent
DANG, Thi, Tra, Giang
LI, Qiang
(31) 19306086
(32) 10.09.2019
(33) European Patent Office (EPO)

(51) G07C 5/00
G05D 1/00
(11) EP3991144
(21) EP20727977.9
(47) 29.01.2025
(87) EP2020064087
30.12.2020
(22) 20.05.2020
(54) METHOD, COMPUTER PROGRAM, AND DEVICE FOR PROCESSING DATA DETECTED BY A MOTOR VEHICLE
(73) VOLKSWAGEN AKTIENGESELLSCHAFT
(72) NIESTROJ, Richard
WEGNER, Martin
ALAZZAWI, Sabina
MAX, Stephan
(31) 102019209226
(32) 26.06.2019
(33) Germany

(51) G07C 9/00
(11) EP3729384
(21) EP18814974.4
(47) 29.01.2025
(87) EP2018084795
27.06.2019
(22) 13.12.2018
(54) ACCESS CONTROL SYSTEM UTILIZING WIRELESS AND FACE RECOGNITION
(73) INVENTIO AG
(72) TROESCH, Florian
FRIEDLI, Paul
(31) 17209068
(32) 20.12.2017
(33) European Patent Office (EPO)

(51) G07C 9/00
G06Q 10/06
G06Q 10/0631
G06Q 10/0635
G06Q 90/00
G08B 21/04
G08B 25/14
G08B 21/12
G08B 13/196
H04N 7/18
(11) EP3594914
(21) EP19185534.5
(47) 29.01.2025
(22) 10.07.2019
(54) CENTRALIZED MONITORING OF CONFINED SPACES
(73) Total Safety U.S., Inc.
(72) VANCRAYBEX, Gunter Jano Emiel
JOY, Binu Oommen
RAKIC, Dusan
ST. GERMAIN, Jeremy Daniel
(31) 201862696695 P
(32) 11.07.2018
(33) United States of America

(51) G07D 11/12
G07D 11/18
G07D 11/16
G07D 11/40
(11) EP4053810
(21) EP19951210.4
(47) 29.01.2025
(87) JP2019042712
06.05.2021
(22) 31.10.2019
(54) PAPER SHEET HANDLING DEVICE
(73) Fujitsu Frontech Limited
(72) WATANABE, Takashi
HOSOYAMA, Koichi
GOTOH, Yasushi
YANAGIDA, Hiroshi

(51) G07F 11/00
G07F 13/10
G07F 11/24
B65G 59/10
(11) EP4073769
(21) EP20838141.8
(47) 29.01.2025
(87) GB2020053097
17.06.2021
(22) 03.12.2020
(54) BEVERAGE VENDING MACHINE, CUP DISPENSING ASSEMBLY THEREFOR, AND RELATED METHODS
(73) Luigi Lavazza S.p.A.
(72) BELL, Jamie
MCCOY, Tony
WARHURST, John
(31) 201962947232 P
(32) 12.12.2019
(33) United States of America

(51) G07F 17/32
(11) EP4234051
(21) EP21882846.5
(47) 29.01.2025
(87) JP2021038693
28.04.2022
(22) 20.10.2021
(54) CASINO SYSTEM
(73) ANGEL GROUP CO., LTD.
(72) SHIGETA Yasushi
(31) 2020176900
(32) 21.10.2020
(33) Japan

(51) G07G 1/12
G07G 1/01
G06Q 20/32
G06Q 20/20
G07G 1/00
(11) EP3848912
(21) EP19858113.4
(47) 29.01.2025
(87) JP2019035234
12.03.2020
(22) 06.09.2019
(54) PORTABLE TERMINAL, WEIGHING DEVICE, POS TERMINAL, PROGRAM,

STORAGE MEDIUM, SALES PROCESSING SYSTEM, AND SALES PROCESSING METHOD
(73) Teraoka Seiko Co., Ltd.
(72) TOMORI Sayaka
HIGUCHI Shingo
SAITOH Fumikatu
SASAKI Kazuya
KUROSAKI Naoto
WATANABE Kazuki
KANEKO Tomoki
YOSHIKAWA Akiko
(31) 2018168379
2018168375
2018168374
2018168373
2018168372
(32) 08.09.2018
07.09.2018
07.09.2018
07.09.2018
07.09.2018
(33) Japan
Japan
Japan
Japan
Japan

(51) G07G 1/14
G07G 1/00
G06Q 20/20
G06Q 20/18
G01G 19/414
A47F 3/00
A47F 9/04
(11) EP4020418
(21) EP20217327.4
(47) 29.01.2025
(22) 27.12.2020
(54) SELF-CHECKOUT STORE
(73) Bizerba SE & Co. KG
(72) Andronic, Tudor

(51) G08B 1/08
G01C 21/34
(11) EP3550536
(21) EP17883109.5
(47) 29.01.2025
(87) CN2017074809
28.06.2018
(22) 24.02.2017
(54) METHOD AND DEVICE FOR DETERMINING GEOGRAPHICAL LOCATION OF USER TAKING A VEHICLE
(73) Huawei Technologies Co., Ltd.
(72) SHI, Xinliang
(31) 201611210213
(32) 24.12.2016
(33) China

(51) G08B 13/08
(11) EP4165613
(21) EP21736053.6
(47) 29.01.2025
(87) IL2021050702
16.12.2021
(22) 10.06.2021
(54) SENSING DEVICE FOR ACCESS POINT
(73) Essence Security International (E.S.I.) Ltd.
(72) TUGENDHAFT, Nissim
MENIS, Boaz
AMIR, Ohad
(31) 202008826
(32) 10.06.2020
(33) United Kingdom

(51) G08B 13/196
G08B 13/181
G08B 13/19
G01S 13/02
(11) EP4150598
(21) EP21748966.5
(47) 29.01.2025
(87) IL2021050852
20.01.2022
(22) 12.07.2021
(54) DETECTING AN OBJECT IN AN ENVIRONMENT
(73) Essence Security International (E.S.I.) Ltd.
(72) ROSENBLUM, Ran
AMIR, Ohad
SCHNAPP, Jonathan Mark
MORAV, Gregory
(31) 27600120
(32) 12.07.2020
(33) Israel

(51) G08B 17/12
C08B 9/00
C03B 9/00
(11) EP4390888
(21) EP22216612.6
(47) 29.01.2025
(22) 23.12.2022
(54) METHOD FOR DETECTING FIRES IN PRODUCTION MACHINES AND PRODUCTION MACHINE
(73) Bucher Automation Tettnang GmbH
(72) Meersschaut, Marc
Pawlowski, Florian

(51) G08B 21/02
G08B 21/22
(11) EP4038594
(21) EP20790039.0
(47) 29.01.2025
(87) GB2020052306
08.04.2021
(22) 23.09.2020
(54) ELECTRONIC TAG
(73) Allied Universal Electronic Monitoring Limited
(72) HUGHES, Aled
(31) 201914109
(32) 30.09.2019
(33) United Kingdom

(51) G08B 21/14
G08B 21/02
G01N 27/16
(11) EP4162457
(21) EP21731322.0
(47) 29.01.2025
(87) NL2021050361
16.12.2021
(22) 07.06.2021
(54) PERSONAL SENSING DEVICE TO BE WORN BY A PERSON ON A SITE, AS WELL AS USE OF SUCH A PERSONAL SENSING DEVICE AND A SYSTEM COMPRISING ONE OR MORE OF SUCH PERSONAL SENSING DEVICES
(73) Ansense Technologies B.V.
(72) WELP, Jacobus Alfonsus Maria
(31) 2025789
(32) 09.06.2020
(33) Netherlands

(51) G08B 29/18
G08B 17/10
G08B 17/12
(11) EP3977430
(21) EP20727261.8
(47) 29.01.2025
(87) EP2020063957
03.12.2020
(22) 19.05.2020
(54) METHOD AND APPARATUS FOR DETECTING SMOKE
(73) Robert Bosch GmbH
(72) WELLHAUSEN, Andreas
(31) 102019207711
(32) 27.05.2019
(33) Germany

(51) G08G 1/01
G08G 1/04
G08G 1/052
G08G 1/09
G08G 1/0967
G08G 1/16
H04W 28/00
H04W 72/00
(11) EP4187520
(21) EP21215994.1
(47) 29.01.2025
(22) 20.12.2021
(54) MESSAGE TRANSMISSION SYSTEM AND METHOD FOR ROADSIDE EQUIPMENT
(73) Industrial Technology Research Institute
(72) WANG, Qin
CHANG, Chun-Che
LIU, Te-Hsuan
HWU, Jing-Shyang
HSU, Wei-Hsin
CHEN, Shi-Xin
(31) 110143862
(32) 24.11.2021
(33) Taiwan, Chinese Taipei

(51) G08G 1/08
G08G 1/087
G08G 1/01
G08G 1/081
(11) EP4307270
(21) EP22184884.9
(47) 29.01.2025
(22) 14.07.2022
(54) METHOD AND SERVER FOR CONTROLLING TRAFFIC LIGHTS
(73) Kapsch TrafficCom AG
(72) SCHEIDER, Thomas
ZÖCHMANN, Erich

(51) G08G 1/0962
G08G 1/0967
G08G 1/16
(11) EP3204926
(21) EP15781328.8

(47) 29.01.2025
(87) EP2015073242
14.04.2016
(22) 08.10.2015
(54) METHOD FOR HANDLING A RULE CHART
(73) Continental Automotive Technologies GmbH
(72) ZYDEK, Bastian
KELLING, Enno
MENZEL, Marc
LÜKE, Stefan
GROTENDORST, Thomas
(31) 102014220621
(32) 10.10.2014
(33) Germany

(51) G08G 1/16
B60W 30/09
B60W 30/095
G06V 20/62
G06V 20/58
(11) EP4325462
(21) EP22190930.2
(47) 29.01.2025
(22) 18.08.2022
(54) METHOD FOR DETECTING A WIDE TURN MANEUVER OF A VEHICLE, METHOD FOR OPERATING AN EGO-VEHICLE, DATA PROCESSING APPARATUS, COMPUTER PROGRAM, AND COMPUTER-READABLE STORAGE MEDIUM
(73) Volvo Car Corporation
(72) LENNARTSSON, Anders
PEREZ BARRERA, Oswaldo

(51) G08G 1/16
B60W 60/00
(11) EP4272198
(21) EP21845077.3
(47) 29.01.2025
(87) EP2021087849
07.07.2022
(22) 30.12.2021
(54) METHOD FOR CONTROLLING A DRIVING BEHAVIOR OF AN AUTONOMOUSLY DRIVING VEHICLE, PROCESSING DEVICE FOR PERFORMING THE METHOD, DATA STORAGE MEDIUM AND VEHICLE
(73) Argo AI GmbH
(72) PLOOG, Mareike
VON ROTBERG, Miria
(31) 20217921
(32) 30.12.2020
(33) European Patent Office (EPO)

(51) G08G 3/02
(11) EP4191559
(21) EP22210994.4
(47) 29.01.2025
(22) 02.12.2022
(54) REPLAY SYSTEM AND METHOD OF SHIP COLLISION ACCIDENTS USING FREE RUNNING MODEL TEST
(73) Korea Institute of Ocean Science & Technology
(72) SON, Nam-Sun
PYO, Chun-Seon
PARK, Han-Sol
(31) 20210171316
(32) 02.12.2021
(33) Korea (Republic)

(51) G08G 5/00
G08G 5/04
(11) EP4172972
(21) EP21735305.1
(47) 29.01.2025
(87) EP2021067484
30.12.2021
(22) 25.06.2021
(54) A METHOD AND SYSTEM FOR CONTROLLING FLIGHT MOVEMENTS OF AIR VEHICLES
(73) Skyroads AG
(72) SCHUPPENHAUER, Ralf
STANCEL, Robert
BOMMER, Otto
HUBER, Corvin
FRÜHWIRTH, Klaus
(31) PCT/EP2020/068050
(32) 26.06.2020
(33) World Intellectual Property Office (WIPO)

(51) G09B 9/02
A63F 13/90
B62D 23/00
(11) EP4196975
(21) EP21755956.6
(47) 29.01.2025
(87) EP2021072096
24.02.2022
(22) 06.08.2021
(54) MODULAR MODEL OF A FORMULA RACING CAR, DRIVING SIMULATOR WITH THE MODEL
(73) Racerebel GmbH
(72) KRÖMER, Stefan
(31) 102020121559
(32) 17.08.2020
(33) Germany

(51) G09B 19/00
(11) EP4189662
(21) EP20838380.2
(47) 29.01.2025
(87) EP2020085994
03.02.2022
(22) 14.12.2020
(54) A SYSTEM AND METHOD CONFIGURED TO CORRELATE GRIP PRESSURE AND ACTION QUALITY
(73) Eaton Intelligent Power Limited
(72) ZUCCHETTO, Daniel
RYAN, Padhraig
(31) 202011923
(32) 31.07.2020
(33) United Kingdom

(51) G09F 9/30
B32B 7/022
B32B 7/12
H10K 50/844
H10K 77/10
(11) EP4131219
(21) EP20900728.5
(47) 29.01.2025
(87) CN2020081758
30.09.2021
(22) 27.03.2020
(54) FLEXIBLE DISPLAY APPARATUS AND ELECTRONIC DEVICE
(73) BOE Technology Group Co., Ltd.
(72) SHI, Shiming
LI, Zhao

(51) G09F 9/30
G06F 1/16
F16C 11/04
H04M 1/02
(11) EP4062395
(21) EP20905357.8
(47) 29.01.2025
(87) KR2020019022
01.07.2021
(22) 23.12.2020
(54) FOLDABLE ELECTRONIC DEVICE INCLUDING DISPLAY
(73) Samsung Electronics Co., Ltd.
(72) JUNG, Minsu
PARK, Taewon
SONG, Chankeun
HUE, Youngjae
LEE, Yongseok
YOON, Byounguk
IM, Jongkyun
(31) 20190173225
(32) 23.12.2019
(33) Korea (Republic)

(51) G09F 9/302
G09F 9/33
(11) EP4080494
(21) EP22169594.3
(47) 29.01.2025
(22) 22.04.2022
(54) ADJUSTING MECHANISM OF BOX AND LED BOX ASSEMBLY
(73) Leyard Optoelectronic Co., Ltd
(72) LIU, Zhiyong
AN, Guoliang
(31) 202110449268
(32) 25.04.2021
(33) China

(51) G09F 21/04
G09F 3/18
G09F 3/10
G09F 7/16
G09F 7/12
G09F 7/18
(11) EP4075417
(21) EP22166108.5
(47) 29.01.2025
(22) 31.03.2022
(54) DEVICE AND METHOD FOR PERMANENT MARKING OF AN OBJECT
(73) Imprimerie Nationale S.A.
(72) Brunel, Christophe
Brunet, Pierre-Antoine
(31) 2103937
(32) 16.04.2021
(33) France

(51) G09G 3/32
G02B 26/08
(11) EP3665671
(21) EP17928123.3
(47) 29.01.2025
(87) US2017056435
18.04.2019

(22) 13.10.2017
(54) DISPLAYS WITH MOVABLE PRIVACY GATES
(73) Hewlett-Packard Development Company, L.P.
(72) WU, Kuan-Ting
HE, Hui
CHEN, Wei-Chung

(51) G09G 3/32
G02B 27/01
(11) EP3832632
(21) EP20212006.9
(47) 29.01.2025
(22) 04.12.2020
(54) NIGHT VISION DISPLAY
(73) Rockwell Collins, Inc.
(72) KEITH, Christopher A.
ROPERS, Michael A.
FOOTE, Bobby D.
NEWMAN, Michael
WILLS, Jana
(31) 201916704322
(32) 05.12.2019
(33) United States of America

(51) G09G 3/3208
(11) EP3796300
(21) EP20160379.2
(47) 29.01.2025
(22) 02.03.2020
(54) DISPLAY PANEL, DISPLAY SCREEN AND ELECTRONIC DEVICE
(73) Beijing Xiaomi Mobile Software Co., Ltd.
(72) WEN, Yung Chi
WU, Tsangchih
(31) 201910894473
(32) 20.09.2019
(33) China

(51) G09G 3/3266
G02B 27/01
(11) EP3333840
(21) EP17205882.8
(47) 29.01.2025
(22) 07.12.2017
(54) DISPLAY DEVICE
(73) Samsung Display Co., Ltd.
(72) Lee, Jae Sic
Woo, Min Kyu
Noh, Jae Du
Cho, Seung Yeon
Byun, Min Woo
(31) 20160166201
(32) 07.12.2016
(33) Korea (Republic)

(51) G09G 3/36
G09G 3/34
G09G 3/3208
G06F 3/041
(11) EP3690872
(21) EP18861676.7
(47) 29.01.2025
(87) CN2018100204
04.04.2019
(22) 13.08.2018
(54) DISPLAY CONTROLLER AND CORRESPONDING DISPLAY DEVICE
(73) BOE Technology Group Co., Ltd.
(72) MA, Yongda
LI, Pan
HAO, Xueguang
(31) 201721290687 U
(32) 30.09.2017
(33) China

(51) G09G 5/00
G09G 5/04
G06F 3/147
G09G 3/02
G09G 1/07
(11) EP3701515
(21) EP18785743.8
(47) 29.01.2025
(87) GB2018052926
02.05.2019
(22) 12.10.2018
(54) A METHOD FOR OPERATING AN IMAGE GENERATOR, AN IMAGE GENERATOR, A METHOD FOR GENERATING DIGITAL COLOUR IMAGE DATA AND A DISPLAY SYSTEM
(73) BAE Systems PLC
(72) RIGGE, Ian, Gray
WARD, David, Frederick, Henry
HUMPHRIES, David, Richard
(31) 201717403
17275170
(32) 23.10.2017
23.10.2017
(33) United Kingdom
European Patent Office (EPO)

(51) G10D 9/035
G10D 7/026
G10D 9/02
(11) EP4131248
(21) EP21780140.6
(47) 29.01.2025
(87) KR2021001253
07.10.2021
(22) 29.01.2021
(54) HEAD JOINT FOR WIND INSTRUMENT, HAVING MOUTHPIECE AND REED PORTION FORMED THEREON, AND WIND INSTRUMENT COMPRISING SAME
(73) Gong, Myeong-Kook
Gong, Da-Young
(72) Gong, Myeong-Kook
Gong, Da-Young
(31) 20200040187
(32) 02.04.2020
(33) Korea (Republic)

(51) G10H 1/00
G10H 1/02
G10H 1/057
G10H 1/46
(11) EP4095845
(21) EP22175925.1
(47) 29.01.2025
(22) 27.05.2022
(54) METHOD AND SYSTEM FOR AUTOMATIC CREATION OF ALTERNATIVE ENERGY LEVEL VERSIONS OF A MUSIC WORK
(73) Bellevue Investments GmbH & Co. KGaA
(72) Jaron, Jürgen
Rein, Dieter
(31) 202163193835 P
(32) 27.05.2021
(33) United States of America

(51) G10H 1/38
G10H 1/34
(11) EP3985659
(21) EP19932780.0
(47) 29.01.2025
(87) JP2019023230
17.12.2020
(22) 12.06.2019
(54) CHORD PLAYING INPUT DEVICE, ELECTRONIC MUSICAL INSTRUMENT, AND CHORD PLAYING INPUT PROGRAM
(73) Instachord Corp.
(72) NAGATA Yuichi

(51) G10K 11/175
G10K 11/34
G10K 11/35
F03D 7/02
(11) EP4275202
(21) EP21823763.4
(47) 29.01.2025
(87) DK2021050356
14.07.2022
(22) 07.12.2021
(54) MASKING TONAL NOISE FROM A WIND TURBINE
(73) VESTAS WIND SYSTEMS A/S
(72) GUPTA, Mranal
(31) PA202100016
(32) 05.01.2021
(33) Denmark

(51) G10L 13/033
H04N 21/4788
H04N 21/81
H04N 21/466
H04N 21/431
H04N 21/2187
G10L 17/00
(11) EP3772732
(21) EP20189677.6
(47) 29.01.2025
(22) 05.08.2020
(54) TERMINAL AND OPERATING METHOD THEREOF
(73) Hyperconnect LLC
(72) Hong, Ju Young
Ahn, Sang Il
Jeong, Yong Uk
(31) 20190097398
(32) 09.08.2019
(33) Korea (Republic)

(51) G10L 15/02
G10L 15/06
G10L 15/16
G10L 15/30
(11) EP4145442
(21) EP21796134.1
(47) 29.01.2025
(87) CN2021089556
04.11.2021
(22) 25.04.2021
(54) STREAMING END-TO-END SPEECH RECOGNITION METHOD AND SYSTEM, AND COMPUTER READABLE STORAGE MEDIUM
(73) ALIBABA GROUP HOLDING LIMITED
(72) GAO, Zhifu

ZHANG, Shiliang
(31) 202010366907
(32) 30.04.2020
(33) China

(51) G10L 15/08
G10L 15/16
(11) EP4162485
(21) EP21724481.3
(47) 29.01.2025
(87) US2021028277
09.12.2021
(22) 21.04.2021
(54) PROVIDING PROMPTS IN SPEECH RECOGNITION RESULTS IN REAL TIME
(73) Microsoft Technology Licensing, LLC
(72) WU, Kun
(31) 202010517639
(32) 04.06.2020
(33) China

(51) G10L 15/16
G10L 15/18
G10L 25/78
G10L 15/22
(11) EP4409569
(21) EP22777153.2
(47) 29.01.2025
(87) US2022075550
13.04.2023
(22) 26.08.2022
(54) DISFLUENCY DETECTION MODELS FOR NATURAL CONVERSATIONAL VOICE SYSTEMS
(73) Google LLC
(72) LI, Bo
STROHMAN, Trevor
CHANG, Shuo-yiin
SAINATH, Tara N
ZHANG, Chao
(31) 202163262185 P
(32) 06.10.2021
(33) United States of America

(51) G10L 15/22
G06F 40/30
B60R 16/02
G06F 3/16
(11) EP4214703
(21) EP22818070.9
(47) 29.01.2025
(87) EP2022082381
15.06.2023
(22) 18.11.2022
(54) METHOD FOR OPERATING A VOICE DIALOGUE SYSTEM, AND VOICE DIALOGUE SYSTEM
(73) Mercedes-Benz Group AG
(72) Panknin, Jasper
(31) 102021006023
(32) 07.12.2021
(33) Germany

(51) G10L 15/22
G10L 15/07
(11) EP4235645
(21) EP23178996.7
(47) 29.01.2025
(22) 28.06.2017
(54) SYSTEM AND METHOD FOR CUSTOMIZING SMART HOME SPEECH INTERFACES USING PERSONALIZED SPEECH PROFILES
(73) DRNC Holdings, Inc.
(72) EDWARDS, Keith
(31) 201662359005 P
(32) 06.07.2016
(33) United States of America

(51) G10L 19/008
H04S 3/00
H04H 20/89
(11) EP3996090
(21) EP21209477.5
(47) 29.01.2025
(22) 04.12.2013
(54) METHOD AND APPARATUS FOR DECOMPRESSING A HIGHER ORDER AMBI-SONICS REPRESENTATION FOR A SOUND FIELD
(73) Dolby International AB
(72) BOEHM, Johannes
KORDON, Sven
KRUEGER, Alexander
(31) 12306569
(32) 12.12.2012
(33) European Patent Office (EPO)

(51) G10L 19/02
G10L 19/022
(11) EP4386745
(21) EP24165637.0
(47) 29.01.2025
(22) 10.06.2016
(54) DOWNSCALED DECODING
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) ALBERT, Tobias
TOMASEK, Adrian
SCHMIDT, Konstantin
BENNDORF, Conrad
SEIDL, Timon
LUTZKY, Manfred
FOTOPOULOU, Eleni
SCHNELL, Markus
(31) 15189398
15172282
(32) 12.10.2015
16.06.2015
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) G10L 19/02
G10L 19/022
(11) EP4386746
(21) EP24165638.8
(47) 29.01.2025
(22) 10.06.2016
(54) DOWNSCALED DECODING
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) SCHMIDT, Konstantin
SEIDL, Timon
ALBERT, Tobias
FOTOPOULOU, Eleni
TOMASEK, Adrian
LUTZKY, Manfred
SCHNELL, Markus
BENNDORF, Conrad
(31) 15189398
15172282
(32) 12.10.2015
16.06.2015
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) G10L 19/02
G10L 19/022
(11) EP4375997
(21) EP24165642.0
(47) 29.01.2025
(22) 10.06.2016
(54) DOWNSCALED DECODING
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) SCHNELL, Markus
LUTZKY, Manfred
ALBERT, Tobias
TOMASEK, Adrian
SCHMIDT, Konstantin
FOTOPOULOU, Eleni
SEIDL, Timon
BENNDORF, Conrad
(31) 15189398
15172282
(32) 12.10.2015
16.06.2015
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) G10L 21/0216
G10L 15/00
(11) EP3844750
(21) EP19904108.8
(47) 29.01.2025
(87) KR2019018113
02.07.2020
(22) 19.12.2019
(54) HOME APPLIANCE AND METHOD FOR VOICE RECOGNITION THEREOF
(73) Samsung Electronics Co., Ltd.
(72) LEE, Nokhaeng
(31) 20180170469
(32) 27.12.2018
(33) Korea (Republic)

(51) G10L 21/0232
G10L 21/0208
G10L 25/57
G10L 21/0216
(11) EP4280212
(21) EP22855005.9
(47) 29.01.2025
(87) CN2022093168
16.02.2023
(22) 16.05.2022
(54) VOICE PROCESSING METHOD AND ELECTRONIC DEVICE
(73) Beijing Honor Device Co., Ltd.
(72) XIA, Risheng
WANG, Zhichao
LIU, Zhenyi
GAO, Haikuan
XUAN, Jianyong
(31) 202110925923
(32) 12.08.2021
(33) China

(51) G10L 21/0232
G10L 21/0216
G10L 21/0208
(11) EP4075431
(21) EP20905296.8
(47) 29.01.2025

(87) CN2020086639
01.07.2021
(22) 24.04.2020
(54) NOISE REDUCTION METHOD, DEVICE, ELECTRONIC APPARATUS AND READABLE STORAGE MEDIUM
(73) Unisoc (Chongqing) Technologies Co., Ltd.
(72) KANG, Li
(31) 201911368908
(32) 26.12.2019
(33) China

(51) G11B 5/706
G11B 5/667
(11) EP4413569
(21) EP22835790.1
(47) 29.01.2025
(87) EP2022086109
27.07.2023
(22) 15.12.2022
(54) MAGNETIC RECORDING TAPE AND APPARATUS
(73) International Business Machines Corporation
(72) ROTHUIZEN, Hugo
FURRER, Simeon
FONTANA, Robert
LANTZ, Mark Alfred
(31) 202217648758
(32) 24.01.2022
(33) United States of America

(51) G11C 7/04
G11C 7/10
G11C 7/22
G06F 3/06
G06F 1/20
(11) EP4078583
(21) EP20902191.4
(47) 29.01.2025
(87) US2020062119
24.06.2021
(22) 25.11.2020
(54) MEMORY SUB-SYSTEM TEMPERATURE REGULATION
(73) Micron Technology, Inc.
(72) SLOAT, Jacob
(31) 201916717460
(32) 17.12.2019
(33) United States of America

(51) G11C 7/10
G11C 7/22
H03K 19/017
H03K 19/0185
(11) EP4030431
(21) EP21853579.7
(47) 29.01.2025
(87) CN2021075393
10.02.2022
(22) 05.02.2021
(54) STORAGE SYSTEM
(73) Changxin Memory Technologies, Inc.
(72) NING, Shuliang
(31) 202010766451
(32) 03.08.2020
(33) China

(51) G11C 7/10
G11C 11/4093
G11C 29/02
G11C 29/50
B60K 17/08
(11) EP4290518
(21) EP22738527.5
(47) 29.01.2025
(87) CN2022092956
02.11.2023
(22) 16.05.2022
(54) CALIBRATION CONTROL CIRCUIT, ELECTRONIC DEVICE AND CALIBRATION CONTROL METHOD
(73) Changxin Memory Technologies, Inc.
(72) GAO, Enpeng
TIAN, Kai
WU, Zengquan
(31) 202210473826
(32) 29.04.2022
(33) China

(51) G11C 7/16
G11C 11/54
G11C 11/56
G11C 16/04
G11C 27/00
G06N 3/044
G06N 3/045
G06N 3/048
G06N 3/065
G06N 3/08
H01L 29/423
(11) EP4202930
(21) EP23156869.2
(47) 29.01.2025
(22) 25.07.2019
(54) PRECISION TUNING FOR THE PROGRAMMING OF ANALOG NEURAL MEMORY IN A DEEP LEARNING ARTIFICIAL NEURAL NETWORK
(73) Silicon Storage Technology, Inc.
(72) REITEN, Mark
DO, Nhan
TRAN, Hieu Van
TIWARI, Vipin
LEMKE, Steven
(31) 201816231231
201862746470 P
(32) 21.12.2018
16.10.2018
(33) United States of America
United States of America

(51) G11C 7/24
G11C 7/22
G11C 7/10
G05B 9/02
G06F 11/08
(11) EP3729431
(21) EP18891221.6
(47) 29.01.2025
(87) US2018065108
27.06.2019
(22) 12.12.2018
(54) IMPLEMENTING SAFETY MEASURES IN APPLICATIONS
(73) Lodestar Licensing Group LLC
(72) TROIA, Alberto
(31) 201715847201
(32) 19.12.2017
(33) United States of America

(51) G11C 11/56
G06F 11/10
G11C 7/10
G11C 16/08
G06F 12/02
G06F 13/16
G06F 3/06
G06F 11/00
(11) EP4174861
(21) EP22191871.7
(47) 29.01.2025
(22) 24.08.2022
(54) STORAGE DEVICE AND OPERATION METHOD OF STORAGE DEVICE
(73) SAMSUNG ELECTRONICS CO., LTD.
(72) HONG, Seongcheol
BYUN, Hyungkyun
(31) 20210149026
(32) 02.11.2021
(33) Korea (Republic)

(51) G11C 13/00
C12N 15/00
G06F 11/10
G06N 3/123
G16B 50/00
(11) EP3776557
(21) EP18914399.3
(47) 29.01.2025
(87) CN2018119349
17.10.2019
(22) 05.12.2018
(54) DATA STORAGE USING PEPTIDES
(73) The Hong Kong Polytechnic University
(72) LAU, Chung Ming
YAO, Zhongping
NG, Cheuk Chi Albert
TAM, Wai Man
(31) 201862657026 P
(32) 13.04.2018
(33) United States of America

(51) G11C 13/00
G11C 16/08
G11C 8/08
(11) EP4339953
(21) EP23306442.7
(47) 29.01.2025
(22) 31.08.2023
(54) NON-VOLATILE MEMORY DEVICE AND CORRESPONDING METHOD OF OPERATION
(73) STMicroelectronics S.r.l.
STMicroelectronics (ALPS) SAS
(72) TOMAIUOLO, Francesco
CONTE, Antonino
MACCARRONE, Agatino Massimo
RUSSO, Vincenzo
JOUANNEAU, Thomas
(31) 202200018825
(32) 14.09.2022
(33) Italy

(51) G16H 10/20
G16H 40/67
G16H 15/00
G16H 50/30
G16H 20/60
(11) EP3680913
(21) EP19211641.6
(47) 29.01.2025
(22) 02.12.2013

(54) AUTOMATED HEALTH DATA ACQUISITION, PROCESSING AND COMMUNICATION SYSTEM
(73) dacadoo ag
(72) Ohnemus, Peter
Heuer, Manuel
Leason, David
Naef, Andre
(31) 201261732203 P
(32) 30.11.2012
(33) United States of America

(51) G16H 10/60
G06Q 20/02
H04L 9/06
H04L 9/30
H04L 9/14
G06Q 20/38
G16H 50/70
G16H 10/20
(11) EP3378029
(21) EP16867203.8
(47) 29.01.2025
(87) US2016062718
26.05.2017
(22) 18.11.2016
(54) DISTRIBUTED SYSTEMS FOR SECURE STORAGE AND RETRIEVAL OF ENCRYPTED BIOLOGICAL SPECIMEN DATA
(73) Global Specimen Solutions, Inc.
(72) COLLINS, Mark, Anthony
WARNER, Amelia, Wall
(31) 201562256759 P
(32) 18.11.2015
(33) United States of America

(51) G16H 20/17
(11) EP3549133
(21) EP17823040.5
(47) 29.01.2025
(87) EP2017080682
07.06.2018
(22) 28.11.2017
(54) STARTER KIT FOR BASAL RATE TITRATION
(73) Novo Nordisk A/S
(72) VAN ORDEN, Brad Warren
ARADÓTTIR, Tinna, Björk
BENGTSSON, Henrik
(31) 201662427333 P
17151561
(32) 29.11.2016
16.01.2017
(33) United States of America
European Patent Office (EPO)

(51) G16H 40/63
G16H 30/40
(11) EP3931842
(21) EP20705226.7
(47) 29.01.2025
(87) EP2020054726
03.09.2020
(22) 24.02.2020
(54) CAMERA ASSISTED SUBJECT SUPPORT CONFIGURATION
(73) Koninklijke Philips N.V.
(72) MAZURKEWITZ, Peter, Caesar
WEISS, Steffen
KRUEGER, Sascha
TANTTU, Jukka, Ilmari
SENEGAS, Julien, Thomas
(31) 19159035
(32) 25.02.2019
(33) European Patent Office (EPO)

(51) G16H 40/67
G06F 15/00
A61M 16/00
G16H 10/60
G16H 20/40
G16H 40/20
A61M 16/16
G06Q 40/08
H04L 41/0803
(11) EP4224329
(21) EP22207028.6
(47) 29.01.2025
(22) 26.06.2012
(54) DATA CAPTURE AND ROUTING SYSTEM AND METHOD
(73) Fisher & Paykel Healthcare Limited
(72) FONG, Winston Richard
CASSE, Benjamin Wilson
(31) 201161501641 P
(32) 27.06.2011
(33) United States of America

(51) G16H 50/20
(11) EP4239648
(21) EP23182789.0
(47) 29.01.2025
(22) 10.09.2019
(54) METHOD FOR CARDIAC MONITORING
(73) Cardisio GmbH
(72) Baumeister, Meik
Tenderich, Gero
(31) 102018121974
(32) 10.09.2018
(33) Germany

(51) G16H 50/20
G16H 20/40
G16H 20/30
G16H 20/70
A61B 5/00
A61B 5/245
A61B 5/369
G06N 3/08
G06N 3/045
G06N 3/048
A61B 6/03
G01R 33/48
(11) EP3706617
(21) EP18876659.6
(47) 29.01.2025
(87) US2018060186
16.05.2019
(22) 09.11.2018
(54) EFFICACY AND/OR THERAPEUTIC PARAMETER RECOMMENDATION USING INDIVIDUAL PATIENT DATA AND THERAPEUTIC BRAIN NETWORK MAPS
(73) LVIS Corporation
(72) LEE, Jin Hyung
FANG, Zhongnan
(31) 201762584669 P
(32) 10.11.2017
(33) United States of America

(51) G21C 1/22
G21C 1/14
G21C 5/14
G21C 5/22
G21C 15/02
G21C 11/06
(11) EP4022650
(21) EP20875650.2
(47) 29.01.2025
(87) US2020066599
01.07.2021
(22) 22.12.2020
(54) MOLTEN FUEL REACTORS AND ORIFICE RING PLATES FOR MOLTEN FUEL REACTORS
(73) TerraPower, LLC
(72) WARDLE, Kent E.
(31) 202062981374 P
201962953065 P
(32) 25.02.2020
23.12.2019
(33) United States of America
United States of America

(51) G21C 3/32
G21C 3/33
G21C 3/334
(11) EP4348685
(21) EP22734219.3
(47) 29.01.2025
(87) EP2022065092
08.12.2022
(22) 02.06.2022
(54) BOTTOM NOZZLE AND NUCLEAR FUEL ASSEMBLY COMPRISING SUCH A BOTTOM NOZZLE
(73) FRAMATOME
(72) BEN AISSA, Mhamed
MESSINGSCHLAGER, Marco
BLANC, Pascal
(31) 21305746
(32) 03.06.2021
(33) European Patent Office (EPO)

(51) G21C 7/08
G21D 3/00
G21C 17/108
(11) EP4195221
(21) EP21854318.9
(47) 29.01.2025
(87) KR2021010171
10.02.2022
(22) 03.08.2021
(54) METHOD OF DYNAMIC CONTROL ROD REACTIVITY MEASUREMENT
(73) Korea Hydro & Nuclear Power Co., Ltd.
(72) LEE, Eun-ki
(31) 20200098102
(32) 05.08.2020
(33) Korea (Republic)

(51) G21C 17/07
G21C 19/08
G21C 19/07
(11) EP4309189
(21) EP22716029.8
(47) 29.01.2025
(87) EP2022056938
22.09.2022
(22) 17.03.2022

(54) DEVICE FOR RAISING OR LOWERING A NUCLEAR FUEL ASSEMBLY IN A POOL OF A NUCLEAR INSTALLATION
(73) Framatome
(72) BUNOZ, Emmanuel
LOTAUT, Yannick
BASSET, Jean-Christophe
COUSTOURIER, Franck
GUEDICHI, Abdelghani
(31) 2102753
(32) 19.03.2021
(33) France

(51) G21G 1/12
G21G 1/10
(11) EP3830842
(21) EP19762481.0
(47) 29.01.2025
(87) IB2019056546
06.02.2020
(22) 31.07.2019
(54) A METHOD FOR GENERATING RADIOACTIVE ISOTOPES FOR MEDICAL APPLICATIONS
(73) Lenr-Cities Suisse Sàrl
(72) SWAIN, John David
DE MONTMOLLIN, Georges Albert
SRIVASTAVA, Yogendra Narain
(31) 201862713581 P
(32) 02.08.2018
(33) United States of America

(51) G21K 1/00
C12Q 1/6813
(11) EP3906567
(21) EP19831768.7
(47) 29.01.2025
(87) EP2019087187
09.07.2020
(22) 31.12.2019
(54) METHOD AND APPARATUS FOR INVESTIGATING INTRA- AND/OR INTERMOLECULAR INTERACTIONS INVOLVING RNA
(73) Ecole Supérieure de Physique et de Chimie Industrielles de la Ville de Paris
Centre national de la recherche scientifique
(72) BOCKELMANN, Ulrich
(31) 19305004
(32) 03.01.2019
(33) European Patent Office (EPO)

(51) G21K 1/06
G02B 1/12
G02B 5/18
(11) EP4073558
(21) EP20820891.8
(47) 29.01.2025
(87) EP2020084881
17.06.2021
(22) 07.12.2020
(54) METHOD FOR PRODUCING A DIFFRACTIVE OPTICAL ELEMENT AND DIFFRACTIVE OPTICAL ELEMENT
(73) Friedrich-Schiller-Universität Jena
Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) ZEITNER, Uwe Detlef
KLEY, Ernst-Bernhard
SCHREMPEL, Frank
(31) 102019134336
(32) 13.12.2019
(33) Germany

(51) H01B 7/00
H01B 7/04
H01B 7/14
H01B 9/00
H01B 9/02
H01B 13/00
(11) EP4199007
(21) EP21908404.3
(47) 29.01.2025
(87) CN2021087591
30.06.2022
(22) 15.04.2021
(54) SUBMARINE CABLE AND MANUFACTURING METHOD THEREFOR
(73) Zhongtian Technology Submarine Cable Co., Ltd.
(72) WANG, Liyuan
FANG, Jingjing
ZHAO, Youlin
WENG, Jian
WU, Jingchao
XUE, Jianlin
HU, Ming
ZHANG, Hongliang
WANG, Haiyang
(31) 202011568968
(32) 25.12.2020
(33) China

(51) H01B 7/285
H01B 7/14
H01B 7/282
(11) EP4273890
(21) EP22305647.4
(47) 29.01.2025
(22) 02.05.2022
(54) DYNAMIC CABLES WITH THERMOPLASTIC SHEATH REINFORCED BY WOUND FIBRES
(73) Nexans
(72) AKULICHEV, Anton
JOHANSON, Audun
BENGTSSON, Karl Magnus

(51) H01B 7/285
H01B 7/14
H01B 7/282
H01B 7/18
(11) EP4273891
(21) EP22305648.2
(47) 29.01.2025
(22) 02.05.2022
(54) DYNAMIC CABLES WITH FIBRE REINFORCED THERMOPLASTIC COMPOSITE SHEATH
(73) Nexans
(72) AKULICHEV, Anton
BENGTSSON, Karl Magnus
JOHANSON, Audun

(51) H01B 17/00
H01B 17/28
G01K 11/32
(11) EP3417462
(21) EP16710134.4
(47) 29.01.2025
(87) EP2016055177
14.09.2017
(22) 10.03.2016
(54) HIGH-VOLTAGE DEVICE FEATURING TEMPERATURE MEASUREMENT, AND METHOD FOR MEASURING THE TEMPERATURE OF A HIGH-VOLTAGE DEVICE
(73) HSP Hochspannungsgeräte GmbH
(72) TITZE, Joachim
SCHNITZLER, Tim
ADAMS, Thomas

(51) H01F 5/06
H01F 27/30
H03K 17/95
(11) EP3979270
(21) EP21195478.9
(47) 29.01.2025
(22) 08.09.2021
(54) INDUCTIVE SENSOR DEVICE
(73) Pepperl+Fuchs SE
(72) DREBES, Patrick
ELTER, Johann
(31) 102020212238
(32) 29.09.2020
(33) Germany

(51) H01F 7/06
H01F 7/08
H01F 7/18
F16K 37/00
F16K 31/06
G01D 5/14
H01F 7/128
(11) EP4119827
(21) EP21184966.6
(47) 29.01.2025
(22) 12.07.2021
(54) END POSITION SENSOR FOR SOLENOID VALVE
(73) GSR Ventiltechnik GmbH & Co. KG
(72) REIN, Igor

(51) H01F 37/00
H05K 9/00
(11) EP4179555
(21) EP21754890.8
(47) 29.01.2025
(87) AT2021060243
13.01.2022
(22) 07.07.2021
(54) HVDC AIR-CORE REACTOR
(73) Coil Holding GmbH
(72) SCHUSTER, Rainer
FRÖHLICH, Bernhard
EDER, Josef
(31) 505802020
(32) 07.07.2020
(33) Austria

(51) H01F 41/02
H01F 3/02
H01F 27/245
(11) EP3857579
(21) EP19795087.6
(47) 29.01.2025
(87) EP2019077506
22.05.2020
(22) 10.10.2019

(54) ELECTRICAL STEEL SHEET HAVING A STRUCTURED SURFACE FOR DOMAINS REFINING
(73) Siemens Aktiengesellschaft
(72) SOLLER, Thomas
SCHUH, Carsten
RIEGER, Gotthard
VOLLMER, Rolf
BUSCHBECK, Jörg
(31) 18206272
(32) 14.11.2018
(33) European Patent Office (EPO)

(51) H01F 41/02
H01F 27/245
(11) EP4235716
(21) EP21886235.7
(47) 29.01.2025
(87) JP2021039554
05.05.2022
(22) 26.10.2021
(54) WOUND CORE, METHOD OF PRODUCING WOUND CORE, AND WOUND CORE PRODUCTION DEVICE
(73) NIPPON STEEL CORPORATION
(72) MOGI, Hisashi
IWAKI, Masataka
MIZUMURA, Takahito
(31) 2020178560
(32) 26.10.2020
(33) Japan

(51) H01G 11/06
H01G 11/50
H01G 11/82
H01M 10/052
(11) EP2521148
(21) EP10840847.7
(47) 29.01.2025
(87) JP2010071641
07.07.2011
(22) 03.12.2010
(54) ELECTRICITY-STORAGE DEVICE
(73) Musashi Energy Solutions Co., Ltd.
(72) NANSAKA, Kenji
ANDO, Nobuo
(31) 2009297156
(32) 28.12.2009
(33) Japan

(51) H01H 9/04
(11) EP3903328
(21) EP19843034.0
(47) 29.01.2025
(87) US2019068554
02.07.2020
(22) 26.12.2019
(54) CIRCUIT PROTECTION DEVICES, SYSTEMS AND METHODS FOR EXPLOSIVE ENVIRONMENT COMPLIANCE
(73) Eaton Intelligent Power Limited
(72) MANAHAN, Joseph Michael
DECARR, Graig
LEUBNER, Edmund
LEDGERWOOD, Adam
BUTLER, Andrew
(31) 201916723389
201862784975 P
(32) 20.12.2019
26.12.2018
(33) United States of America
United States of America

(51) H01H 9/16
(11) EP4080535
(21) EP22305600.3
(47) 29.01.2025
(22) 22.04.2022
(54) SPRING MECHANISM USED FOR DUAL POWER TRANSFER SWITCH AND DUAL POWER TRANSFER SWITCH
(73) Schneider Electric Industries SAS
(72) XIE, Xi
ZHOU, Junjie
WANG, Xiaoqin
(31) 202120847713 U
(32) 23.04.2021
(33) China

(51) H01H 9/36
H01H 9/44
(11) EP3846192
(21) EP20212947.4
(47) 29.01.2025
(22) 10.12.2020
(54) ARC CHUTE FOR CIRCUIT PROTECTIVE DEVICES
(73) Schneider Electric USA, Inc.
(72) SHEA, John J.
(31) 201916729926
(32) 30.12.2019
(33) United States of America

(51) H01H 13/06
H01H 13/14
G04B 3/04
H01H 3/12
(11) EP4120302
(21) EP21799828.5
(47) 29.01.2025
(87) CN2021082433
11.11.2021
(22) 23.03.2021
(54) ELECTRONIC DEVICE
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) FAN, Wei
(31) 202020737960 U
(32) 07.05.2020
(33) China

(51) H01H 31/00
H01H 71/24
(11) EP4298654
(21) EP22720404.7
(47) 29.01.2025
(87) EP2022058781
27.10.2022
(22) 01.04.2022
(54) RAPID SAFETY SWITCH AND RAPID SAFETY SWITCH SYSTEM
(73) Siemens Aktiengesellschaft
(72) EINSCHENK, Jürgen
(31) 102021204082
(32) 23.04.2021
(33) Germany

(51) H01H 33/04
H01H 31/02
H01H 31/28
H01H 33/91
H01H 33/12
H01H 1/42
H01H 1/62
(11) EP3832685
(21) EP19213408.8
(47) 29.01.2025
(22) 04.12.2019
(54) SWITCHING ARRANGEMENT FOR SEPARATING A CONDUCTIVE CONNECTION
(73) Siemens Energy Global GmbH & Co. KG
(72) Schräder, Dirk
Rohmann, Mariusz

(51) H01H 37/48
H01H 37/00
H01H 37/70
H01H 37/22
(11) EP4303903
(21) EP23181396.5
(47) 29.01.2025
(22) 26.06.2023
(54) ROD THERMOSTAT WITH SAFETY
(73) Termoregolatori Campini Corel S.p.A.
(72) BELLONI, Gianluigi
(31) 202200014128
(32) 04.07.2022
(33) Italy

(51) H01H 47/00
(11) EP4075468
(21) EP20905442.8
(47) 29.01.2025
(87) CN2020139489
01.07.2021
(22) 25.12.2020
(54) CONTROL CIRCUIT AND CONTROL METHOD FOR CONTACTOR
(73) Schneider Electric Industries SAS
(72) GEFFROY, Vincent
LANES, David
SHUANG, Bing
(31) 201911370027
(32) 26.12.2019
(33) China

(51) H01H 50/64
H01H 50/32
(11) EP3792948
(21) EP20194789.2
(47) 29.01.2025
(22) 07.09.2020
(54) AN ELECTROMAGNETIC SWITCH
(73) Kedu Electric Co ., Ltd
(72) CHEN, Dong
ZHENG, Chunkai
LIAO, Jun
LI, Ziping
TONG, Zhixia
(31) 201911425950
201910858174
(32) 31.12.2019
11.09.2019
(33) China
China

(51) H01H 71/04
H01H 3/28
H01H 33/38
H01H 47/02
H01H 47/32
(11) EP4016578

(21) EP20306629.5
(47) 29.01.2025
(22) 21.12.2020
(54) DEVICE FOR DIAGNOSING A SWITCHING EVENT, ASSOCIATED SWITCHING DEVICE AND DIAGNOSTIC METHOD
(73) Schneider Electric Industries SAS
(72) GRAND, Sébastien
BERNARD, Jean-Baptiste

(51) H01H 71/10
G06F 21/44
H01H 9/20
(11) EP4078643
(21) EP20841656.0
(47) 29.01.2025
(87) EP2020025595
24.06.2021
(22) 21.12.2020
(54) CIRCUIT INTERRUPTERS WITH ELECTRONICALLY CONTROLLED LOCK OUT TAG OUT SYSTEMS AND RELATED ELECTRICAL DISTRIBUTION SYSTEMS AND METHODS
(73) Eaton Intelligent Power Limited
(72) MUELLER, Robert, William
GRODEN, Brianna
WISE, James, I.
SHAAK, Todd
SMITH, Andrew, R.
ROHN, David, Raymond
(31) 202016999144
201962951415 P
(32) 21.08.2020
20.12.2019
(33) United States of America
United States of America

(51) H01H 85/05
H01H 39/00
H01H 85/46
H01H 85/02
H01H 9/10
(11) EP4040466
(21) EP21786074.1
(47) 29.01.2025
(87) CN2021113103
16.06.2022
(22) 17.08.2021
(54) EXCITATION FUSE FOR SEQUENTIALLY DISCONNECTING CONDUCTOR AND MELT
(73) Xi' An Sinofuse Electric Co., Ltd.
(72) WANG, Wei
DUAN, Shaobo
GE, Xibin
SHI, Xiaoguang
CHEN, Rongrong
WANG, Xin
(31) 202110702549
202011458690
(32) 24.06.2021
11.12.2020
(33) China
China

(51) H01J 37/065
H01J 37/07
H01J 1/22
(11) EP4303906
(21) EP22771250.2
(47) 29.01.2025
(87) JP2022010356
22.09.2022
(22) 09.03.2022
(54) EMITTER AND DEVICE PROVIDED WITH SAME
(73) Denka Company Limited
(72) ISHIKAWA, Daisuke
(31) 2021046160
(32) 19.03.2021
(33) Japan

(51) H01J 37/141
(11) EP4111484
(21) EP21712043.5
(47) 29.01.2025
(87) EP2021054761
02.09.2021
(22) 25.02.2021
(54) POLE PIECE FOR A TRANSMISSION ELECTRON MICROSCOPE
(73) The Provost, Fellows, Scholars and other Members of Board of Trinity College Dublin
(72) JONES, Lewys
O'MAHONY, David
(31) 20159344
(32) 25.02.2020
(33) European Patent Office (EPO)

(51) H01J 37/153
H01J 37/21
H01J 37/28
(11) EP3867941
(21) EP19762955.3
(47) 29.01.2025
(87) EP2019073465
23.04.2020
(22) 03.09.2019
(54) FIELD CURVATURE CORRECTOR, CHARGED PARTICLE BEAM DEVICE WITH THIS CORRECTOR, AND METHODS OF OPERATING THE CHARGED PARTICLE BEAM DEVICE
(73) ICT INTEGRATED CIRCUIT TESTING GESELLSCHAFT FÜR HALBLEITERPRÜFTECHNIK MBH
(72) COOK, Benjamin John
KEMEN, Thomas
BARDAY, Roman
(31) 201816165193
(32) 19.10.2018
(33) United States of America

(51) H01J 49/42
H01J 49/02
(11) EP4100991
(21) EP21750498.4
(47) 29.01.2025
(87) US2021016435
12.08.2021
(22) 03.02.2021
(54) A CHARGE DETECTION MASS SPECTROMETER AND RELATED METHOD
(73) The Trustees of Indiana University
(72) JARROLD, Martin F.
BOTAMANENKO, Daniel
(31) 202062969325 P
(32) 03.02.2020
(33) United States of America

(51) H01L 21/02
C11D 3/00
C11D 7/32
C11D 7/50
C11D 11/00
(11) EP4245834
(21) EP23183592.7
(47) 29.01.2025
(22) 20.05.2020
(54) COMPOSITION AND PROCESS FOR SELECTIVELY ETCHING A HARD MASK AND/OR AN ETCH-STOP LAYER IN THE PRESENCE OF LAYERS OF LOW-K MATERIALS, COPPER, COBALT AND/OR TUNGSTEN
(73) BASF SE
(72) Klipp, Andreas
Ting, Chia Ching
Ke, Jhih Jheng
Hoogboom, Joannes Theodorus
Valentinus
Wang, Che Wei
(31) 19176290
(32) 23.05.2019
(33) European Patent Office (EPO)

(51) H01L 21/18
H01L 21/02
H01L 21/20
H01L 21/762
(11) EP4283658
(21) EP23173762.8
(47) 29.01.2025
(22) 16.05.2023
(54) METHOD FOR DIRECT BASIC MOLECULE ASSISTED BONDING
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) FOURNEL, Frank
CALVEZ, Aziliz
LARREY, Vincent
MORALES, Christophe
(31) 2205052
(32) 25.05.2022
(33) France

(51) H01L 21/18
H01L 21/762
(11) EP4283659
(21) EP23173764.4
(47) 29.01.2025
(22) 16.05.2023
(54) METHOD FOR DIRECT BONDING USING STRONG BASES
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) MORALES, Christophe
LARREY, Vincent
FOURNEL, Frank
CALVEZ, Aziliz
(31) 2205048
(32) 25.05.2022
(33) France

(51) H01L 21/203
C23C 14/06
C23C 14/34
H01L 21/338
H01L 29/778
H01L 29/786

H01L 29/812
H01L 33/32
H01S 5/042
H01S 5/183
H01S 5/343
H01S 5/30
(11) EP3509088
(21) EP17845803.0
(47) 29.01.2025
(87) JP2017020513
08.03.2018
(22) 01.06.2017
(54) NITRIDE COMPOUND SEMICONDUCTOR AND METHOD FOR MANUFACTURING SAME
(73) Japan Science and Technology Agency
(72) FUJIOKA, Hiroshi
UENO, Kohei
(31) 2016169994
(32) 31.08.2016
(33) Japan

(51) H01L 21/683
(11) EP4227984
(21) EP21878877.6
(47) 29.01.2025
(87) CN2021076783
21.04.2022
(22) 19.02.2021
(54) ELECTROSTATIC CHUCK ELECTRODE PATTERN STRUCTURE HAVING CONCENTRIC CIRCLE STRUCTURE
(73) Raycer Advanced Materials Technology Co., Ltd.
(72) ZHANG, Juxian
(31) 202011087867
(32) 12.10.2020
(33) China

(51) H01L 21/8258
H01L 27/06
H01L 29/76
H03K 17/72
H03K 17/06
(11) EP4191656
(21) EP22211028.0
(47) 29.01.2025
(22) 02.12.2022
(54) AUTOMATIC REVERSE BLOCKING BIDIRECTIONAL SWITCH
(73) Infineon Technologies Austria AG
(72) LEONG, Kennith Kin
KOLAR, Johann Walter
HUBER, Jonas Emanuel
(31) 202117542660
(32) 06.12.2021
(33) United States of America

(51) H01L 23/00
H01L 31/08
G06F 21/86
H01L 31/173
G06F 21/75
(11) EP3582258
(21) EP19179834.7
(47) 29.01.2025
(22) 12.06.2019
(54) PROTECTED ELECTRONIC CHIP
(73) STMicroelectronics (Research & Development) Limited
STMicroelectronics (Rousset) SAS
(72) RAE, Bruce
LISART, Mathieu
(31) 1870700
(32) 14.06.2018
(33) France

(51) H01L 23/00
H10B 43/27
H10B 43/40
H10B 43/50
(11) EP3915147
(21) EP19935559.5
(47) 29.01.2025
(87) CN2019093179
30.12.2020
(22) 27.06.2019
(54) NOVEL 3D NAND MEMORY DEVICE AND METHOD OF FORMING THE SAME
(73) Yangtze Memory Technologies Co., Ltd.
(72) KIM, Youn Cheul
OH, Jin Yong

(51) H01L 23/043
H01L 23/051
H01L 23/00
H01L 25/07
H01L 25/11
(11) EP4084057
(21) EP20904365.2
(47) 29.01.2025
(87) CN2020076428
01.07.2021
(22) 24.02.2020
(54) CRIMPING-TYPE IGBT MODULE AND POWER SEMICONDUCTOR DEVICE
(73) Zhuzhou CRRC Times Semiconductor Co., Ltd.
(72) ZHANG, Wenhao
SHI, Tingchang
KANG, Qiang
CHANG, Guiqin
PENG, Yongdian
WANG, Yuqi
DONG, Guozhong
LUO, Haihui
LI, Han
(31) 201911381706
(32) 27.12.2019
(33) China

(51) H01L 23/367
H05K 1/02
H05K 1/18
H01L 23/538
H01L 23/427
H01L 23/473
H05K 3/00
(11) EP3716321
(21) EP19166119.8
(47) 29.01.2025
(22) 29.03.2019
(54) COMPONENT CARRIER WITH EMBEDDED SEMICONDUCTOR COMPONENT AND EMBEDDED HIGHLY CONDUCTIVE BLOCK WHICH ARE MUTUALLY COUPLED
(73) AT & S Austria Technologie & Systemtechnik Aktiengesellschaft
(72) Moitzi, Heinz
Morianz, Mike
Zluc, Andreas
Stahr, Johannes

(51) H01L 23/373
H01L 23/42
H01L 23/34
H01L 23/48
(11) EP4085481
(21) EP20908542.2
(47) 29.01.2025
(87) US2020066772
08.07.2021
(22) 23.12.2020
(54) THERMAL MANAGEMENT USING VARIATION OF THERMAL RESISTANCE OF THERMAL INTERFACE
(73) Advanced Micro Devices, Inc.
(72) MCNAMARA, Andrew J.
KALVE, Swagata P.
JAGGERS, Christopher M.
(31) 201916729924
(32) 30.12.2019
(33) United States of America

(51) H01L 23/427
B33Y 80/00
(11) EP4379794
(21) EP22210750.0
(47) 29.01.2025
(22) 01.12.2022
(54) PULSATING HEAT PIPE SUPPORT DEVICE, POWER MODULE, AND COMPUTER PROGRAM PRODUCT
(73) Siemens Aktiengesellschaft
(72) Stegmeier, Stefan
Müller, Volker
Schwarz, Florian
Danov, Vladimir
Neugebauer, Stephan

(51) H01L 23/427
G06F 1/20
F04B 17/00
F28D 15/02
F04B 43/04
F04B 45/047
F28D 21/00
F28F 3/12
H01L 23/373
H01L 23/44
(11) EP3963625
(21) EP20723962.5
(47) 29.01.2025
(87) US2020028243
05.11.2020
(22) 15.04.2020
(54) MULTI-PHASE HEAT DISSIPATING DEVICE COMPRISING PIEZO STRUCTURES
(73) QUALCOMM INCORPORATED
(72) ROSALES, Jorge Luis
LE, Don
ANDERSON, Jon James
GAO, Le
(31) 201916398001
(32) 29.04.2019
(33) United States of America

(51) H01L 23/433
H01L 23/552
(11) EP3923319

(21) EP21178187.7
(47) 29.01.2025
(22) 08.06.2021
(54) SEMICONDUCTOR PACKAGE WITH HEATSINK
(73) MEDIATEK INC.
(72) YANG, Chih-An
CHANG, Kuang-Han
HSIAO, Yu-Liang
(31) 202117336331
202063036523 P
(32) 02.06.2021
09.06.2020
(33) United States of America
United States of America

(51) H01L 23/498
(11) EP4220709
(21) EP22217374.2
(47) 29.01.2025
(22) 03.12.2015
(54) GROUND VIA CLUSTERING FOR CROSSTALK MITIGATION
(73) INTEL Corporation
(72) ZHANG, Yu
QIAN, Zhiguo
AYGUN, Kemal
(31) 201514943880
201414575956
(32) 17.11.2015
18.12.2014
(33) United States of America
United States of America

(51) H01L 23/498
H01L 23/00
H01L 23/373
(11) EP4307364
(21) EP23182772.6
(47) 29.01.2025
(22) 30.06.2023
(54) POWER SUBSTRATE ASSEMBLY WITH REDUCED WARPAGE
(73) Littelfuse, Inc.
(72) MALDO, Tiburcio A.
HUGHES, Rhodri
ATIENZA Jr., Domingo
GROZEN, Jeff
EBIDO, Robert
CHUA, Josef Colquin A.
(31) 202217864881
(32) 14.07.2022
(33) United States of America

(51) H01L 23/522
H01L 23/00
H01L 23/48
H01L 25/065
(11) EP3387674
(21) EP16819775.4
(47) 29.01.2025
(87) US2016065246
15.06.2017
(22) 07.12.2016
(54) CAPACITOR FORMED ON HEAVILY DOPED SUBSTRATE
(73) Microchip Technology Incorporated
(72) YACH, Randy L.
MAZZILLI, Francesco
DIX, Greg
(31) 201615347213
201562264071 P
(32) 09.11.2016
07.12.2015
(33) United States of America
United States of America

(51) H01L 23/522
H01L 23/528
H01F 17/00
H01F 41/04
H01L 23/532
(11) EP3513430
(21) EP17761145.6
(47) 29.01.2025
(87) US2017045979
22.03.2018
(22) 08.08.2017
(54) PARTIAL METAL FILL FOR PREVENTING EXTREME-LOW-K DIELECTRIC DELAMINATION
(73) Qualcomm Incorporated
(72) WANG, Zhongze
CHEN, Guoqing
(31) 201615268479
(32) 16.09.2016
(33) United States of America

(51) H01L 23/538
H01L 25/07
(11) EP4016618
(21) EP20216024.8
(47) 29.01.2025
(22) 21.12.2020
(54) POWER DEVICE PACKAGING
(73) Hamilton Sundstrand Corporation
(72) EWANCHUK, Jeffrey
DEBBADI, Karthik
ROSADO, Sebastian

(51) H01L 25/04
H01L 25/16
H01L 31/0232
B23K 26/00
B29D 11/00
G02B 25/00
H01L 21/687
B23K 26/142
B23K 26/38
B23K 26/402
B23K 37/04
H01L 21/67
B23K 103/00
(11) EP3900035
(21) EP19900189.2
(47) 29.01.2025
(87) US2019067819
25.06.2020
(22) 20.12.2019
(54) CONFIGURABLE FIXTURE FOR CUTTING SHAPES AND CUTTING METHOD
(73) Magic Leap, Inc.
(72) SCHMULEN, Jeffrey Dean
BHAGAT, Sharad D.
SAWICKI, Joseph Christopher
PEROZ, Christophe
(31) 201862783355 P
(32) 21.12.2018
(33) United States of America

(51) H01L 25/075
G02F 1/1333
(11) EP3869558
(21) EP21156157.6
(47) 29.01.2025
(22) 10.02.2021
(54) DISPLAY PANEL AND TILED DISPLAY DEVICE
(73) InnoLux Corporation
(72) HSIEH, Tsau-Hua
SHIH, Jian-Jung
(31) 202011364441
202062978302 P
(32) 27.11.2020
19.02.2020
(33) China
United States of America

(51) H01L 25/075
H01L 25/16
G09G 3/20
G09G 3/32
H01L 33/62
H01L 23/00
(11) EP3743944
(21) EP19793980.4
(47) 29.01.2025
(87) KR2019001669
31.10.2019
(22) 12.02.2019
(54) LED DISPLAY AND ELECTRONIC DEVICE HAVING SAME
(73) Samsung Electronics Co., Ltd.
(72) HAN, Sangtae
KIM, Mijin
KANG, Changsun
PARK, Taesang
LEE, Kyoree
(31) 20180047116
(32) 24.04.2018
(33) Korea (Republic)

(51) H01L 25/18
H01L 25/00
H10B 80/00
H10B 43/40
(11) EP4200908
(21) EP21947574.6
(47) 29.01.2025
(87) CN2021103730
05.01.2023
(22) 30.06.2021
(54) THREE-DIMENSIONAL MEMORY DEVICES AND METHODS FOR FORMING THE SAME
(73) Yangtze Memory Technologies Co., Ltd.
(72) XIA, Zhiliang
CHEN, Liang
LIU, Wei
WANG, Yanhong
YANG, Yuancheng
ZHANG, Kun
ZHOU, Wenxi

(51) H01L 27/088
H01L 21/336
H01L 29/775
H01L 29/06
H01L 29/08
H01L 29/423
H01L 29/417
B82Y 10/00
(11) EP4191668

(21) EP21212147.9
(47) 29.01.2025
(22) 03.12.2021
(54) A FIELD-EFFECT TRANSISTOR DEVICE
(73) IMEC VZW
(72) Afzalian, Aryan
Ryckaert, Julien
Horiguchi, Naoto
(51) H01L 27/088
H01L 29/775
H01L 21/336
H01L 29/423
H01L 29/08
B82Y 10/00
H01L 29/06
H01L 29/417
(11) EP4191670
(21) EP21212150.3
(47) 29.01.2025
(22) 03.12.2021
(54) METHOD FOR FORMING FET DEVICE
(73) IMEC VZW
(72) Horiguchi, Naoto
Chan, Boon Teik
Ryckaert, Julien
(51) H01L 27/12
H10K 59/131
G09G 3/20
H10K 59/179
H10K 50/842
H10K 59/82
(11) EP3016165
(21) EP15190112.1
(47) 29.01.2025
(22) 16.10.2015
(54) DISPLAY DEVICE WITH POWER SUPPLY IN COVER
(73) LG Display Co., Ltd.
(72) JEONG, Ilgi
PARK, SungWoo
(31) 20140147347
(32) 28.10.2014
(33) Korea (Republic)
(51) H01L 27/146
(11) EP3953970
(21) EP20788039.4
(47) 29.01.2025
(87) US2020015886
15.10.2020
(22) 30.01.2020
(54) SIMULTANEOUS DUAL-BAND IMAGE SENSORS
(73) HRL Laboratories LLC
(72) NGUYEN, Minh B.
NOSHO, Brett Z.
(31) 201962832693 P
(32) 11.04.2019
(33) United States of America
(51) H01L 29/423
H01L 29/78
H01L 21/336
H01L 29/49
(11) EP4047664
(21) EP22155166.6
(47) 29.01.2025
(22) 04.02.2022
(54) VERTICAL-CONDUCTION SILICON CARBIDE MOSFET DEVICE HAVING IMPROVED GATE BIASING STRUCTURE AND MANUFACTURING PROCESS THEREOF
(73) STMicroelectronics S.r.l.
(72) SAGGIO, Mario Giuseppe
CAMALLERI, Cateno Marco
GUARNERA, Alfio
(31) 202100003653
(32) 17.02.2021
(33) Italy
(51) H01L 31/0224
(11) EP4235809
(21) EP22000133.3
(47) 29.01.2025
(22) 13.05.2022
(54) ELECTRODE STRUCTURE OF BACK CONTACT CELL
(73) Solarlab Aiko Europe GmbH
(72) Yang, Xinqiang
Chen, Gang
Wang, Yongqian
(31) 202210168681
(32) 24.02.2022
(33) China
(51) H01L 31/0224
H01L 31/0745
(11) EP4256619
(21) EP21830410.3
(47) 29.01.2025
(87) EP2021084193
09.06.2022
(22) 03.12.2021
(54) BACK-CONTACT SOLAR CELL, AND PRODUCTION THEREOF
(73) EnPV GmbH
(72) HOFFMANN, Erik
(31) 102020132245
(32) 04.12.2020
(33) Germany
(51) H01L 31/0747
H01L 31/18
H01L 31/20
(11) EP4305674
(21) EP22710329.8
(47) 29.01.2025
(87) EP2022053843
15.09.2022
(22) 16.02.2022
(54) METHOD AND SYSTEM FOR TREATING A STACK INTENDED FOR THE MANUFACTURE OF A HETEROJUNCTION PHOTOVOLTAIC CELL
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) JERONIMO, Pedro
(31) 2102211
(32) 08.03.2021
(33) France
(51) H01L 33/22
H01L 33/32
H01L 21/205
H01L 29/201
H01L 29/207
H01L 33/00
(11) EP3958333
(21) EP20791935.8
(47) 29.01.2025
(87) JP2020014796
22.10.2020
(22) 31.03.2020
(54) COMPOUND SEMICONDUCTOR LAYER LAMINATE AND METHOD FOR FORMING SAME, AND LIGHT-EMITTING DEVICE
(73) Sony Group Corporation
(72) NAKAJIMA, Hiroshi
TASAI, Kunihiko
KAWANISHI, Hidekazu
YANASHIMA, Katsunori
(31) 2019079978
(32) 19.04.2019
(33) Japan
(51) H01L 33/60
H01L 33/62
H01L 33/58
H01L 25/075
(11) EP4162539
(21) EP21734452.2
(47) 29.01.2025
(87) GB2021051330
09.12.2021
(22) 28.05.2021
(54) METHOD OF FORMING AN OPTICAL DEVICE AND OPTICAL DEVICE
(73) Plessey Semiconductors Limited
(72) PINOS, Andrea
WHITEMAN, John Lyle
TAN, WeiSin
MEZOUARI, Samir
(31) 202008330
(32) 03.06.2020
(33) United Kingdom
(51) H01M 4/04
H01M 4/134
H01M 4/1395
H01M 4/36
H01M 4/38
H01M 4/62
H01M 10/42
H01M 10/052
H01M 4/02
(11) EP4268295
(21) EP21845047.6
(47) 29.01.2025
(87) EP2021087635
30.06.2022
(22) 24.12.2021
(54) METHOD FOR APPLYING A PROTECTIVE LAYER TO AN ALKALI METAL OR ALKALI METAL ALLOY SURFACE, AND ARTICLE COMPRISING SUCH PROTECTIVE LAYER
(73) VITO NV
(72) VANGENEUGDEN, Dirk
VANHULSEL, Annick
VERHEYDE, Bert
RANGASAMY, Vijay Shankar
(31) 20217291
(32) 24.12.2020
(33) European Patent Office (EPO)
(51) H01M 4/04
H01M 4/62

H01M 10/38
(11) EP4293739
(21) EP23177785.5
(47) 29.01.2025
(22) 06.06.2023
(54) ENERGY STORAGE BATTERY AND PREPARATION METHOD THEREOF AND ENERGY STORAGE BATTERY PACK
(73) Jiang, Yang
Tang, Luping
Shen, Yilei
Zhang, Qingnan
(72) Tang, Luping
Zhang, Qingnan
Shen, Yilei
Jiang, Yang
(31) 202210631028
(32) 06.06.2022
(33) China

(51) H01M 4/04
H01M 10/42
H01M 4/62
H01M 50/531
B05C 5/02
H01M 4/139
B05C 9/06
(11) EP3993089
(21) EP21827881.0
(47) 29.01.2025
(87) KR2021005543
30.12.2021
(22) 03.05.2021
(54) METHOD FOR MANUFACTURING ELECTRODE ON WHICH RESISTANCE LAYER IS FORMED
(73) LG Energy Solution, Ltd.
(72) YUN, Su Hyun
JUNG, Bum Young
LEE, Han Young
YOON, Dong Sik
LEE, Suk Woo
(31) 20200077562
(32) 25.06.2020
(33) Korea (Republic)

(51) H01M 4/04
H01M 50/531
B26F 1/12
B26F 1/14
(11) EP4113648
(21) EP21880612.3
(47) 29.01.2025
(87) KR2021014395
21.04.2022
(22) 15.10.2021
(54) ELECTRODE-FORMING DEVICE EQUIPPED WITH NOTCHING PILOT PIN, AND METHOD FOR FORMING ELECTRODE USING SAME
(73) LG Energy Solution, Ltd.
(72) KONG, Tae Yoon
LIM, Seung Hyun
(31) 20200134693
(32) 16.10.2020
(33) Korea (Republic)

(51) H01M 4/13
H01M 4/131
H01M 4/485
H01M 4/525
H01M 4/62
H01M 10/0525
H01M 10/0566
H01M 10/0585
H01M 50/109
H01M 50/409
H01M 50/434
H01M 4/02
H01M 4/04
(11) EP3876308
(21) EP19878558.6
(47) 29.01.2025
(87) JP2019042327
07.05.2020
(22) 29.10.2019
(54) COIN-TYPE LITHIUM SECONDARY CELL
(73) NGK Insulators, Ltd.
(72) TAJIMA, Masanori
YURA, Yukinobu
MAEDA, Kazuki
(31) 2018204397
(32) 30.10.2018
(33) Japan

(51) H01M 4/13
H01M 4/62
H01M 10/052
H01M 4/131
H01M 4/02
H01M 4/525
(11) EP3951932
(21) EP20873049.9
(47) 29.01.2025
(87) KR2020013398
08.04.2021
(22) 29.09.2020
(54) POSITIVE ELECTRODE AND SECONDARY BATTERY INCLUDING THE SAME
(73) LG Energy Solution, Ltd.
(72) LEE, Dong Hun
KWAK, Min
KIM, Tae Gon
BAEK, Joo Yul
(31) 20190123144
(32) 04.10.2019
(33) Korea (Republic)

(51) H01M 4/139
H01M 10/052
G01N 27/04
G01N 29/34
G01N 29/44
H01M 4/1391
H01M 10/42
H01M 10/48
H01M 4/02
H01M 4/62
(11) EP3686967
(21) EP18859308.1
(47) 29.01.2025
(87) KR2018011008
28.03.2019
(22) 18.09.2018
(54) METHOD FOR DESIGNING ELECTRODE FOR LITHIUM SECONDARY BATTERY AND METHOD FOR MANUFACTURING ELECTRODE FOR LITHIUM SECONDARY BATTERY COMPRISING THE SAME
(73) LG Energy Solution, Ltd.
(72) KIM, Jeong Gil
OH, Song Taek
PARK, Ji Hye
(31) 20170120604
(32) 19.09.2017
(33) Korea (Republic)

(51) H01M 4/14
H01M 4/20
H01M 4/62
H01M 4/68
(11) EP3844829
(21) EP19769326.0
(47) 29.01.2025
(87) US2019049166
05.03.2020
(22) 30.08.2019
(54) NEGATIVE MASS FOR LEAD-ACID BATTERY ELECTRODES AND LEAD-ACID BATTERY INCLUDING SAME
(73) Clarios Germany GmbH & Co. KG
CPS Technology Holdings LLC
(72) LOGANATHAN, Kavi
SPENCE, Matthew, A.
BRENDEL, Cornelia
JOHNS, Frank-Thomas
(31) 201862725329 P
(32) 31.08.2018
(33) United States of America

(51) H01M 4/36
H01M 4/62
H01M 4/38
H01M 4/485
H01M 10/0525
C01B 33/113
H01M 4/134
H01M 4/1395
(11) EP3767712
(21) EP19800308.9
(47) 29.01.2025
(87) KR2019005542
14.11.2019
(22) 09.05.2019
(54) COMPOSITION FOR COATING A NEGATIVE ELECTRODE ACTIVE MATERIAL, NEGATIVE ELECTRODE ACTIVE MATERIAL AND NEGATIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY INCLUDING THE SAME
(73) LG Energy Solution, Ltd.
(72) YOON, Ji Hee
(31) 20180053095
(32) 09.05.2018
(33) Korea (Republic)

(51) H01M 4/38
H01M 4/1393
H01M 4/1395
H01M 4/36
H01M 4/48
H01M 4/587
H01M 4/62
(11) EP3813162
(21) EP19823227.4
(47) 29.01.2025
(87) CN2019091902

26.12.2019
(22) 19.06.2019
(54) LITHIUM-ION BATTERY ANODE MATERIAL AND PREPARATION METHOD THEREFOR, ANODE, AND LITHIUM-ION BATTERY
(73) BYD Company Limited
(72) JIAO, Xiaopeng
GAN, Yongqing
JIANG, Zhengfu
SHI, Xiao
LI, Shicai
(31) 201810654565
(32) 22.06.2018
(33) China

(51) H01M 4/62
H01B 1/24
H01B 13/00
C01B 32/168
H01M 10/0525
H01M 4/02
(11) EP4243124
(21) EP21900318.3
(47) 29.01.2025
(87) JP2021039095
09.06.2022
(22) 22.10.2021
(54) METHOD FOR PRODUCING CONDUCTIVE PASTE
(73) Sanyo Color Works, Ltd.
(72) UEMURA, Yu
(31) 2020202304
(32) 04.12.2020
(33) Japan

(51) H01M 4/64
H01M 10/0525
H01M 4/62
H01M 4/72
H01M 4/13
(11) EP3993110
(21) EP20831783.4
(47) 29.01.2025
(87) CN2020072145
30.12.2020
(22) 15.01.2020
(54) ELECTRODE SHEET, ELECTROCHEMICAL DEVICE AND DEVICE THEREOF
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) LI, Jing
ZHANG, Yang
XUE, Qingrui
WANG, Pengxiang
LI, Wei
ZHANG, Zige
LU, Yang
(31) 201910580214
(32) 28.06.2019
(33) China

(51) H01M 4/86
H01M 4/88
H01M 4/92
H01M 4/96
H01M 8/10
H01M 8/1004
(11) EP4293757
(21) EP22752770.2
(47) 29.01.2025
(87) JP2022005080
18.08.2022
(22) 09.02.2022
(54) METHOD OF PRODUCING ELECTRODE CATALYST, METHOD OF PRODUCING GAS DIFFUSION ELECTRODE, AND METHOD OF PRODUCING MEMBRANE/ELECTRODE ASSEMBLY
(73) N.E. Chemcat Corporation
(72) MIZUSAKI, Tomoteru
NAKAMURA, Yoko
SEKI, Yasuhiro
NAGAMORI, Kiyotaka
AOKI, Satoshi
(31) 2021019012
(32) 09.02.2021
(33) Japan

(51) H01M 4/86
H01M 4/88
H01M 4/92
H01M 4/96
H01M 8/10
H01M 8/1004
H01M 4/90
(11) EP4293758
(21) EP22752771.0
(47) 29.01.2025
(87) JP2022005081
18.08.2022
(22) 09.02.2022
(54) METHOD FOR PRODUCING ELECTRODE CATALYST, METHOD FOR PRODUCING GAS DIFFUSION ELECTRODE, AND METHOD FOR PRODUCING FILM-ELECTRODE JOINT BODY
(73) N.E. Chemcat Corporation
(72) AOKI, Satoshi
NAGAMORI, Kiyotaka
SEKI, Yasuhiro
NAKAMURA, Yoko
MIZUSAKI, Tomoteru
(31) 2021019013
(32) 09.02.2021
(33) Japan

(51) H01M 4/88
H01M 8/122
H01M 8/124
H01M 8/12
(11) EP4154333
(21) EP21712131.8
(47) 29.01.2025
(87) EP2021056294
25.11.2021
(22) 12.03.2021
(54) METHOD FOR PRODUCING AN ELECTROCHEMICAL CELL
(73) Robert Bosch GmbH
(72) MAIER, Nicolas
KLEIN, Stefan
(31) 102020206225
(32) 18.05.2020
(33) Germany

(51) H01M 8/0206
H01M 8/0215
H01M 8/0228
H01M 8/0236
H01M 8/0245
H01M 8/04
H01M 8/12
H01M 8/2475
C25B 13/04
H01M 8/021
H01M 8/2432
H01M 8/00
(11) EP4086989
(21) EP21897391.5
(47) 29.01.2025
(87) JP2021024594
02.06.2022
(22) 29.06.2021
(54) CONDUCTIVE MEMBER, CELL, CELL STACK DEVICE, MODULE, AND MODULE-ACCOMODATING DEVICE
(73) Kyocera Corporation
(72) HARA, Akihiro
YAMAGUCHI, Atsuki
HIRAO, Kazuki
(31) 2020196272
(32) 26.11.2020
(33) Japan

(51) H01M 8/0258
H01M 8/241
H01M 8/0276
H01M 8/0206
H01M 8/10
(11) EP4273973
(21) EP22185409.4
(47) 29.01.2025
(22) 18.07.2022
(54) SEPARATOR FOR FUEL CELL AND FUEL CELL STACK
(73) Kia Corporation
Hyundai Motor Company
(72) KIM, Bae Jung
KIM, Sun Hwi
PARK, Young Chul
KIM, Chan Gi
CHOI, Hyun Kyu
KIM, Hyun Jeong
KIM, Ah Reum
(31) 20220044957
(32) 12.04.2022
(33) Korea (Republic)

(51) H01M 8/0297
H01M 8/10
(11) EP4303971
(21) EP23176723.7
(47) 29.01.2025
(22) 01.06.2023
(54) METHOD AND DEVICE FOR HARDENING AN ADHESIVE BETWEEN ELECTRODE LAYERS OF AN ELECTRODE STACK
(73) MB Automation GmbH & Co. KG
(72) Hochmann, Sven
(31) 102022116561
(32) 04.07.2022
(33) Germany

(51) H01M 8/04111
H01M 8/04119
H01M 8/04492
H01M 8/04537
H01M 8/04664

(11) EP4333132
(21) EP22193296.5
(47) 29.01.2025
(22) 31.08.2022
(54) A COMPUTER-IMPLEMENTED METHOD FOR DETERMINING A DEGRADATION STATE OF A TURBO AND/OR A HUMIDIFIER OF A FUEL CELL SYSTEM
(73) VOLVO TRUCK CORPORATION
(72) BLOMGREN, Fredrik
LINDBERG, Johan
LUONG, Staffan

(51) H01M 8/1004
H01M 4/90
H01M 4/92
H01M 4/86
H01M 4/88
H01M 8/10
(11) EP4148842
(21) EP22180056.8
(47) 29.01.2025
(22) 21.06.2022
(54) MEMBRANE ELECTRODE ASSEMBLY, POLYMER ELECTROLYTE FUEL CELL, METHOD OF PRODUCING CATALYST INK, AND METHOD OF PRODUCING MEMBRANE ELECTRODE ASSEMBLY
(73) SCREEN Holdings Co., Ltd.
(72) TAKAGI, Yoshinori
(31) 2021147417
(32) 10.09.2021
(33) Japan

(51) H01M 10/04
H01M 50/103
H01M 50/15
H01M 50/528
H01M 50/533
H01M 50/536
H01M 10/613
H01M 10/647
H01M 10/6556
H01M 50/209
H01M 50/242
(11) EP4099457
(21) EP22177144.7
(47) 29.01.2025
(22) 03.06.2022
(54) COVER PLATE ASSEMBLY FOR BATTERY AND BATTERY DEVICE
(73) Gree Altairnano New Energy Inc.
(72) LI, Haijun
LAI, Xinhua
DENG, Saijun
XU, Delei
ZHAN, Shiying
CHENG, Ahong
(31) 202110618699
(32) 03.06.2021
(33) China

(51) H01M 10/04
H01M 50/342
H01M 50/383
H01M 50/505
H01M 50/512
H01M 50/213
H01M 50/249
(11) EP4205212
(21) EP21769703.6
(47) 29.01.2025
(87) EP2021073734
03.03.2022
(22) 27.08.2021
(54) BATTERY MODULE
(73) Jaguar Land Rover Limited
(72) BUSH, Andrew
(31) 202016430
202013461
202013458
202013445
(32) 16.10.2020
27.08.2020
27.08.2020
27.08.2020
(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom

(51) H01M 10/04
H01M 50/466
(11) EP4024546
(21) EP20892270.8
(47) 29.01.2025
(87) KR2020009060
03.06.2021
(22) 10.07.2020
(54) ELECTRODE ASSEMBLY AND METHOD FOR MANUFACTURING SAME
(73) LG ENERGY SOLUTION, LTD.
(72) KWAK, Jin Seop
(31) 20190153475
(32) 26.11.2019
(33) Korea (Republic)

(51) H01M 10/052
H01M 10/0563
H01M 10/42
H01M 50/449
H01M 50/431
H01M 50/411
H01M 50/491
H01M 50/489
H01M 50/451
H01M 50/403
(11) EP3506395
(21) EP18199834.5
(47) 29.01.2025
(22) 11.10.2018
(54) COMPOSITE SEPARATOR, PREPARATION METHOD OF THE SAME, AND ELECTROCHEMICAL DEVICE USING THE SAME
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) HUANG, Qisen
WANG, Shiwen
LIANG, Chengdu
HUANG, Huafeng
(31) 201711478896
(32) 29.12.2017
(33) China

(51) H01M 10/052
H01M 10/44
H01M 50/213
H01M 50/247
H01M 50/51
H01M 50/516
(11) EP3955356
(21) EP21176012.9
(47) 29.01.2025
(22) 26.05.2021
(54) BATTERY PACK AND TERMINAL
(73) Beijing Xiaomi Mobile Software Co., Ltd.
(72) ZHANG, Rui
(31) 202010803790
(32) 11.08.2020
(33) China

(51) H01M 10/052
H01M 10/60
H01M 10/0525
H01M 10/0567
H01M 10/0568
H01M 10/0569
(11) EP4303978
(21) EP23181613.3
(47) 29.01.2025
(22) 27.06.2023
(54) ELECTROLYTE SOLUTION FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME
(73) SK innovation Co., Ltd.
SK On Co., Ltd.
(72) PARK, Ki Sung
KIM, Myoung Lae
(31) 20220082040
(32) 04.07.2022
(33) Korea (Republic)

(51) H01M 10/0525
H01M 10/44
H01M 10/04
(11) EP4216330
(21) EP23151530.5
(47) 29.01.2025
(22) 13.01.2023
(54) FORMATION SYSTEM
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) XIE, Dongdong
HUANG, Caixia
TANG, Minghao
HE, Zehong
GUO, Fengyu
(31) 202220145055 U
(32) 19.01.2022
(33) China

(51) H01M 10/0567
H01G 11/64
H01M 10/052
H01M 10/0568
(11) EP3691016
(21) EP18869721.3
(47) 29.01.2025
(87) JP2018034025
02.05.2019
(22) 13.09.2018
(54) ELECTROLYTE SOLUTION, ELECTROCHEMICAL DEVICE, AND LITHIUM ION SECONDARY BATTERY AND MODULE
(73) Daikin Industries, Ltd.
(72) KINOSHITA, Masakazu
YAMAZAKI, Shigeaki
KUWAJIMA, Yoshiko

TAKAHASHI, Kenzou
(31) 2017206434
(32) 25.10.2017
(33) Japan

(51) H01M 10/0585
H01M 50/103
H01M 50/105
H01M 50/174
H01M 50/176
H01M 50/178
H01M 50/533
H01M 50/54
H01M 50/547
H01M 50/55
H01M 50/553
(11) EP4342018
(21) EP22729544.1
(47) 29.01.2025
(87) EP2022063189
24.11.2022
(22) 16.05.2022
(54) ELECTROCHEMICAL ELEMENT FOR A BATTERY, AND CORRESPONDING BATTERY
(73) SAFT
(72) BLONZ, Valentin
BEUGNON, Alexandre
(31) 2105171
(32) 18.05.2021
(33) France

(51) H01M 10/42
H01M 10/44
H01M 10/48
H01M 10/613
H01M 10/615
H01M 10/63
H01M 10/651
H01M 10/656
B60R 16/033
H01M 50/569
(11) EP3637533
(21) EP19201928.9
(47) 29.01.2025
(22) 08.10.2019
(54) A METHOD OF OPERATING A STORAGE BATTERY DEVICE
(73) Toshiba Infrastructure Systems & Solutions Corporation
Kabushiki Kaisha Toshiba
(72) Hagiwara, Keizo
Kondo, Atsumi
(31) 2018190930
(32) 09.10.2018
(33) Japan

(51) H01M 10/54
(11) EP4191748
(21) EP21857241.0
(47) 29.01.2025
(87) CN2021093663
24.02.2022
(22) 13.05.2021
(54) DEVICE FOR AUTOMATICALLY DISMANTLING POWER BATTERY MODULE
(73) Guangdong Brunp Recycling Technology Co., Ltd.
Hunan Brunp EV Recycling Co., Ltd.
Hunan Brunp Recycling Technology Co., Ltd.
(72) WU, Jindong
WU, Benben
YU, Haijun
XIE, Yinghao
(31) 202010824157
(32) 17.08.2020
(33) China

(51) H01M 10/54
B03C 1/30
B03C 1/16
B03C 1/14
B03C 7/06
B09B 3/35
B07B 13/08
B07C 5/344
B07B 13/10
B09B 101/16
(11) EP4184656
(21) EP21855152.1
(47) 29.01.2025
(87) CN2021093662
17.02.2022
(22) 13.05.2021
(54) METHOD FOR POWER BATTERY AUTOMATIC FINE-QUANTITY SORTING AND APPARATUS THEREOF
(73) Hunan Brunp Recycling Technology Co., Ltd.
Hunan Brunp EV Recycling Co., Ltd.
Guangdong Brunp Recycling Technology Co., Ltd
(72) YU, Haijun
PENG, Ting
LIU, Shumin
XIE, Yinghao
(31) 202010802939
(32) 11.08.2020
(33) China

(51) H01M 10/613
H01M 10/615
H01M 10/63
H01M 10/6567
(11) EP4087017
(21) EP22170280.6
(47) 29.01.2025
(22) 27.04.2022
(54) TEMPERATURE CONTROL APPARATUS AND TEMPERATURE CONTROL SYSTEM
(73) Huawei Digital Power Technologies Co., Ltd.
(72) LI, Quanming
MENG, Hao
(31) 202110491571
(32) 06.05.2021
(33) China

(51) H01M 10/613
H01M 10/625
H01M 10/647
H01M 10/653
H01M 10/6557
H01M 10/6566
H01M 50/209
H01M 50/224
H01M 50/242
H01M 50/249
H01M 50/264
H01M 50/291
H01M 50/293
(11) EP4184661
(21) EP22206929.6
(47) 29.01.2025
(22) 11.11.2022
(54) BATTERY MODULE
(73) Prime Planet Energy & Solutions, Inc.
(72) TSUCHIDA, Yasushi
ABE, Kosyo
TAKEDA, Takahide
IKEDA, Yasuo
WATANABE, Koji
KOBAYASHI, Keiichiro
TAKENO, Mio
SAKURAMOTO, Seiichi
OCHI, Makoto
IWASE, Kosuke
KOIKE, Masaki
SUZUKI, Yuzo
(31) 2021187142
(32) 17.11.2021
(33) Japan

(51) H01M 10/613
H01M 10/625
H01M 10/651
H01M 10/653
H01M 10/6556
H01M 10/6568
(11) EP4343921
(21) EP22804482.2
(47) 29.01.2025
(87) JP2022017937
24.11.2022
(22) 15.04.2022
(54) COOLING STRUCTURE, BATTERY UNIT, AND MANUFACTURING METHOD FOR COOLING STRUCTURE
(73) NIPPON STEEL CORPORATION
(72) MATSUI, Sho
KODAMA, Shinji
NORITA, Katsunari
OKE, Takashi
MIYAKE, Kyohei
MIKAZUKI, Yutaka
(31) 2021085198
(32) 20.05.2021
(33) Japan

(51) H01M 10/615
H01M 10/613
(11) EP3714506
(21) EP18807928.9
(47) 29.01.2025
(87) EP2018081861
31.05.2019
(22) 20.11.2018
(54) COOLING AND/OR HEATING DEVICE FOR A BATTERY USED IN A ELECTRICAL OR HYBRID CAR
(73) Arkema France
(72) DUFAURE, Nicolas
RACHED, Wissam
(31) 1761145
(32) 24.11.2017
(33) France

(51) H01M 10/6556
H01M 10/6567

H01M 50/209
H01M 50/342
H01M 50/367
H01M 50/375
(11) EP3965212
(21) EP21730788.3
(47) 29.01.2025
(87) CN2021082481
13.01.2022
(22) 23.03.2021
(54) BATTERY AND RELATED APPARATUS THEREOF, AND PREPARATION METHOD AND PREPARATION DEVICE
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) YUE, Jinru
LI, Xianda
GU, Mingguang
LI, Yao
HU, Lu
YANG, Piaopiao
CHEN, Xiaobo
(31) PCT/CN2020/101443
(32) 10.07.2020
(33) World Intellectual Property Office (WIPO)

(51) H01M 50/107
H01M 50/152
H01M 50/167
H01M 50/169
H01M 50/171
H01M 50/179
H01M 50/186
H01M 50/188
H01M 50/342
H01M 50/55
(11) EP4199199
(21) EP22210968.8
(47) 29.01.2025
(22) 01.12.2022
(54) SECONDARY BATTERY
(73) Samsung SDI Co., Ltd.
(72) CHOI, Woo Hyuk
KIM, Joung Ku
KIM, Kyoung Tae
KWON, Jun Hwan
YANG, Jun Ho
PARK, Hyun Suk
KANG, Bong Geun
LEE, Tae Yoon
LEE, Dong Sub
(31) 20210179507
(32) 15.12.2021
(33) Korea (Republic)

(51) H01M 50/176
H01M 50/528
H01M 50/536
H01M 50/55
H01M 50/553
(11) EP3690988
(21) EP20153472.4
(47) 29.01.2025
(22) 23.01.2020
(54) BATTERY UNIT AND BATTERY MODULE
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) WANG, Peng
GUO, Zhijun
ZHANG, Jie
(31) 201910088350
(32) 30.01.2019
(33) China

(51) H01M 50/188
H01M 50/184
H01M 50/176
H01M 50/528
H01M 50/548
H01M 50/533
H01M 50/107
H01M 50/559
H01M 50/567
H01M 50/179
(11) EP4199207
(21) EP21876742.4
(47) 29.01.2025
(87) CN2021125077
27.04.2023
(22) 20.10.2021
(54) BATTERY CELL, METHOD AND SYSTEM FOR MANUFACTURING A BATTERY CELL, BATTERY AND ELECTRICAL DEVICE
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) GUO, Zhijun
FANG, Kun

(51) H01M 50/209
H01M 50/264
(11) EP4358250
(21) EP23201235.1
(47) 29.01.2025
(22) 02.10.2023
(54) BATTERY MODULE
(73) Prime Planet Energy & Solutions, Inc.
(72) TSUDA, Yoshihiro
ABE, Kosyo
TERANAKA, Tomochika
(31) 2022168088
(32) 20.10.2022
(33) Japan

(51) H01M 50/209
H01M 50/264
H01M 50/291
H01M 10/04
(11) EP4340108
(21) EP23163892.5
(47) 29.01.2025
(22) 24.03.2023
(54) CONSTRAINING APPARATUS AND CONSTRAINING DEVICE
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) ZHAO, Jiayi
WANG, Zhihui
HUANG, Fangyu
TANG, Sheng
ZHANG, Zhiguo
(31) 202222468050 U
(32) 19.09.2022
(33) China

(51) H01M 50/211
H01M 50/227
H01M 50/24
H01M 50/242
H01M 50/262
H01M 50/271
H01M 50/50
(11) EP3404737
(21) EP17856646.9
(47) 29.01.2025
(87) KR2017010339
05.04.2018
(22) 20.09.2017
(54) BATTERY PACK
(73) LG Energy Solution, Ltd.
(72) KONG, Jin-Hak
YUN, Jin-Chul
CHOI, Yong-Seok
(31) 20160125901
(32) 29.09.2016
(33) Korea (Republic)

(51) H01M 50/271
H01M 50/30
H01M 10/04
H01M 10/647
H01M 50/209
H01M 50/262
H01M 50/289
H01M 50/502
H01M 50/505
H01M 10/48
(11) EP4235927
(21) EP23171327.2
(47) 29.01.2025
(22) 10.07.2020
(54) BATTERY AND RELATED APPARATUS THEREOF, PREPARATION METHOD THEREFOR, AND PREPARATION DEVICE THEREFOR
(73) Contemporary Amperex Technology (Hong Kong) Limited
(72) CHEN, Xiaobo
LI, Yao
ZENG, Zhimin
WU, Kai
WANG, Peng
CHEN, Xingdi
ZENG, Yuqun

(51) H01M 50/595
H01M 10/54
(11) EP4462587
(21) EP23173197.7
(47) 29.01.2025
(22) 12.05.2023
(54) BATTERY
(73) Tiala Design Oy
(72) Tiala, Matias

(51) H01Q 1/22
G06K 19/077
(11) EP4193423
(21) EP21739070.7
(47) 29.01.2025
(87) EP2021068024
10.02.2022
(22) 30.06.2021
(54) ELECTRONIC MODULE FOR A CARD CONTAINING AT LEAST ONE ANTENNA AND MANUFACTURING METHOD THEREOF
(73) Smart Packaging Solutions
(72) MEAR, Benjamin
DAUPHIN, François
CALVAS, Bernard
(31) 2008259

(32) 04.08.2020
(33) France

(51) H01Q 1/22
H01Q 1/38
H01Q 1/48
H01Q 5/328
H01Q 9/04
H01Q 9/42
H01Q 13/10
(11) EP3956944
(21) EP20743963.9
(47) 29.01.2025
(87) EP2020059388
22.10.2020
(22) 02.04.2020
(54) PRINTED CIRCUIT BOARD ANTENNA
(73) BSH Hausgeräte GmbH
(72) REITNER, Josef
STÖCKL, Ludwig
(31) 102019205556
(32) 17.04.2019
(33) Germany

(51) H01Q 1/22
H01Q 21/28
(11) EP3201985
(21) EP15784078.6
(47) 29.01.2025
(87) FR2015052620
07.04.2016
(22) 30.09.2015
(54) MOBILE RADIO ANTENNA FOR A SMALL RECEIVER
(73) ORANGE
(72) CONAN, Martin
CAZOULAT, Renaud
(31) 1459260
(32) 30.09.2014
(33) France

(51) H01Q 1/22
H04R 25/00
A61N 1/372
(11) EP3736906
(21) EP20172610.6
(47) 29.01.2025
(22) 01.05.2020
(54) AN ANTENNA CONFIGURATION FOR A HEARING AID SYSTEM
(73) Oticon Medical A/S
(72) RYBALKO, Oleksandr
TROELSEN, Jens
(31) 19172889
(32) 07.05.2019
(33) European Patent Office (EPO)

(51) H01Q 1/24
H01Q 21/08
H01Q 13/06
H01Q 3/26
(11) EP4062489
(21) EP20816772.6
(47) 29.01.2025
(87) US2020059237
27.05.2021
(22) 06.11.2020
(54) PROJECTED GEOMETRY ANTENNA ARRAY
(73) Microsoft Technology Licensing, LLC
(72) NIAKAN, Nahal
MERCER, Sean Russell

(31) 201916692369
(32) 22.11.2019
(33) United States of America

(51) H01Q 1/38
H01Q 1/36
H01Q 9/06
H01Q 21/26
H01Q 21/29
H01Q 1/24
(11) EP3622578
(21) EP17909600.3
(47) 29.01.2025
(87) CN2017084200
15.11.2018
(22) 12.05.2017
(54) INTEGRATED ANTENNA UNIT, MULTI-ARRAY ANTENNA, TRANSMISSION METHOD AND RECEIVING METHOD OF SAME
(73) Tongyu Communication Inc.
(72) DING, Can
GUO, Yingjie
SUN, Haihan
DOUDOU, Samb
WU, Zhonglin

(51) H01Q 1/42
H01Q 17/00
H01Q 15/00
(11) EP3813194
(21) EP18927239.6
(47) 29.01.2025
(87) CN2018125126
30.01.2020
(22) 29.12.2018
(54) WAVE ABSORPTION AND TRANSMISSION INTEGRATED DEVICE, AND RADOME
(73) Kuang-chi Cutting Edge Technology Ltd.
(72) CHEN, Kang Qiang
ZHAO, Zhi Ya
LIU, RuoPeng
LI, Su Cheng
(31) 201821205561 U
201810842877
(32) 27.07.2018
27.07.2018
(33) China
China

(51) H01Q 1/48
H01Q 5/35
H01Q 1/22
H01Q 1/24
H01Q 7/00
H01Q 9/42
H01Q 13/10
(11) EP3883057
(21) EP18942837.8
(47) 29.01.2025
(87) JP2018045876
18.06.2020
(22) 13.12.2018
(54) ANTENNA DEVICE
(73) Sony Group Corporation
(72) OZONE, Toru
HIRAOKA, Yoshiaki
SATO, Jin
ITO, Takayoshi
OMURO, Tomihiro
SUZUKI, Yuichiro

(51) H01Q 1/52
H01Q 19/17
H01Q 21/24
H01Q 1/22
H01Q 25/00
H01Q 9/16
H01Q 9/18
(11) EP4016742
(21) EP20854653.1
(47) 29.01.2025
(87) CN2020107089
25.02.2021
(22) 05.08.2020
(54) ANTENNA MODULE AND ELECTRONIC DEVICE
(73) Vivo Mobile Communication Co., Ltd.
(72) HUANG, Huan-Chu
JIAN, Xianjing
WANG, Yijin
MA, Rongjie
(31) 201910760335
(32) 16.08.2019
(33) China

(51) H01Q 13/02
H01Q 13/06
H01P 1/161
H01P 1/207
H01P 3/123
(11) EP4325666
(21) EP23155435.3
(47) 29.01.2025
(22) 07.02.2023
(54) ANTENNA APPARATUS
(73) Agency For Defense Development
(72) KWON, Kun Sup
PARK, Byung Chul
HEO, Jong Wan
(31) 20220102870
(32) 17.08.2022
(33) Korea (Republic)

(51) H01R 4/2408
H01R 43/01
(11) EP3709444
(21) EP20162370.9
(47) 29.01.2025
(22) 11.03.2020
(54) INSULATION PIERCING ELECTRICAL TAP CONNECTORS
(73) Panduit Corp.
(72) Arflack, Brian K.
(31) 202016810228
201962818912 P
(32) 05.03.2020
15.03.2019
(33) United States of America
United States of America

(51) H01R 4/2433
H01R 13/6593
H01R 13/516
H01R 103/00
(11) EP4300712
(21) EP23172278.6
(47) 29.01.2025
(22) 09.05.2023
(54) CONNECTOR
(73) Japan Aviation Electronics Industry, Limited

(72) TANAKA, Masashi
(31) 2022107108
(32) 01.07.2022
(33) Japan

(51) H01R 4/48
H01R 4/50
H01R 13/193
H01R 13/629
H01R 13/11
H01R 13/52
H01R 13/533
(11) EP4243214
(21) EP22215704.2
(47) 29.01.2025
(22) 21.12.2022
(54) CONNECTOR ASSEMBLY
(73) Japan Aviation Electronics Industry, Limited
(72) KIMURA, Akira
(31) 2022034195
(32) 07.03.2022
(33) Japan

(51) H01R 4/50
H01R 13/193
H01R 13/629
H01R 13/11
(11) EP4407807
(21) EP23209792.3
(47) 29.01.2025
(22) 14.11.2023
(54) CONNECTOR ASSEMBLY
(73) Japan Aviation Electronics Industry, Ltd.
(72) KIMURA, Akira
(31) 2023010348
(32) 26.01.2023
(33) Japan

(51) H01R 9/05
H01R 13/6582
(11) EP3832806
(21) EP20211484.9
(47) 29.01.2025
(22) 03.12.2020
(54) SHIELDING SLEEVE FOR CONTACTING SHIELDING ELEMENTS
(73) Amphenol-Tuchel Electronics GmbH
(72) BAUER, Josef
WACKER, Martin
(31) 102019132780
(32) 03.12.2019
(33) Germany

(51) H01R 9/24
H01R 13/506
(11) EP4087065
(21) EP22162364.8
(47) 29.01.2025
(22) 16.03.2022
(54) CONNECTOR
(73) Lumberg Connect GmbH
(72) Pfaffenbach, Dirk
Russo, Paulo
Svencickij, Oleg
(31) 102021111927
(32) 07.05.2021
(33) Germany

(51) H01R 12/59
H01R 12/61
H01R 12/65
(11) EP4376224
(21) EP23201603.0
(47) 29.01.2025
(22) 04.10.2023
(54) CONNECTOR ASSEMBLY
(73) Japan Aviation Electronics Industry, Limited
(72) NAKAMURA, Keisuke
(31) 2022187294
(32) 24.11.2022
(33) Japan

(51) H01R 12/67
H01R 43/01
H01R 4/2433
H01R 13/506
(11) EP4068524
(21) EP21212309.5
(47) 29.01.2025
(22) 03.12.2021
(54) SYSTEMS AND METHODS FOR A CABLE CONNECTOR
(73) Rockwell Automation Technologies, Inc.
(72) Davidsz, Mark E.
Brandt, David D.
Wang, Yutao
(31) 202017114165
(32) 07.12.2020
(33) United States of America

(51) H01R 12/70
H01R 12/73
H01R 13/518
H01R 13/514
H05K 1/00
H05K 5/00
(11) EP4385100
(21) EP23793994.7
(47) 29.01.2025
(87) DE2023100748
02.05.2024
(22) 09.10.2023
(54) DEVICE AND METHOD FOR CONNECTING TWO PRINTED CIRCUIT BOARD PLUG CONNECTORS VIA A COUPLING ELEMENT
(73) HARTING Electric Stiftung & Co. KG
(72) WOLF, Torsten
(31) 102022128681
(32) 28.10.2022
(33) Germany

(51) H01R 12/72
H05K 1/11
A61B 5/283
H01R 13/66
(11) EP4061100
(21) EP22160738.5
(47) 29.01.2025
(22) 08.03.2022
(54) ELECTRICAL CONNECTORS FOR MEDICAL DEVICES
(73) GE Precision Healthcare LLC
(72) JORMAKKA, Jami Matti
SIIVONEN, Joona Henrik
(31) 202117203169
(32) 16.03.2021
(33) United States of America

(51) H01R 13/514
H01R 13/506
H01R 13/652
H01R 13/518
H01R 43/18
H01R 43/20
(11) EP4280397
(21) EP23172202.6
(47) 29.01.2025
(22) 11.12.2014
(54) CLAMPING FRAME FOR A CONNECTOR
(73) Harting Electric GmbH & Co. KG
(72) Herbrechtsmeier, Heiko
(31) 102013113976
102013113975
(32) 12.12.2013
12.12.2013
(33) Germany
Germany

(51) H01R 13/58
H01R 13/506
H01R 13/514
(11) EP4312319
(21) EP23187716.8
(47) 29.01.2025
(22) 25.07.2023
(54) CONNECTOR
(73) Japan Aviation Electronics Industry, Limited
(72) KANNO, Hideyuki
(31) 2022120363
(32) 28.07.2022
(33) Japan

(51) H01R 13/627
B60L 53/16
H01R 13/641
H01R 13/66
(11) EP4203200
(21) EP22207336.3
(47) 29.01.2025
(22) 14.11.2022
(54) CHARGING CONNECTOR
(73) Japan Aviation Electronics Industry, Limited
(72) KUGO, Kazuki
HASHIGUCHI, Tsubasa
(31) 2021207883
(32) 22.12.2021
(33) Japan

(51) H01R 13/627
H01R 13/629
(11) EP4115478
(21) EP21710397.7
(47) 29.01.2025
(87) DE2021100175
10.09.2021
(22) 23.02.2021
(54) LOCKING CLIP WITH SELF-LOCKING
(73) HARTING Electric Stiftung & Co. KG
(72) GRIEPENSTROH, Sebastian
(31) 102020105589
(32) 03.03.2020
(33) Germany

(51) H01R 33/97
H01R 13/08
H01R 33/09
F21V 29/83
F21W 131/307
F24C 15/00
(11) EP4113757

(21) EP22190477.4
(47) 29.01.2025
(22) 09.03.2022
(54) LAMP SOCKET WITH LAMP RETAINING CLIP
(73) BJB GmbH & Co. KG
(72) Henrici, Philipp
Baumeister, Olaf
Weber, Mark
(31) 102021112799
(32) 18.05.2021
(33) Germany

(51) H01R 43/042
B25B 7/00
H02G 3/00
(11) EP4033616
(21) EP22151213.0
(47) 29.01.2025
(22) 12.01.2022
(54) CRIMPING TOOL AND METHOD FOR CREATING A MECHANICAL AND ELECTRICAL CONNECTION BETWEEN TWO CABLE ELEMENTS
(73) Elpress AB
(72) Phelan, Max
(31) 2150021
(32) 13.01.2021
(33) Sweden

(51) H01R 43/042
H01R 43/045
(11) EP4260414
(21) EP21847451.8
(47) 29.01.2025
(87) DE2021100974
23.06.2022
(22) 06.12.2021
(54) MULTIFUNCTIONAL HAND-HELD TOOL
(73) HARTING Electric Stiftung & Co. KG
(72) KRÄMER, Joachim
WESSELER, Daniel
(31) 102020133326
(32) 14.12.2020
(33) Germany

(51) H01S 3/00
H01S 3/067
(11) EP4268331
(21) EP21843669.9
(47) 29.01.2025
(87) EP2021086833
30.06.2022
(22) 20.12.2021
(54) DURATION-TUNABLE HIGH-POWER PICOSESECOND PULSED OPTICAL FIBRE LASER SYSTEM AND USE OF SUCH LASER SYSTEM
(73) Ilasis Laser
(72) SALIN, François
DELOISON, Florent
DESLANDES, Pierre
(31) 2014061
(32) 23.12.2020
(33) France

(51) H01S 5/0625
H01S 5/06
H01S 5/14
H01S 5/023
H01S 5/0233
H01S 5/024
H01S 5/042
H01S 5/065
H01S 5/10
H01S 5/22
H01S 5/30
H01S 5/343
H01S 5/50
(11) EP3273551
(21) EP15885604.7
(47) 29.01.2025
(87) JP2015085329
22.09.2016
(22) 17.12.2015
(54) SEMICONDUCTOR LIGHT EMITTING ELEMENT AND SEMICONDUCTOR LIGHT EMITTING ELEMENT ASSEMBLY
(73) Sony Group Corporation
(72) WATANABE Hideki
YANASHIMA Katsunori
KODA Rintaro
OKANO Nobukata
TAKEO Moe
(31) 2015056280
(32) 19.03.2015
(33) Japan

(51) H02B 1/28
H02B 13/025
H02B 1/30
(11) EP3970248
(21) EP20724791.7
(47) 29.01.2025
(87) EP2020062462
26.11.2020
(22) 05.05.2020
(54) FRAME FOR AN EXPLOSION-PROOF HOUSING
(73) R. STAHL Schaltgeräte GmbH
(72) ARNHOLD, Thorsten
(31) 102019113195
(32) 17.05.2019
(33) Germany

(51) H02H 7/04
G01R 19/25
(11) EP3091628
(21) EP16168193.7
(47) 29.01.2025
(22) 03.05.2016
(54) INTEGRATED TRANSFORMER HEALTH MONITORING ARCHITECTURE
(73) General Electric Technology GmbH
(72) PAMULAPARTHY, Balakrishna
MUTHUKRISHNAN, Vijayasarathi
VINAYAGAM, Balamourougan
(31) 201514703533
(32) 04.05.2015
(33) United States of America

(51) H02J 3/28
H02J 3/38
(11) EP4236002
(21) EP22158675.3
(47) 29.01.2025
(22) 24.02.2022
(54) DATA CENTER SYSTEM AND METHOD OF OPERATING THE DATA CENTER SYSTEM
(73) nLighten HQ B.V.
(72) McCarthy, Chad

(51) H02J 3/32
H02J 3/38
(11) EP4125174
(21) EP22187787.1
(47) 29.01.2025
(22) 29.07.2022
(54) ENERGY STORAGE SYSTEM AND ON/OFF-GRID SWITCHING METHOD
(73) Huawei Digital Power Technologies Co., Ltd.
(72) LIU, Yunfeng
XIN, Kai
DONG, Mingxuan
(31) 202110872541
(32) 30.07.2021
(33) China

(51) H02J 3/32
H02J 7/00
H02J 13/00
(11) EP4089871
(21) EP22173237.3
(47) 29.01.2025
(22) 13.05.2022
(54) ENERGY STORAGE SYSTEM AND RELATED METHOD
(73) Huawei Digital Power Technologies Co., Ltd.
(72) Wang, Shuchao
Wu, Zhipeng
Hei, Chang
(31) 202110533486
(32) 14.05.2021
(33) China

(51) H02J 7/00
H01M 10/42
(11) EP4080720
(21) EP21917941.3
(47) 29.01.2025
(87) KR2021019911
14.07.2022
(22) 27.12.2021
(54) BATTERY DEVICE AND VOLTAGE SUPPLY METHOD
(73) LG Energy Solution, Ltd.
(72) LEE, Sungwoo
(31) 20210002663
(32) 08.01.2021
(33) Korea (Republic)

(51) H02J 7/00
H01M 10/44
H05K 7/20
(11) EP4113782
(21) EP21917911.6
(47) 29.01.2025
(87) KR2021019103
14.07.2022
(22) 15.12.2021
(54) SECONDARY BATTERY CHARGE/DISCHARGE SYSTEM COMPRISING PELTIER DEVICE, AND TEMPERATURE CONTROL METHOD OF SECONDARY BATTERY CHARGE/DISCHARGE SYSTEM USING SAME
(73) LG Energy Solution, Ltd.
(72) KANG, Dong Min
JUN, Kook Hee
(31) 20210002613

(32) 08.01.2021
(33) Korea (Republic)

(51) H02J 7/00
H02J 7/02
(11) EP4329138
(21) EP23182557.1
(47) 29.01.2025
(22) 30.06.2023
(54) CHARGING APPARATUS
(73) Nanjing Chervon Industry Co., Ltd.
(72) ZHANG, Yuexiang
CAO, Yafei
YUAN, Yuan
(31) 202211004251
202222212072 U
202211004185
202222211105 U
202222210006 U
(32) 22.08.2022
22.08.2022
22.08.2022
22.08.2022
22.08.2022
(33) China
China
China
China
China

(51) H02J 7/00
H02J 7/35
H02J 7/34
H02J 7/02
B60L 53/67
B60L 53/14
B60L 53/31
B60L 53/51
B60L 53/62
B60L 53/63
(11) EP4138261
(21) EP22190771.0
(47) 29.01.2025
(22) 17.08.2022
(54) CHARGING METHOD, CHARGING APPARATUS, AND CHARGING SYSTEM
(73) Huawei Digital Power Technologies Co., Ltd.
(72) LIN, Quanxi
WANG, Yichang
LONG, Xi
REN, Zhanlin
(31) 202110944977
(32) 17.08.2021
(33) China

(51) H02K 1/18
H02K 11/01
H02K 3/04
H02K 3/46
(11) EP4033641
(21) EP21215233.4
(47) 29.01.2025
(22) 16.12.2021
(54) STATOR FOR A PERMANENTLY EXCITED ELECTRIC MOTOR / ROTATING FIELD MACHINE
(73) ebm-papst Mulfingen GmbH & Co. KG
(72) Mezger, Sebastian
BAUN, Martin
(31) 102021101162
(32) 20.01.2021
(33) Germany

(51) H02K 1/18
H02K 15/02
H02K 15/14
H02K 5/20
H02K 9/22
(11) EP3394959
(21) EP16826169.1
(47) 29.01.2025
(87) IB2016057609
29.06.2017
(22) 14.12.2016
(54) A STATOR FOR AN ELECTRIC MOTOR AND A METHOD OF MANUFACTURING A STATOR
(73) Protean Electric Limited
(72) ROBERTS, Gareth
(31) 201522843
(32) 23.12.2015
(33) United Kingdom

(51) H02K 1/276
H02K 1/22
B60L 50/61
B60L 50/16
B60L 15/02
H02K 7/00
H02K 29/03
H02K 1/24
B60L 15/20
B60L 15/00
B60K 6/26
B60K 1/02
B60K 6/54
B60K 6/445
H02P 27/06
H02P 27/04
H02P 21/00
H02K 1/27
B60W 20/00
B60W 10/08
(11) EP3955425
(21) EP21195721.2
(47) 29.01.2025
(22) 14.10.2009
(54) ROTATING ELECTRIC MACHINE AND ELECTRIC AUTOMOBILE
(73) Hitachi Astemo, Ltd.
(72) HINO, Noriaki
SUGIMOTO, Shinji
SAITO, Yasuyuki
GOTO, Tsuyoshi
NAKAYAMA, Kenichi
(31) 2008266952
(32) 16.10.2008
(33) Japan

(51) H02K 1/276
H02K 29/03
(11) EP4320706
(21) EP22718739.0
(47) 29.01.2025
(87) FR2022050602
13.10.2022
(22) 30.03.2022
(54) ROTOR FOR BRUSHLESS SYNCHRONOUS MOTOR WITH INSERTED PERMANENT MAGNETS
(73) SEB S.A.
(72) SCHMERBER, Louis
PICHOT, Renaud
(31) 2103605
(32) 08.04.2021
(33) France

(51) H02K 3/50
H02K 7/18
(11) EP4133573
(21) EP21708125.6
(47) 29.01.2025
(87) EP2021053019
14.10.2021
(22) 09.02.2021
(54) BUS BAR HOLDING SYSTEM FOR STATORS OR STATOR SEGMENTS OF DYNAMOELECTRIC MACHINES
(73) Flender GmbH
(72) DEUTSCH, Artur
SCHOBER, Franz Xaver Michael
BRENNER, Robin
WEGER, Michael
SCHÖNBAUER, Norbert
LINDMEIER, Andreas
RATZISBERGER, Dominik
KOESZEGI, Attila
(31) 20168159
(32) 06.04.2020
(33) European Patent Office (EPO)

(51) H02K 3/51
H02K 17/18
(11) EP4331087
(21) EP22708274.0
(47) 29.01.2025
(87) AT2022060037
03.11.2022
(22) 08.02.2022
(54) ROTOR FOR AN ELECTRIC MACHINE
(73) Andritz Hydro GmbH
(72) STADLHOFER, Siegfried
JOHN, Alexander
WEINBERGER, Christoph
(31) 503152021
(32) 27.04.2021
(33) Austria

(51) H02K 9/10
(11) EP4331095
(21) EP22708275.7
(47) 29.01.2025
(87) AT2022060038
03.11.2022
(22) 08.02.2022
(54) ELEKTRISCHE MASCHINE
(73) Andritz Hydro GmbH
(72) BLAZEVIC, Enes
KASTNER, Gebhard
LANGMAYR, Daniel
(31) 503142021
(32) 27.04.2021
(33) Austria

(51) H02K 9/16
H02K 9/193
H02K 15/00
(11) EP4005072
(21) EP20733458.2
(47) 29.01.2025
(87) EP2020067414
28.01.2021

(22) 23.06.2020
(54) ELECTRIC MACHINE AND MANUFACTURING METHOD
(73) L'Air Liquide, société anonyme pour l'Étude et l'Exploitation des procédés Georges Claude
(72) BRUNET MANQUAT, Loïc
DURAND, Fabien
DELAUTRE, Guillaume
(31) 1908281
(32) 22.07.2019
(33) France

(51) H02K 9/19
(11) EP4158761
(21) EP21721288.5
(47) 29.01.2025
(87) US2021025293
02.12.2021
(22) 01.04.2021
(54) LIQUID COOLANTS WITH DISSOLVED GAS FOR ELECTRIC SYSTEMS
(73) ExxonMobil Technology and Engineering Company
(72) SATTERFIELD, Andrew, D.
RACKE, David, A.
(31) 202063030498 P
(32) 27.05.2020
(33) United States of America

(51) H02K 9/197
H02K 3/24
H02K 7/18
H02K 1/20
H02K 9/19
H02K 5/128
(11) EP4275264
(21) EP21824557.9
(47) 29.01.2025
(87) EP2021084120
14.07.2022
(22) 03.12.2021
(54) STATOR
(73) Flender GmbH
(72) WINKLER, Günther
(31) 21150248
(32) 05.01.2021
(33) European Patent Office (EPO)

(51) H02K 41/03
H02K 9/22
H02K 9/19
(11) EP4228131
(21) EP22156490.9
(47) 29.01.2025
(22) 14.02.2022
(54) STATOR COOLING ASSEMBLY FOR A LINEAR MOTOR
(73) ETEL S.A.
(72) Garcia-Herreros, Ivan
Grillon, Jean-Yves
Lefevre, Jean

(51) H02M 1/00
H02M 3/07
H05B 45/3725
H05B 45/335
H02M 3/156
(11) EP4199331
(21) EP21214714.4
(47) 29.01.2025
(22) 15.12.2021
(54) HYBRID SWITCHED-MODE CONVERTER, METHOD OF OPERATING THE SAME, AND LIGHTING SYSTEM
(73) Tridonic GmbH & Co KG
(72) Wörz, Philipp

(51) H02M 1/08
H02M 3/335
H02M 3/337
(11) EP4220920
(21) EP23166410.3
(47) 29.01.2025
(22) 02.08.2019
(54) SYSTEM AND METHOD FOR A GAN-BASED START-UP CIRCUIT
(73) Infineon Technologies Austria AG
(72) HÄBERLEN, Oliver
DEBOY, Gerald
(31) 201816054502
(32) 03.08.2018
(33) United States of America

(51) H02M 7/757
(11) EP4252342
(21) EP21819088.2
(47) 29.01.2025
(87) EP2021082379
27.05.2022
(22) 19.11.2021
(54) BATTERY CHARGER FOR MOTOR VEHICLE, ASSOCIATED VEHICLE AND IMPLEMENTATION METHOD
(73) Ampere SAS
(72) LOUDOT, Serge
(31) 2011983
(32) 24.11.2020
(33) France

(51) H02N 11/00
(11) EP3907876
(21) EP21172050.3
(47) 29.01.2025
(22) 04.05.2021
(54) MXENE-COATED HYDROPHILIC FIBER MEMBRANE-BASED COMPLEX GENERATOR AND MANUFACTURING METHOD THEREOF
(73) Korea Advanced Institute of Science and Technology
(72) KIM, Il-Doo
BAE, Jaehyeong
KIM, Min Soo
(31) 20210037405
20200053219
(32) 23.03.2021
04.05.2020
(33) Korea (Republic)
Korea (Republic)

(51) H02P 5/00
H02P 29/68
H02P 29/60
H02P 27/08
(11) EP4264818
(21) EP21836109.5
(47) 29.01.2025
(87) EP2021085196
18.08.2022
(22) 10.12.2021
(54) POWER CONVERTER ASSEMBLY
(73) Siemens Aktiengesellschaft
(72) NAMYSLO, Lutz
WEIS, Benno
KÜRTEN, Bernd
(31) 21157020
(32) 15.02.2021
(33) European Patent Office (EPO)

(51) H02P 9/00
(11) EP3903412
(21) EP19823902.2
(47) 29.01.2025
(87) DK2019050391
02.07.2020
(22) 16.12.2019
(54) METHOD FOR WIND TURBINE WITH VIRTUAL SYNCHRONOUS GENERATOR AND CONTROL SYSTEM
(73) VESTAS WIND SYSTEMS A/S
(72) LUND, Torsten
NIELSEN, John Godsk
EBRAHIMZADEHVESHAREH, Esmaeil
(31) PA201870865
(32) 28.12.2018
(33) Denmark

(51) H02P 23/14
H02P 6/15
H02P 25/089
H02K 29/12
H02K 11/225
(11) EP3549252
(21) EP17811689.3
(47) 29.01.2025
(87) GB2017053632
07.06.2018
(22) 01.12.2017
(54) SENSOR ERROR DETECTION AND CORRECTION
(73) Arm Ltd
(72) PIETROMONACO, David Victor
(31) 201615368250
(32) 02.12.2016
(33) United States of America

(51) H02P 27/08
H02P 29/68
(11) EP4150755
(21) EP21722855.0
(47) 29.01.2025
(87) EP2021061406
18.11.2021
(22) 30.04.2021
(54) CONTROL DEVICE AND CONTROL METHOD FOR AN ELECTRIC DRIVE SYSTEM, AND ELECTRIC DRIVE SYSTEM
(73) Robert Bosch GmbH
(72) ZELTWANGER, Thomas
ROSEN, Alexander
SPRENGER, Helge
BANGERTER, Michael
(31) 102020205919
(32) 12.05.2020
(33) Germany

(51) H02P 29/032
H02P 29/60
H02H 7/085
B24B 23/02
(11) EP4432554
(21) EP23162462.8
(47) 29.01.2025

(22) 16.03.2023
(54) MOTOR CONTROL FOR A POWER TOOL
(73) C. & E. Fein GmbH
(72) Schumacher, Eberhard
Mayer, Bernd
Mayer, Bernd
(51) H03F 1/32
H03F 1/02
H03F 3/195
H03F 3/24
G06N 3/08
(11) EP4186161
(21) EP21777868.7
(47) 29.01.2025
(87) JP2021030273
30.06.2022
(22) 12.08.2021
(54) DEEP LEARNING-BASED ONLINE ADAPTATION OF DIGITAL PRE-DISTORTION AND POWER AMPLIFIER SYSTEMS
(73) MITSUBISHI ELECTRIC CORPORATION
(72) BENOSMAN, Mouhacine
KANTANA, Chouaib
MA, Rui
WATERS, Richard C
(31) 202117145444
202063129824 P
(32) 11.01.2021
23.12.2020
(33) United States of America
United States of America
(51) H03F 3/183
H03F 3/68
H03F 3/217
H03F 1/02
H03F 1/30
H03F 3/30
(11) EP3729642
(21) EP18830127.9
(47) 29.01.2025
(87) US2018066544
27.06.2019
(22) 19.12.2018
(54) CONFIGURABLE MODAL AMPLIFIER SYSTEM
(73) Dolby Laboratories Licensing Corporation
(72) ROBINSON, Scott P.
BUTLER, Joel A.
SCHINDLER, Kenneth
(31) 201762608465 P
18156223
(32) 20.12.2017
12.02.2018
(33) United States of America
European Patent Office (EPO)
(51) H03F 3/45
H03F 3/68
H03F 1/26
(11) EP3758222
(21) EP20181455.5
(47) 29.01.2025
(22) 22.06.2020
(54) CIRCUIT HAVING A PLURALITY OF RECEIVERS USING THE SAME REFERENCE VOLTAGE
(73) MediaTek Inc.
(72) WU, Chung-Hwa
(31) 202016900981
201962868022 P
(32) 14.06.2020
28.06.2019
(33) United States of America
United States of America
(51) H03F 3/45
H03K 19/0175
H03K 19/0185
H04B 1/16
(11) EP4156512
(21) EP21808054.7
(47) 29.01.2025
(87) CN2021075836
25.11.2021
(22) 07.02.2021
(54) DIFFERENTIAL SIGNAL AMPLIFICATION CIRCUIT, DIGITAL ISOLATOR, AND RECEIVER
(73) Suzhou Novosense Microelectronics Co., Ltd.
(72) CHEN, Qihui
SHENG, Yun
(31) 202010430520
(32) 20.05.2020
(33) China
(51) H03K 17/06
H02M 1/08
H02M 3/155
H02M 1/00
H02M 3/156
(11) EP4233174
(21) EP21798671.0
(47) 29.01.2025
(87) EP2021079366
05.05.2022
(22) 22.10.2021
(54) DRIVER CIRCUIT FOR A GAN SWITCH MODE POWER CONVERTER
(73) Signify Holding B.V.
(72) WANG, Gang
JU, Feng
CHEN, Zhiquan
WANG, Shan
FU, Jie
WANG, Yu
(31) PCT/CN2020/123770
20216346
(32) 26.10.2020
22.12.2020
(33) World Intellectual Property Office (WIPO)
European Patent Office (EPO)
(51) H03K 17/082
G01R 27/16
G01R 27/26
H03K 17/0814
(11) EP4012926
(21) EP20212658.7
(47) 29.01.2025
(22) 09.12.2020
(54) DIRECT CURRENT SWITCH
(73) Siemens Aktiengesellschaft
(72) Hänsel, Stefan
Handt, Karsten
(51) H03K 17/14
G11C 27/02
H03K 17/16
(11) EP4106197
(21) EP21180456.2
(47) 29.01.2025
(22) 18.06.2021
(54) SAMPLING SWITCH CIRCUITS
(73) Socionext Inc.
(72) KUDO, Masahiro
CRETU, Vlad
(51) H03K 17/18
H03K 17/691
(11) EP4160921
(21) EP22198053.5
(47) 29.01.2025
(22) 27.09.2022
(54) POWER TRANSFER, GATE DRIVE, AND/OR PROTECTION FUNCTIONS ACROSS AN ISOLATION BARRIER
(73) Infineon Technologies Austria AG
(72) GIACOMINI, Davide
ARTS, Paulus Petrus Bernardus
FABBRO, Simone
(31) 202117491235
(32) 30.09.2021
(33) United States of America
(51) H03M 7/40
H04L 9/00
H03M 7/30
(11) EP4224716
(21) EP23164756.1
(47) 29.01.2025
(22) 15.03.2019
(54) COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR SERIALISATION OF ARITHMETIC CIRCUITS
(73) nChain Licensing AG
(72) MADEO, Simone
COVACI, Alexandra
MOTYLINSKI, Patrick
VINCENT, Stephane
WRIGHT, Craig Steven
(31) 201804948
(32) 27.03.2018
(33) United Kingdom
(51) H03M 13/37
H04L 1/00
H04L 65/752
H04L 65/70
H04L 65/75
(11) EP3257177
(21) EP15880622.4
(47) 29.01.2025
(87) US2015060203
04.08.2016
(22) 11.11.2015
(54) SYSTEM AND METHOD FOR REAL TIME VIDEO COMMUNICATION EMPLOYING FOUNTAIN CODING
(73) Huawei Technologies Co., Ltd.
(72) DAO, Ngoc-Dung
ZHANG, Hang
(31) 201514610614
(32) 30.01.2015
(33) United States of America
(51) H04B 1/62
H04B 1/00
H03F 1/32
(11) EP3871339

(21) EP19910230.2
(47) 29.01.2025
(87) KR2019016921
23.07.2020
(22) 03.12.2019
(54) ELECTRONIC DEVICE FOR REDUCING NOISE IN FREQUENCY BAND OF RX SIGNAL AND METHOD FOR THE SAME
(73) Samsung Electronics Co., Ltd.
(72) LEE, Hanyeop
NA, Hyoseok
YANG, Dongil
(31) 20190005256
(32) 15.01.2019
(33) Korea (Republic)

(51) H04B 7/0413
H04W 88/08
H04B 1/04
H04B 7/26
(11) EP3506521
(21) EP18204606.0
(47) 29.01.2025
(22) 30.09.2011
(54) DISTRIBUTED ANTENNA SYSTEM FOR MIMO SIGNALS
(73) Outdoor Wireless Networks LLC
(72) Braz, Oliver
Eisenwinter, Stefan
Schmid, Peter
Mini, Massimiliano
Fabbri, Marianna
Kummetz, Thomas
Parucci, Marco
Brighenti, Samuele
Fabbri, Enrico Maria
Gunzer, Peter
Langer, Harald
(31) 38897310 P
(32) 01.10.2010
(33) United States of America

(51) H04B 7/0456
H04W 52/14
H04W 52/34
H04B 7/0452
(11) EP3981082
(21) EP20817812.9
(47) 29.01.2025
(87) US2020036349
10.12.2020
(22) 05.06.2020
(54) RECIPROCAL GEOMETRIC PRECODING
(73) Cohere Technologies, Inc.
(72) HADANI, Ronny
KONS, Shachar
(31) 201962857757 P
(32) 05.06.2019
(33) United States of America

(51) H04B 7/06
H04B 7/08
H01Q 9/00
H01Q 21/00
G01S 7/03
G01S 7/28
(11) EP4092928
(21) EP22173442.9
(47) 29.01.2025
(22) 16.05.2022
(54) PLANAR NETWORK ANTENNA
(73) THALES
(72) GARREC, Patrick
MAZEAU, Thierry
VEYRAC, Yoan
(31) 2105238
(32) 20.05.2021
(33) France

(51) H04B 7/155
(11) EP4007184
(21) EP21210908.6
(47) 29.01.2025
(22) 25.08.2015
(54) RELAY, RELAY SYSTEM, AND MEDIUM
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) NG, Wing Kwan
ROHDE, Christian
BURKHARDT, Frank
SCHOBER, Robert
BREILING, Marco
(31) 14182528
(32) 27.08.2014
(33) European Patent Office (EPO)

(51) H04B 7/185
H04W 28/16
(11) EP3494652
(21) EP17752214.1
(47) 29.01.2025
(87) US2017044327
08.02.2018
(22) 28.07.2017
(54) AIR-TO-GROUND CO-CHANNEL INTERFERENCE AVOIDANCE SYSTEM
(73) Gogo Business Aviation LLC
(72) MIRANDA, Heinz, A.
(31) 201615228209
(32) 04.08.2016
(33) United States of America

(51) H04B 7/26
H04W 76/12
H04W 16/32
(11) EP3741185
(21) EP19708144.1
(47) 29.01.2025
(87) IB2019050107
25.07.2019
(22) 07.01.2019
(54) CONTROL PLANE SIGNALING FOR INTEGRATED ACCESS AND BACKHAUL NODES
(73) Nokia Technologies Oy
(72) HENTTONEN, Tero
MALKAMAKI, Esa
(31) 201862619479 P
(32) 19.01.2018
(33) United States of America

(51) H04B 10/032
H04L 45/247
H04L 45/00
H04L 41/0663
(11) EP4002775
(21) EP19940808.9
(47) 29.01.2025
(87) JP2019030680
11.02.2021
(22) 05.08.2019
(54) TRANSMISSION DEVICE AND TRANSMISSION METHOD
(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION
(72) SHINTAKU Kengo
KITAMURA Kei
ODA Takuya
TOMIZAWA Masahito
TANAKA Takafumi
INUZUKA Fumikazu

(51) H04B 10/073
G02B 6/38
G01M 11/00
(11) EP4425142
(21) EP23211664.0
(47) 29.01.2025
(22) 23.11.2023
(54) SYSTEM AND METHOD FOR IDENTIFYING AND VERIFYING AN OPTICAL FIBER LINK
(73) Free Reseau
(72) LABORIE, Didier
(31) 2301982
(32) 03.03.2023
(33) France

(51) H04B 10/079
H04J 14/02
H04Q 11/00
(11) EP3579460
(21) EP19179203.5
(47) 29.01.2025
(22) 07.06.2019
(54) PATH SELECTION IN OPTICAL NETWORK FOR OPTICAL NODES WITH FLEXIBLE BAUD RATE AND MODULATION FORMAT
(73) Cisco Technology, Inc.
(72) GAZZOLA, Maurizio
PICIACCIA, Stefano
GHIONI, Lorenzo
TANZI, Alberto
(31) 201816003352
(32) 08.06.2018
(33) United States of America

(51) H04B 10/11
H04B 10/25
H04B 10/70
(11) EP4222891
(21) EP21786451.1
(47) 29.01.2025
(87) EP2021077117
07.04.2022
(22) 01.10.2021
(54) METHODS AND APPARATUS FOR COHERENT SIGNAL TRANSMISSION
(73) University of York
(72) SUBRAMANIAN, Rupesh Kumar Parapatil
SPILLER, Timothy Paul
(31) 202015681
(32) 02.10.2020
(33) United Kingdom

(51) H04B 10/25
H04B 10/2507
H04B 10/61
(11) EP4150794
(21) EP21813281.9
(47) 29.01.2025

(87) CN2021094742
02.12.2021
(22) 20.05.2021
(54) SIGNAL PROCESSING METHOD AND APPARATUS, AND COHERENT RECEIVER
(73) Huawei Technologies Co., Ltd.
(72) WU, Wanyang
PAVEL, Plotnikov
DOLGIKH, Dmitry Anatolievich
(31) 2020117812
(32) 29.05.2020
(33) Russian Federation

(51) H04B 10/2507
H04J 14/02
(11) EP4055727
(21) EP20811732.5
(47) 29.01.2025
(87) IB2020060372
14.05.2021
(22) 04.11.2020
(54) OPTICAL SYSTEM COMPRISING A RECONFIGURABLE DEVICE AND OPTICAL SYSTEM CONTROL METHOD
(73) PhotonPath S.r.l.
(72) MORICHETTI, Francesco
MELLONI, Andrea Ivano
OLIVEIRA MORAIS DE AGUIAR, Douglas
(31) 201900020554
(32) 07.11.2019
(33) Italy

(51) H04B 10/2575
H04B 10/272
H04B 10/61
H04B 10/69
H04J 14/02
(11) EP4256727
(21) EP21759310.2
(47) 29.01.2025
(87) EP2021072702
23.02.2023
(22) 16.08.2021
(54) APPARATUS AND METHOD OF CARRIER SUPPRESSION IN FREQUENCY REFERENCED PASSIVE OPTICAL NETWORK
(73) Huawei Technologies Co. Ltd.
(72) HANTSCHMANN, Constanze
WEI, Jinlong
CALABRO, Stefano
TALLI, Giuseppe
CANO VALADEZ, Ivan, Nicolas

(51) H04B 17/27
H04B 17/30
G01S 7/00
G01S 7/41
G01S 13/00
H04B 17/391
(11) EP3683985
(21) EP18892570.5
(47) 29.01.2025
(87) KR2018015899
27.06.2019
(22) 14.12.2018
(54) METHOD AND APPARATUS FOR COMMUNICATION ENVIRONMENT ANALYSIS AND NETWORK DESIGN CONSIDERING MOVABLE OBJECT
(73) Samsung Electronics Co., Ltd.
(72) LEE, Soonyoung
CHANG, Sanghyun
PARK, Sungbum
CHO, Minsung
(31) 20170174308
(32) 18.12.2017
(33) Korea (Republic)

(51) H04J 3/14
H04J 3/06
(11) EP4270825
(21) EP22169651.1
(47) 29.01.2025
(22) 25.04.2022
(54) METHOD AND DEVICE FOR TIME VALIDATION IN A VEHICLE
(73) Bayerische Motoren Werke Aktiengesellschaft
(72) Abdelhameed, Mohamed-Saad

(51) H04L 1/00
(11) EP4164153
(21) EP22210447.3
(47) 29.01.2025
(22) 20.02.2012
(54) CONTROLLING A MODULATION AND CODING SCHEME FOR A TRANSMISSION BETWEEN A BASE STATION AND A USER EQUIPMENT
(73) Nokia Technologies Oy
(72) PAJUKOSKI, Kari Pekka
TIIROLA, Esa Tapani
LAHETKANGAS, Eeva
RAAF, Bernhard

(51) H04L 1/00
H04L 1/18
(11) EP4275305
(21) EP21836748.0
(47) 29.01.2025
(87) US2021072818
14.07.2022
(22) 09.12.2021
(54) UPLINK HYBRID AUTOMATIC REPEAT REQUEST RETRANSMISSION SCHEDULING IN A NETWORK WITH A LARGE PROPAGATION DELAY
(73) QUALCOMM INCORPORATED
(72) WANG, Xiao Feng
MA, Liangping
RICO ALVARINO, Alberto
PHUYAL, Umesh
SENGUPTA, Ayan
SHRESTHA, Bharat
(31) 202117248110
(32) 08.01.2021
(33) United States of America

(51) H04L 1/00
H04L 5/00
(11) EP3688901
(21) EP18789221.1
(47) 29.01.2025
(87) IB2018057418
04.04.2019
(22) 25.09.2018
(54) TRANSPORT BLOCK SIZE CONFIGURATION
(73) Telefonaktiebolaget LM Ericsson (PUBL)
(72) FRÖBERG OLSSON, Jonas
SHAPIN, Alexey
KITTICHOKECHAI, Kittipong
WIKSTRÖM, Gustav
(31) 201762566205 P
(32) 29.09.2017
(33) United States of America

(51) H04L 1/00
H04L 5/00
H04L 27/26
H04J 11/00
(11) EP3742636
(21) EP18905947.0
(47) 29.01.2025
(87) CN2018086491
22.08.2019
(22) 11.05.2018
(54) METHOD AND DEVICE FOR TRANSMITTING REFERENCE SIGNAL
(73) Huawei Technologies Co., Ltd.
(72) LIU, Hengjin
ZHANG, Weiliang
LUO, Zhihu
JIN, Zhe
(31) PCT/CN2018/076878
(32) 14.02.2018
(33) World Intellectual Property Office (WIPO)

(51) H04L 1/08
H04L 1/1829
H04W 28/06
H04W 28/18
(11) EP3857756
(21) EP19787452.2
(47) 29.01.2025
(87) IB2019058246
02.04.2020
(22) 27.09.2019
(54) SIGNALLING FOR REPETITION
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) FALAHATI, Sorour
FRÖBERG OLSSON, Jonas
BALDEMAIR, Robert
BLANKENSHIP, Yufei
ANDGART, Niklas
KITTICHOKECHAI, Kittipong
ANDERSSON, Mattias
(31) 201862738479 P
(32) 28.09.2018
(33) United States of America

(51) H04L 1/1607
H04L 1/1829
H04L 5/00
(11) EP4106240
(21) EP22189394.4
(47) 29.01.2025
(22) 06.08.2018
(54) METHOD, APPARATUS, AND SYSTEM FOR TRANSMITTING OR RECEIVING DATA CHANNEL AND CONTROL CHANNEL IN WIRELESS COMMUNICATION SYSTEM
(73) Wilus Institute of Standards and Technology Inc.
(72) KWAK, Jinsam
CHOI, Kyungjun
NOH, Minseok
(31) 20170145993
20170116441

20170099004
(32) 03.11.2017
12.09.2017
04.08.2017
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) H04L 1/1607
H04L 1/1829
H04L 5/00
(11) EP4117211
(21) EP22189400.9
(47) 29.01.2025
(22) 06.08.2018
(54) METHOD, APPARATUS, AND SYSTEM FOR TRANSMITTING OR RECEIVING DATA CHANNEL AND CONTROL CHANNEL IN WIRELESS COMMUNICATION SYSTEM
(73) Wilus Institute of Standards and Technology Inc.
(72) CHOI, Kyungjun
KWAK, Jinsam
NOH, Minseok
(31) 20170145993
20170116441
20170099004
(32) 03.11.2017
12.09.2017
04.08.2017
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) H04L 1/18
(11) EP3954075
(21) EP20713256.4
(47) 29.01.2025
(87) EP2020057551
15.10.2020
(22) 19.03.2020
(54) METHODS PROVIDING SIDELINK HARQ AT ACCESS STRATUM AND RELATED WIRELESS DEVICES
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) ZHANG, Congchi
BELLESCHI, Marco
ZHANG, Zhang
(31) PCT/CN2019/081706
(32) 08.04.2019
(33) World Intellectual Property Office (WIPO)

(51) H04L 1/18
(11) EP3563506
(21) EP16924979.4
(47) 29.01.2025
(87) CN2016112655
05.07.2018
(22) 28.12.2016
(54) FEEDBACK INFORMATION FOR A DATA BLOCK GROUP
(73) Motorola Mobility LLC
(72) LEI, Haipeng

(51) H04L 1/18
H04L 1/16
(11) EP3602889
(21) EP18705990.2
(47) 29.01.2025
(87) IB2018050741
27.09.2018
(22) 06.02.2018
(54) METHODS OF RETRANSMISSION IN SEMI-PERSISTENT SCHEDULING WITHOUT EXPLICIT HARQ FEEDBACK
(73) Telefonaktiebolaget LM Ericsson (PUBL)
(72) ZOU, Zhenhua
LARRSON, Daniel
WIKSTRÖM, Gustav
BEHRAVAN, Ali
(31) 201762476641 P
(32) 24.03.2017
(33) United States of America

(51) H04L 1/18
H04W 76/14
H04W 88/04
H04W 92/18
(11) EP4352899
(21) EP21732245.2
(47) 29.01.2025
(87) EP2021065408
15.12.2022
(22) 09.06.2021
(54) HYBRID AUTOMATIC REPEAT REQUEST TRANSFER
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) GERAMI, Majid
WANG, Min
CHRISTOFFERSSON, Jan
SINGH, Bikramjit

(51) H04L 5/00
H04B 7/0408
H04L 1/06
H04L 1/08
H04W 72/00
(11) EP4252380
(21) EP21819979.2
(47) 29.01.2025
(87) IB2021061086
02.06.2022
(22) 29.11.2021
(54) RELIABLE CSI FEEDBACK TOWARDS MULTIPLE TRPS
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) FRENNE, Mattias
MURUGANATHAN, Siva
GAO, Shiwei
BLANKENSHIP, Yufei
(31) 202063118841 P
(32) 27.11.2020
(33) United States of America

(51) H04L 5/00
H04B 7/08
H04L 27/26
H04B 7/06
H04L 5/14
(11) EP3566362
(21) EP17700189.8
(47) 29.01.2025
(87) EP2017000010
12.07.2018
(22) 05.01.2017
(54) REFERENCE SIGNAL PATTERNS
(73) Nokia Technologies Oy
(72) KARJALAINEN, Juha Pekka
KAIKKONEN, Jorma Johannes
HAKOLA, Sami-Jukka
ENESCU, Mihai

(51) H04L 5/00
H04L 1/00
(11) EP3876449
(21) EP19880565.7
(47) 29.01.2025
(87) CN2019111842
07.05.2020
(22) 18.10.2019
(54) METHOD FOR PROVIDING TRANSMISSION FEEDBACK AND USER EQUIPMENT
(73) Datang Mobile Communications Equipment Co., Ltd.
(72) CHENG, Fangchen
ZHAO, Rui
ZHENG, Shilei
FENG, Yuan
HU, Jinling
(31) 201811303670
(32) 02.11.2018
(33) China

(51) H04L 5/00
H04L 5/14
(11) EP4117218
(21) EP22191224.9
(47) 29.01.2025
(22) 03.08.2016
(54) TERMINAL DEVICE, BASE STATION DEVICE, AND COMMUNICATION METHOD
(73) Sharp Kabushiki Kaisha
(72) SUZUKI, Shoichi
TAKAHASHI, Hiroki
AIBA, Tatsushi
YOKOMAKURA, Kazunari
(31) 2015155578
(32) 06.08.2015
(33) Japan

(51) H04L 5/00
H04W 52/36
H04W 72/04
(11) EP3713139
(21) EP18879649.4
(47) 29.01.2025
(87) CN2018112505
23.05.2019
(22) 29.10.2018
(54) SIGNAL TRANSMITTING METHOD, DEVICE AND SYSTEM, AND STORAGE MEDIUM
(73) ZTE Corporation
(72) DAI, Bo
CHEN, Xianming
FANG, Huiying
YANG, Weiwei
LIU, Kun
(31) 201711147169
(32) 17.11.2017
(33) China

(51) H04L 5/00
H04W 72/00
H04W 8/00
(11) EP4264869
(21) EP21815319.5
(47) 29.01.2025
(87) US2021057423
23.06.2022
(22) 29.10.2021

(54) ADAPTIVE DISCOVERY CHANNEL MEASUREMENT TIME CONFIGURATIONS
(73) QUALCOMM INCORPORATED
(72) YANG, Wei
LY, Hung Dinh
HOSSEINI, Seyedkianoush
(31) 202017124354
(32) 16.12.2020
(33) United States of America

(51) H04L 5/00
H04W 72/12
(11) EP4072054
(21) EP20897577.1
(47) 29.01.2025
(87) CN2020113416
10.06.2021
(22) 15.09.2020
(54) UPLINK CHANNEL TRANSMISSION METHOD, TERMINAL, AND BASE STATION
(73) Datang Mobile Communications Equipment Co., Ltd.
(72) GAO, Xuejuan
(31) 201911243473
(32) 06.12.2019
(33) China

(51) H04L 9/00
H04L 9/32
(11) EP4078896
(21) EP20842100.8
(47) 29.01.2025
(87) US2020065391
24.06.2021
(22) 16.12.2020
(54) SYSTEMS AND METHODS FOR GATEWAY COMMUNICATIONS FOR DISTRIBUTED LEDGER SYSTEMS
(73) JPMorgan Chase Bank, N.A.
(72) LOBBAN, Tyrone
MOY, Christine
SAMANTARAY, Debidutta Pruthibiraj
MOVVA, Tulasi
RAJPURIA, Raunak
ZHOU, You
SHETTY, Suresh
(31) 201962948702 P
(32) 16.12.2019
(33) United States of America

(51) H04L 9/00
H04L 9/32
G06Q 10/08
G06Q 10/0833
G06Q 30/018
(11) EP4111642
(21) EP21712249.8
(47) 29.01.2025
(87) JP2021007121
02.09.2021
(22) 25.02.2021
(54) DATA RECORDING APPARATUS, DATA RECORDING METHOD, DATA RECORDING PROGRAM, SYSTEM, METHOD, AND PROGRAM
(73) Yokogawa Electric Corporation
(72) KANOKOGI Hiroaki
FURUKAWA Yota
ISHII Yosuke
SAKATANI Shugo
KURODA Tomohiro
(31) 2020032064
(32) 27.02.2020
(33) Japan

(51) H04L 9/08
(11) EP4016918
(21) EP21212698.1
(47) 29.01.2025
(22) 07.12.2021
(54) METHOD FOR INITIAL DISTRIBUTION OF PROTECTED DATA IN AN ETCS TRAIN CONTROL SYSTEM
(73) Siemens Mobility GmbH
(72) Stein, Fabrice
Dägele, Elmar
(31) 102020216277
(32) 18.12.2020
(33) Germany

(51) H04L 9/08
G06F 21/62
H04L 9/14
H04L 9/40
(11) EP4280544
(21) EP23201083.5
(47) 29.01.2025
(22) 26.08.2021
(54) UTILIZING ENCRYPTION KEY EXCHANGE AND ROTATION TO SHARE PASSWORDS VIA A SHARED FOLDER
(73) Dropbox, Inc.
(72) HANNON, Andrew
PRIOR, Katherine
HEERINGA, Brent
XU, Jiayi
(31) 202017132288
(32) 23.12.2020
(33) United States of America

(51) H04L 9/08
H04L 9/06
H04L 9/32
G06F 21/60
(11) EP4144042
(21) EP21797196.9
(47) 29.01.2025
(87) US2021029429
04.11.2021
(22) 27.04.2021
(54) ADAPTIVE ATTACK RESISTANT DISTRIBUTED SYMMETRIC ENCRYPTION
(73) Visa International Service Association
(72) GADDAM, Sivanarayana
CHRISTODORESCU, Mihai
SINHA, Rohit
MUKHERJEE, Pratyay
(31) 202063019938 P
202016861138
(32) 04.05.2020
28.04.2020
(33) United States of America
United States of America

(51) H04L 9/08
H04L 9/32
H04L 9/40
G06F 21/31
G06F 21/62
(11) EP4264877
(21) EP21834764.9
(47) 29.01.2025
(87) EP2021084707
23.06.2022
(22) 08.12.2021
(54) PASSWORD MANAGEMENT SYSTEM, DEVICE AND METHOD OF THE SAME
(73) Mindyourpass Holding B.V.
(72) DE JONGE, Merijn
(31) 2027136
(32) 17.12.2020
(33) Netherlands

(51) H04L 9/08
H04W 12/041
H04W 12/047
H04W 12/069
G07C 9/00
(11) EP4117230
(21) EP22182495.6
(47) 29.01.2025
(22) 01.07.2022
(54) AUTHENTICATION METHOD BETWEEN TERMINALS HAVING PROXIMITY COMMUNICATION FUNCTION AND TERMINALS IMPLEMENTING THE SAME METHOD
(73) Samsung SDS Co., Ltd.
(72) Kim, Dong Ho
(31) 20220044980
20210089210
(32) 12.04.2022
07.07.2021
(33) Korea (Republic)
Korea (Republic)

(51) H04L 9/30
H04L 9/32
(11) EP4207675
(21) EP22216885.8
(47) 29.01.2025
(22) 28.12.2022
(54) METHOD FOR TRANSMITTING AND RECEIVING CONSUMPTION DATA AND DEVICES IMPLEMENTING SAID METHODS
(73) Sagemcom Energy & Telecom SAS
(72) LECAPPON, Jean-Paul
TEBOULLE, Henri
(31) 2202603
2200007
(32) 24.03.2022
03.01.2022
(33) France
France

(51) H04L 9/32
H04L 9/00
(11) EP4292242
(21) EP22713629.8
(47) 29.01.2025
(87) EP2022056063
06.10.2022
(22) 09.03.2022
(54) SIGNING SYSTEM FOR VALIDATING STATEFUL HASH-BASED DIGITAL SIGNATURES
(73) Siemens Aktiengesellschaft
(72) DE SANTIS, Fabrizio
VAIRA, Antonio

(31) 21166401
(32) 31.03.2021
(33) European Patent Office (EPO)

(51) H04L 9/40
G06F 9/44
H04L 9/00
G06F 8/40
(11) EP4145761
(21) EP22194048.9
(47) 29.01.2025
(22) 06.09.2022
(54) A SYSTEM AND A METHOD FOR AUTOMATIC GENERATION OF SMART CONTRACTS ACROSS BLOCKCHAIN PLATFORMS
(73) Mphasis Limited
(72) Kalyani, Chakkirala Venkata Sai
Madhavan, Sanjeev Kumar
Marques, Agnelo
Ganti, Karthik
Mathews, Biju
(31) 202141040359
(32) 06.09.2021
(33) India

(51) H04L 9/40
G06F 21/55
(11) EP3679505
(21) EP18829603.2
(47) 29.01.2025
(87) US2018064214
27.06.2019
(22) 06.12.2018
(54) SEMI-ACTIVE PROBING FRAMEWORK TO GATHER THREAT INTELLIGENCE FOR ENCRYPTED TRAFFIC AND LEARN ABOUT DEVICES
(73) Cisco Technology, Inc.
(72) PERRICONE, Philip, Ryan
ANDERSON, Blake, Harrell
PAUL, Subharthi
HUDSON, William, Michael, Jr.
MCGREW, David
(31) 201715848645
(32) 20.12.2017
(33) United States of America

(51) H04L 9/40
G06F 21/60
G06F 21/62
(11) EP4052159
(21) EP20804741.5
(47) 29.01.2025
(87) US2020056954
06.05.2021
(22) 23.10.2020
(54) INSTANT ENFORCEMENT OF CENTRALLY CONFIGURED IT POLICIES
(73) Microsoft Technology Licensing, LLC
(72) LU, Jiangfeng
GUPTA, Nitika
MELZER, Oren Jordan
SURAPANENI, Chandra Sekhar
BARHUDARIAN, Violet Anna
BASU, Anirban
BAKER, Caleb Geoffrey
SATAGOPAN, Murli Dharan
(31) 201916670563
(32) 31.10.2019
(33) United States of America

(51) H04L 9/40
G16H 30/20
G16H 80/00
H04L 67/12
G06F 21/62
A61B 6/00
G16H 10/60
(11) EP3176714
(21) EP15197225.4
(47) 29.01.2025
(22) 01.12.2015
(54) SECURE SHARING OF MEDICAL IMAGES
(73) Siemens Healthineers AG
(72) Ukis, Vladyslav

(51) H04L 9/40
H04L 9/12
H04L 67/12
G06F 21/64
H04L 12/40
H04L 9/32
(11) EP4073675
(21) EP20841760.0
(47) 29.01.2025
(87) IB2020061763
17.06.2021
(22) 10.12.2020
(54) METHOD AND SYSTEM FOR DATA EXCHANGE ON A NETWORK TO ENHANCE SECURITY MEASURES OF THE NETWORK, VEHICLE COMPRISING SUCH SYSTEM
(73) FPT Industrial S.p.A.
(72) COLUCCI, Francesco Alessandro
MAZZURCO, Alessandro
(31) 201900023544
(32) 10.12.2019
(33) Italy

(51) H04L 9/40
H04L 67/02
G06Q 20/10
G06Q 20/32
G06Q 20/34
G06Q 20/38
G06Q 20/40
(11) EP4272410
(21) EP21844456.0
(47) 29.01.2025
(87) US2021063281
07.07.2022
(22) 14.12.2021
(54) SECURE GENERATION OF ONE-TIME PASSCODES USING A CONTACTLESS CARD
(73) Capital One Services, LLC
(72) LUTZ, Wayne
RULE, Jeffrey
HART, Colin
JI, Jason
(31) 202117140698
(32) 04.01.2021
(33) United States of America

(51) H04L 9/40
H04W 12/065
G06V 40/16
G06F 21/32
G06F 21/35
(11) EP3495975
(21) EP18210545.2
(47) 29.01.2025
(22) 05.12.2018
(54) FRONT DESK SYSTEM AUTO LOGOFF USING BIOMETRICS SOFTWARE AND BLUETOOTH COMMUNICATION
(73) Honeywell International Inc.
(72) KUENZI, Adam
MUKUNDALA, Sumanth Kumar
(31) 201711043646
(32) 05.12.2017
(33) India

(51) H04L 9/40
H04W 12/71
G06F 21/14
G06F 21/53
G06F 21/55
G06F 21/72
(11) EP3834105
(21) EP19737786.4
(47) 29.01.2025
(87) EP2019069097
13.02.2020
(22) 16.07.2019
(54) ANTI CLONING FOR WHITE BOX PROTECTED DATA
(73) Thales Dis France SAS
(72) VACEK, Jan
LEVEQUE, Sylvain
GOUGET, Aline
GRELLIER, Stéphane
ADJEDJ, Michael
(31) 18306094
(32) 09.08.2018
(33) European Patent Office (EPO)

(51) H04L 12/10
(11) EP3841655
(21) EP19852906.7
(47) 29.01.2025
(87) US2019047346
27.02.2020
(22) 20.08.2019
(54) POWER OVER ETHERNET INTEGRATED WITH OR INTO A PREMISES SECURITY SYSTEM
(73) BTU Research LLC
(72) MCANDREW, Charles, I.
KANARELLIS, Michael
SWATZEL, Kenny
DRIER, John
(31) 201862720089 P
(32) 20.08.2018
(33) United States of America

(51) H04L 12/28
G16H 10/40
H04L 43/04
H04L 67/12
H04L 67/565
H04L 69/08
H04L 43/50
(11) EP3753206
(21) EP19708781.0
(47) 29.01.2025
(87) EP2019053465
15.08.2019
(22) 12.02.2019

(54) DEVICE AND METHOD FOR LABORATORY DATA DISTRIBUTION
(73) Techno-Path Manufacturing Limited
(72) KENNEDY, Ger
KONONYUK, Yuriy
MACMAHON, Ed
(31) 18156379
(32) 12.02.2018
(33) European Patent Office (EPO)

(51) H04L 12/28
H04L 41/0806
H04L 41/08
(11) EP4270879
(21) EP22170079.2
(47) 29.01.2025
(22) 26.04.2022
(54) METHOD FOR OPERATING A BROADBAND ACCESS NETWORK OF A TELECOMMUNICATIONS NETWORK WITH A CUSTOMER PREMISES EQUIPMENT, SYSTEM, WHOLE SALE ENTITY, PROGRAM AND COMPUTER-READABLE MEDIUM
(73) Deutsche Telekom AG
(72) HAAG, Thomas
HURST, Wolfgang
SCHNEIDER, Fabian, Dr.

(51) H04L 12/46
H04L 49/354
H04L 45/745
(11) EP3975487
(21) EP21206174.1
(47) 29.01.2025
(22) 24.03.2016
(54) SCALABLE HANDLING OF BGP ROUTE INFORMATION IN VXLAN WITH EVPN CONTROL PLANE
(73) Cisco Technology, Inc.
(72) YANG, Yibin
DONG, Liqin
(31) 201514670185
(32) 26.03.2015
(33) United States of America

(51) H04L 25/03
H04L 5/00
H04L 27/26
H04J 13/00
(11) EP3962007
(21) EP20835505.7
(47) 29.01.2025
(87) CN2020095627
07.01.2021
(22) 11.06.2020
(54) SYMBOL PROCESSING METHOD AND APPARATUS
(73) Huawei Technologies Co., Ltd.
(72) LIU, Fengwei
HUANG, Huang
(31) 201910591582
(32) 02.07.2019
(33) China

(51) H04L 41/069
G06F 8/53
H04L 43/50
H04L 41/0654
(11) EP3844940
(21) EP19853965.2
(47) 29.01.2025
(87) US2019048868
05.03.2020
(22) 29.08.2019
(54) METHOD FOR COMMUNICATING AND DEBUGGING ACROSS IOT SYSTEMS
(73) Fathym, Inc.
(72) MICKEY, John C.
PRUITT, Ralph T.
RICHARDSON, Gregory G.
POWERS, Richard M.
(31) 201862724111 P
(32) 29.08.2018
(33) United States of America

(51) H04L 41/0813
H04L 41/0894
H04L 41/0895
(11) EP4312413
(21) EP23214159.8
(47) 29.01.2025
(22) 18.06.2021
(54) METHODS AND APPARATUSES FOR POLICY CONTROL
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) XU, Juan
SONG, Yumei
HE, Yingjiao
ZHANG, Hong
FERNANDEZ ALONSO, Susana
(31) PCT/CN2020/106156
(32) 31.07.2020
(33) World Intellectual Property Office (WIPO)

(51) H04L 41/5006
H04L 41/5051
H04L 41/40
(11) EP3949277
(21) EP19732902.2
(47) 29.01.2025
(87) EP2019058688
08.10.2020
(22) 05.04.2019
(54) FEASIBILITY CHECK FOR NETWORK SLICE INSTANTIATION
(73) Nokia Technologies Oy
(72) SCHMELZ, Lars Christoph
MANNWEILER, Christian
FENDT, Andrea
GAJIC, Borislava

(51) H04L 41/5009
H04L 41/0853
H04L 43/0805
H04L 41/082
H04L 41/0893
H04L 41/0894
H04L 41/22
H04L 41/50
H04L 43/0876
(11) EP4106294
(21) EP22174850.2
(47) 29.01.2025
(22) 23.05.2022
(54) OPERATION INFORMATION MANAGEMENT PROGRAM AND METHOD, AND INFORMATION PROCESSING APPARATUS
(73) Fsas Technologies Inc.
(72) ZHANG, Anjie
TAKAYANAGI, Kenichi
ITOH, Kenji
IZAWA, Mai
NAKANO, Kazuhiro
IRIGUCHI, Kota
NITTA, Kenji
NAKAMURA, Takayuki
KAI, Toshihiro
YOSHIMI, Naoyuki
(31) 2021100572
(32) 17.06.2021
(33) Japan

(51) H04L 41/5019
G08G 1/00
H04L 1/00
H04L 67/61
H04W 4/02
(11) EP3874776
(21) EP19755399.3
(47) 29.01.2025
(87) EP2019072399
07.05.2020
(22) 21.08.2019
(54) PROXIMITY AWARENESS IN SIDELINK COMMUNICATIONS
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) SHAWKY HASSAN HUSSEIN, Khaled
BHADAURIA, Shubhangi
ROTH-MANDUTZ, Elke
LEYH, Martin
(31) 18203882
(32) 31.10.2018
(33) European Patent Office (EPO)

(51) H04L 41/5061
H04L 41/00
H04L 9/40
H04L 101/659
H04L 61/5014
(11) EP4418618
(21) EP23157577.0
(47) 29.01.2025
(22) 20.02.2023
(54) METHOD FOR OPERATING A CUSTOMER PREMISES EQUIPMENT WITH A BROADBAND ACCESS NETWORK
(73) Deutsche Telekom AG
(72) MEYER, Klaus
HAAG, Thomas

(51) H04L 45/00
H04L 45/28
H04L 45/50
H04L 45/03
H04L 12/46
(11) EP3713162
(21) EP18883637.3
(47) 29.01.2025
(87) CN2018100443
06.06.2019
(22) 14.08.2018
(54) ROUTE PROCESSING METHOD AND APPARATUS
(73) Huawei Technologies Co., Ltd.
(72) WANG, Haibo
(31) 201711258440
(32) 01.12.2017
(33) China

(51) H04L 45/24
H04L 41/5025

H04L 43/0882
H04L 45/125
H04W 40/00
H04L 45/302
H04L 45/00
(11) EP4125250
(21) EP22195286.4
(47) 29.01.2025
(22) 17.05.2010
(54) AUTOMATIC PROTECTION SWITCHING METHOD, DEVICE AND SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) LONG, Hao
(31) 200910091787
(32) 25.08.2009
(33) China

(51) H04L 47/00
(11) EP3891950
(21) EP19813014.8
(47) 29.01.2025
(87) EP2019083783 11.06.2020
(22) 05.12.2019
(54) ROUTER WITH LOGIN FUNCTIONALITY AND ACCESS CONTROL METHOD SUITABLE THEREFOR
(73) PHOENIX CONTACT GMBH & CO. KG
(72) BOYSEN, Gerrit
FUSS, Andreas
HILGENKAMP, Ingo
(31) 201805857
(32) 06.12.2018
(33) Belgium

(51) H04L 47/25
H04L 47/28
(11) EP4383675
(21) EP22212452.1
(47) 29.01.2025
(22) 09.12.2022
(54) EFFICIENT USAGE OF A MINGBR
(73) Deutsche Telekom AG
(72) SCHNIEDERS, Dominik
BAYER, Nico

(51) H04L 51/212
H04L 51/216
H04L 51/063
(11) EP4340326
(21) EP23190730.4
(47) 29.01.2025
(22) 10.08.2023
(54) MESSAGE SERVICE PROVIDING METHOD AND SERVER
(73) Samsung SDS Co., Ltd.
(72) Lee, Han Eol
Choi, Myoung Kyhun
Park, Yong Kook
Kang, Kyung Sun
Kim, Ki Man
(31) 20220116908
(32) 16.09.2022
(33) Korea (Republic)

(51) H04L 65/1069
H04L 65/1023
H04L 65/1073
H04L 65/80
H04W 76/11
H04W 76/15
H04W 68/02
H04W 68/00
H04W 76/12
H04W 28/24
(11) EP4054277
(21) EP20897352.9
(47) 29.01.2025
(87) CN2020123911 10.06.2021
(22) 27.10.2020
(54) WIRELESS COMMUNICATION METHOD, CUSTOMER PREMISE EQUIPMENT, USER EQUIPMENT, AND NETWORK-SIDE EQUIPMENT
(73) Huawei Technologies Co., Ltd.
(72) LI, Shuang
(31) 201911228644
(32) 04.12.2019
(33) China

(51) H04L 65/1069
H04L 65/403
H04L 65/4061
H04W 4/06
H04L 9/40
H04W 4/42
(11) EP4293986
(21) EP23176563.7
(47) 29.01.2025
(22) 31.05.2023
(54) A METHOD FOR GROUP CALL VIDEO TRANSMISSION CONTROL OF THE RAILWAY MCVIDEO SYSTEM
(73) China Academy of Railway Sciences Corporation Limited
Signal & Communication Research Institute of China Academy of Railway Sciences Corporation Limited
Beijing HUA-TIE Information Technology Co., Ltd
Beijing Ruichi Guotie ITS Eng.&Tech.Ltd
(72) Lin, Wei
Fu, Wengang
Liang, Yiqun
Jiang, Hongmin
Han, Ce
Wang, Qianru
Guo, Qiangliang
Tang, Maoshun
Li, Chunduo
Zhou, Xiaozhi
Wang, Wenqiang
Wang, Kaifeng
Yang, Jufeng
Wang, Cheng
Li, Xu
Zhang, Xindan
Zhang, Zhihao
Jiang, Zhiyong
Bai, Xiaonan
Yan, Xiaoyu
Zhang, Yujin
Li, Yi
Gao, Shangyong
Wang, Zuyuan
Wang, Yao
(31) 202210668750
(32) 14.06.2022
(33) China

(51) H04L 65/1076
H04L 65/1069
H04W 4/21
H04L 9/40
(11) EP3975519
(21) EP21198973.6
(47) 29.01.2025
(22) 24.09.2021
(54) COMMUNICATION SYSTEM FOR MITIGATING INCOMING SPOOFED CALLERS USING SOCIAL MEDIA
(73) Mitel Networks Corporation
(72) Prodanovic, Radovan
Naidoo, Logendra
(31) 202017033582
(32) 25.09.2020
(33) United States of America

(51) H04L 65/1094
H04W 88/04
H04M 1/72412
H04M 1/656
H04M 1/253
H04W 72/1268
H04W 72/1273
(11) EP4287584
(21) EP22918383.5
(47) 29.01.2025
(87) CN2022139455 13.07.2023
(22) 16.12.2022
(54) METHOD AND APPARATUS FOR TRANSMITTING CALL AUDIO DATA
(73) Honor Device Co., Ltd.
(72) LIU, Nengbin
(31) 202210023402
(32) 10.01.2022
(33) China

(51) H04L 65/40
H04L 67/289
(11) EP4203436
(21) EP20950874.6
(47) 29.01.2025
(87) CN2020112508 03.03.2022
(22) 31.08.2020
(54) COMMUNICATION METHOD AND MULTI-ACCESS EDGE COMPUTING SERVER
(73) Shenzhen Yinwang Intelligent Technologies Co., Ltd.
(72) QIAO, Bing
ZHANG, Youliang
WANG, Jiawei
ZENG, Zhenhua

(51) H04L 67/00
H04W 8/20
H04W 8/18
(11) EP3788808
(21) EP19720615.4
(47) 29.01.2025
(87) EP2019061096 07.11.2019
(22) 30.04.2019
(54) METHOD FOR PERSONALIZING PRE-GENERATED PROTECTED PROFILES AND CORRESPONDING SYSTEM
(73) Thales Dis France SAS

(72) BRETAGNE, Eric
ROZAK-DRAICCHIO, Lionel
(31) 18305543
(32) 02.05.2018
(33) European Patent Office (EPO)

(51) H04L 67/10
H04L 9/40
H04L 67/00
(11) EP4145785
(21) EP20933629.6
(47) 29.01.2025
(87) CN2020088413
04.11.2021
(22) 30.04.2020
(54) DEVICE PROTECTION METHOD, AND DEVICES
(73) New H3C Technologies Co., Ltd.
(72) HUANG, Fengxian

(51) H04L 67/1001
(11) EP4016961
(21) EP20854354.6
(47) 29.01.2025
(87) CN2020080966
25.02.2021
(22) 24.03.2020
(54) INFORMATION OBTAINING METHOD AND DEVICE
(73) Huawei Technologies Co., Ltd.
(72) GE, Cuili
YANG, Yanmei
(31) PCT/CN2019/101650
(32) 20.08.2019
(33) World Intellectual Property Office (WIPO)

(51) H04L 67/12
G06V 30/224
H04L 12/28
H04W 4/70
H04W 84/18
(11) EP3766211
(21) EP19804283.0
(47) 29.01.2025
(87) KR2019005588
21.11.2019
(22) 09.05.2019
(54) METHOD AND AN ELECTRONIC DEVICE CONNECTING PLURALITY OF ELECTRONIC DEVICES TO SERVER THROUGH HUB
(73) Samsung Electronics Co., Ltd.
(72) PARK, Jihyun
(31) 20180055324
(32) 15.05.2018
(33) Korea (Republic)

(51) H04L 67/12
H04L 9/40
H04L 67/56
(11) EP4260544
(21) EP21815978.8
(47) 29.01.2025
(87) EP2021082006
16.06.2022
(22) 17.11.2021
(54) DEVICE, SYSTEM, AND METHOD FOR CYBER ISOLATING MOBILITY SYSTEMS WHEN A VEHICLE IS IN MOTION
(73) Valeo Comfort and Driving Assistance
(72) DRAPER, Andrew
(31) 202017116271
(32) 09.12.2020
(33) United States of America

(51) H04L 67/51
H04L 47/724
H04L 47/726
H04L 47/70
H04L 69/24
H04L 47/80
(11) EP4264928
(21) EP21852090.6
(47) 29.01.2025
(87) US2021063781
23.06.2022
(22) 16.12.2021
(54) METHODS, APPARATUSES AND SYSTEMS DIRECTED TO WIRELESS TRANSMIT/RECEIVE UNIT BASED JOINT SELECTION AND CONFIGURATION OF MULTI-ACCESS EDGE COMPUTING HOST AND RELIABLE AND AVAILABLE WIRELESS NETWORK
(73) InterDigital Patent Holdings, Inc.
(72) BERNARDOS, Carlos Jesus
MOURAD, Alain
(31) 202063126786 P
(32) 17.12.2020
(33) United States of America

(51) H04L 67/51
H04L 67/00
H04W 4/50
(11) EP4458005
(21) EP23718122.7
(47) 29.01.2025
(87) US2023016162
28.09.2023
(22) 23.03.2023
(54) SHARED-APPLICATION VERTICAL-SESSION-BASED-EDGE-APPLICATION-INSTANCE DISCOVERY AND SELECTION
(73) InterDigital Patent Holdings, Inc.
(72) MONRAD, Atle
ABBAS, Taimoor
WANG, Zhibi
STARSINIC, Michael
ROY, Michel
GAZDA, Robert
(31) 202263323396 P
(32) 24.03.2022
(33) United States of America

(51) H04L 67/563
H04L 69/08
H04L 69/18
(11) EP4268439
(21) EP21839471.6
(47) 29.01.2025
(87) EP2021085874
04.08.2022
(22) 15.12.2021
(54) TECHNICAL INSTALLATION AND INTERMEDIARY DEVICE FOR A TECHNICAL INSTALLATION
(73) Siemens Mobility GmbH
(72) USER, Yasin
WISCHY, Markus Alexander
(31) 102021200832
(32) 29.01.2021
(33) Germany

(51) H04M 1/02
B23K 31/00
B23K 103/10
(11) EP4149096
(21) EP22808565.0
(47) 29.01.2025
(87) CN2022089551
02.02.2023
(22) 27.04.2022
(54) ELECTRONIC DEVICE AND METHOD FOR MANUFACTURING MIDDLE FRAME
(73) Honor Device Co., Ltd.
(72) ZHANG, Chunxiao
(31) 202110869182
(32) 29.07.2021
(33) China

(51) H04M 1/02
H04B 5/00
H02J 50/70
H02J 50/10
H02J 50/00
H01Q 1/24
H04B 5/24
H04B 5/43
(11) EP3987757
(21) EP20850976.0
(47) 29.01.2025
(87) KR2020008915
11.02.2021
(22) 08.07.2020
(54) ELECTRONIC DEVICE INCLUDING SENSOR
(73) Samsung Electronics Co., Ltd.
(72) SEO, Kemsuk
BAEK, Seunggeol
WON, Duckho
PARK, Junkyu
KIM, Jeonghoo
LEE, Kwangsub
(31) 20190096029
(32) 07.08.2019
(33) Korea (Republic)

(51) H04M 1/663
H04M 1/57
H04M 3/436
H04M 3/42
H04M 3/54
(11) EP3800874
(21) EP20191066.8
(47) 29.01.2025
(22) 14.08.2020
(54) METHOD AND DEVICE FOR REDIRECTING A COMMUNICATION REQUEST
(73) ORANGE
(72) CASEAU, François
BINARD, Fabien
(31) 1910869
(32) 01.10.2019
(33) France

(51) H04M 1/72454
H04M 1/60
H04M 1/03
(11) EP3941027
(21) EP21165058.5

(47) 29.01.2025
(22) 25.03.2021
(54) ADAPTIVE METHOD AND APPARATUS FOR INTELLIGENT TERMINAL, AND TERMINAL
(73) Beijing Xiaomi Mobile Software Co., Ltd.
(72) JIN, Xiulu
(31) 202010669506
(32) 13.07.2020
(33) China

(51) H04M 1/725
G08B 19/00
A61B 5/00
A61B 5/145
A61M 5/142
G06F 1/16
G06F 3/01
G06F 3/16
G08B 7/06
H04B 1/3827
H04M 1/72412
H04W 4/80
(11) EP3906659
(21) EP19907621.7
(47) 29.01.2025
(87) US2019067880
09.07.2020
(22) 20.12.2019
(54) SYSTEM AND METHOD FOR ENHANCED NOTIFICATIONS TO USERS OF MEDICAL DEVICES
(73) Becton, Dickinson and Company
(72) ARUMUGAM, Revathy
SAMBANTHAMOORTHY, Ganesh Thirugnana
(31) 201862786761 P
(32) 31.12.2018
(33) United States of America

(51) H04M 3/00
H04M 3/42
H04Q 3/62
(11) EP4142271
(21) EP21808411.9
(47) 29.01.2025
(87) JP2021015763
25.11.2021
(22) 16.04.2021
(54) RELAY DEVICE, COMMUNICATION SYSTEM, RELAYING METHOD, AND PROGRAM
(73) NEC Platforms, Ltd.
(72) ABE, Takumi
(31) 2020087881
(32) 20.05.2020
(33) Japan

(51) H04M 3/42
G06F 3/0481
G06F 3/0484
H04W 4/18
(11) EP3909229
(21) EP20703829.0
(47) 29.01.2025
(87) IB2020050173
16.07.2020
(22) 10.01.2020
(54) IMPROVED MESSAGING SYSTEM
(73) Dal, Bosco Nicola
Social Media Emotions S.r.l.
(72) DAL BOSCO, Nicola
(31) 201900000457
(32) 11.01.2019
(33) Italy

(51) H04M 3/58
H04L 65/1096
H04L 65/1094
H04W 4/16
H04L 65/80
H04M 7/00
(11) EP4210311
(21) EP22150532.4
(47) 29.01.2025
(22) 07.01.2022
(54) METHOD AND APPARATUS TO PREVENT DENIAL OF CALL TRANSFER
(73) Nokia Technologies Oy
(72) WON, Sung Hwan
LEIS, Peter

(51) H04N 1/21
H04N 1/387
H04N 23/73
(11) EP4401417
(21) EP22930131.2
(47) 29.01.2025
(87) CN2022134118
30.05.2024
(22) 24.11.2022
(54) IMAGE SIGNAL PROCESSING DRIVING METHOD, CONTROL MODULE, PROCESSING MODULE, AND MEDIUM
(73) Verisilicon Microelectronics (Nanjing) Co., Ltd.
VeriSilicon Microelectronics (Shanghai) Co., Ltd.
VeriSilicon Microelectronics (Chengdu) Co., Ltd.
(72) LIANG, Chao
ZHONG, Xia
FU, Yinsheng
TANG, Xianfeng
MEN, Hongling

(51) H04N 5/765
H04N 21/4363
(11) EP3729797
(21) EP18827322.1
(47) 29.01.2025
(87) US2018065546
27.06.2019
(22) 13.12.2018
(54) AUDIO DEVICE FOR HDMI
(73) Dolby Laboratories Licensing Corporation
(72) FISCHER, David Matthew
WOLFF, Christian
(31) 201762608827 P
17209739
(32) 21.12.2017
21.12.2017
(33) United States of America
European Patent Office (EPO)

(51) H04N 9/31
G03B 21/20
H04N 5/74
G02B 5/00
G02B 27/10
G02B 27/28
G02B 26/02
(11) EP3860119
(21) EP20209434.8
(47) 29.01.2025
(22) 29.10.2014
(54) SINGLE MODULATOR PROJECTOR SYSTEMS WITH GLOBAL DIMMING
(73) Dolby Laboratories Licensing Corporation
(72) CRAIG, Todd
RICHARDS, Martin J.
GORNY, Douglas J.
DARROW, Douglas Jason
(31) 201461988692 P
201361899865 P
(32) 05.05.2014
04.11.2013
(33) United States of America
United States of America

(51) H04N 13/243
H04N 23/51
H04N 23/698
H04N 23/90
B64D 43/00
B64D 47/08
(11) EP3850823
(21) EP19765258.9
(47) 29.01.2025
(87) EP2019074137
19.03.2020
(22) 10.09.2019
(54) OPTRONIC EQUIPMENT FOR ASSISTANCE IN PILOTING AN AIRCRAFT
(73) Safran Electronics & Defense
(72) MASSIE, Louis
VAISSIERE, Michel
KLING, Emmanuel
DEVICHI, Thomas
(31) 1800948
(32) 10.09.2018
(33) France

(51) H04N 13/344
G02B 27/10
G02B 27/18
G02B 30/60
H04N 13/332
H04N 13/341
G02B 27/01
G02B 30/24
G02B 30/25
H04N 13/337
G02B 27/28
(11) EP3903480
(21) EP19904460.3
(47) 29.01.2025
(87) US2019067823
02.07.2020
(22) 20.12.2019
(54) AUGMENTED AND VIRTUAL REALITY DISPLAY SYSTEMS WITH SHARED DISPLAY FOR LEFT AND RIGHT EYES
(73) Magic Leap, Inc.
(72) CURTIS, Kevin Richard
CARLISLE, Clinton
RUSSELL, Andrew Ian
TRISNADI, Jahja I.
EDWIN, Lionel Ernest
COHEN, Howard Russell

CHUNG, Hyunsun
TAYLOR, Robert Blake
(31) 201962911018 P
201962858927 P
201962800363 P
201862786199 P
(32) 04.10.2019
07.06.2019
01.02.2019
28.12.2018
(33) United States of America
United States of America
United States of America
United States of America

(51) H04N 17/06
H04N 5/77
G06F 11/30
H04L 67/50
H04L 69/28
H04N 7/18
(11) EP3852363
(21) EP19874086.2
(47) 29.01.2025
(87) CN2019111323
23.04.2020
(22) 15.10.2019
(54) DEVICE STATE MONITORING METHOD AND APPARATUS
(73) Hangzhou Hikvision Digital Technology Co., Ltd.
(72) LUO, Yuhua
(31) 201811211115
(32) 17.10.2018
(33) China

(51) H04N 19/00
H04N 7/15
H04N 13/30
H04N 7/10
(11) EP4000259
(21) EP21799483.9
(47) 29.01.2025
(87) US2021026792
11.11.2021
(22) 12.04.2021
(54) EVENT-BASED TRIGGER INTERVAL FOR SIGNALING OF RTCP VIEWPORT FOR IMMERSIVE TELECONFERENCING AND TELEPRESENCE FOR REMOTE TERMINALS
(73) Tencent America LLC
(72) ABHISHEK, Rohit
SODAGAR, Iraj
(31) 202017095282
202063022394 P
(32) 11.11.2020
08.05.2020
(33) United States of America
United States of America

(51) H04N 19/117
H04N 19/172
H04N 19/174
H04N 19/587
H04N 19/80
H04N 19/167
(11) EP4078951
(21) EP20830247.1
(47) 29.01.2025
(87) EP2020087493
24.06.2021
(22) 21.12.2020
(54) FACTIONAL SAMPLE INTERPOLATION FOR REFERENCE PICTURE RESAMPLING
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) WINKEN, Martin
SCHWARZ, Heiko
SÁNCHEZ DE LA FUENTE, Yago
BROSS, Benjamin
SCHIERL, Thomas
SKUPIN, Robert
MARPE, Detlev
WIEGAND, Thomas
(31) 19218738
(32) 20.12.2019
(33) European Patent Office (EPO)

(51) H04N 19/119
H04N 19/147
H04N 19/176
H04N 19/96
(11) EP4096220
(21) EP22186408.5
(47) 29.01.2025
(22) 09.12.2015
(54) METHOD OF VIDEO CODING USING BINARY TREE BLOCK PARTITIONING
(73) HFI Innovation Inc.
(72) ZHANG, Kai
AN, Jicheng
CHEN, Yi-Wen
(31) PCT/CN2014/093445
(32) 10.12.2014
(33) World Intellectual Property Office (WIPO)

(51) H04N 19/142
H04N 19/172
H04N 19/177
H04N 19/114
(11) EP4207760
(21) EP21859996.7
(47) 29.01.2025
(87) CN2021108116
03.03.2022
(22) 23.07.2021
(54) METHOD FOR DIVIDING GROUP OF PICTURES BASED ON SCENE SWITCHING AND APPARATUS, METHOD FOR ENCODING VIDEO AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM
(73) BIGO TECHNOLOGY PTE. LTD.
(72) CHEN, Dapeng
FENG, Yiyan
(31) 202010879575
(32) 27.08.2020
(33) China

(51) H04N 19/17
H04N 19/132
H04N 19/167
H04N 19/20
H04N 19/507
(11) EP4009635
(21) EP20212217.2
(47) 29.01.2025
(22) 07.12.2020
(54) METHOD AND SYSTEM FOR PRODUCING STREAMS OF IMAGE FRAMES
(73) Axis AB
(72) Danielsson, Niclas
Danielsson Fan, Xing

(51) H04N 19/50
H04N 19/176
(11) EP3886437
(21) EP19902594.1
(47) 29.01.2025
(87) CN2019124453
02.07.2020
(22) 11.12.2019
(54) VIDEO ENCODING AND DECODING
(73) Hangzhou Hikvision Digital Technology Co., Ltd.
(72) CHEN, Fangdong
(31) 201811628695
(32) 28.12.2018
(33) China

(51) H04N 21/2187
H04N 21/234
H04N 21/8405
G06V 20/40
G06V 20/62
G06V 40/16
(11) EP3311332
(21) EP16732858.2
(47) 29.01.2025
(87) US2016037717
22.12.2016
(22) 16.06.2016
(54) AUTOMATIC RECOGNITION OF ENTITIES IN MEDIA-CAPTURED EVENTS
(73) Microsoft Technology Licensing, LLC
(72) KOUL, Anirudh
TREMBLAY, Serge-Eric
(31) 201514741015
(32) 16.06.2015
(33) United States of America

(51) H04N 21/24
H04L 1/22
H04L 65/65
H04N 21/242
H04N 21/63
H04N 21/643
(11) EP4228271
(21) EP22156004.8
(47) 29.01.2025
(22) 09.02.2022
(54) MEDIA DATA TRANSMISSION AND PROCESSING SYSTEM AND METHOD FOR OPERATING SUCH SYSTEM
(73) EVS Broadcast Equipment SA
(72) de Groot, Jan-Willem
Schut, Peter

(51) H04N 21/43
H04N 21/436
H04N 21/45
H04N 21/422
(11) EP4409920
(21) EP22797548.9
(47) 29.01.2025
(87) US2022044840
06.04.2023
(22) 27.09.2022

(54) ROUTINES FOR PLAYBACK DEVICES
(73) Sonos, Inc.
(72) WAGHELA, Nikit
VEGA, Luis
BULLIS, Graham
SARODE, Shilpa
SALIT, Joshua
WRIGHT, Brandon
(31) 202163261823 P
202163261822 P
(32) 29.09.2021
29.09.2021
(33) United States of America
United States of America

(51) H04N 23/45
(11) EP4181518
(21) EP22214098.0
(47) 29.01.2025
(22) 09.11.2020
(54) APPARATUSES AND COMPUTER-IMPLEMENTED METHODS FOR MIDDLE FRAME IMAGE PROCESSING
(73) Hand Held Products, Inc.
(72) HARPER, Jeffrey Dean
GERMAINE, Gennady
FENG, Chen
XIAN, Tao
(31) 201916684121
(32) 14.11.2019
(33) United States of America

(51) H04N 23/63
H04N 5/262
G06F 3/0484
G06T 11/60
(11) EP4009624
(21) EP20874409.4
(47) 29.01.2025
(87) CN2020117823
15.04.2021
(22) 25.09.2020
(54) IMAGE DISPLAY METHOD, MOBILE TERMINAL AND RELATED COMPUTER PROGRAM
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) WU, Henggang
(31) 201910953793
(32) 09.10.2019
(33) China

(51) H04N 23/741
H04N 23/743
H04N 23/11
H04N 23/56
(11) EP4422197
(21) EP23158216.4
(47) 29.01.2025
(22) 23.02.2023
(54) METHOD FOR GENERATING A HIGH DYNAMIC RANGE IMAGE
(73) Aptiv Technologies AG
(72) SAHELI, Ali
BARTH, Alexander

(51) H04N 23/81
H04N 25/61
G06T 5/80
(11) EP4068744
(21) EP21200067.3
(47) 29.01.2025
(22) 30.09.2021
(54) METHOD AND DEVICE FOR CORRECTING AN IMAGE, AND ATORAGE MEDIUM
(73) Beijing Xiaomi Mobile Software Co., Ltd.
(72) LI, Qian
(31) 202110334482
(32) 29.03.2021
(33) China

(51) H04Q 1/06
(11) EP4011092
(21) EP20754552.6
(47) 29.01.2025
(87) US2020043659
11.02.2021
(22) 27.07.2020
(54) HORIZONTAL CABLE MANAGER
(73) Panduit Corp.
(72) O'YOUNG, Jason
ZUMBEK, Kevin M.
(31) 202016937920
201962882736 P
(32) 24.07.2020
05.08.2019
(33) United States of America
United States of America

(51) H04Q 9/00
A61B 5/145
H04W 4/38
A61B 5/00
H04W 12/00
H04W 12/02
H04W 12/06
H04W 12/069
H04W 12/08
H04W 12/033
H04W 12/037
H04W 12/065
H04W 12/084
H04L 9/40
(11) EP4241680
(21) EP23180909.6
(47) 29.01.2025
(22) 12.10.2017
(54) SYSTEM AND METHOD FOR COMMUNICATION OF ANALYTE DATA
(73) DexCom, Inc.
(72) Kamath, Apurv Ullas
Ploof, Michael A.
Amidei, James Stephen
Pender, William A.
Mandapaka, Aditya
Hampapuram, Hari
Chum Dew, Darin Edward
Paul, Nathanael
Pascual, Francis William
Burnette, Douglas William
(31) 201662409677 P
(32) 18.10.2016
(33) United States of America

(51) H04Q 9/00
F24F 11/52
F24F 11/54
F24F 11/57
F24F 11/58
F24F 11/59
F24F 11/89
(11) EP4106340
(21) EP20918691.5
(47) 29.01.2025
(87) JP2020046488
19.08.2021
(22) 14.12.2020
(54) PROGRAM AND CONTROL METHOD
(73) Daikin Industries, Ltd.
(72) KASHIMOTO, Hiroko
OKADA, Nao
KAWAKAMI, Nobuyoshi
TAKAKI, Kentarou
(31) 2020021752
(32) 12.02.2020
(33) Japan

(51) H04Q 11/00
H04B 10/25
H04B 10/29
H04B 10/11
G02F 1/13
(11) EP3488620
(21) EP17831755.8
(47) 29.01.2025
(87) US2017042776
25.01.2018
(22) 19.07.2017
(54) COMPUTING DEVICE FOR HIGH SPEED OPTICAL DATA SWITCHING
(73) Raytheon Company
(72) UYENO, Gerald P.
KELLER, Sean D.
(31) 201615215946
(32) 21.07.2016
(33) United States of America

(51) H04R 1/10
(11) EP4161091
(21) EP21812823.9
(47) 29.01.2025
(87) CN2021096343
02.12.2021
(22) 27.05.2021
(54) WIRELESS HEADSET, WIRELESS HEADSET BOX AND WIRELESS HEADSET DEVICE
(73) Vivo Mobile Communication Co., Ltd.
(72) SHANGGUAN, Xinyang
SUN, Zhen
(31) 202010472671
(32) 29.05.2020
(33) China

(51) H04R 1/28
(11) EP3857910
(21) EP19899799.1
(47) 29.01.2025
(87) KR2019017913
25.06.2020
(22) 17.12.2019
(54) SPEAKER AND DISPLAY APPARATUS
(73) Incheon National University Research & Business Foundation
Samsung Electronics Co., Ltd.
(72) PARK, Dongkyu
LIM, Suntaek
KIM, Jongbae
KIM, Namkeun
AHN, Hoseon
KIM, Jihoon
KIM, Sungjoo
(31) 20180164657

(32) 19.12.2018
(33) Korea (Republic)

(51) H04R 3/00
H04R 9/06
H04R 29/00
H04R 7/04
(11) EP4162704
(21) EP21736431.4
(47) 29.01.2025
(87) US2021035883
09.12.2021
(22) 04.06.2021
(54) LOUDSPEAKER AND METHOD OF USING THE SAME
(73) Brane Audio, LLC
(72) PINKERTON, Joseph F.
BADGER, David A.
(31) 202063034556 P
(32) 04.06.2020
(33) United States of America

(51) H04R 5/027
H04R 1/32
H04R 1/40
H04R 1/08
(11) EP4057640
(21) EP22159099.5
(47) 29.01.2025
(22) 28.02.2022
(54) AUDIO RECORDER
(73) TEAC Corporation
(72) Toyono, Taishi
Yoshimoto, Takuya
(31) 2021038209
(32) 10.03.2021
(33) Japan

(51) H04R 25/00
(11) EP3873109
(21) EP21157875.2
(47) 29.01.2025
(22) 18.02.2021
(54) A HEARING AID SYSTEM FOR ESTIMATING ACOUSTIC TRANSFER FUNCTIONS
(73) Oticon A/S
(72) BENTSEN, Thomas
OLSEN, Anders Brødløs
PEDERSEN, Michael Syskind
FELDT, Svend
JENSEN, Jesper
ROHDE, Nels Hede
(31) 20159690
(32) 27.02.2020
(33) European Patent Office (EPO)

(51) H04R 25/00
(11) EP3577908
(21) EP17818155.8
(47) 29.01.2025
(87) EP2017084041
09.08.2018
(22) 21.12.2017
(54) METHOD OF OPERATING A HEARING AID SYSTEM AND A HEARING AID SYSTEM
(73) WIDEX A/S
(72) ELMEDYB, Thomas Bo
NIELSEN, Jakob
PIHL, Michael Johannes
STIEFENHOFER, Georg
WESTERMANN, Adam
MOSGAARD, Lars Dalskov
(31) PA201700063
PA201700062
(32) 31.01.2017
31.01.2017
(33) Denmark
Denmark

(51) H04R 25/00
H04L 9/40
H04W 12/06
(11) EP3320696
(21) EP15738031.2
(47) 29.01.2025
(87) EP2015065680
12.01.2017
(22) 09.07.2015
(54) SYSTEM AND METHOD FOR FEATURE MANAGEMENT IN A HEARING AID
(73) WIDEX A/S
(72) WESTERGAARD, Anders
MARETTI, Niels Erik Boelskift
WESTERMANN, Soren Erik
ANDERSEN, Svend Vitting

(51) H04R 29/00
H04M 3/56
(11) EP4325894
(21) EP23189824.8
(47) 29.01.2025
(22) 04.08.2023
(54) MICROPHONE STATE DISPLAY METHOD AND MICROPHONE STATE DISPLAY APPARATUS
(73) YAMAHA CORPORATION
(72) OIZUMI, Yoshifumi
(31) 2022129182
(32) 15.08.2022
(33) Japan

(51) H04S 7/00
G10L 21/0216
(11) EP4256814
(21) EP21839729.7
(47) 29.01.2025
(87) US2021061658
09.06.2022
(22) 02.12.2021
(54) INSERTION OF FORCED GAPS FOR PERVASIVE LISTENING
(73) Dolby Laboratories Licensing Corporation
(72) HINES, Christopher Graham
SOUTHWELL, Benjamin John
(31) 202163201561 P
202063120887 P
(32) 04.05.2021
03.12.2020
(33) United States of America
United States of America

(51) H04W 4/02
G01S 19/02
G01S 19/22
G01S 19/07
G01S 5/02
G01S 19/40
G01S 19/42
(11) EP2839684
(21) EP13777593.8
(47) 29.01.2025
(87) US2013037216
24.10.2013
(22) 18.04.2013
(54) ESTIMATING CHARACTERISTICS OF OBJECTS IN ENVIRONMENT
(73) Owen, Henry S.
(72) Owen, Henry S.
(31) 201361794426 P
201361765509 P
201361752960 P
201261679056 P
201261650521 P
201261635058 P
(32) 15.03.2013
15.02.2013
15.01.2013
02.08.2012
23.05.2012
18.04.2012
(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

(51) H04W 4/02
H04W 4/029
H04W 88/02
G01C 21/20
G01S 5/02
H04L 67/52
(11) EP4017034
(21) EP20215912.5
(47) 29.01.2025
(22) 21.12.2020
(54) 5G POSITIONING SLAM TAGS
(73) Deutsche Telekom AG
(72) RECHENBERGER, Ingo

(51) H04W 4/02
H04W 4/46
(11) EP4241466
(21) EP21810520.3
(47) 29.01.2025
(87) AT2021060417
12.05.2022
(22) 08.11.2021
(54) VALIDATION OF A V2X MESSAGE
(73) AVL List GmbH
(72) PRILLER, Peter
(31) 509662020
(32) 09.11.2020
(33) Austria

(51) H04W 4/021
H04W 4/33
H04W 4/38
H04W 4/80
G01C 21/20
(11) EP4240028
(21) EP22159417.9
(47) 29.01.2025
(22) 01.03.2022
(54) SYSTEM AND METHOD FOR PAIRING DEVICES IN A GYM ENVIRONMENT
(73) Polar Electro Oy
(72) Lutz, Michael
Happonen, Jukka
Raso, Andrea
Karvonen, Sami

(51) H04W 4/06

(11) EP3634054
(21) EP18814139.4
(47) 29.01.2025
(87) CN2018087159
13.12.2018
(22) 16.05.2018
(54) METHOD AND APPARATUS FOR TRANSMITTING SERVICE DATA
(73) Huawei Technologies Co., Ltd.
(72) LIU, Hang
LI, Mingchao
WANG, Hejun
CAO, Zhenzhen
YU, Yinghui
(31) 201710434630
(32) 09.06.2017
(33) China

(51) H04W 4/06
H04L 1/00
H04L 1/02
H03M 13/13
H03M 13/27
(11) EP3614701
(21) EP18801323.9
(47) 29.01.2025
(87) CN2018086922
22.11.2018
(22) 15.05.2018
(54) POLAR CODE TRANSMISSION METHOD AND DEVICE
(73) Huawei Technologies Co., Ltd.
(72) LI, Rong
DAI, Shengchen
LUO, Hejia
QIAO, Yunfei
SHEN, Zukang
(31) 201710340275
(32) 15.05.2017
(33) China

(51) H04W 4/06
H04W 52/02
H04L 1/16
H04W 74/00
(11) EP4287750
(21) EP23196451.1
(47) 29.01.2025
(22) 11.06.2018
(54) SYSTEM INFORMATION TRANSMISSION METHOD, TERMINAL, AND NETWORK DEVICE
(73) Vivo Mobile Communication Co., Ltd.
(72) CHEN, Li
(31) 201710449139
(32) 14.06.2017
(33) China

(51) H04W 4/14
(11) EP4295593
(21) EP22712107.6
(47) 29.01.2025
(87) US2022016419
25.08.2022
(22) 15.02.2022
(54) INTELLIGENT CELLULAR CHANNEL MANAGEMENT
(73) Dish Wireless L.L.C.
(72) RAYMOND, Paul-André
BASHIR, Kazi
CHENUMOLU, Siddhartha
ZUFALL, David
ALASTI, Mehdi
BANSAL, Ashish
(31) 202117181815
(32) 22.02.2021
(33) United States of America

(51) H04W 4/14
H04L 61/10
H04L 65/1063
H04W 88/16
H04W 88/18
H04W 52/02
(11) EP3732906
(21) EP18839581.8
(47) 29.01.2025
(87) US2018067719
04.07.2019
(22) 27.12.2018
(54) A SIMPLIFIED SHORT MESSAGE SERVICE (SMS) PROCEDURE FOR COMMUNICATION WITH INTERNET OF THINGS DEVICES
(73) Nokia USA Inc.
Nokia Solutions and Networks Oy
(72) TOTA, Ranga
LAHA, Subhasis
CUERVO, Fernando
SUDARSAN, Padmavathi
(31) 201715855517
(32) 27.12.2017
(33) United States of America

(51) H04W 4/24
H04L 12/14
H04M 15/00
(11) EP4243463
(21) EP23165967.3
(47) 29.01.2025
(22) 07.03.2020
(54) CHARGING METHOD AND DEVICE
(73) Huawei Technologies Co. Ltd.
(72) CHAI, Xiaoqian
(31) 201910252080
(32) 29.03.2019
(33) China

(51) H04W 4/38
H04W 4/40
H04W 8/24
H04W 24/02
H04W 48/16
H04W 84/20
(11) EP4156729
(21) EP22192002.8
(47) 29.01.2025
(22) 24.08.2022
(54) OCCUPANCY GRID MAP COMPUTATION, V2X COMPLEMENTARY SENSING, AND COORDINATION OF COOPERATIVE PERCEPTION DATA TRANSMISSION IN WIRELESS NETWORKS
(73) INTEL Corporation
(72) SASTRY, Manoj
JULIATO, Marcio
LESI, Vuk
GUTIERREZ, Christopher
VANNITHAMBY, Rath
SIVANESAN, Kathiravetpillai
GOMES BALTAR, Leonardo
AHMED, Shabbir
MUECK, Markus Dominik
YANG, Liuyang
SOMAYAZULU, Vallabhajosyula
WANG, Qian
(31) 202117483528
(32) 23.09.2021
(33) United States of America

(51) H04W 4/40
H04W 12/12
H04W 12/08
H04L 9/32
H04L 9/08
H04L 9/40
(11) EP4107927
(21) EP21796196.0
(47) 29.01.2025
(87) US2021029709
04.11.2021
(22) 28.04.2021
(54) METHOD AND SYSTEM FOR HANDLING DYNAMIC CYBERSECURITY POSTURE OF A V2X ENTITY
(73) BlackBerry Limited
(72) BARRETT, Stephen John
RUSSELL, Nicholas James
VANDERVEEN, Michaela
(31) 202016861936
(32) 29.04.2020
(33) United States of America

(51) H04W 4/40
H04W 72/40
H04L 1/1829
H04W 4/70
H04W 8/22
H04W 72/02
H04W 72/541
H04W 92/18
(11) EP4207893
(21) EP21870703.2
(47) 29.01.2025
(87) CN2021078178
31.03.2022
(22) 26.02.2021
(54) COMMUNICATION METHOD, APPARATUS AND COMPUTER-READABLE STORAGE MEDIUM FOR SELECTING RESOURCES
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) DING, Yi
ZHAO, Zhenshan
LIN, Huei-ming
ZHANG, Shichang
(31) PCT/CN2020/117868
(32) 25.09.2020
(33) World Intellectual Property Office (WIPO)

(51) H04W 4/44
H04W 12/06
H04W 76/00
(11) EP4222991
(21) EP21806492.1
(47) 29.01.2025
(87) US2021052958
07.04.2022
(22) 30.09.2021

(54) AUTHENTICATION AND AUTHORIZATION FOR AERIAL SYSTEM
(73) Ofinno, LLC
(72) PARK, Kyungmin
RYU, Jinsook
KIM, Taehun
DINAN, Esmael Hejazi
TALEBI FARD, Peyman
QIAO, Weihua
(31) 202063086801 P
(32) 02.10.2020
(33) United States of America
(51) H04W 4/80
(11) EP3864869
(21) EP19797887.7
(47) 29.01.2025
(87) US2019055722
16.04.2020
(22) 10.10.2019
(54) SYSTEM FOR TRANSMISSION OF SENSOR DATA
(73) Masimo Corporation
(72) KINAST, Eric Karl
PRIDDELL, Richard
SCRUGGS, Stephen
DE JONG, Chad A.
AL-ALI, Ammar
HWANG, Jung Soo
HANG, Steven
(31) 201862744988 P
(32) 12.10.2018
(33) United States of America
(51) H04W 4/80
H04W 88/02
G02B 27/01
G06F 3/14
G06T 1/20
G06T 15/00
G06T 19/00
G06F 3/01
G06F 3/048
G06F 3/147
G06F 16/587
G06F 16/909
G06F 1/16
A63F 13/327
A63F 13/355
A63F 13/60
A63F 13/25
(11) EP4090057
(21) EP21305670.8
(47) 29.01.2025
(22) 21.05.2021
(54) A SHARED MEMORY FOR IMPROVED DISPLAY BY A NEAR-EYE DISPLAY DEVICE
(73) Microoled
(72) CUBIZOLLE, Thomas
BONJOUR, Xavier
WINDIC, Matthieu
(31) 21305601
(32) 10.05.2021
(33) European Patent Office (EPO)
(51) H04W 8/02
H04W 48/10
H04W 60/00
(11) EP3920566
(21) EP20755434.6
(47) 29.01.2025
(87) CN2020074722
20.08.2020
(22) 11.02.2020
(54) COMMUNICATION METHOD, TERMINAL DEVICE AND CORE NETWORK DEVICE
(73) Huawei Technologies Co., Ltd.
(72) TAN, Wei
YANG, Shuigen
JIN, Yinghao
HAN, Feng
(31) 201910118823
(32) 15.02.2019
(33) China
(51) H04W 8/20
H04W 12/04
H04W 12/06
H04W 12/30
(11) EP4221286
(21) EP23157407.0
(47) 29.01.2025
(22) 07.11.2013
(54) SIM PROFILE BROKERING SYSTEM
(73) Sprint Communications Company L.P.
(72) Spanel, Robert
Urbanek, Robert
(31) 201313744861
(32) 18.01.2013
(33) United States of America
(51) H04W 8/24
H04W 36/12
H04W 8/06
(11) EP3958601
(21) EP21184198.6
(47) 29.01.2025
(22) 19.07.2018
(54) HANDOVER METHOD, DEVICE, AND SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) Zong, Zaifeng
(31) 201710953564
201710597349
(32) 13.10.2017
20.07.2017
(33) China
China
(51) H04W 12/04
H04W 36/00
H04W 12/041
H04W 12/043
H04W 36/08
(11) EP2912867
(21) EP12783558.5
(47) 29.01.2025
(87) EP2012071350
08.05.2014
(22) 29.10.2012
(54) METHODS, APPARATUSES AND COMPUTER PROGRAM PRODUCTS ENABLING TO IMPROVE HANDOVER SECURITY IN MOBILE COMMUNICATION NETWORKS
(73) Nokia Solutions and Networks Oy
(72) HORN, Guenther
EILTS, Hinrich
(51) H04W 12/04
H04W 36/00
H04W 36/18
H04W 36/12
H04W 88/16
H04W 60/04
H04W 36/32
(11) EP4319336
(21) EP23199302.3
(47) 29.01.2025
(22) 18.06.2020
(54) SERVICE CONTINUITY IMPLEMENTATION METHOD, RELATED APPARATUS, AND SYSTEM
(73) Huawei Technologies Co. Ltd.
(72) TAO, Zhenyu
JIANG, Chuankui
(31) 201910544804
(32) 21.06.2019
(33) China
(51) H04W 12/06
H04W 8/18
H04W 12/30
H04W 12/45
H04W 12/42
H04M 1/675
H04W 48/18
H04W 8/20
(11) EP3295690
(21) EP16793282.1
(47) 29.01.2025
(87) US2016031341
17.11.2016
(22) 06.05.2016
(54) VIRTUAL SUBSCRIBER IDENTITY MODULE FOR MOBILE COMMUNICATION DEVICE
(73) SIMO Holdings Inc.
(72) WANG, Chao
QIN, Xiaolei
REN, Wei
LIU, Jing
(31) 201562158984 P
(32) 08.05.2015
(33) United States of America
(51) H04W 12/122
G07C 5/08
H04L 41/0604
H04L 41/069
H04L 43/02
H04L 43/026
H04L 43/04
H04L 47/00
H04L 67/00
H04L 9/40
H04L 12/40
(11) EP4161004
(21) EP21811901.4
(47) 29.01.2025
(87) JP2021018960
02.12.2021
(22) 19.05.2021
(54) COMMUNICATION LOG AGGREGATION DEVICE AND COMMUNICATION LOG AGGREGATION METHOD
(73) Panasonic Intellectual Property Corporation of America
(72) HIRANO, Ryo

UJIIE, Yoshihiro
KISHIKAWA, Takeshi
(31) PCT/JP2020/020813
(32) 26.05.2020
(33) World Intellectual Property Office (WIPO)

(51) H04W 24/00
H04L 5/00
H04W 76/19
H04B 7/08
H04W 76/15
H04W 72/02
H04W 74/0833
(11) EP4228308
(21) EP22198147.5
(47) 29.01.2025
(22) 27.09.2022
(54) METHOD AND APPARATUS FOR RACH-LESS SCG-ACTIVATION IN A WIRELESS COMMUNICATION SYSTEM
(73) LG ELECTRONICS INC.
(72) JUNG, Sunghoon
KIM, Hongsuk
KIM, Myoungsoo
(31) 202263309644 P
(32) 13.02.2022
(33) United States of America

(51) H04W 24/02
(11) EP4074091
(21) EP20845191.4
(47) 29.01.2025
(87) FR2020052415
17.06.2021
(22) 14.12.2020
(54) SYNCHRONISED ADAPTATION OF A VIRTUAL SUBSET OF A NETWORK DEDICATED TO A SERVICE
(73) ORANGE
(72) JUMPERTZ, Sylvie
BENGUIGUI, Catherine
GUIONNET, Chantal
(31) 1914422
(32) 13.12.2019
(33) France

(51) H04W 24/04
H04W 24/08
H04W 88/18
(11) EP4106386
(21) EP21768264.0
(47) 29.01.2025
(87) KR2021002848
16.09.2021
(22) 08.03.2021
(54) METHOD AND DEVICE FOR MANAGING BASE STATION OF ELEMENT MANAGEMENT SYSTEM IN WIRELESS COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) PARK, Youngjun
(31) 20200031286
(32) 13.03.2020
(33) Korea (Republic)

(51) H04W 24/08
H04B 17/15
H04B 17/382
(11) EP4061047
(21) EP22161117.1
(47) 29.01.2025
(22) 09.03.2022
(54) MOBILE COMMUNICATIONS BASE STATION SITE SURVEY
(73) Bastille Networks, Inc.
(72) SEPULVEDA, Christian
BUI, Nicola
NAGRAJ, Rahul
(31) 202117200861
(32) 14.03.2021
(33) United States of America

(51) H04W 24/10
(11) EP4062665
(21) EP20816601.7
(47) 29.01.2025
(87) IB2020060830
27.05.2021
(22) 18.11.2020
(54) PREVENTING SIGNALING BASED MINIMIZATION OF DRIVE TEST CONFIGURATION OVERWRITE IN DUAL CONNECTIVITY
(73) Nokia Technologies Oy
(72) TOMALA, Malgorzata
HELMERS, Hakon
(31) 201962936903 P
(32) 18.11.2019
(33) United States of America

(51) H04W 24/10
H04W 8/22
H04W 36/00
H04W 52/02
H04W 76/16
H04W 76/19
H04W 76/15
H04W 76/36
H04W 88/06
(11) EP3932107
(21) EP20795115.3
(47) 29.01.2025
(87) KR2020005499
29.10.2020
(22) 27.04.2020
(54) METHOD AND SYSTEM FOR MANAGING NEW RADIO (NR) COMMUNICATION IN AN ELECTRONIC DEVICE
(73) Samsung Electronics Co., Ltd.
(72) SHAH, Nitesh Pushpak
JANGID, Alok Kumar
JHA, Kailash Kumar
Nishant
GOEL, Mudit
(31) 201941016441
201941024163
201941016441
(32) 17.04.2020
18.06.2019
25.04.2019
(33) India
India
India

(51) H04W 28/14
H04W 28/06
H04W 28/02
H04W 72/12
H04W 88/18
H04L 67/568
H04L 45/302
H04W 88/04
(11) EP3861789
(21) EP19868375.7
(47) 29.01.2025
(87) KR2019013130
09.04.2020
(22) 07.10.2019
(54) METHOD AND SYSTEM FOR ENABLING DISTRIBUTED CACHING IN WIRELESS NETWORK
(73) Samsung Electronics Co., Ltd.
(72) SHRIVASTAVA, Vinay Kumar
RAJ, Rohan
SHARMA, Diwakar
(31) 201841037871
(32) 05.10.2018
(33) India

(51) H04W 28/16
H04W 72/04
(11) EP4275387
(21) EP21836524.5
(47) 29.01.2025
(87) EP2021085666
14.07.2022
(22) 14.12.2021
(54) METHOD AND GATEWAY FOR OPTIMISED ALLOCATION OF STATIONS USING AN 802.11AX STANDARD
(73) Softathome
(72) FERABOLI, Quentin
(31) 2100150
(32) 08.01.2021
(33) France

(51) H04W 36/00
H04W 36/36
H04W 88/06
(11) EP4255022
(21) EP23180528.4
(47) 29.01.2025
(22) 02.03.2021
(54) MASTER NODE, SECONDARY NODE, USER EQUIPMENT, AND METHODS PERFORMED IN A COMMUNICATION NETWORK
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) Eklöf, Cecilia
Da Silva, Icaro Leonardo
(31) 202062986798 P
(32) 09.03.2020
(33) United States of America

(51) H04W 36/00
H04W 76/19
(11) EP3790354
(21) EP18920117.1
(47) 29.01.2025
(87) CN2018088239
28.11.2019
(22) 24.05.2018
(54) INFORMATION ACQUISITION METHOD AND DEVICE
(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) ZHAO, Weixing
WANG, Yan

(51) H04W 36/02
H04W 36/00
H04W 88/08
H04W 36/08
(11) EP4265003

(21) EP21798668.6
(47) 29.01.2025
(87) EP2021079356
23.06.2022
(22) 22.10.2021
(54) HANDOVER
(73) Nokia Solutions and Networks Oy
(72) LANDAIS, Bruno
CHANDRASHEKAR, Subramanya
KRISHNAMURTHY, Raghuram Reddy
PUGEAT, Jean-Michel
(31) 20206322
(32) 17.12.2020
(33) Finland

(51) H04W 36/08
H04W 28/18
H04B 10/27
H04W 8/06
(11) EP4040854
(21) EP20871860.1
(47) 29.01.2025
(87) JP2020034028
08.04.2021
(22) 09.09.2020
(54) TERMINAL DEVICE PERFORMING CONDITIONAL HANDOVER, BASE STATION DEVICE, CONTROL METHOD, AND PROGRAM
(73) KDDI Corporation
(72) TAKEDA, Hiroki
(31) 2019183267
(32) 03.10.2019
(33) Japan

(51) H04W 40/02
(11) EP4154602
(21) EP21732690.9
(47) 29.01.2025
(87) US2021033179
25.11.2021
(22) 19.05.2021
(54) SIDELINK ADAPTATION PROTOCOL FOR REMOTE UE CONNECTIVITY
(73) InterDigital Patent Holdings, Inc.
(72) DI GIROLAMO, Rocco
CHEN, Zhuo
PAN, Kyle
MURRAY, Joseph
ZHANG, Guodong
ADJAKPLE, Pascal
(31) 202063094485 P
202063026904 P
(32) 21.10.2020
19.05.2020
(33) United States of America
United States of America

(51) H04W 40/20
H04W 28/16
H04W 40/24
H04W 72/04
H04W 84/18
(11) EP4079044
(21) EP20821322.3
(47) 29.01.2025
(87) EP2020086524
24.06.2021
(22) 16.12.2020
(54) METHOD AND DEVICE FOR ROUTING AND FOR GENERATING A ROUTING TABLE
(73) Safran Electronics & Defense
(72) CHIODINI, Alain
(31) 1915274
(32) 20.12.2019
(33) France

(51) H04W 40/22
H04W 84/18
H04W 88/04
H04W 88/06
H04W 92/04
H04W 92/10
(11) EP4199594
(21) EP22213212.8
(47) 29.01.2025
(22) 13.12.2022
(54) METHOD AND APPARATUS FOR SELECTING A NODE IN A LOCAL AREA NETWORK
(73) Sagemcom Broadband SAS
(72) LALAM, Massinissa
NGUYEN DINH HIEN, Mickaël Thien Bao
(31) 2113572
(32) 15.12.2021
(33) France

(51) H04W 48/00
H04W 48/18
(11) EP3698576
(21) EP18796549.6
(47) 29.01.2025
(87) US2018055571
25.04.2019
(22) 12.10.2018
(54) CONNECTION GATEWAY SELECTION IN A MOBILE COMMUNICATIONS DEVICE
(73) Qualcomm Incorporated
(72) ZISIMOPOULOS, Haris
ZHAO, Suli
FACCIN, Stefano
(31) 201816157973
201762573074 P
(32) 11.10.2018
16.10.2017
(33) United States of America
United States of America

(51) H04W 48/10
H04W 72/04
H04W 48/12
H04W 68/02
(11) EP3627902
(21) EP18910802.0
(47) 29.01.2025
(87) CN2018079638
26.09.2019
(22) 20.03.2018
(54) METHOD FOR PAGING, NETWORK DEVICE, AND TERMINAL DEVICE
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) YANG, Ning

(51) H04W 48/12
(11) EP4133797
(21) EP21723969.8
(47) 29.01.2025
(87) EP2021061825
11.11.2021
(22) 05.05.2021
(54) METHOD OF PROVIDING ACCESS FOR REDUCED CAPABILITY DEVICES, AND USER EQUIPMENT THEREOF
(73) Nokia Technologies Oy
(72) KAIKKONEN, Jorma Johannes
KOSKINEN, Jussi-Pekka
TURTINEN, Samuli Heikki
(31) 202063021819 P
(32) 08.05.2020
(33) United States of America

(51) H04W 48/18
H04W 28/02
H04W 36/00
(11) EP4236452
(21) EP20958340.0
(47) 29.01.2025
(87) CN2020123360
28.04.2022
(22) 23.10.2020
(54) METHOD AND APPARATUS FOR USING SLICING INFORMATION
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) FU, Zhe

(51) H04W 48/18
H04W 64/00
(11) EP4391654
(21) EP22214675.5
(47) 29.01.2025
(22) 19.12.2022
(54) METHOD FOR PROVIDING COMMUNICATION SERVICES TO A USER EQUIPMENT USING AN ACCESS NETWORK OF A MOBILE COMMUNICATION NETWORK, USER EQUIPMENT, SYSTEM, PROGRAM AND COMPUTER-READABLE MEDIUM
(73) Deutsche Telekom AG
(72) KLATT, Axel

(51) H04W 52/02
H04W 76/28
H04W 76/27
H04W 72/04
H04L 1/1867
H04W 72/21
(11) EP4147494
(21) EP21724075.3
(47) 29.01.2025
(87) US2021026958
11.11.2021
(22) 13.04.2021
(54) USER EQUIPMENT (UE)-INITIATED DISCONTINUOUS RECEPTION (DRX) MEDIUM ACCESS CONTROL (MAC) CONTROL ELEMENT (MAC-CE)
(73) QUALCOMM INCORPORATED
(72) HE, Linhai
(31) 202117228296
202063021796 P
(32) 12.04.2021
08.05.2020
(33) United States of America
United States of America

(51) H04W 52/24
H04W 52/34

(11) EP3530040
(21) EP17795099.5
(47) 29.01.2025
(87) US2017056151
26.04.2018
(22) 11.10.2017
(54) SYSTEM AND METHOD TO FACILITATE POWER DOMAIN INTERFERENCE COORDINATION IN A NETWORK ENVIRONMENT
(73) Cisco Technology, Inc.
(72) JHA, Vivek
(31) 201615296943
(32) 18.10.2016
(33) United States of America

(51) H04W 64/00
H04W 76/28
H04L 5/00
H04W 52/02
(11) EP4014608
(21) EP20733128.1
(47) 29.01.2025
(87) US2020034718
18.02.2021
(22) 27.05.2020
(54) INTERACTION OF DISCONTINUOUS RECEPTION (DRX) WITH POSITIONING REFERENCE SIGNAL (PRS) RESOURCES
(73) QUALCOMM INCORPORATED
(72) OPSHAUG, Guttorm Ringstad
FISCHER, Sven
MANOLAKOS, Alexandros
AKKARAKARAN, Sony
(31) 20190100348
202016795399
(32) 12.08.2019
19.02.2020
(33) Greece
United States of America

(51) H04W 68/12
H04W 8/22
H04W 36/14
H04W 48/18
H04W 68/02
(11) EP3668207
(21) EP17920929.1
(47) 29.01.2025
(87) JP2017029416
14.02.2019
(22) 15.08.2017
(54) RADIO BASE STATION AND RADIO COMMUNICATION METHOD
(73) NTT DOCOMO, INC.
(72) MATSUKAWA, Ryusuke
AOYAGI, Kenichiro
HAPSARI, Wuri Andarmawanti
ZAKI, Zahid
TANIGUCHI, Masato
(31) 2017154773
(32) 09.08.2017
(33) Japan

(51) H04W 72/02
H04W 74/0808
(11) EP4289198
(21) EP21841109.8
(47) 29.01.2025
(87) US2021063373
11.08.2022
(22) 14.12.2021
(54) USER EQUIPMENT AUTONOMOUS RESOURCE SELECTION
(73) QUALCOMM INCORPORATED
(72) PARK, Cheol Hee
UZIEL, Lior
(31) 202117165804
(32) 02.02.2021
(33) United States of America

(51) H04W 72/04
(11) EP3930399
(21) EP20795816.6
(47) 29.01.2025
(87) CN2020085227
29.10.2020
(22) 17.04.2020
(54) INFORMATION TRANSMISSION METHOD AND DEVICE
(73) Huawei Technologies Co., Ltd.
(72) WANG, Jian
KUANG, Yiru
XU, Haibo
YAO, Chuting
(31) 201910330949
(32) 23.04.2019
(33) China

(51) H04W 72/04
(11) EP3893578
(21) EP21177214.0
(47) 29.01.2025
(22) 13.02.2018
(54) AGGREGATION METHODS, GNODEBS, USER EQUIPMENTS AND STORAGE MEDIUM
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) XU, Hua
(31) 201762471002 P
(32) 14.03.2017
(33) United States of America

(51) H04W 72/04
H04L 5/00
(11) EP4044727
(21) EP20881856.7
(47) 29.01.2025
(87) KR2020015050
06.05.2021
(22) 30.10.2020
(54) METHOD AND APPARATUS FOR CONFIGURING BANDWIDTH PART IN WIRELESS COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) KIM, Youngbum
JI, Hyoungju
CHOI, Seunghoon
KANG, Jinkyu
KIM, Younsun
KIM, Taehyoung
(31) 20190138777
(32) 01.11.2019
(33) Korea (Republic)

(51) H04W 72/04
H04L 5/00
(11) EP4017185
(21) EP20923464.0
(47) 29.01.2025
(87) CN2020078313
10.09.2021
(22) 06.03.2020
(54) RESOURCE INDICATION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) XU, Jing
FU, Zhe
LIN, Yanan

(51) H04W 72/04
H04L 5/00
H04L 27/26
(11) EP3750362
(21) EP19751461.5
(47) 29.01.2025
(87) CN2019074729
15.08.2019
(22) 06.02.2019
(54) CONFIGURATION OF NON-ORTHOGONAL DMRS FOR UPLINK TRANSMISSION
(73) QUALCOMM Incorporated
(72) WEI, Chao
LI, Qiaoyu
CHENG, Peng
(31) PCT/CN2018/075955
(32) 09.02.2018
(33) World Intellectual Property Office (WIPO)

(51) H04W 72/12
H04W 74/0808
H04W 52/02
(11) EP3253158
(21) EP15879728.2
(47) 29.01.2025
(87) CN2015097033
04.08.2016
(22) 10.12.2015
(54) DATA TRANSMISSION METHOD AND DEVICE, BASE STATION AND USER EQUIPMENT
(73) ZTE Corporation
(72) GOU, Wei
PENG, Focai
BI, Feng
LI, Xincai
YANG, Ling
(31) 201510054861
(32) 30.01.2015
(33) China

(51) H04W 72/1268
H04L 1/1607
H04L 1/1867
H04L 5/00
(11) EP3847846
(21) EP19857332.1
(47) 29.01.2025
(87) CA2019051228
12.03.2020
(22) 03.09.2019
(54) METHODS AND APPARATUSES FOR SMALL DATA TRANSMISSIONS
(73) Sierra Wireless, ULC
(72) VOS, Gustav Gerald
BENNETT, Steven John
DOST, Recep Serkan
(31) 201862728571 P
(32) 07.09.2018

(33) United States of America

(51) H04W 72/21
H04W 72/12
(11) EP3777416
(21) EP18913660.9
(47) 29.01.2025
(87) CN2018081993
10.10.2019
(22) 04.04.2018
(54) BUFFER STATUS REPORT FOR PACKET DUPLICATION
(73) Lenovo (Beijing) Limited
(72) WU, Lianhai
HAN, Jing
YU, Xiaodong
WANG, Haiming

(51) H04W 72/23
H04W 76/00
H04W 68/00
(11) EP4171162
(21) EP20955794.1
(47) 29.01.2025
(87) CN2020119675
07.04.2022
(22) 30.09.2020
(54) DATA TRANSMISSION METHOD AND TERMINAL DEVICE
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) SHI, Cong
LIN, Xue
LI, Haitao

(51) H04W 72/54
H04W 72/23
H04W 72/51
(11) EP3706494
(21) EP20170843.5
(47) 29.01.2025
(22) 30.04.2012
(54) APPARATUS AND METHOD OF RESOURCE ALLOCATION FOR DATA AND CONTROL CHANNELS IN A WIRELESS COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) KIM, Youn Sun
Clerckx, Bruno
KIM, Young Bum
SHAN, Cheng
(31) 201161480809 P
(32) 29.04.2011
(33) United States of America

(51) H04W 74/02
H04W 74/0833
(11) EP3714656
(21) EP17932902.4
(47) 29.01.2025
(87) CN2017112328
31.05.2019
(22) 22.11.2017
(54) CO-EXISTENCE OF DIFFERENT RANDOM ACCESS RESOURCES AND ASSOCIATIONS
(73) ZTE Corporation
(72) ZHANG, Junfeng
SVEDMAN, Patrick
HAO, Peng

(51) H04W 74/08
H04W 28/02
H04W 84/12
H04W 80/02
(11) EP4013179
(21) EP22152570.2
(47) 29.01.2025
(22) 07.09.2017
(54) WIRELESS COMMUNICATION METHOD USING ENHANCED DISTRIBUTED CHANNEL ACCESS, AND WIRELESS COMMUNICATION TERMINAL USING SAME
(73) Wilus Institute of Standards and Technology Inc.
SK Telecom Co., Ltd.
(72) AHN, Woojin
KWAK, Jinsam
KO, Geonjung
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
H04W 74/0833
(11) EP3780870
(21) EP20190894.4
(47) 29.01.2025
(22) 13.08.2020
(54) DOWNLINK RADIO RESOURCE CONTROL MESSAGE TRANSMISSION IN 2-STEP RANDOM ACCESS
(73) Apple Inc.
(72) CHEN, Yuqin
SUN, Haitong
HU, Haijing
XU, Fangli
ZHANG, Dawei
ZENG, Wei
(31) 201910745594
202016885937
(32) 13.08.2019
28.05.2020
(33) China
United States of America

(51) H04W 74/0816
H04W 56/00
H04W 74/08
(11) EP3837914
(21) EP19759799.0
(47) 29.01.2025
(87) US2019046135
20.02.2020
(22) 12.08.2019
(54) FLEXIBLE SYNCHRONOUS AND ASYNCHRONOUS ACCESS PROCEDURE
(73) QUALCOMM INCORPORATED
(72) FERRARI, Lorenzo
DAMNJANOVIC, Aleksandar
XUE, Yisheng
(31) 201916537343
201862718657 P
(32) 09.08.2019
14.08.2018
(33) United States of America
United States of America

(51) H04W 74/0833
(11) EP4061086
(21) EP22165948.5
(47) 29.01.2025
(22) 08.09.2017
(54) WIRELESS COMMUNICATION METHOD, NETWORK DEVICE AND TERMINAL DEVICE
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) ZHANG, Zhi
CHEN, Wenhong

(51) H04W 74/0833
H04W 76/27
(11) EP4477020
(21) EP23711214.9
(47) 29.01.2025
(87) US2023012786
17.08.2023
(22) 10.02.2023
(54) SMALL DATA TRANSMISSION TIMER
(73) Ofinno, LLC
(72) JEON, Hyoungsuk
PARK, Kyungmin
DINAN, Esmael Hejazi
KIM, Taehun
(31) 202263308929 P
(32) 10.02.2022
(33) United States of America

(51) H04W 76/10
H04W 52/24
H04W 72/21
H04W 8/24
H04W 52/36
H04W 88/08
(11) EP4120786
(21) EP20929115.2
(47) 29.01.2025
(87) CN2020082542
07.10.2021
(22) 31.03.2020
(54) INFORMATION INDICATION METHOD AND APPARATUS, AND DEVICE AND STORAGE MEDIUM
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) XING, Jinqiang

(51) H04W 76/15
H04W 76/14
(11) EP4218353
(21) EP21783651.9
(47) 29.01.2025

(87) US2021049268
31.03.2022
(22) 07.09.2021
(54) COOPERATIVE RELAY IN SIDELINK NETWORKS
(73) Qualcomm Incorporated
(72) AKTAS, Tugcan
MUKKAVILLI, Krishna Kiran
KWON, Hwan Joon
JI, Tingfang
HUANG, Yi
HOSSEINI, Seyedkianoush
YANG, Wei
(31) 202117304796
202063083047 P
(32) 25.06.2021
24.09.2020
(33) United States of America
United States of America

(51) H04W 76/15
H04W 88/08
H04W 84/00
H04W 36/08
H04W 76/14
(11) EP3860301
(21) EP19864859.4
(47) 29.01.2025
(87) CN2019101316
02.04.2020
(22) 19.08.2019
(54) METHODS AND APPARATUSES FOR MANAGING LINK CONNECTION BETWEEN NODES, AND RELATED DEVICE
(73) ZTE Corporation
(72) YANG, Li
DOU, Jianwu
SHI, Xiaojuan
HUANG, He
GAO, Yuan
(31) 201811142058
(32) 28.09.2018
(33) China

(51) H04W 76/19
(11) EP3817501
(21) EP19800601.7
(47) 29.01.2025
(87) CN2019085832
14.11.2019
(22) 07.05.2019
(54) CONTROL METHOD IN USER EQUIPMENT, AND USER EQUIPMENT
(73) Sharp Kabushiki Kaisha
(72) LIU, Renmao
CHANG, Ningjuan
(31) 201810440467
(32) 09.05.2018
(33) China

(51) H04W 76/27
H04W 76/30
H04W 80/02
H04W 88/08
(11) EP4178311
(21) EP21849926.7
(47) 29.01.2025
(87) CN2021109710
03.02.2022
(22) 30.07.2021
(54) DATA TRANSMISSION METHODS AND NETWORK SIDE DEVICES
(73) CHINA MOBILE COMMUNICATIONS GROUP CO., LTD.
CHINA MOBILE COMMUNICATION CO., LTD. RESEARCH INSTITUTE
(72) HAN, Xingyu
LIU, Liang
HU, Nan
CHEN, Ningyu
(31) 202010757105
(32) 31.07.2020
(33) China

(51) H04W 76/28
H04W 76/14
H04W 76/23
H04W 92/18
H04W 72/02
(11) EP4256898
(21) EP21824065.3
(47) 29.01.2025
(87) IB2021061380
09.06.2022
(22) 06.12.2021
(54) DISCONTINUOUS RECEPTION CONFIGURATION FOR SIDELINK COMMUNICATION
(73) Lenovo (Singapore) Pte. Ltd.
(72) BASU MALLICK, Prateek
KUCHIBHOTLA, Ravi
GANESAN, Karthikeyan
LOEHR, Joachim
(31) 202063121717 P
(32) 04.12.2020
(33) United States of America

(51) H04W 76/28
H04W 76/23
(11) EP4186329
(21) EP21941047.9
(47) 29.01.2025
(87) CN2021092351
17.11.2022
(22) 08.05.2021
(54) METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR CONFIGURING SIDELINK DRX
(73) ZTE Corporation
(72) LUO, Wei
DU, Weiqiang
CHEN, Lin

(51) H04W 84/00
H04L 47/20
H04L 47/2441
H04W 28/02
(11) EP4199642
(21) EP22213703.6
(47) 29.01.2025
(22) 15.12.2022
(54) WIRELESS COMMUNICATION SYSTEM FOR MOVING VEHICLES, SUCH AS TRAINS, WITH IMPROVED PRIORITIZATION
(73) ICOMERA AB
(72) KARLSSON, Mats
REINHAGEN, Rikard
(31) 2151550
(32) 17.12.2021
(33) Sweden

(51) H04W 88/06
H04W 60/00
H04W 8/18
H04W 68/00
(11) EP4271064
(21) EP23187112.0
(47) 29.01.2025
(22) 04.11.2019
(54) SERVICE PRIORITIZATION WHEN PAGING A MULTI-SIM DEVICE
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) XU, Yang
WANG, Shukun
LIU, Jianhua
YANG, NinG
(31) PCT/CN2019/088434
(32) 24.05.2019
(33) World Intellectual Property Office (WIPO)

(51) H04W 88/06
H04W 88/04
H04W 76/15
H04W 76/14
H04W 8/00
H04W 4/70
H04L 12/12
H04W 48/16
H04W 76/23
H04W 84/12
(11) EP4175407
(21) EP21895068.1
(47) 29.01.2025
(87) KR2021016778
27.05.2022
(22) 16.11.2021
(54) ELECTRONIC DEVICE AND OPERATION METHOD THEREFOR
(73) Samsung Electronics Co., Ltd.
(72) KIM, Minji
LEE, Minju
SIM, Jaejun
KIM, Jinho
YU, Geunyoung
(31) 20200154544
(32) 18.11.2020
(33) Korea (Republic)

(51) H04W 88/08
B64C 39/02
B64F 1/36
H04W 4/30
H04W 84/06
(11) EP4271125
(21) EP21910539.2
(47) 29.01.2025
(87) JP2021046359
30.06.2022
(22) 15.12.2021
(54) FLIGHT VEHICLE, COMMUNICATION MANAGEMENT SYSTEM, CONTROL SYSTEM, AND CONTROL METHOD
(73) SoftBank Corp.
(72) TAKAHASHI Makoto
(31) 2020215886
(32) 24.12.2020
(33) Japan

(51) H05B 3/34
H05B 3/12
H05B 3/16

(11) EP4282225
(21) EP22712562.2
(47) 29.01.2025
(87) EP2022056076
22.09.2022
(22) 09.03.2022
(54) PLANAR HEATING ELEMENT AND MANUFACTURE METHOD THEREOF
(73) Infinite Flex GmbH
(72) BISGES, Michael
HENZE, Enno Klaus
KORNHERR, Andreas
HÜTTENBRENNER, Severin
(31) 102021106217
(32) 15.03.2021
(33) Germany

(51) H05B 3/42
F24H 3/04
F24H 9/00
F24H 9/1863
F24H 9/20
(11) EP4038324
(21) EP20893211.1
(47) 29.01.2025
(87) SE2020000024
03.06.2021
(22) 01.10.2020
(54) AN ELECTRIC GAS HEATER DEVICE AND A SYSTEM OF ELECTRIC GAS HEATER DEVICES
(73) Kanthal AB
(72) BERGLUND, Roger
(31) 1900157
(32) 01.10.2019
(33) Sweden

(51) H05B 3/48
G01K 7/02
G01K 7/08
(11) EP4133904
(21) EP21720934.5
(47) 29.01.2025
(87) US2021025809
14.10.2021
(22) 05.04.2021
(54) MODULAR HEATER ASSEMBLY WITH INTERCHANGEABLE AUXILIARY SENSING JUNCTIONS
(73) Watlow Electric Manufacturing Company
(72) ELLIS, Eric
OHSE, Jeremy
SCHAEFER, Douglas
(31) 202016840766
(32) 06.04.2020
(33) United States of America

(51) H05B 45/20
H05B 47/155
(11) EP4322710
(21) EP23189631.7
(47) 29.01.2025
(22) 04.08.2023
(54) LIGHTING COLOR-ADJUSTMENT CONTROL METHOD, DEVICE, PRODUCT, AND LAMP
(73) Shenzhen Intellirocks Tech. Co., Ltd.
(72) WU, Wenlong
HU, Weili
(31) 202210945025
(32) 08.08.2022
(33) China

(51) H05B 45/325
H05B 47/19
H05B 45/10
(11) EP4072246
(21) EP21166894.2
(47) 29.01.2025
(22) 06.04.2021
(54) OPERATING DEVICE FOR LIGHTING MEANS
(73) Tridonic GmbH & Co. KG
(72) Nesensohn, Christian

(51) H05B 45/52
H05B 45/46
(11) EP3900493
(21) EP19836324.4
(47) 29.01.2025
(87) US2019065921
25.06.2020
(22) 12.12.2019
(54) METHOD FOR LED FAULT DETECTION AND MECHANISM HAVING LED FAULT DETECTION
(73) MTD PRODUCTS INC.
(72) BLANCHARD, Edward John
(31) 201862781279 P
(32) 18.12.2018
(33) United States of America

(51) H05B 47/105
(11) EP4149212
(21) EP22186610.6
(47) 29.01.2025
(22) 20.10.2017
(54) CONTROLLING GROUPS OF ELECTRICAL LOADS
(73) Lutron Technology Company LLC
(72) NEWMAN, Robert C.
OLSON, Thomas Lee
MANN, Timothy
SHI, Shan
SHUKLA, Jaykrishna A.
(31) 201662438003 P
201662411286 P
(32) 22.12.2016
21.10.2016
(33) United States of America
United States of America

(51) H05B 47/105
G08B 7/06
G09F 13/18
F21S 9/02
H05B 47/17
G09F 7/00
G09F 13/04
(11) EP4116950
(21) EP21184422.0
(47) 29.01.2025
(22) 08.07.2021
(54) AN EMERGENCY LUMINAIRE AND METHOD FOR CONTROLLING LIGHT EMISSION OF AN EMERGENCY LUMINAIRE
(73) Zumtobel Lighting GmbH
(72) Mayr, Gregor

(51) H05B 47/11
H05B 47/19
(11) EP4188039
(21) EP22209513.5
(47) 29.01.2025
(22) 25.11.2022
(54) A MANAGEMENT SYSTEM AND A METHOD FOR CONTROLLING LUMINAIRES
(73) Helvar Oy Ab
(72) JUSLÉN, Henri
(31) 20216227
(32) 30.11.2021
(33) Finland

(51) H05B 47/17
H02J 9/00
(11) EP4271140
(21) EP22170759.9
(47) 29.01.2025
(22) 29.04.2022
(54) EMERGENCY DRIVER FOR AN EMERGENCY LUMINAIRE
(73) Tridonic GmbH & Co. KG
(72) Stevens, Frederick

(51) H05B 47/19
(11) EP4224996
(21) EP22154661.7
(47) 29.01.2025
(22) 02.02.2022
(54) MULTIPROTOCOL WIRELESS LIGHTING DEVICE
(73) Tridonic GmbH & Co KG
(72) Simma, Lukas
Wohlgenannt, Rochus
Linder, Norbert
Lochmann, Frank
Becker, Markus

(51) H05G 1/26
H01J 35/20
H05G 1/54
(11) EP3934388
(21) EP19918268.4
(47) 29.01.2025
(87) JP2019008089
10.09.2020
(22) 01.03.2019
(54) X-RAY GENERATING DEVICE, AND DIAGNOSTIC DEVICE AND DIAGNOSTIC METHOD THEREFOR
(73) SHIMADZU CORPORATION
(72) SAITO, Yuta
NAKAMURA, Kenichiro
AKIYAMA, Goshi
OHASHI, Tsunehisa

(51) H05K 1/02
A61B 1/04
(11) EP3340751
(21) EP18150488.7
(47) 29.01.2025
(22) 22.12.2017
(54) TRIPLE AXIS SENSOR ON A SINGLE LAYER PRINTED CIRCUIT
(73) Biosense Webster (Israel) Ltd.
(72) GOVARI, Assaf
(31) 201615390388
(32) 23.12.2016
(33) United States of America

(51) H05K 1/09
H05K 3/12
H01B 1/20

H01B 1/22
H01B 1/24
(11) EP4364536
(21) EP21790901.9
(47) 29.01.2025
(87) EP2021078319
20.04.2023
(22) 13.10.2021
(54) ELECTRICALLY CONDUCTIVE ELASTOMER PRINTING INK FOR CONTACTLESS PRINTING PROCESSES
(73) Wacker Chemie AG
(72) SURARU, Sabin-Lucian
KÖLLNBERGER, Andreas

(51) H05K 1/11
H01R 12/72
(11) EP3675606
(21) EP19219734.1
(47) 29.01.2025
(22) 26.12.2019
(54) PRINTED CIRCUIT BOARD MAKING IT POSSIBLE TO HAVE A QSFP CONNECTOR IN BELLY-TO-BELLY WITH A QSFP-DD CONNECTOR AND ASSOCIATED SYSTEM
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
Bull SAS
(72) HASSOUNE, Ilham
GUILBAULT, Pascal
PIVETTE, Antoine
(31) 1903603
1874225
(32) 04.04.2019
27.12.2018
(33) France
France

(51) H05K 3/36
H05K 7/14
(11) EP4324308
(21) EP22789276.7
(47) 29.01.2025
(87) FR2022051772
30.03.2023
(22) 21.09.2022
(54) ELECTRONIC CONNECTORS FOR USE ON BOARD A SPACECRAFT
(73) Airbus Defence and Space SAS
(72) COUTANCE, Clément
GUEDON, Florent
AUDIN, Lionel
MILLE-CHARNAY, Théo
GALIANA, Denis
(31) 2110034
(32) 23.09.2021
(33) France

(51) H05K 5/00
H05K 5/06
H05K 5/04
(11) EP3915346
(21) EP20713594.8
(47) 29.01.2025
(87) EP2020057857
08.10.2020
(22) 20.03.2020
(54) TRANSMITTER HOUSING
(73) Haug, Thomas
(72) Haug, Thomas
(31) 202019101972 U
(32) 05.04.2019
(33) Germany

(51) H05K 5/06
H05K 7/20
(11) EP4013199
(21) EP21212431.7
(47) 29.01.2025
(22) 06.12.2021
(54) AIR-POCKET PREVENTION PCB, AIR-POCKET PREVENTION PCB MODULE, ELECTRICAL DEVICE INCLUDING THE SAME, AND MANUFACTURING METHOD OF ELECTRICAL DEVICE INCLUDING THE SAME
(73) SOLUM CO., LTD.
(72) LEE, Jun Kyu
RYU, Dong Kyun
KIM, Su Young
JI, Sang Keun
KANG, Yong Woo
HAN, Jeong Man
(31) 20200171228
(32) 09.12.2020
(33) Korea (Republic)

(51) H05K 7/20
H05K 9/00
G06F 1/20
(11) EP4203638
(21) EP22856865.5
(47) 29.01.2025
(87) CN2022113558
19.05.2023
(22) 19.08.2022
(54) ELECTRONIC DEVICE
(73) Honor Device Co., Ltd.
(72) LI, Fenying
QIAO, Yandang
DONG, Shaohong
ZHANG, Hong
(31) 202111328232
(32) 10.11.2021
(33) China

(51) H05K 13/08
H05K 13/02
(11) EP3917303
(21) EP19911857.1
(47) 29.01.2025
(87) JP2019001875
30.07.2020
(22) 22.01.2019
(54) COMPONENT MOUNTING MACHINE
(73) Fuji Corporation
(72) YAMAKAGE, Yusuke
KAWAI, Hidetoshi

(51) H10B 41/27
H10B 43/27
H10B 41/50
H10B 43/50
(11) EP3853899
(21) EP19913904.9
(47) 29.01.2025
(87) CN2019074073
06.08.2020
(22) 31.01.2019
(54) STAIRCASE FORMATION IN THREE-DIMENSIONAL MEMORY DEVICE
(73) Yangtze Memory Technologies Co., Ltd.
(72) ZHOU, Yu Ting

(51) H10B 43/10
H10B 43/27
H10B 43/40
H10B 43/50
(11) EP4294148
(21) EP23174958.1
(47) 29.01.2025
(22) 23.05.2023
(54) SEMICONDUCTOR DEVICES AND DATA STORAGE SYSTEMS INCLUDING THE SAME
(73) Samsung Electronics Co., Ltd.
(72) LEE, Sooyong
(31) 20220068905
(32) 07.06.2022
(33) Korea (Republic)

(51) H10B 63/00
H01L 27/102
H10B 61/00
H10N 70/20
(11) EP4373236
(21) EP23197829.7
(47) 29.01.2025
(22) 18.09.2023
(54) ARRAY ARRANGEMENTS OF VERTICAL BIPOLAR JUNCTION TRANSISTORS
(73) GlobalFoundries U.S. Inc.
(72) YU, Hong
PEKARIK, John J.
DERRICKSON, Alexander
GOPINATH, Venkatesh
JAIN, Vibhor
(31) 202217990800
(32) 21.11.2022
(33) United States of America

(51) H10K 30/88
H10K 77/10
B32B 38/18
B29C 63/02
(11) EP3014673
(21) EP14818521.8
(47) 29.01.2025
(87) US2014044655
31.12.2014
(22) 27.06.2014
(54) PREPARATION AND COATING OF THREE-DIMENSIONAL OBJECTS WITH ORGANIC OPTOELECTRONIC DEVICES INCLUDING ELECTRICITY-GENERATING ORGANIC PHOTOVOLTAIC FILMS USING THIN FLEXIBLE SUBSTRATES WITH PRESSURE-SENSITIVE ADHESIVES
(73) SolarWindow Technologies, Inc.
(72) THOMPSON, J., Patrick
HAMMOND, Scott, Ryan
CONKLIN, John, Anthony
(31) 201361842803 P
201361842796 P
201361842375 P
201361842372 P
201361842365 P
201361842357 P
201361842355 P
201361841251 P

201361841247 P
201361841248 P
201361841244 P
201361841243 P
(32) 03.07.2013
03.07.2013
02.07.2013
02.07.2013
02.07.2013
02.07.2013
02.07.2013
28.06.2013
28.06.2013
28.06.2013
28.06.2013
28.06.2013
(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

(51) H10K 50/11
H10K 50/13
H10K 50/15
H10K 50/16
H10K 59/35
H10K 85/60
(11) EP3651224
(21) EP19203711.7
(47) 29.01.2025
(22) 16.10.2019
(54) ORGANIC ELECTROLUMINESCENCE DEVICE
(73) Samsung Display Co., Ltd.
(72) LIM, Jin-O
KHO, Samil
YANG, Seunggak
(31) 20180137571
(32) 09.11.2018
(33) Korea (Republic)

(51) H10K 50/11
H10K 85/60
C07C 211/00
C09K 11/06
(11) EP4258372
(21) EP22784927.0
(47) 29.01.2025
(87) KR2022004903
13.10.2022
(22) 05.04.2022
(54) ORGANIC LIGHT EMITTING DEVICE
(73) Lg Chem, Ltd.
(72) KIM, Minjun
KIM, Young Seok
LEE, Dong Hoon
SUH, Sang Duk
(31) 20210044140
(32) 05.04.2021
(33) Korea (Republic)

(51) H10K 59/131
H01L 25/16
H10K 59/121
H01L 25/075
H01L 33/52
H01L 33/58
H01L 33/62
H01L 27/12
(11) EP3675178
(21) EP19216554.6
(47) 29.01.2025
(22) 16.12.2019
(54) DISPLAY DEVICE
(73) LG Display Co., Ltd.
(72) JEON, YoungHo
KIM, KyungChan
KANG, Mingyu
(31) 20190140778
20180171062
(32) 06.11.2019
27.12.2018
(33) Korea (Republic)
Korea (Republic)

(51) H10K 71/00
H10K 59/131
H10K 59/121
(11) EP4203659
(21) EP22204049.5
(47) 29.01.2025
(22) 27.10.2022
(54) ELECTROLUMINESCENCE DISPLAY HAVING REPAIR STRUCTURE AND METHOD FOR MANUFACTURING THE SAME
(73) LG Display Co., Ltd.
(72) PARK, Sangpil
SHIM, Sungbin
(31) 20210185979
(32) 23.12.2021
(33) Korea (Republic)

(51) H10K 85/10
H10K 85/30
H10K 85/60
H10K 50/17
(11) EP4145546
(21) EP21853303.2
(47) 29.01.2025
(87) KR2021009734
10.02.2022
(22) 27.07.2021
(54) ORGANIC LIGHT-EMITTING DEVICE
(73) Lg Chem, Ltd.
(72) LEE, Ho Gyu
JUNG, Sejin
LEE, Jaechol
KIM, Ji Hoon
KIM, Juhwan
LEE, Jiyoung
KHIM, Dongyoon
SEO, Seog Jae
BAE, Jaesoon
(31) 20200098674
(32) 06.08.2020
(33) Korea (Republic)

(51) H10K 85/30
H10K 50/11
H10K 101/10
(11) EP4099420
(21) EP22176430.1
(47) 29.01.2025
(22) 31.05.2022
(54) COMPOSITION, LAYER INCLUDING THE COMPOSITION, LIGHT-EMITTING DEVICE INCLUDING THE COMPOSITION, AND ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE
(73) SAMSUNG ELECTRONICS CO., LTD.
(72) HWANG, Kyuyoung
CHOI, Byoungki
LEE, Sunghun
KIM, Sungmin
SIM, Myungsun
YI, Jeoungin
KIM, Hyungjun
KWAK, Seungyeon
(31) 20210072366
(32) 03.06.2021
(33) Korea (Republic)

(51) H10K 85/30
H10K 85/60
H10K 50/155
H10K 50/15
(11) EP4193399
(21) EP21736325.8
(47) 29.01.2025
(87) EP2021067941
02.09.2021
(22) 30.06.2021
(54) ELECTRONIC DEVICE
(73) Merck Patent GmbH
(72) VOGES, Frank
ANÉMIAN, Rémi Manouk
MUJICA-FERNAUD, Teresa
STENGEL, Ilona
(31) 20189947
(32) 06.08.2020
(33) European Patent Office (EPO)

(51) H10N 10/17
H10N 10/01
(11) EP3933946
(21) EP20183520.4
(47) 29.01.2025
(22) 01.07.2020
(54) METHOD FOR MANUFACTURING A THERMOELECTRIC MODULE AND THERMOELECTRIC MODULE AS A PRESS BAND
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) KÖNIG, Jan
VERGEZ, Marc
SCHÄFER-WELSEN, Olaf
VETTER, Uwe

(51) H10N 30/00
H10N 30/853
H10N 30/50
(11) EP4346359
(21) EP23192855.7
(47) 29.01.2025
(22) 23.08.2023
(54) PIEZOELECTRIC ELEMENT AND ACTUATOR
(73) FUJIFILM Corporation
(72) KOBAYASHI, Hiroyuki
SUGIMOTO, Shinya
NAKAMURA, Seigo
SASAKI, Tsutomu

(31) 2022158868
(32) 30.09.2022
(33) Japan

(51) H10N 30/073
H03H 3/08
H03H 9/02
G01N 21/21
(11) EP4068624
(21) EP20892238.5
(47) 29.01.2025
(87) JP2020042102
03.06.2021
(22) 11.11.2020
(54) BONDED BODY COMPRISING PIEZOELECTRIC MATERIAL SUBSTRATE AND SUPPORT SUBSTRATE
(73) NGK Insulators, Ltd.
(72) HORI, Yuji
NAKAYAMA, Saki
YAMADERA, Takahiro
(31) 2019216528
(32) 29.11.2019
(33) Japan

(51) H10N 30/073
H03H 3/08
H03H 9/02
G01N 23/20
(11) EP4068625
(21) EP20893072.7
(47) 29.01.2025
(87) JP2020042099
03.06.2021
(22) 11.11.2020
(54) BONDED BODY COMPRISING PIEZOELECTRIC MATERIAL SUBSTRATE AND SUPPORT SUBSTRATE
(73) NGK Insulators, Ltd.
(72) HORI, Yuji
YAMADERA, Takahiro
(31) 2019216520
(32) 29.11.2019
(33) Japan

(51) H10N 60/01
H10N 60/12
H10N 69/00
G06N 10/40
(11) EP4177975
(21) EP21938135.7
(47) 29.01.2025
(87) CN2021135741
30.03.2023
(22) 06.12.2021
(54) QUBIT ASSEMBLY PREPARATION METHOD, QUBIT ASSEMBLY, QUANTUM CHIP, AND DEVICE
(73) Tencent Technology (Shenzhen) Company Limited
(72) ZHANG, Wenlong
DAI, Maochun
(31) 202111131811
(32) 26.09.2021
(33) China

(51) H10N 60/10
H03F 19/00
(11) EP4059136
(21) EP19816209.1
(47) 29.01.2025
(87) EP2019081549
20.05.2021
(22) 15.11.2019
(54) PARAMETRIC AMPLIFIER AND USES THEREOF
(73) Microsoft Technology Licensing LLC
(72) DE LANGE, Gijsbertus
PFAFF, Wolfgang

(51) H10N 60/20
H10N 60/85
H10N 60/01
H01P 7/08
(11) EP3968396
(21) EP21160174.5
(47) 29.01.2025
(22) 02.03.2021
(54) OXIDE SUPERCONDUCTOR AND METHOD FOR MANUFACTURING THE SAME
(73) KABUSHIKI KAISHA TOSHIBA
(72) Araki, Takeshi
Hayashi, Mariko
(31) 2020154920
(32) 15.09.2020
(33) Japan

(51) H10N 70/20
(11) EP4311396
(21) EP23183186.8
(47) 29.01.2025
(22) 04.07.2023
(54) SWITCH BASED ON PHASE CHANGE MATERIAL
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) REIG, Bruno
PUYAL, Vincent
CATHELIN, Philippe
FLEURY, Alain
MONFRAY, Stéphane
(31) 2207298
(32) 18.07.2022
(33) France

EP3

Voor Nederland verleende Europese octrooien waarvoor een vertaling is ingediend ex artikel 52 lid 1 van de Rijksoctrooiwet 1995.
European patents granted for the Netherlands in which a translation was filed ex Article 52 par. 1 of the NL Patent Law 1995.

(51) A01B 79/00
G01N 1/40
B01D 29/66
B01D 29/33
F04B 43/00
F04B 43/02
F04B 43/06
F04B 53/22
F04B 43/04
(11) EP4142463
(21) EP21719259.0
(22) 07.04.2021
(54) MULTIPLEXED PNEUMATIC CONTROL AIR SYSTEM FOR SLURRY FILTRATION
(73) Precision Planting LLC
(72) MINARICH, Nicholas
KOCH, Dale
SWANSON, Todd
WINKLER, Nicholas
(74) ir. B.Ch. Ledeboer c.s
(31) 202063018153 P
202063018120 P
202063017840 P
202063017789 P
(32) 30.04.2020
30.04.2020
30.04.2020
30.04.2020
(33) United States of America
United States of America
United States of America
United States of America
(47) 06.11.2024

(51) A01H 5/10
A01H 6/34
A01H 5/08
(11) EP2571347
(21) EP11722368.5
(22) 18.05.2011
(54) RESISTANCE TO POST HARVEST DETERIORATION IN CUCUMBER
(73) Rijk Zwaan Zaadteelt en Zaadhandel B.V.
(72) KLOET, Johannes, Willem
VELTEROP, Joyce, Sylvia
DIRKS, Robert, Helene, Ghislain
VAN DUN, Cornelis, Maria, Petrus
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 2004748
(32) 19.05.2010
(33) Netherlands
(47) 16.10.2024

(51) A23G 3/20
A23G 3/34
A61K 47/36
A23L 27/00
A23L 27/30
A23L 33/105
(11) EP3714699
(21) EP20167118.7
(22) 09.06.2014
(54) STEVIA EXTRACT CONTAINING SELECTED STEVIOL GLYCOSIDES AS FLAVOR, SALTY AND SWEETNESS PROFILE MODIFIER
(73) PureCircle USA Inc.
(72) PURKAYASTHA, Siddhartha
PETIT, Marcia
(74) ir. W.J.J.M. Kempes
(31) 201461942331 P
201361832451 P
(32) 20.02.2014
07.06.2013
(33) United States of America
United States of America
(47) 18.12.2024

(51) A23G 9/04
A23G 9/28
A47J 43/04
F25C 1/20
F25D 3/08
A23G 9/22
(11) EP3863417
(21) EP19870306.8
(22) 07.10.2019
(54) SLUSH BEVERAGE DISPENSER AND SLUSH BEVERAGE DISPENSING METHODS
(73) PepsiCo, Inc.
(72) DESHPANDE, Prashant
BHUTANI, Gurmeet
KELLY, Brian
BROOKS, Byron
(74) J.M.H. Duyver lic.
(31) 201841038006
(32) 08.10.2018
(33) India
(47) 04.12.2024

(51) A23J 3/26
A23L 11/00
A23J 3/22
A23J 3/14
A23J 3/16
A23J 3/18
A23L 13/40
(11) EP4021206
(21) EP20758141.4
(22) 13.08.2020
(54) MEAT ANANLOGUE PRODUCT COMPRISING HYDRATED TEXTURED PLANT PROTEIN
(73) Société des Produits Nestlé S.A.
(72) RIDDLE, Ryan
GADDIPATI, Sanyasi
(74) dr. R.C. van Duijvenbode c.s.
(31) 201962891485 P
(32) 26.08.2019
(33) United States of America
(47) 27.11.2024

(51) A43B 13/12
A43B 13/18
B29D 35/04
B29D 35/14
B29D 35/00
(11) EP4094618
(21) EP22175021.9
(22) 24.05.2022
(54) OUTSOLE FOR FOOTWEAR AND METHOD FOR MANUFACTURING SUCH AN OUTSOLE
(73) Diadora S.p.A.
(72) RISATTI, MICHELE
ARDISSONO, Cristian
(74) dr. W.A.H.M. Van Borm
(31) 202100013616
(32) 25.05.2021
(33) Italy
(47) 18.12.2024

(51) A46B 3/00
B29C 45/14
B29C 45/16
A46B 9/02
A46D 3/00
A46B 15/00
A46B 5/02
A46B 1/00
(11) EP4098147
(21) EP22185822.8
(22) 14.05.2013
(54) INTERDENTAL BRUSH
(73) Trisa Holding AG
(72) Zurfluh, Peter
Schär, Michael
(74) dr. R.C. van Duijvenbode c.s.
(31) 12004914
(32) 02.07.2012
(33) European Patent Office (EPO)
(47) 18.12.2024

(51) A47L 7/00
A47L 9/04
A47L 11/40
(11) EP4154778
(21) EP22190067.3
(22) 11.08.2022
(54) SURFACE CLEANING APPARATUS
(73) Bissell Inc.
(72) Pruiett, Jason W.
Grab, Tyler
Griffith, Aaron
(74) ir. W.J.J.M. Kempes
(31) 202163238864 P
(32) 31.08.2021
(33) United States of America
(47) 18.12.2024

(51) A47L 9/12
A47L 9/28

(11) EP4122367
(21) EP22183989.7
(22) 09.07.2022
(54) FILTER ASSEMBLY AND FLOOR CLEANER
(73) BISSELL Inc.
(72) Tam, Kin-leung
(74) ir. W.J.J.M. Kempes
(31) 202121697891 U
202110839666
202117408800
(32) 23.07.2021
23.07.2021
23.08.2021
(33) China
China
United States of America
(47) 25.12.2024

(51) A61B 3/125
G02C 7/04
G02B 7/00
G02B 27/00
(11) EP3429454
(21) EP17723763.3
(22) 27.04.2017
(54) FOGGING PREVENTION FOR SURGICAL CONTACT LENSES
(73) Alcon Inc.
(72) CHARLES, Steven T.
(74) dr. R.C. van Duijvenbode c.s.
(31) 201662332093 P
(32) 05.05.2016
(33) United States of America
(47) 01.01.2025

(51) A61B 5/00
(11) EP4401618
(21) EP22790242.6
(22) 14.09.2022
(54) APPARATUS AND METHOD FOR MEASURING SKIN CHARACTERISTIC
(73) Koninklijke Philips N.V.
(72) MAZARAKIS, Giorgos
THUMMA, Kiran Kumar
BOAMFA, Marius Iosif
VAN KEMPEN, Eric Gerard Marie
BALTAZAR DOS SANTOS, Nuno Filipe
WARMERDAM, Thomas Petrus Hendricus
VAN ABEELEN, Frank Anton
VERHAGEN, Rieko
(74) dr. R.C. van Duijvenbode c.s.
(31) 21197191
(32) 16.09.2021
(33) European Patent Office (EPO)
(47) 25.12.2024

(51) A61B 6/42
G06N 3/0464
G06N 3/084
G06N 3/09
A61B 6/03
A61B 6/00
A61B 8/08
(11) EP4355218
(21) EP22731714.6
(22) 09.06.2022
(54) CONTROLLING AN ALERT SIGNAL FOR SPECTRAL COMPUTED TOMOGRAPHY IMAGING
(73) Koninklijke Philips N.V.
(72) GOSHEN, Liran
(74) dr. R.C. van Duijvenbode c.s.
(31) 21180119
(32) 17.06.2021
(33) European Patent Office (EPO)
(47) 18.12.2024

(51) A61B 17/22
A61B 17/221
A61B 17/00
(11) EP3821830
(21) EP20191581.6
(22) 24.09.2013
(54) DEVICE FOR TREATING VASCULAR OCCLUSION
(73) Inari Medical, Inc.
(72) LUBOCK, Paul
ROSENBLUTH, Robert F.
COX, Brian J.
(74) ir. H.Th. van den Heuvel c.s.
(31) 201361864356 P
201361845796 P
201361750277 P
201261728775 P
201261705129 P
(32) 09.08.2013
12.07.2013
08.01.2013
20.11.2012
24.09.2012
(33) United States of America
United States of America
United States of America
United States of America
United States of America
(47) 16.10.2024

(51) A61B 17/22
A61M 3/00
A61M 3/02
A61M 1/00
A61B 18/14
A61L 2/00
A61L 2/025
A61L 2/18
A61L 2/23
(11) EP3938009
(21) EP20769620.4
(22) 12.03.2020
(54) AN ULTRASONIC IRRIGATOR DEVICE FOR IN-BODY CLEANING AND DISINFECTION
(73) Dimoveo Medical Ltd.
Lambaz, Yaniv
Altman, Tahel
Rotter, Shlomo
(72) LAMBAZ, Yaniv
ALTMAN, Tahel
ROTTER, Shlomo
(74) dr. R.C. van Duijvenbode c.s.
(31) 201962817782 P
(32) 13.03.2019
(33) United States of America
(47) 16.10.2024

(51) A61B 17/3209
A61B 17/3211
A61B 17/3213
A61B 17/00
(11) EP3818952
(21) EP20206298.0
(22) 06.11.2020
(54) INCISION TOOLS
(73) K2M, Inc.
(72) SARENDRANATH, Alvin
STAD, Shawn D.
BUCHERT, Oliver
POELSTRA, Kornelis
BELL, Christopher P.
SHARIFI-MEHR, Amir Ali
(74) J.M.H. Duyver lic.
(31) 201962931939 P
(32) 07.11.2019
(33) United States of America
(47) 18.12.2024

(51) A61F 2/00
(11) EP4185237
(21) EP21740178.5
(22) 29.06.2021
(54) PLUNGER APPARATUS FOR A DELIVERY DEVICE
(73) Alcon Inc.
(72) MEIJER, Robertus
(74) dr. R.C. van Duijvenbode c.s.
(31) 202011447
(32) 23.07.2020
(33) United Kingdom
(47) 27.11.2024

(51) A61F 2/54
A61F 2/68
A61H 1/02
B25J 18/04
(11) EP4218685
(21) EP22211811.9
(22) 18.05.2016
(54) ARM SUPPORTING EXOSKELETON
(73) The Regents of the University of California
(72) VAN ENGELHOVEN, Logan
KAZEROONI, Homayoon
(74) ir. W.J.J.M. Kempes
(31) 201562162871 P
(32) 18.05.2015
(33) United States of America
(47) 18.12.2024

(51) A61F 7/02
A61F 13/15
A61F 7/10
A61F 13/472
(11) EP3554433
(21) EP17883660.7
(22) 19.12.2017
(54) COOLING PAD
(73) Nakk (Bowral) Pty Ltd
(72) WEARNE, Natalie
CAMPBELL, Antoinette
CALLOW, Kylee
(74) ir. W.J.J.M. Kempes
(31) 2017903387
2016905244
(32) 22.08.2017
19.12.2016
(33) Australia
Australia
(47) 16.10.2024

(51) A61F 9/007
A61B 90/30
(11) EP3630026

(21) EP18731170.9
(22) 09.05.2018
(54) ILLUMINATED INFUSION CANNULA
(73) ALCON INC.
(72) MIRSEPASSI, Alireza
FARLEY, Mark Harrison
PAPAC, Michael J.
(74) dr. R.C. van Duijvenbode c.s.
(31) 201762510362 P
(32) 24.05.2017
(33) United States of America
(47) 18.12.2024

(51) A61F 13/472
A61F 13/474
A61F 13/15
A61F 13/47
(11) EP3628292
(21) EP18196825.6
(22) 26.09.2018
(54) ADAPTABLE ABSORBENT ARTICLE
(73) The Procter & Gamble Company
(72) Meisl, Sabine
Chernenkaya, Alisa
Denti, Federica
(74) ir. W.J.J.M. Kempes
(47) 18.12.2024

(51) A61G 5/04
A61G 5/10
B62D 7/09
B62D 9/00
B62D 11/24
B60K 1/00
B62K 5/007
B62K 5/08
B62K 21/00
B60K 7/00
(11) EP3585674
(21) EP18758294.5
(22) 23.02.2018
(54) PERSONAL MOBILITY VEHICLE
(73) Pride Mobility Products Corporation
(72) KUZMA, Nicholas, E.
MULHERN, James, P.
LETUKAS, Anthony
DAVIES, Robert, William
ANTONISHAK, Stephen
(74) dr. R.C. van Duijvenbode c.s.
(31) 201762526489 P
201762463622 P
(32) 29.06.2017
25.02.2017
(33) United States of America
United States of America
(47) 13.11.2024

(51) A61K 9/00
A61K 9/14
A61K 31/7048
A61P 9/14
A61K 47/26
(11) EP3823588
(21) EP19742363.5
(22) 19.07.2019
(54) PHARMACEUTICAL COMPOSITION IN THE FORM OF A CHEWABLE TABLET OF DIOSMIN OR OF A FLAVONOID MOIETY COMPRISING DIOSMIN
(73) Les Laboratoires Servier
(72) MARSAS, Stéphanie
PEAN, Jean-Manuel
(74) ir. W.J.J.M. Kempes
(31) 1856769
(32) 20.07.2018
(33) France
(47) 23.10.2024

(51) A61K 36/744
A61K 35/32
A61P 17/06
A61K 35/36
A61K 36/484
A61K 36/539
A61K 36/71
A61K 36/739
A61K 33/06
A61K 36/65
A61K 36/355
(11) EP4062923
(21) EP20889147.3
(22) 10.11.2020
(54) TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING PSORIASIS, PREPARATION METHOD THEREFOR AND USE THEREOF
(73) Tasly Pharmaceutical Group Co., Ltd.
(72) HUO, Zhipeng
HE, Yi
JIN, Yuanpeng
WANG, Yu
SONG, Zhaohui
KANG, Jinghua
HUANG, Zhijuan
ZHOU, Shuiping
LIU, Yuanxue
(74) dr. R.C. van Duijvenbode c.s.
(31) 201911138396
(32) 19.11.2019
(33) China
(47) 01.01.2025

(51) A61K 38/22
A61K 9/00
A61K 47/02
A61K 47/18
A61K 9/08
(11) EP4319798
(21) EP23733209.3
(22) 30.05.2023
(54) LIQUID FORMULATIONS OF AMYLIN ANALOGUES
(73) Zealand Pharma A/S
(72) LUNDQVIST, Joakim
(74) dr. R.C. van Duijvenbode c.s.
(31) 22176247
(32) 30.05.2022
(33) European Patent Office (EPO)
(47) 11.12.2024

(51) A61K 38/30
A61K 38/17
A61K 47/26
A61P 11/00
A61P 9/00
A61P 25/00
A61K 9/08
A61K 9/00
(11) EP4228676
(21) EP21807381.5
(22) 19.10.2021
(54) COMPOSITIONS SUITABLE FOR USE IN NEONATES
(73) OAK HILL BIO LIMITED
(72) KRANZ, James
BHATTACHARYA, Indranil
AMSDEN, Benita
TAYLOR, Katherine
HAN, Linda
HE, Bing
SALAMAT-MILLER, Nazila
(74) ir. W.J.J.M. Kempes
(31) 202063093696 P
(32) 19.10.2020
(33) United States of America
(47) 08.01.2025

(51) A61K 38/48
A61P 1/18
A61K 47/44
A61K 47/34
A61K 9/20
A61K 9/14
A61K 38/54
A61P 1/00
A61P 3/10
(11) EP3215181
(21) EP15804327.3
(22) 05.11.2015
(54) PROCESSES FOR PRODUCING COMPOSITIONS WITH IMPROVED SAFETY PROFILE COMPRISING PANCREATIN AND COMPOSITIONS SUITABLE FOR PHARMACEUTICAL USE
(73) Abbott GmbH & Co. KG
Abbott Laboratories GmbH
(72) SHLIEOUT, George
RÜFFER, Frauke-Regina
SCZESNY, Frithjof
RUPP, Christopher
BREITENBACH, Jörg
(74) dr. R.C. van Duijvenbode c.s.
(31) 15187823
14191832
(32) 01.10.2015
05.11.2014
(33) European Patent Office (EPO)
European Patent Office (EPO)
(47) 18.12.2024

(51) A61M 11/04
A61M 15/06
A24F 40/00
A61M 16/00
A61K 9/00
H05B 3/46
A24F 40/40
(11) EP3941287
(21) EP20716393.2
(22) 13.03.2020
(54) SMOKING SUBSTITUTE SYSTEM
(73) Imperial Tobacco Limited
(72) LOMAS, Pete
SHENTON, Ross
FERRIE, Kate
LORD, Chris
(74) dr. R.C. van Duijvenbode c.s.
(31) 19020203
(32) 22.03.2019
(33) European Patent Office (EPO)

(47) 27.11.2024

(51) A61M 25/06
A61B 17/221
A61M 25/00
A61B 17/22
A61M 25/01
A61M 39/06
(11) EP3793660
(21) EP19790337.0
(22) 16.05.2019
(54) ASPIRATION CATHETER SYSTEMS
(73) Route 92 Medical, Inc.
(72) WILSON, Scott D.
SHINSKY, Vera
CHOU, Tony M.
(74) dr. W.A.H.M. Van Borm
(31) 201862673009 P
(32) 17.05.2018
(33) United States of America
(47) 13.11.2024

(51) A61N 1/32
A61N 1/05
(11) EP3958957
(21) EP20727417.6
(22) 16.04.2020
(54) COMBINATION ELECTRICAL AND CHEMOTHERAPEUTIC TREATMENT OF CANCER
(73) Boston Scientific Scimed, Inc.
(72) BALCZEWSKI, Ron A.
KHARAM, Aleksandra
SCHMIDT, Brian L.
STEIN, Benjamin Keith
MAILE, Keith R.
(74) ir. A.R. Aalbers
(31) 201962837130 P
(32) 22.04.2019
(33) United States of America
(47) 30.10.2024

(51) A61N 1/36
(11) EP3993867
(21) EP20772176.2
(22) 02.09.2020
(54) MANAGEMENT OF COMPLIANCE VOLTAGE FOR A STIMULATOR DEVICE
(73) Boston Scientific Neuromodulation Corporation
(72) FELDMAN, Emanuel
HERMANN, Kenneth
SHAH, Chirag
MARNFELDT, Goran N.
STEINKE, G. Karl
KOTCHEVAR, Mary
FEATHERSTONE, Adam T.
(74) ir. A.R. Aalbers
(31) 201962897060 P
(32) 06.09.2019
(33) United States of America
(47) 30.10.2024

(51) A61N 1/39
A61B 5/24
A61N 1/04
A61B 5/024
(11) EP3698846
(21) EP17930004.1
(22) 27.10.2017
(54) DEFIBRILLATOR, STATE DETECTION MANAGEMENT METHOD, STATE DETECTION MANAGEMENT SYSTEM AND DEVICE
(73) Shenzhen Mindray Scientific Co., Ltd.
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
(72) CEN, Jian
CHEN, Dabing
WANG, Qi
LI, Liya
LI, Zhiwei
(74) ir. A.E. Dekker-Garms
(47) 16.10.2024

(51) A61P 25/00
A61P 25/04
A61P 25/06
A61P 25/16
A61P 25/22
A61P 25/24
A61P 25/30
C07C 63/08
C07D 209/16
A61K 31/4045
(11) EP4279070
(21) EP23157604.2
(22) 14.06.2021
(54) COMPOSITION COMPRISING A BENZOATE SALT OF 5-METHOXY-N,N-DIMETHYLTRYPTAMINE
(73) Beckley Psytech Limited
(72) FEILDING-MELLEN, Cosmo
MASON, Timothy
(74) dr. A. Krebs
(31) 202105462
202105047
202105049
202102095
202102100
202101634
202101640
202019241
202008968
202008961
202008964
(32) 16.04.2021
08.04.2021
08.04.2021
15.02.2021
15.02.2021
05.02.2021
05.02.2021
07.12.2020
12.06.2020
12.06.2020
12.06.2020
(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
(47) 23.10.2024

(51) A62B 9/04
A62B 25/00
B63C 11/02
(11) EP3871739
(21) EP20159485.0
(22) 26.02.2020
(54) CYLINDER-RETAINING APPARATUS FOR A BREATHING APPARATUS
(73) Draeger Safety UK Limited
(72) FERGUSON, Darin
WRIGLEY, Gordon
HANNARD, Evan
(74) ir. W.J.J.M. Kempes
(47) 18.12.2024

(51) A63F 13/00
A63F 13/20
A63F 13/21
G02B 27/00
G02B 27/01
G06F 3/00
G06F 3/01
(11) EP4215254
(21) EP23160139.4
(22) 28.08.2019
(54) DYNAMIC INCOUPLING GRATINGS IN IMAGING SYSTEMS
(73) Magic Leap, Inc.
(72) CARLISLE, Clinton
TRISNADI, Jahja I.
ST. HILAIRE, Pierre
(74) ir. W.J.J.M. Kempes
(31) 201862723688 P
(32) 28.08.2018
(33) United States of America
(47) 27.11.2024

(51) B01J 27/19
B01J 23/00
B01J 37/02
B01J 37/03
B01J 37/04
C10G 45/08
B01J 35/61
B01J 35/63
(11) EP3305406
(21) EP16799690.9
(22) 07.04.2016
(54) HYDROTREATING CATALYST FOR HYDROCARBON OIL, PROCESS FOR PRODUCING SAME, AND HYDROTREATING METHOD
(73) JGC Catalysts And Chemicals Ltd.
(72) OHASHI, Shunsuke
YAMANE, Kenji
(74) dr. R.C. van Duijvenbode c.s.
(31) 2015107670
(32) 27.05.2015
(33) Japan
(47) 01.01.2025

(51) B01J 38/30
B01J 8/26
(11) EP4263053
(21) EP21851642.5
(22) 14.12.2021
(54) SYSTEMS AND METHODS FOR REGENERATING PARTICULATE SOLIDS
(73) Dow Global Technologies LLC
(72) WALTER, Richard Edwards

PRETZ, Matthew T.
SHAW, Donald F.
SANDOVAL, Fermin Alejandro
(74) ir. W.J.J.M. Kempes
(31) 202063126089 P
(32) 16.12.2020
(33) United States of America
(47) 01.01.2025

(51) B24D 15/08
(11) EP3746266
(21) EP19720370.6
(22) 31.01.2019
(54) BLADE SHARPENING DEVICE COMPRISING RETAINING POINTS
(73) Stallegger, Harald
(72) Stallegger, Harald
(74) dr. A. Krebs
(31) 102018102273
(32) 01.02.2018
(33) Germany
(47) 18.09.2024

(51) B26D 1/18
B26D 1/24
B26D 5/02
B26D 5/08
B26D 7/18
B26D 11/00
C03B 33/00
B26B 25/00
B26D 1/157
E06B 3/673
B26D 5/00
(11) EP4415935
(21) EP23773262.3
(22) 19.09.2023
(54) SEPARATION METHOD AND SEPARATION DEVICE FOR SEPARATING GLASS PANES OF AN INSULATING GLAZING FROM THE SPACER FRAME, METHOD AND DEVICE FOR DISASSEMBLING AN INSULATING GLAZING AND PROCESSING METHOD AND PROCESSING DEVICE FOR PROCESSING INSULATING GLAZINGS
(73) HEGLA GmbH & Co. KG
(72) PLAPPERT, Marcel
HÖTGER, Marcel
DAUT, Friedhelm
OSTENDARP, Heinrich
ASCHE, Stefan
SCHOISSWOHL, Markus
(74) ir. A. Blokland c.s.
(31) 102022209846
(32) 19.09.2022
(33) Germany
(47) 30.10.2024

(51) B29C 65/18
B29C 65/30
B29C 65/78
B65B 29/02
B65B 51/14
(11) EP3960427
(21) EP20193603.6
(22) 31.08.2020
(54) DEVICE FOR MANUFACTURING A BAG ACCOMMODATED IN AN ENVELOPE
(73) Teepack Spezialmaschinen GmbH & Co. KG
(72) LAMBERTZ, Stefan
RYDLEWSKI, Thomas
HÖFLE, Andreas
HOLLENBECK, Christoph
KNOPS, Hans
(74) dr. R.C. van Duijvenbode c.s.
(47) 01.01.2025

(51) B30B 11/22
B30B 11/24
B30B 15/34
A23J 3/22
A23J 3/26
B29C 48/33
B29C 48/25
A23P 30/20
B29C 48/00
B29C 48/86
B29C 48/40
(11) EP4185460
(21) EP21742446.4
(22) 20.07.2021
(54) NOZZLE FOR EXTRUDING A MATERIAL RICH IN PROTEIN AND WATER, AS WELL AS AN EXTRUSION MACHINE COMPRISING SUCH A NOZZLE
(73) Clextral
(72) RAPILLARD, Laurent
BEYRER, Michael
CACHELIN, Christian
(74) dr. R.C. van Duijvenbode c.s.
(31) 2007642
(32) 21.07.2020
(33) France
(47) 25.12.2024

(51) B41F 13/08
B41F 33/00
B41F 5/24
G01B 11/24
G01B 11/30
B41F 13/34
B41F 5/18
B41F 13/12
B41F 27/06
B41F 27/12
B41F 33/14
B41F 33/16
(11) EP3988310
(21) EP21200844.5
(22) 05.10.2021
(54) PRINTING MACHINE WITH A PRINTING ROLLER AND AN ANILOX ROLLER OR AN ANILOX SLEEVE
(73) Heidelberger Druckmaschinen AG
(72) Schwab, Werner
(74) J.M.H. Duyver lic.
(31) 102020213344
(32) 22.10.2020
(33) Germany
(47) 11.12.2024

(51) B41J 2/14
(11) EP4110622
(21) EP21706293.4
(22) 23.02.2021
(54) A THERMAL INKJET PRINTHEAD, AND A PRINTING ASSEMBLY AND PRINTING APPARATUS COMPRISING THE SAME
(73) SICPA HOLDING SA
(72) SCHINA, Paolo
(74) dr. W.A.H.M. Van Borm
(31) 20158952
(32) 24.02.2020
(33) European Patent Office (EPO)
(47) 01.01.2025

(51) B62D 25/16
(11) EP4296146
(21) EP23178971.0
(22) 13.06.2023
(54) LOCKING/UNLOCKING DEVICE FOR VEHICLE MUDGUARDS AND RELATED MUDGUARD ASSEMBLY
(73) DOMAR S.p.A.
(72) DENTE, Daniele
FIORE, Pasquale
(74) J.M.H. Duyver lic.
(31) 202200012961
(32) 20.06.2022
(33) Italy
(47) 20.11.2024

(51) B62K 5/02
B62K 5/10
B62K 7/04
B62K 5/06
(11) EP3981679
(21) EP21275122.6
(22) 31.08.2021
(54) A SPRING SYSTEM
(73) Simpact Engineering Limited
Pashley Holdings Limited
(72) Landheer, Dirk
Williams, Adrian
(74) dr. A. Ellens c.s.
(31) 202014119
(32) 08.09.2020
(33) United Kingdom
(47) 28.08.2024

(51) B65D 5/50
B65D 85/48
E04D 13/03
(11) EP4091958
(21) EP22173010.4
(22) 12.05.2022
(54) A PACKED ROOF WINDOW, A VENTILATION FLAP RETAINER, AND USE OF A VENTILATION FLAP RETAINER
(73) VKR Holding A/S
(72) Jacobsen, Carina Juul
Andersen, Erik
(74) ir. J.D. de Zeeuw
(31) PA202170242
(32) 12.05.2021
(33) Denmark
(47) 20.11.2024

(51) B65D 41/04
(11) EP4397597
(21) EP23150161.0
(22) 03.01.2023
(54) CLOSURE CAP
(73) UAB Baltic caps
(72) Matulis, Arunas
(74) ir. W.J.J.M. Kempes

(47) 13.11.2024

(51) B65G 15/00
B65G 15/22
B65G 47/68
B65G 47/71
B65G 47/08
B65G 47/82
B65G 47/88
B65G 47/51
(11) EP4155237
(21) EP22179139.5
(22) 15.06.2022
(54) DEVICE AND METHOD FOR SEQUENCING OF LOADING UNITS IN A PREDETERMINED ORDER
(73) Stöcklin Logistik AG
(72) BEGERT, Urs
(74) dr. R.C. van Duijvenbode c.s.
(31) 102021124545
(32) 22.09.2021
(33) Germany
(47) 20.11.2024

(51) B65G 17/08
B65G 17/06
(11) EP2850021
(21) EP13790441.3
(22) 14.05.2013
(54) CONVEYOR BELT WITH COMPOSITE LINK
(73) Ashworth Bros., Inc.
(72) NEELY, Darroll Joseph
(74) dr. R.C. van Duijvenbode c.s.
(31) 201213472096
(32) 15.05.2012
(33) United States of America
(47) 01.01.2025

(51) B65G 17/08
B65G 17/24
B65G 23/04
(11) EP3939913
(21) EP21184744.7
(22) 09.07.2021
(54) MODULE OF MODULAR CONVEYOR BELT WITH ROLLER TRANSPORT SURFACE AND MODULAR CONVEYOR BELT FORMED BY A PLURALITY OF SUCH MODULES
(73) Regina Catene Calibrate S.p.A.
(72) GARBAGNATI, Carlo
CATTANEO, Norberto
(74) J.M.H. Duyver lic.
(31) 202000017068
(32) 14.07.2020
(33) Italy
(47) 18.12.2024

(51) B66C 23/52
B66C 23/84
(11) EP4056519
(21) EP22161563.6
(22) 11.03.2022
(54) CRANE, IN PARTICULAR FOR OFFSHORE APPLICATION
(73) REEL
(72) BURGER, Bart
KONATE, Karamoko
(74) J.M.H. Duyver lic.
(31) 2102455
(32) 12.03.2021
(33) France
(47) 20.11.2024

(51) C03B 37/035
C03C 25/12
C03B 37/025
C03B 37/027
C03B 37/03
C03C 25/1065
(11) EP3611139
(21) EP18784011.1
(22) 06.02.2018
(54) OPTICAL FIBER MANUFACTURING METHOD
(73) Fujikura Ltd.
(72) ISHIDA Itaru
(74) dr. R.C. van Duijvenbode c.s.
(31) 2017077689
(32) 10.04.2017
(33) Japan
(47) 18.12.2024

(51) C07D 239/42
(11) EP3247703
(21) EP16701185.7
(22) 22.01.2016
(54) IMPROVED PROCESS FOR PREPARING STATIN PRECURSOR
(73) Centrient Pharmaceuticals Netherlands B.V.
(72) BESSEMBINDER, Karin, Henderika, Maria
DE LANGE, Ben
HEEMSKERK, Dennis
(31) 15152299
(32) 23.01.2015
(33) European Patent Office (EPO)
(47) 16.10.2024

(51) C07D 498/18
C07H 19/01
A61K 31/435
A61K 31/706
A61P 25/00
A61P 25/28
A61P 29/00
(11) EP3914599
(21) EP20746065.0
(22) 23.01.2020
(54) NON-IMMUNOSUPPRESSIVE FK506 ANALOGS AND USE THEREOF
(73) The Johns Hopkins University
(72) GUO, Zufeng
LIU, Jun O.
PEIFFER, Brandon J.
PENG, Hanjing
AHMADI, Ali
SUN, Zhaoli
QI, Le
WANG, Yuefan
(74) ir. J.D. de Zeeuw
(31) 201962795700 P
(32) 23.01.2019
(33) United States of America
(47) 27.11.2024

(51) C07K 16/28
A61P 25/00
(11) EP3359572
(21) EP16790464.8
(22) 06.10.2016
(54) METHOD FOR TREATING MULTIPLE SCLEROSIS
(73) F. Hoffmann-La Roche AG
(72) PFEFEN, Jean-Paul
LEPPERT, David
ZHANG, Jiameng
LI-KWAI-CHEUNG, Anne-Marie
LIBONATI, Michele
SMITH, Craig
CHIN, Peter, S.
MASTERMAN, Donna
GARREN, Hideki
WEISSKOPF, Algirdas Jonas, Kakarieka
(74) drs. C.M.A. Quintelier
(31) 201662355299 P
201662342633 P
201662322734 P
201662296049 P
201562271985 P
201562238674 P
201562238103 P
(32) 27.06.2016
27.05.2016
14.04.2016
16.02.2016
28.12.2015
07.10.2015
06.10.2015
(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
(47) 27.11.2024

(51) C08G 12/06
C09J 159/00
C09J 177/02
(11) EP4267638
(21) EP21851598.9
(22) 22.12.2021
(54) BINDER COMPOSITION COMPRISING AMINO ACID POLYMER(S) AS WELL AS CARBOHYDRATES FOR COMPOSITE ARTICLES
(73) BASF SE
(72) TUERP, David
KUNSMANN-KEITEL, Dagmar Pascale
TELES, Joaquim Henrique
LUNKWITZ, Ralph
LINDNER, Jean-Pierre Berkan
SOMMER, Gereon Antonius
SERVAY, Thomas
WEINKÖTZ, Stephan
SCHERR, Guenter
FUEGER, Claus
HAMANN, Jessica Nadine
(74) ir. W.J.J.M. Kempes
(31) 20216816
20216812
(32) 23.12.2020
23.12.2020
(33) European Patent Office (EPO)
European Patent Office (EPO)
(47) 30.10.2024

(51) C08G 18/00
C08G 18/22

C08G 18/20
C08G 18/76
C08G 18/75
C08G 18/78
C08G 59/22
(11) EP3983465
(21) EP20730272.0
(22) 05.06.2020
(54) METHOD FOR THE PRODUCTION OF ISOCYANATE-GROUP TERMINATED POLYOXAZOLIDINONES
(73) Covestro Deutschland AG
(72) REIMANN, Yvonne
WESTHUES, Stefan
WOLF, Aurel
WEIKARD, Jan
GÜRTLER, Christoph
MAGER, Dieter
FRICK-DELAITTRE, Elena
KOOPMANS, Carsten
(74) ir. W.J.J.M. Kempes
(31) 19179688
(32) 12.06.2019
(33) European Patent Office (EPO)
(47) 30.10.2024

(51) C08G 71/04
C08G 75/02
(11) EP3844207
(21) EP19753101.5
(22) 19.08.2019
(54) POLYMERS OF A COMPOUND COMPRISING A MONOTHIOCARBONATE GROUP AND AN ETHYLENICALLY UNSATURATED GROUP
(73) BASF SE
(72) RUDOLF, Peter
JEGELKA, Markus
THIEL, Indre
(74) ir. W.J.J.M. Kempes
(31) 18191064
(32) 28.08.2018
(33) European Patent Office (EPO)
(47) 30.10.2024

(51) C08L 23/12
(11) EP4172262
(21) EP21733117.2
(22) 17.06.2021
(54) POLYOLEFINS COMPOSITIONS OBTAINED FROM RECYCLED POLYOLEFINS
(73) Basell Poliolefine Italia S.r.l.
(72) CAVALIERI, Claudio
GALVAN, Monica
(74) ir. W.J.J.M. Kempes
(31) 20183310
(32) 30.06.2020
(33) European Patent Office (EPO)
(47) 01.01.2025

(51) C09D 11/54
C09D 11/38
C09D 11/40
C09D 11/322
B41J 2/01
B41M 5/00
(11) EP3875555
(21) EP19880877.6
(22) 21.10.2019
(54) INK SET AND RECORDING METHOD FOR PRINTED MATTER
(73) artience Co., Ltd.
TOYOCOLOR CO., LTD.
(72) JONAI Kazuhiro
YODA Atsushi
HAYAMIZU Mayuko
(74) J.M.H. Duyver lic.
(31) 2018204285
(32) 30.10.2018
(33) Japan
(47) 18.12.2024

(51) C09D 183/04
C09D 7/40
C08J 7/04
(11) EP3674374
(21) EP18847473.8
(22) 23.08.2018
(54) COATING RESIN COMPOSITION AND COATING FILM COMPRISING CURED ARTICLE THEREOF AS COATING LAYER
(73) Kolon Industries, Inc.
(72) BACK, Sung Hoon
AHN, Sang Hyun
LEE, Dong Hee
YANG, Pil Rye
AHN, Byung Joon
KIM, Hang Geun
(74) dr. R.C. van Duijvenbode c.s.
(31) 20180098127
20170107238
(32) 22.08.2018
24.08.2017
(33) Korea (Republic)
Korea (Republic)
(47) 08.01.2025

(51) C10G 55/04
C07C 29/151
C07C 41/06
C07C 43/04
C10G 67/04
C10G 69/14
C10J 3/00
C10K 1/00
C10K 3/00
(11) EP3891256
(21) EP19818269.3
(22) 03.12.2019
(54) OPTIMIZING THE SIMULTANEOUS PRODUCTION OF HIGH-VALUE CHEMICALS AND FUELS FROM HEAVY HYDROCARBONS
(73) Saudi Arabian Oil Company
SABIC Global Technologies B.V.
(72) ABBOTT, Timothy
KLEIBERGEN, Jurgen
GOYHENEIX, Nicolas
ABDELGHANI, Mohamed Sabri
BELFADHEL, Hatem
RAMASESHAN, Vinod
(74) ir. B.Ch. Ledeboer c.s
(31) 201862775241 P
(32) 04.12.2018
(33) United States of America
(47) 06.11.2024

(51) C10L 1/14
C10L 1/16
C10L 1/196
C10L 10/16
(11) EP4326840
(21) EP22701178.0
(22) 12.01.2022
(54) POLYMERIC POUR POINT DEPRESSANTS FOR WAXY CRUDE OILS
(73) Clariant International Ltd
(72) KAYSER, Christoph
KAISER, Anton
FEUSTEL, Michael
KRULL, Matthias
SCHÄFER, Michael
SMITH, Rashod
(74) J.M.H. Duyver lic.
(31) 202117236635
21174872
(32) 21.04.2021
20.05.2021
(33) United States of America
European Patent Office (EPO)
(47) 13.11.2024

(51) C11D 3/22
C11D 3/38
C11D 3/48
(11) EP3686266
(21) EP19153404.9
(22) 23.01.2019
(54) SYNBIOTIC SURFACE TREATMENT COMPOSITION
(73) HEIQ CHRISAL NV
(72) TEMMERMAN, Robin
GIELEN, Corrie
(74) M.A.T. Beck MSc LL.B
(47) 23.10.2024

(51) C12N 5/02
C12N 5/0789
(11) EP3455344
(21) EP17795198.5
(22) 12.05.2017
(54) HAEMATOPOIETIC STEM/ PROGENITOR CELLS
(73) Murdoch Childrens Research Institute
(72) NG, Elizabeth
STANLEY, Edouard
ELEFANTY, Andrew
(74) dr. W.A.H.M. Van Borm
(31) 2016901785
(32) 13.05.2016
(33) Australia
(47) 20.11.2024

(51) C12Q 1/6844
C12Q 1/6853
(11) EP4010493
(21) EP20754816.5
(22) 07.08.2020
(54) METHODS FOR THE MULTIPLEXED ISOTHERMAL AMPLIFICATION OF NUCLEIC ACID SEQUENCES
(73) DNAe Diagnostics Limited
(72) OST, Toby
(74) dr. A. Krebs
(31) 201911421
(32) 09.08.2019
(33) United Kingdom
(47) 18.12.2024

(51) C25B 1/04

C25B 1/34
C25B 9/19
C25B 9/77
C25B 11/052
C25B 11/061
C25B 11/093
(11) EP4352280
(21) EP22761092.0
(22) 01.08.2022
(54) ELECTRODE FOR THE ELECTROLYTIC EVOLUTION OF HYDROGEN
(73) Industrie De Nora S.P.A.
(72) CALDERARA, Alice
MORA, Stefania
(74) dr. R.C. van Duijvenbode c.s.
(31) 202100020735
(32) 02.08.2021
(33) Italy
(47) 01.01.2025

(51) E04D 3/36
E04D 3/362
(11) EP3786386
(21) EP20184399.2
(22) 07.07.2020
(54) FASTENING STRUCTURE WITH RETAINING RAIL FOR DIFFERENT HOLDING ELEMENTS
(73) Kalzip GmbH
(72) STEUERWALD, Martin
THIEBES, Robert
(74) ir. A. Blokland c.s.
(31) 202019104819 U
202019104817 U
(32) 02.09.2019
02.09.2019
(33) Germany
Germany
(47) 30.10.2024

(51) E05D 11/06
E05D 15/52
(11) EP4411095
(21) EP23154576.5
(22) 02.02.2023
(54) FITTING ARRANGEMENT AND DOOR OR WINDOW ARRANGEMENT FOR SUCH A FITTING ARRANGEMENT
(73) Gretsch-Unitas GmbH Baubeschläge
(72) Beißwenger, Frank
(74) dr. R.C. van Duijvenbode c.s.
(47) 18.12.2024

(51) F24C 15/20
(11) EP3701192
(21) EP18783527.7
(22) 16.10.2018
(54) COMBINATION DEVICE WITH AN EXTRACTOR DEVICE AND A COOKER HOB
(73) BSH Hausgeräte GmbH
(72) LEHN, Jean-Luc
FLESCH, Sebastien
VÖLKER, Thomas
(31) 17290138
(32) 26.10.2017
(33) European Patent Office (EPO)
(47) 11.12.2024

(51) F24C 15/20
(11) EP3956611
(21) EP20717199.2
(22) 09.04.2020
(54) FILTER DEVICE FOR A VAPOUR EXTRACTION DEVICE, AND VAPOUR EXTRACTION DEVICE WITH A FILTER DEVICE
(73) BSH Hausgeräte GmbH
(72) LAURENT, Guillaume
FLESCH, Sebastien
(31) 19290025
(32) 17.04.2019
(33) European Patent Office (EPO)
(47) 20.11.2024

(51) F25B 39/04
F25D 11/00
F25D 19/00
F24F 13/20
(11) EP4102155
(21) EP21765157.9
(22) 24.02.2021
(54) REFRIGERATION DEVICE FOR SHIPPING, AND SHIPPING CONTAINER
(73) Daikin Industries, Ltd.
(72) SHIBUYA, Kento
TAGAWA, Hirotaka
(74) ir. W.J.J.M. Kempes
(31) 2020038721
(32) 06.03.2020
(33) Japan
(47) 01.01.2025

(51) F25D 11/00
B60P 3/20
(11) EP3811008
(21) EP19726288.4
(22) 13.05.2019
(54) REFRIGERATED CONTAINER PROVIDED WITH VENTILATION SYSTEM
(73) Carrier Corporation
(72) HANDLEY, Kurt
SCARCELLA, Jason D.
(74) J.M.H. Duyver lic.
(31) 201862687960 P
(32) 21.06.2018
(33) United States of America
(47) 18.12.2024

(51) F25D 29/00
G01N 33/02
G01N 21/65
(11) EP3903055
(21) EP19839512.1
(22) 17.12.2019
(54) FOOD MONITORING ASSEMBLY AND METHOD
(73) Carrier Corporation
(72) KANKANE, Rahul
ANUMACHPALLI, Chakravarty
MISHRA, Preeti K.
(74) J.M.H. Duyver lic.
(31) 201811048838
(32) 24.12.2018
(33) India
(47) 11.12.2024

(51) F41A 9/57
F41A 9/29
(11) EP4230951
(21) EP23156934.4
(22) 15.02.2023
(54) HOOKING DEVICE FOR FIXING A FLEXIBLE CHUTE FOR AMMUNITION TO A WEAPON
(73) KNDS France
(72) BELLAIR, Maxime
PICHOFF, Laura
(74) ir. G.J.M. Verhees
(31) 2201316
(32) 16.02.2022
(33) France
(47) 16.10.2024

(51) G01B 11/06
B23K 1/008
B23K 1/20
B23K 3/08
(11) EP4227637
(21) EP22868991.5
(22) 25.08.2022
(54) METHOD AND DEVICE FOR DETECTING CONCENTRATION OF SOLDERING FLUX IN REFLOW OVEN
(73) Honor Device Co., Ltd.
(72) YANG, Xiujuan
LV, Ye
(74) ir. W.J.J.M. Kempes
(31) 202111096988
(32) 18.09.2021
(33) China
(47) 20.11.2024

(51) G01F 1/00
G01F 1/84
G01F 23/296
G01N 9/00
G01N 11/00
G01C 19/56
G01N 29/02
G01F 1/002
(11) EP4206615
(21) EP22193300.5
(22) 20.08.2019
(54) STABILIZED MODE SPLITTING FIN SENSOR
(73) Micro Motion Inc.
(72) Schollenberger, Frederick Scott
Weinstein, Joel
Schlosser, Martin Andrew
(74) dr. R.C. van Duijvenbode c.s.
(47) 11.12.2024

(51) G01N 9/00
G01N 11/16
(11) EP4179289
(21) EP20750034.9
(22) 08.07.2020
(54) METHOD AND APPARATUS FOR CALCULATING A VIBRATORY METER Q
(73) Micro Motion Inc.
(72) MACDONALD, George Alexander
KRAVITZ, Andrew S.
(74) dr. R.C. van Duijvenbode c.s.
(47) 11.12.2024

(51) G01N 15/02
G01N 21/53
G01N 21/85
G01N 21/90
G01N 15/14
G01N 21/25

G01N 15/0227
G01N 15/1433
(11) EP4001892
(21) EP21216830.6
(22) 09.10.2019
(54) DEVICE FOR OPTICAL INSPECTION OF A WASTE LIQUID
(73) Lin, Hsiu-An
(72) Lin, Hsiu-An
(74) J.M.H. Duyver Iic.
(31) 107138168
(32) 29.10.2018
(33) Taiwan, Chinese Taipei
(47) 11.12.2024

(51) G01N 21/35
G01N 21/3563
G01J 3/42
G01N 21/55
G01N 21/89
G01N 21/93
(11) EP3899499
(21) EP19813655.8
(22) 28.11.2019
(54) MEASURE OF THE DEGREE OF CRYSTALLINITY OF A POLYMER COATING ON A METAL SUBSTRATE
(73) ArcelorMittal
(72) FERTE, Morgan
LABBE, Nathalie
(74) dr. R.C. van Duijvenbode c.s.
(31) PCT/IB2018/060438
(32) 20.12.2018
(33) World Intellectual Property Office (WIPO)
(47) 01.01.2025

(51) G01N 23/04
G06F 18/00
G06V 10/54
(11) EP3132378
(21) EP15722738.0
(22) 27.03.2015
(54) IDENTIFICATION OR DETERMINATION OF A LOAD BASED ON TEXTURE
(73) Smiths Detection France S.A.S.
(72) GADI, Najib
(74) ir. F.A. Geurts c.s.
(31) 201406887
(32) 16.04.2014
(33) United Kingdom
(47) 23.10.2024

(51) G02B 1/00
G02B 3/00
G02B 5/18
G02B 27/00
(11) EP4067946
(21) EP22155416.5
(22) 07.02.2022
(54) DISPLAY DEVICE AND ELECTRONIC DEVICE INCLUDING THE SAME
(73) Samsung Electronics Co., Ltd.
(72) Park, Hyeonsoo
Shin, Changgyun
Park, Hyunsung
Han, Seunghoon
(74) ir. B.Ch. Ledeboer c.s
(31) 20210102678
20210094459
202163170194 P
(32) 04.08.2021
19.07.2021
02.04.2021
(33) Korea (Republic)
Korea (Republic)
United States of America
(47) 06.11.2024

(51) G02B 3/00
G02B 5/22
H01L 27/146
G02B 5/00
G02B 13/00
G02B 27/00
H04N 23/55
(11) EP4005196
(21) EP20889400.6
(22) 13.11.2020
(54) ELECTRONIC DEVICE INCLUDING CAMERA MODULE
(73) Samsung Electronics Co., Ltd.
(72) JEON, Sangyong
KIM, Seungyong
LEE, Jeongyeol
(74) dr. R.C. van Duijvenbode c.s.
(31) 20200015353
20190149787
(32) 10.02.2020
20.11.2019
(33) Korea (Republic)
Korea (Republic)
(47) 01.01.2025

(51) G03B 3/10
G03B 5/00
G03B 13/36
G03B 19/07
G03B 17/14
(11) EP4141534
(21) EP22200663.7
(22) 12.02.2018
(54) LENS DRIVING DEVICE, CAMERA MODULE AND OPTICAL INSTRUMENT
(73) LG INNOTEK CO., LTD.
(72) LEE, Sung Guk
JUNG, Tae Jin
LEE, Seong Min
MIN, Sang Jun
(74) dr. R.C. van Duijvenbode c.s.
(31) 20170045169
20170027847
20170018826
(32) 07.04.2017
03.03.2017
10.02.2017
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
(47) 18.12.2024

(51) G03B 17/12
G03B 5/02
G02B 27/64
G02B 7/09
G02B 7/02
G03B 3/10
(11) EP3588185
(21) EP18756744.1
(22) 13.02.2018
(54) LENS DRIVING DEVICE, CAMERA MODULE, AND OPTICAL INSTRUMENT
(73) LG Innotek Co., Ltd.
(72) LEE, Sung Guk
MIN, Sang Jun
JUNG, Tae Jin
YOO, Kyoung Ho
(74) dr. R.C. van Duijvenbode c.s.
(31) 20170025290
20170025082
20170025080
20170025078
20170025073
(32) 27.02.2017
24.02.2017
24.02.2017
24.02.2017
24.02.2017
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
(47) 18.12.2024

(51) G03B 21/20
H01L 33/50
F21V 9/32
F21K 9/64
F21Y 105/10
F21Y 115/10
F21Y 115/30
(11) EP3803509
(21) EP19733209.1
(22) 17.05.2019
(54) WHITE LIGHT PHOSPHOR DEVICE
(73) Materion Corporation
(72) NEWELL, Michael P.
(74) J.M.H. Duyver Iic.
(31) 201862675844 P
(32) 24.05.2018
(33) United States of America
(47) 18.12.2024

(51) G03G 15/06
G03G 13/01
G03G 15/00
(11) EP3974907
(21) EP21191722.4
(22) 17.08.2021
(54) IMAGE FORMING APPARATUS
(73) Oki Electric Industry Co., Ltd.
(72) YAMADA, Shin
(74) ir. H.Th. van den Heuvel c.s.
(31) 2020159084
(32) 23.09.2020
(33) Japan
(47) 16.10.2024

(51) G03G 15/08
G03G 21/18
(11) EP3722881
(21) EP20168128.5
(22) 06.04.2020
(54) REPLACEABLE UNIT FOR AN ELECTROPHOTOGRAPHIC IMAGE FORMING DEVICE HAVING A MOVABLE ELECTRICAL CONNECTOR
(73) Lexmark International, Inc.
(72) Leemhuis, James Richard
Martin, Kyle Bradley
(74) dr. W.A.H.M. Van Borm
(31) 201916382759
(32) 12.04.2019

(33) United States of America
(47) 04.12.2024

(51) G06F 3/01
(11) EP4020137
(21) EP21196785.6
(22) 15.09.2021
(54) DYNAMICALLY RECONFIGURING A DISPLAY IN A MULTI-DISPLAY DEVICE
(73) INTEL Corporation
(72) KOKI, Tarakesava Reddy
BHAT, Praveen Kashyap Ananta
(74) ir. W.J.J.M. Kempes
(31) 202017133735
(32) 24.12.2020
(33) United States of America
(47) 30.10.2024

(51) G06F 21/14
G06N 3/045
G06F 21/62
G06N 3/08
H04W 12/02
H04L 67/10
H04L 9/40
(11) EP3547183
(21) EP19159849.9
(22) 27.02.2019
(54) AI MODEL AND DATA CAMOUFLAGING TECHNIQUES FOR CLOUD EDGE
(73) INTEL Corporation
(72) Doshi, Kshitij Arun
Prabhakaran, Suraj
Guim Bernat, Francesc Cesc
(74) ir. W.J.J.M. Kempes
(31) 201815941724
(32) 30.03.2018
(33) United States of America
(47) 30.10.2024

(51) G06F 21/56
G06F 21/53
(11) EP3652667
(21) EP18832453.7
(22) 13.07.2018
(54) SYSTEM AND METHOD FOR DETECTING MALWARE INJECTED INTO MEMORY OF A COMPUTING DEVICE
(73) Endgame, Inc.
(72) DESIMONE, Joseph, W.
(74) ir. F.A. Geurts c.s.
(31) 201715648972
(32) 13.07.2017
(33) United States of America
(47) 16.10.2024

(51) G06N 3/049
G06N 3/063
G06N 3/088
(11) EP3516594
(21) EP17853990.4
(22) 22.09.2017
(54) A NEUROMORPHIC COMPUTING DEVICE, MEMORY DEVICE, SYSTEM, AND METHOD TO MAINTAIN A SPIKE HISTORY FOR NEURONS IN A NEUROMORPHIC COMPUTING ENVIRONMENT
(73) Intel Corporation
(72) AUGUSTINE, Charles
WU, Wei
PAUL, Somnath
(74) ir. W.J.J.M. Kempes
(31) 201615273505
(32) 22.09.2016
(33) United States of America
(47) 30.10.2024

(51) G06N 3/092
G06N 3/047
G06N 3/006
G06N 3/045
(11) EP3360086
(21) EP16806345.1
(22) 11.11.2016
(54) TRAINING NEURAL NETWORKS USING A PRIORITIZED EXPERIENCE MEMORY
(73) DeepMind Technologies Limited
(72) SCHAUL, Tom
QUAN, John
SILVER, David
(74) ir. B.Ch. Ledeboer c.s
(31) 201562254610 P
(32) 12.11.2015
(33) United States of America
(47) 23.10.2024

(51) G06N 10/20
G06N 10/60
G06N 10/40
G06N 20/00
(11) EP4099233
(21) EP22179379.7
(22) 31.12.2014
(54) CONSTRUCTING AND PROGRAMMING QUANTUM HARDWARE FOR QUANTUM ANNEALING PROCESSES
(73) Google LLC
(72) MOHSENI, Masoud
NEVEN, Hartmut
(74) dr. A. Krebs
(31) 201461985348 P
201461924207 P
(32) 28.04.2014
06.01.2014
(33) United States of America
United States of America
(47) 18.12.2024

(51) G06Q 40/04
(11) EP3839869
(21) EP20212812.0
(22) 09.12.2020
(54) DYNAMIC CIRCUIT BREAKER
(73) Chicago Mercantile Exchange Inc.
(72) MILLHUFF, Paul Alan
SCHEERER, John Paul
DHILLON, Supreet
BAILEY, James Allen
HOLZRICHTER, Julie
LUSTYK, Neil Andrew
(74) dr. R.C. van Duijvenbode c.s.
(31) 201916719252
(32) 18.12.2019
(33) United States of America
(47) 13.11.2024

(51) G06T 7/12
G16H 30/40
(11) EP3707673
(21) EP18819068.0
(22) 10.12.2018
(54) METHOD AND APPARATUS FOR MEDICAL IMAGING
(73) Mirada Medical Limited
(72) ALJABAR, Paul
PERESSUTTI, Devis
GOODING, Mark John
(74) dr. R.C. van Duijvenbode c.s.
(31) 201721257
(32) 19.12.2017
(33) United Kingdom
(47) 13.11.2024

(51) G06V 10/30
(11) EP3859606
(21) EP21150698.5
(22) 08.01.2021
(54) TRAINING PROGRAM, TRAINING METHOD, AND INFORMATION PROCESSING APPARATUS
(73) RIKEN
National Cancer Center
FUJITSU LIMITED
(72) Sakai, Akira
Komatsu, Masaaki
Dozen, Ai
(74) dr. ir. F.M. van Bouwelen
(31) 2020014105
(32) 30.01.2020
(33) Japan
(47) 18.12.2024

(51) G06V 20/10
A01B 79/00
(11) EP3692464
(21) EP18778956.5
(22) 04.10.2018
(54) METHOD AND SYSTEM FOR PERFORMING DATA ANALYSIS FOR PLANT PHENOTYPING
(73) KWS SAAT SE & Co. KGaA
(72) BAUER, Christoph
GUBATZ, Sabine
DAHL, Ludmilla
JEBSEN, Christian
(74) dr. A. Krebs
(31) 17194841
(32) 04.10.2017
(33) European Patent Office (EPO)
(47) 11.12.2024

(51) G09B 21/00
G06F 3/01
(11) EP4339922
(21) EP22195612.1
(22) 14.09.2022
(54) ACTUATION MECHANISM, ACTUATION DEVICE AND METHODS FOR USING SAID ACTUATION MECHANISM AND ACTUATION DEVICE
(73) Karlsruher Institut für Technologie
(72) JOSEPH, Joel
KOHL, Manfred
(74) dr. R.C. van Duijvenbode c.s.
(47) 20.11.2024

(51) G09G 3/3266
G11C 19/28
G11C 19/18
(11) EP4092661
(21) EP22172821.5
(22) 11.05.2022

(54) SCAN DRIVER
(73) Samsung Display Co., Ltd.
(72) LEE, Jae Hoon
(74) J.M.H. Duyver lic.
(31) 20210061609
(32) 12.05.2021
(33) Korea (Republic)
(47) 18.12.2024

(51) G09G 5/00
G02B 27/00
G02B 27/01
G09G 5/14
G06F 3/14
G06F 3/147
G06F 3/01
(11) EP3827426
(21) EP19841816.2
(22) 23.07.2019
(54) DISPLAY SYSTEMS AND METHODS FOR DETERMINING REGISTRATION BETWEEN A DISPLAY AND EYES OF A USER
(73) Magic Leap, Inc.
(72) XU, Yan
PENG, Rose, Mei
CAZAMIAS, Jordan, Alexander
(74) dr. R.C. van Duijvenbode c.s.
(31) 201862702866 P
(32) 24.07.2018
(33) United States of America
(47) 11.12.2024

(51) G11C 29/02
G11C 29/50
G11C 29/12
(11) EP3979250
(21) EP21186608.2
(22) 20.07.2021
(54) 3D NONVOLATILE MEMORY DEVICE INCLUDING CHANNEL SHORT CIRCUIT DETECTION
(73) Samsung Electronics Co., Ltd.
(72) KIM, Hyungsoo
JUNG, Won-Taeck
JOO, Sang-Hyun
IM, Jaewoo
PARK, Tae-Min
(74) J.M.H. Duyver lic.
(31) 20200121631
202117319493
(32) 21.09.2020
13.05.2021
(33) Korea (Republic)
United States of America
(47) 18.12.2024

(51) G16H 40/67
G16H 10/60
H04L 43/0811
H04L 67/06
(11) EP3853866
(21) EP18834173.9
(22) 19.12.2018
(54) DATA STORAGE AND RETRIEVAL SYSTEM FOR NON-CONTIGUOUS MEDICAL DEVICE OPERATIONAL DATA
(73) Abiomed, Inc.
(72) AGNELLO, Alessandro, Simone
LEMAY, Paul, Roland
(74) J.M.H. Duyver lic.
(31) 201816137053
(32) 20.09.2018
(33) United States of America
(47) 06.11.2024

(51) H01L 21/02
H01L 21/311
C11D 3/00
C11D 7/08
C11D 7/10
(11) EP3080240
(21) EP14868924.3
(22) 09.12.2014
(54) CLEANING FORMULATION FOR REMOVING RESIDUES ON SURFACES
(73) FujiFilm Electronic Materials USA, Inc.
(72) KNEER, Emil A.
(74) dr. R.C. van Duijvenbode c.s.
(31) 201361914479 P
(32) 11.12.2013
(33) United States of America
(47) 16.10.2024

(51) H01L 21/304
H01L 21/683
C09J 7/29
C09J 7/38
H01L 21/67
(11) EP3951838
(21) EP20777870.5
(22) 26.03.2020
(54) AFFIXING DEVICE
(73) Mitsui Chemicals ICT Materia, Inc.
(72) MORIMOTO, Akimitsu
NOGAMI, Masao
(74) dr. ir. F.M. van Bouwelen
(31) 2019061828
(32) 27.03.2019
(33) Japan
(47) 01.01.2025

(51) H01L 23/367
H01L 23/467
(11) EP3843135
(21) EP20191686.3
(22) 19.08.2020
(54) FLUID DIVERTING HEAT SINK
(73) Google LLC
(72) ZUO, Xu
(74) ir. H.Th. van den Heuvel c.s.
(31) 201916725330
(32) 23.12.2019
(33) United States of America
(47) 16.10.2024

(51) H01L 31/05
H01L 31/0352
H01L 31/041
H01L 31/042
H01L 31/044
H01L 31/0687
(11) EP3297033
(21) EP17191154.8
(22) 14.09.2017
(54) REWORK AND REPAIR OF COMPONENTS IN A SOLAR CELL ARRAY
(73) The Boeing Company
(72) REHDER, Eric
(74) ir. F.A. Geurts c.s.
(31) 201715643289
201715643287
201715643285
201715643282
201715643277
201715643274
201715643279
201662394672 P
201662394641 P
201662394671 P
201662394667 P
201662394666 P
201662394649 P
201662394629 P
201662394627 P
201662394623 P
201662394616 P
201662394636 P
201662394632 P
(32) 06.07.2017
06.07.2017
06.07.2017
06.07.2017
06.07.2017
06.07.2017
06.07.2017
14.09.2016
14.09.2016
14.09.2016
14.09.2016
14.09.2016
14.09.2016
14.09.2016
14.09.2016
14.09.2016
14.09.2016
14.09.2016
14.09.2016
14.09.2016
(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
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
(47) 08.01.2025

(51) H01M 10/42
H01M 50/209
H01M 50/284
H01M 50/519
H01M 50/557
(11) EP3704758
(21) EP18804205.5
(22) 31.10.2018
(54) NESTED PROTECTION CIRCUIT MODULE BATTERY PACK
(73) Snap Inc.

(72) BEN-HAIM, Yoav
DABOV, Teodor
ARDISANA II, John Bernard
MOSKOWITZ, Douglas Wayne
(74) ir. F.A. Geurts c.s.
(31) 201762579615 P
201762579604 P
(32) 31.10.2017
31.10.2017
(33) United States of America
United States of America
(47) 30.10.2024

(51) H01M 10/643
(11) EP3716356
(21) EP20166892.8
(22) 30.03.2020
(54) CELL HOLDER FOR CYLINDRICAL CELLS
(73) Wacker Neuson Produktion GmbH & Co. KG
(72) Zreda, Jakub
Paliwoda, Jacek
(74) ir. W.J.J.M. Kempes
(31) 12813519
(32) 29.03.2019
(33) Poland
(47) 01.01.2025

(51) H01M 50/105
H01M 50/119
H01M 50/121
H01M 50/129
H01M 50/133
(11) EP4095991
(21) EP21789172.0
(22) 14.04.2021
(54) POUCH TYPE BATTERY CASE AND POUCH TYPE SECONDARY BATTERY
(73) LG Energy Solution, Ltd.
(72) KIM, Sang Hun
YU, Hyung Kyun
KANG, Min Hyeong
HWANG, Soo Ji
(74) dr. R.C. van Duijvenbode c.s.
(31) 20200045542
(32) 14.04.2020
(33) Korea (Republic)
(47) 11.12.2024

(51) H01Q 5/321
H01Q 7/00
(11) EP3920328
(21) EP19912442.1
(22) 27.12.2019
(54) DUAL-FREQUENCY ANTENNA
(73) Hangzhou Hikvision Digital Technology Co., Ltd.
(72) LIU, Jie
(74) dr. R.C. van Duijvenbode c.s.
(31) 201920139308 U
(32) 28.01.2019
(33) China
(47) 30.10.2024

(51) H04L 1/00
H04W 72/12
H04L 5/00
(11) EP3648381
(21) EP18863715.1
(22) 18.09.2018
(54) METHOD AND APPARATUS FOR DATA TRANSMISSION IN WIRELESS CELLULAR COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) YEO, Jeongho
PARK, Sungjin
OH, Jinyoung
LEE, Hyojin
KIM, Younsun
(74) dr. R.C. van Duijvenbode c.s.
(31) 20170153262
20170128268
(32) 16.11.2017
29.09.2017
(33) Korea (Republic)
Korea (Republic)
(47) 25.12.2024

(51) H04L 1/18
H04W 4/00
H04W 74/08
(11) EP3472960
(21) EP17733691.4
(22) 15.06.2017
(54) GRANT-LESS UPLINK TRANSMISSION FOR NEW RADIO
(73) InterDigital Patent Holdings, Inc.
(72) TSAI, Allan, Y.
MURRAY, Joseph, M.
XU, Tianyi
IYER, Lakshmi, R.
ZHANG, Guodong
ZHANG, Qian
ADJAKPLE, Pascal, M.
LI, Qing
CHEN, Wei
(74) dr. R.C. van Duijvenbode c.s.
(31) 201662401062 P
201662399921 P
201662373691 P
201662350550 P
(32) 28.09.2016
26.09.2016
11.08.2016
15.06.2016
(33) United States of America
United States of America
United States of America
United States of America
(47) 11.12.2024

(51) H04L 5/00
H04B 7/0408
H04B 7/06
(11) EP4218149
(21) EP21782482.0
(22) 20.09.2021
(54) METHODS AND APPARATUSES FOR SIGNALING FRAMEWORK FOR FLEXIBLE BEAM MANAGEMENT
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) VARATHARAAJAN, Sutharshun
GROSSMANN, Marcus
(74) dr. R.C. van Duijvenbode c.s.
(31) 20198747
(32) 28.09.2020
(33) European Patent Office (EPO)
(47) 04.12.2024

(51) H04L 5/00
H04W 72/0453
H04W 84/12
H04W 28/06
H04W 72/23
(11) EP4161192
(21) EP21825404.3
(22) 02.06.2021
(54) RESOURCE INDICATION METHOD, ACCESS POINT AND STATION
(73) Huawei Technologies Co., Ltd.
(72) GAN, Ming
YU, Jian
HU, Mengshi
(74) ir. W.J.J.M. Kempes
(31) 202010569190
(32) 19.06.2020
(33) China
(47) 30.10.2024

(51) H04L 9/40
G06F 21/55
G05B 19/418
(11) EP3864546
(21) EP19790093.9
(22) 03.10.2019
(54) DEPARTURE-BASED PROCESS-LEVEL DETECTION OF STEALTHY ATTACKS ON CONTROL SYSTEMS
(73) OMEN Technologies AB
(72) Almgren, Magnus
Aoudi, Wissam
(74) J.M.H. Duyver Iic.
(31) 1851335
1851255
(32) 26.10.2018
12.10.2018
(33) Sweden
Sweden
(47) 18.12.2024

(51) H04L 12/40
H04L 9/40
B60R 16/023
B60R 16/03
G06N 3/08
G06N 3/063
G06N 20/20
(11) EP4064620
(21) EP22151925.9
(22) 18.01.2022
(54) CONTROLLED MESSAGE ERROR FOR MESSAGE AND ELECTRONIC CONTROL UNIT MAPPING
(73) INTEL Corporation
(72) SASTRY, Manoj
GUTIERREZ, Christopher
AHMED, Shabbir
WANG, Qian
LESI, Vuk
JULIATO, Marcio
(74) ir. W.J.J.M. Kempes
(31) 202117214444
(32) 26.03.2021
(33) United States of America
(47) 30.10.2024

(51) H04L 41/0654
H04L 41/40
G06F 9/455
(11) EP3761563
(21) EP19777190.0

(22) 18.03.2019
(54) DEVICE AND METHOD FOR NETWORK RESOURCE MANAGEMENT IN NETWORK FUNCTION VIRTUALIZATION ENVIRONMENT
(73) Samsung Electronics Co., Ltd.
(72) AHN, Taehyoung
SONG, Bohyun
YUN, Ilkook
(74) dr. R.C. van Duijvenbode c.s.
(31) 20180037297
(32) 30.03.2018
(33) Korea (Republic)
(47) 01.01.2025

(51) H04N 19/577
H04N 19/513
H04N 19/70
(11) EP3771211
(21) EP19776934.2
(22) 11.01.2019
(54) BIDIRECTIONAL INTER-PREDICTION METHOD AND DEVICE
(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) CHEN, Huanbang
CHEN, Jianle
YANG, Haitao
(74) ir. W.J.J.M. Kempes
(31) 201810274457
(32) 29.03.2018
(33) China
(47) 23.10.2024

(51) H04W 4/024
H04W 4/33
F24F 11/00
(11) EP3871428
(21) EP19797410.8
(22) 04.10.2019
(54) SYSTEM FOR MONITORING SMART UTILITIES
(73) Carrier Corporation
(72) SWAMI, Aditya
KOTTUR, Guru Charan
(74) J.M.H. Duyver lic.
(31) 201811040476
(32) 26.10.2018
(33) India
(47) 18.12.2024

(51) H04W 4/90
H04W 4/02
H04M 3/51
H04W 12/08
G08B 25/04
H04M 11/04
G08B 25/00
G08B 21/02
G08B 25/01
H04M 1/72424
H04M 3/42
H04W 12/33
H04W 76/50
H04L 9/40
G08B 27/00
(11) EP3304514
(21) EP16800674.0
(22) 25.05.2016
(54) SYSTEMS AND METHODS FOR PROVIDING ASSISTANCE IN AN EMERGENCY
(73) Noonlight, Inc.
(72) KUNNEMANN, Aaron, Mikkael
WOMACK, Christopher, Chad
WINKLER, William, Zachary
(74) dr. R.C. van Duijvenbode c.s.
(31) 201562179978 P
201562179976 P
201562179977 P
(32) 26.05.2015
26.05.2015
26.05.2015
(33) United States of America
United States of America
United States of America
(47) 16.10.2024

(51) H04W 16/28
(11) EP3713278
(21) EP18879207.1
(22) 10.10.2018
(54) BEAM FAILURE RECOVERY REQUEST SENDING AND RECEIVING METHOD, APPARATUS AND SYSTEM
(73) Vivo Mobile Communication Co., Ltd.
(72) MA, Jingzhi
SUN, Peng
YANG, Yu
(74) J.M.H. Duyver lic.
(31) 201711148199
(32) 17.11.2017
(33) China
(47) 18.12.2024

(51) H04W 28/16
H04W 72/12
H04W 84/12
H04W 74/08
H04W 92/20
(11) EP3742824
(21) EP18905066.9
(22) 25.09.2018
(54) METHOD FOR MULTIPLE ACCESS POINT (AP) COORDINATED TRANSMISSION AND RELATED DEVICE
(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) GUO, Yuchen
(74) ir. W.J.J.M. Kempes
(31) 201810133190
(32) 08.02.2018
(33) China
(47) 06.11.2024

(51) H04W 48/12
H04W 4/00
H04L 5/00
H04W 72/04
(11) EP3809759
(21) EP20193419.7
(22) 04.10.2013
(54) METHOD AND APPARATUSES FOR TRANSMITTING FEEDBACK
(73) InterDigital Patent Holdings, Inc.
(72) RUDOLF, Marian
NAZAR, Shakrokh
LEE, Moon-il
HAIM, John W.
TAMAKI, Nobuyuki
SADEGHI, Pouriya
STERN-BERKOWITZ, Janet A.
(74) dr. R.C. van Duijvenbode c.s.
(31) 201361863223 P
201361807945 P
201361753263 P
201261710315 P
(32) 07.08.2013
03.04.2013
16.01.2013
05.10.2012
(33) United States of America
United States of America
United States of America
United States of America
(47) 04.12.2024

(51) H04W 48/20
H04W 76/10
H04W 36/00
H04W 48/12
H04W 48/16
H04W 84/04
(11) EP3703419
(21) EP17930967.9
(22) 03.11.2017
(54) NETWORK ACCESS METHOD AND USER EQUIPMENT
(73) Beijing Xiaomi Mobile Software Co.
(72) HONG, Wei
(74) J.M.H. Duyver lic.
(47) 01.01.2025

(51) H04W 72/12
H04W 72/04
H04W 72/1268
(11) EP4080979
(21) EP22178254.3
(22) 07.08.2018
(54) USER EQUIPMENT AND CORRESPONDING METHOD
(73) NEC Corporation
(72) AWAD, Yassin Aden
ARNOTT, Robert
IJAZ, Ayesha
(74) ir. J.C. Volmer c.s.
(31) 201712863
(32) 10.08.2017
(33) United Kingdom
(47) 04.12.2024

(51) H04W 74/0833
(11) EP4158981
(21) EP21728248.2
(22) 27.05.2021
(54) UE RACH RESOURCE CONFIGURATION SELECTION FUNCTION AND RESOURCE PRIORITIZATION TO SUPPORT SLICING
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) SCHIERL, Thomas
FEHRENBACH, Thomas
WIRTH, Thomas
SELVANESAN, Sarun
HELLGE, Cornelius
SEIDEL, Eiko
(74) ir. F.A. Geurts c.s.
(31) 20177545
(32) 29.05.2020

(33) European Patent Office (EPO)
(47) 16.10.2024

(51) H05K 1/02
H04M 1/02
(11) EP4131905
(21) EP22741140.2
(22) 18.01.2022
(54) FLEXIBLE CIRCUIT BOARD ASSEMBLY AND ELECTRONIC DEVICE
(73) Honor Device Co., Ltd.
(72) LI, Mingchuan
YANG, Xiujuan
WANG, Wenhao
(74) ir. W.J.J.M. Kempes
(31) 202110700216
(32) 23.06.2021
(33) China
(47) 18.12.2024

EP4

Voor Nederland verleende gewijzigde Europese octrooien.
European patents granted in amended form for the Netherlands.

(51) A61K 31/57
A61K 47/69
A61P 25/00
A61P 25/08
(11) EP2806877
(21) EP13740743.3
(22) 23.01.2013
(54) NEUROACTIVE STEROID FORMULATIONS COMPRISING A COMPLEX OF ALLOPREGNANOLONE AND SULFOBUTYL ETHER BETA-CYCLODEXTRIN
(73) Sage Therapeutics, Inc.
(74) ir. M.F.J.M. Ketelaars c.s.
(72) REDDY, Kiran
(31) 201261589740 P
(32) 23.01.2012
(33) United States of America
(47) 09.10.2019

---

(51) H05B 3/84
B60R 11/04
(11) EP2823689
(21) EP13703378.3
(22) 06.02.2013
(54) DISC ASSEMBLY WITH ELECTRICALLY HEATED LIGHT SCATTERING APERTURE
(73) Saint-Gobain Glass France
(74) ir. F.A. Geurts c.s.
(72) TIMMERMANN, Alwin
WOHLFEIL, Dirk
(31) 12158006
(32) 05.03.2012
(33) European Patent Office (EPO)
(47) 17.10.2018

EP5

Voor Nederland verleende gewijzigde Europese octrooien waarvoor een gewijzigde vertaling is ingediend ex artikel 52 lid 6 van de Rijksoctrooiwet 1995.
European patents granted in amended form for the Netherlands in which an amended translation was filed ex Article 52 par. 6 of the NL Patent Law 1995.

(51) A47C 23/00
(11) EP3669704
(21) EP19215745.1
(22) 12.12.2019
(54) SUPPORT SYSTEM
(73) Diemer & Dr. Jaspert GbR
(72) Diemer, Gregor
Jaspert, Bodo F.
(74) dr. R.C. van Duijvenbode c.s.
(31) 202018107196 U
(32) 17.12.2018
(33) Germany
(47) 24.02.2021

(51) B23K 35/02
B23K 35/30
B23K 35/38
C22C 38/04
C22C 38/18
B62D 29/00
C21D 1/673
C21D 9/48
C21D 9/50
B32B 15/01
B23K 26/32
B23K 101/34
B23K 103/08
B23K 103/00
B23K 26/60
C23C 28/02
(11) EP2736672
(21) EP12756555.4
(22) 23.07.2012
(54) HOT-FORMED WELDED PART HAVING HIGH RESISTANCE AND PROCESS TO PRODUCE SUCH A PART
(73) Arcelormittal Investigación y Desarrollo SL
(72) YIN, Qingdong
EHLING, Wolfram
CRETTEUR, Laurent
SCHMIT, Francis
(31) PCT/IB2011/001725
(32) 26.07.2011
(33) World Intellectual Property Office (WIPO)
(47) 30.09.2015

(51) F03D 13/00
F03D 1/00
(11) EP3027900
(21) EP15715804.9
(22) 31.03.2015
(54) TEMPORARY MAINTENANCE ENCLOSURES AND METHODS OF MAINTAINING TURBINE BLADES
(73) Ventura Wind Energy Limited
(72) FLETCHER, David
(74) ir. H.Th. van den Heuvel c.s.
(31) 201406379
(32) 09.04.2014
(33) United Kingdom
(47) 16.01.2019

(51) F03D 13/40
B66C 23/20
B66C 23/18
B66C 23/32
F03D 13/10
E04H 12/34
(11) EP3568372
(21) EP18702569.7
(22) 15.01.2018
(54) METHOD FOR ONSHORE OR OFFSHORE ERECTING AN UPSTANDING CONSTRUCTION
(73) Mammoet Holding B.V.
(72) HELMENS, Wessel
(74) mr. ir. J. van Breda c.s.
(31) 2019462
2019075
2018176
(32) 29.08.2017
15.06.2017
16.01.2017
(33) Netherlands
Netherlands
Netherlands
(47) 20.10.2021

(51) G01S 15/89
G01S 7/534
G01S 15/32
(11) EP3362817
(21) EP17790085.9
(22) 02.04.2017
(54) MULTIMISSION AND MULTISPECTRAL SONAR
(73) R3Vox Ltd.
(72) CHUN, Mark
TIEMANN, Christopher
STEENSTRUP, Jens
HOBART, Kirk
(74) ir. C.G.C. Veldman-Dijkers
(31) 201715476137
201662329631 P
(32) 31.03.2017
29.04.2016
(33) United States of America
United States of America
(47) 01.12.2021

SPC

Aangevraagde en verleende aanvullende beschermingsertificaten (of de verlengingen van de aanvullende beschermingscertificaten).
Applications and granted Supplementary Protection Certificates (or the extensions of the Supplementary Protection Certificates).

(21) 350115
(22) 04.11.2024
(11) 350115
(73) Corteva Agriscience LLC
(74) dr. R.C. van Duijvenbode c.s.
(68) EP2180790
(54) SYNERGISTIC HERBICIDAL COMPOSITION CONTAINING CERTAIN PYRIDINE CARBOXYLIC ACIDS AND CERTAIN CEREAL AND RICE HERBICIDES.
(92) 16702 N 05.06.2024
(94) 21.08.2033
(95) halauxifen, desgewenst in de vorm van een voor de landbouw aanvaardbaar zout, ester of amide daarvan, in het bijzonder halauxifen methyl, en pyroxsulam
(93) R-185/2018 11.12.2018
(47) 27.01.2025

VB1

Herstelverzoeken, bezwaarschriften, beroepschriften of hoger beroepschriften ingediend ex Rijksoctrooiwet 1995. Oppositie(s) ingediend ex Europees Octrooiverdrag.
Requests for restoration and notices of objection, notices of objection to Court, notices of objection to appelate court ex NL Patent Law 1995. Opposition(s) filed ex European Patent Convention.

(11) EP2629969
(51) B41F 17/22
G01N 21/956
G01N 21/952
B41F 17/00
B41F 33/02
B41F 33/00
B41M 1/40
(00) 12/24
20.03.2024

(11) EP3218044
(51) A61M 39/10
(00) 14/24
03.04.2024

(11) EP3226887
(51) A61K 35/18
A61K 38/18
A61K 35/14
A61K 38/17
A61K 39/395
C07K 14/495
C07K 14/71
C12Q 1/6883
A61P 7/00
A61P 7/06
A61P 35/02
A61P 43/00
(00) 13/24
27.03.2024

(11) EP3373972
(51) A61K 9/00
A61K 9/08
A61K 9/14
A61K 45/06
A61K 31/575
A61K 31/5025
A61K 31/519
A61P 25/28
A61P 25/00
A61P 25/02
A61P 21/00
(00) 12/24
20.03.2024

(11) EP3565551
(51) A61K 31/407
A61K 31/69
A61P 13/02
A61P 13/12
A61P 31/04
(00) 12/24
20.03.2024

(11) EP3571290
(51) C12N 5/071
C12N 5/02
C12N 5/0735
C12N 5/074
(00) 15/24
10.04.2024

(11) EP3608238
(51) A61L 2/04
A61L 2/07
A61L 2/08
A61L 2/10
A61L 2/18
B29C 49/42
B29C 49/46
B65B 55/08
B65B 55/10
B65B 55/14
B67C 7/00
B29C 49/06
(00) 13/24
27.03.2024

(11) EP3630946
(51) C12N 5/00
C12P 21/02
C07K 16/00
(00) 13/24
27.03.2024

(11) EP3711758
(51) A61K 31/41
A61K 31/16
A61P 25/08
A61P 25/10
(00) 13/24
27.03.2024

(11) EP3712079
(51) B65B 65/02
B65B 65/00
B65B 47/00
B65B 9/04
B65B 51/14
(00) 12/24
20.03.2024

(11) EP3849920
(51) B65D 83/38
B65D 1/02
B29L 31/00
(00) 12/24
20.03.2024

(11) EP3927991
(51) F16D 25/0638
F16D 13/70
(00) 14/24
03.04.2024

(11) EP3929143
(51) B66D 1/04
B66D 1/28
B66D 1/56
B66D 1/14
(00) 15/24
10.04.2024

(11) EP4199991
(51) A61M 3/02
A61M 25/04
(00) 12/24
20.03.2024

(11) EP4211213
(51) C11D 1/32
C11D 3/50
C11D 17/00
(00) 14/24
03.04.2024

VB2

Beslissingen genomen op herstelverzoeken, bezwaarschriften, beroepschriften of hoger beroepschriften ex Rijksoctrooiwet 1995. Oppositie(s) beslissingen ex Europees Octrooiverdrag.
Requests for restoration and notices of objection, notices of objection to Court, notices of objection to appelate court ex NL Patent Law 1995 in respect of which a decision has been taken. Opposition(s) decisions ex European Patent Convention.

(11) 1042092
(51) A63B 69/12
(00) 45/24
06.11.2024
(00) 27.01.2025
(00) Positive

(11) 1042598
(51) F16M 11/00
G03B 17/00
G03B 17/08
(00) 45/24
06.11.2024
(00) 27.01.2025
(00) Positive

(11) EP2960547
(51) F16H 39/02
F16H 39/04
F16H 47/04
F16H 57/00
F16H 61/4183

(11) EP3697715
(51) B66B 9/08
(00) 42/23
18.10.2023

(11) EP3738753
(51) B29C 70/08
D02G 3/00
B29C 70/16
D02J 1/18
D02G 3/04
D01D 11/02
B29D 99/00
D06C 3/00
B29C 70/50
D02G 3/40
D04H 3/04

(11) EP3768622
(51) B65G 47/24
B65G 54/02

(11) EP3826191
(51) H04B 1/707
H04J 1/00
H04J 11/00
H04W 72/04
(00) 36/24
04.09.2024

(11) EP3932270
(51) A47J 31/52
A47J 31/54
A47J 31/56

(11) EP4017674
(51) B23K 26/046
B23K 26/08
B23K 26/38
B23K 101/18

(11) EP4096244
(51) H04W 4/00
H04B 1/713
H04J 1/00
H04L 5/00
H04J 11/00

MED

Overige mededelingen.
Other communications.

(11) 1039632
(00) 10.01.2025
(51) B03C 3/10
B03C 3/74
E01C 1/00
(00) Established

(11) 2006919
(00) 10.01.2025
(51) F24D 5/08
F24D 11/00
(00) Established

(11) 2007548
(00) 17.01.2025
(51) B03C 3/12
B03C 3/36
B03C 3/41
B03C 3/86
(00) Established

(11) 2008818
(00) 17.01.2025
(51) B03C 3/12
B03C 3/36
B03C 3/41
B03C 3/86
(00) Established

(11) 2019974
(00) 17.01.2025
(51) A61B 17/00
A61B 17/04
A61B 17/062
A61B 17/08
(00) Established

(11) 2025646
(00) 17.01.2025
(51) B03C 3/06
B03C 3/12
B03C 3/49
(00) Established

(11) EP2779915
(00) 17.01.2025
(51) A61B 17/04
(00) Established

(11) EP2806877
(51) A61K 31/57
A61K 47/69
A61P 25/00
A61P 25/08

(11) EP2823689
(51) H05B 3/84
B60R 11/04

(11) EP3874947
(00) 11.12.2024
(51) A01M 7/00
(00) Based on request sender

(11) EP3913453
(00) 11.12.2024
(51) G05B 23/02
(00) Based on request sender

VRV

Verval of nietigverklaring.
Lapse or annulment.

(11) 300872
(00) 01.09.2025
(00) SPC got Invalid due to parent patent lapse

(11) EP1559940
(00) 27.01.2025
(00) Patent Expired

(11) EP1559941
(00) 27.01.2025
(00) Patent Expired

(11) EP1561483
(00) 28.01.2025
(00) Patent Expired

(11) EP1561488
(00) 28.01.2025
(00) Patent Expired

(11) EP1568627
(00) 28.01.2025
(00) Patent Expired

(11) EP1571275
(00) 29.01.2025
(00) Patent Expired

(11) EP1587315
(00) 26.01.2025
(00) Patent Expired

(11) EP1664318
(00) 28.01.2025
(00) Patent Expired

(11) EP1695767
(00) 28.01.2025
(00) Patent Expired

(11) EP1708722
(00) 27.01.2025
(00) Patent Expired

(11) EP1709145
(00) 26.01.2025
(00) Patent Expired

(11) EP1709291
(00) 28.01.2025
(00) Patent Expired

(11) EP1709730
(00) 28.01.2025
(00) Patent Expired

(11) EP1709801
(00) 26.01.2025
(00) Patent Expired

(11) EP1711248
(00) 26.01.2025
(00) Patent Expired

(11) EP1711614
(00) 28.01.2025
(00) Patent Expired

(11) EP1711816
(00) 27.01.2025
(00) Patent Expired

(11) EP1711843
(00) 27.01.2025
(00) Patent Expired

(11) EP1712019
(00) 27.01.2025
(00) Patent Expired

(11) EP1712087
(00) 26.01.2025
(00) Patent Expired

(11) EP1713776
(00) 28.01.2025
(00) Patent Expired

(11) EP1713813
(00) 28.01.2025
(00) Patent Expired

(11) EP1713825
(00) 28.01.2025
(00) Patent Expired

(11) EP1713831
(00) 28.01.2025
(00) Patent Expired

(11) EP1714063
(00) 29.01.2025
(00) Patent Expired

(11) EP1717897
(00) 28.01.2025
(00) Patent Expired

(11) EP1719085
(00) 27.01.2025
(00) Patent Expired

(11) EP1720642
(00) 26.01.2025
(00) Patent Expired

(11) EP1723527
(00) 26.01.2025
(00) Patent Expired

(11) EP1749316
(00) 26.01.2025
(00) Patent Expired

(11) EP1750953
(00) 28.01.2025
(00) Patent Expired

(11) EP1754388
(00) 27.01.2025
(00) Patent Expired

(11) EP1841997
(00) 28.01.2025
(00) Patent Expired

(11) EP1893558
(00) 22.11.2024
(00) European Patent got Revoked

(11) EP2109016
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2187879
(00) 16.11.2023
(00) European Patent got Revoked

(11) EP2242183
(00) 28.01.2025
(00) Patent Expired

(11) EP2301958
(00) 28.01.2025
(00) Patent Expired

(11) EP2305703
(00) 28.01.2025
(00) Patent Expired

(11) EP2326120
(00) 28.01.2025
(00) Patent Expired

(11) EP2360086
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2384002
(00) 26.01.2025
(00) Patent Expired

(11) EP2451212
(00) 28.01.2025
(00) Patent Expired

(11) EP2464959
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2586528
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2641006
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2723003
(00) 27.01.2025
(00) Patent Expired

(11) EP2741990
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2744981
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2751693
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2833532
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2846869
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2851259
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2873709
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2882072
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2890880
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2891589
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2914971
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2932253

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2946416
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2960927
(00) 27.01.2025
(00) Patent Expired

(11) EP2967873
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP2972550
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3013424
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3014956
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3024528
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3025422
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3033646
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3037494
(00) 24.09.2024
(00) European Patent got Revoked

(11) EP3039252
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3052122
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3070500
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3073164
(00) 28.01.2025
(00) Patent Expired

(11) EP3083329
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3108057
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3114318
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3118934
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3126640
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3150344
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3153918
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3154411
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3158691
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3167233
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3171917
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3176410
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3178398
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3182916
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3184977
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3187095
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3192616
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3193969
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3195477
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3197953
(00) 08.11.2024
(00) European Patent got Revoked

(11) EP3202565
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3204785
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3208985
(00) 27.01.2025
(00) Patent Expired

(11) EP3211077
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3214753
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3215357
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3217031
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3220531
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3222210
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3230775
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3231356
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3232863
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3232955
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3233155
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3242388
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3252777
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3260575
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3262274
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3262618
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3263040
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3264968
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3265337
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3265682
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3265869
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3268715
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3268843
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3269412
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3272449
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3275518
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3279701
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3280319
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3281102

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3284416
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3284919
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3292363
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3293525
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3294864
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3297407
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3299326
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3309913
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3312871
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3318297
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3319559
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3320410
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3320466
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3322306
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3324309
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3325125
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3325385
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3327095
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3329039
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3329074
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3332034
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3332271
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3332424
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3334474
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3335508
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3336062
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3337428
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3337773
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3339376
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3341075
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3344937
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3346499
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3347380
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3347504
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3349444
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3350665
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3355596
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3356118
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3357288
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3359028
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3359217
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3363911
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3368820
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3371617
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3376144
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3385921
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3387481
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3393972
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3402439
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3404421
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3406426
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3411299
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3414895
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3416002
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3417338
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3418701
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3419353
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3423556
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3423748
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3428175
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3428602
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3428658
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3430526
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3432380
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3432815
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3434216

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3435993
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3443892
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3444626
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3444979
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3446208
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3446962
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3448248
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3448818
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3449380
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3451802
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3457652
(00) 27.01.2025
(00) Patent Expired

(11) EP3458953
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3463993
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3464163
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3468635
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3469156
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3470528
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3478333
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3479112
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3485084
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3485293
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3485744

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3486635
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3489908
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3492220
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3493119
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3493440
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3496202
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3496629
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3498255
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3499283
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3499472
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3500480
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3501604
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3505712
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3505870
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3508590
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3509403
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3510691
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3512133
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3512280
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3513668
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3513958
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3518111

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3519272
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3519474
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3520690
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3521749
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3521873
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3523026
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3523809
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3523952
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3524958
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3526598
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3532380
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3539168
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3541529
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3541630
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3542291
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3544279
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3544994
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3545293
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3546337
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3546422
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3548602
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3549120

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3550427
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3550708
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3551913
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3552123
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3552571
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3552690
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3553543
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3553669
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3554305
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3554758
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3555225
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3555897
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3557310
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3557521
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3559101
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3559921
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3560875
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3563570
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3568422
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3570515
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3572559
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3572659
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3572837
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3573142
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3576460
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3576853
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3577611
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3578963
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3580904
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3581770
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3582736
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3583755
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3584343
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3585214
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3588099
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3590070
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3591275
(00) 28.01.2025
(00) Patent Expired

(11) EP3591692
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3592444
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3593180
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3593737
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3594454
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3594623
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3598620
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3599751
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3599915
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3602116
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3603939
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3604689
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3604731
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3605158
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3605994
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3606263
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3608094
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3610796
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3610980
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3611627
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3611818
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3612326
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3613929
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3615515
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3617703
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3618264
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3618762
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3621521
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3623010

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3624789
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3625659
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3629964
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3631445
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3631525
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3631716
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3632377
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3635037
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3636741
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3639601
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3639900
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3641340
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3641683
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3642152
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3648439
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3648482
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3649908
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3650565
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3651995
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3652520
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3652567
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3653759
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3654361
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3654699
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3659091
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3660060
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3660096
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3660779
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3660857
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3661158
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3661472
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3663719
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3664041
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3665007
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3667055
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3667647
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3667954
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3669365
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3669366
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3669505
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3670081
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3670263
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3672476
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3672782
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3673362
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3673510
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3676005
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3676198
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3676648
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3677402
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3677707
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3677959
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3678003
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3682334
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3682735
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3683910
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3684613
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3684887
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3686167
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3686661
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3686702
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3689316
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3690041
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3693728
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3694121
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3694248

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3694349
(00) 23.02.2022
(00) EPV Ceased Effect

(11) EP3694807
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3695203
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3695255
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3695335
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3695342
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3695496
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3695597
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3695887
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3696109
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3700420
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3701152
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3701820
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3701911
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3702902
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3703637
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3705531
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3706225
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3706310
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3706354
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3707975
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3708299
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3708532
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3709304
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3709485
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3710398
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3711052
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3711850
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3712307
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3712660
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3713152
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3714374
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3714758
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3716399
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3716483
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3716546
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3718330
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3718428
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3719223
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3720235
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3722775
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3723080
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3723174
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3726480
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3727634
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3728720
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3729805
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3730096
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3730568
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3732769
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3735084
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3738682
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3739103
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3739739
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3740112
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3741121
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3743192
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3744108
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3745611
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3749914
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3751255
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3751884
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3752256
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3752560
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3752945
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3754460

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3755241
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3756295
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3756392
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3758152
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3758402
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3758502
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3758900
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3759418
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3759502
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3759657
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3760932
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3761360
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3761580
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3761684
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3763412
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3764063
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3764226
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3764362
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3764672
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3765336
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3766267
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3766399

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3766596
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3767349
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3767860
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3767982
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3768818
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3770405
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3772568
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3773171
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3774494
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3774974
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3775571
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3776425
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3776506
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3777186
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3777477
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3777917
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3778128
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3778402
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3780009
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3780295
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3781107
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3781639

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3781729
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3782065
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3782635
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3782646
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3783469
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3783829
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3785429
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3785589
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3786215
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3786552
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3787520
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3787551
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3787975
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3788821
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3791679
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3791990
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3793497
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3793668
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3797090
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3797091
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3797355
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3797877

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3798166
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3800327
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3801885
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3802088
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3802994
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3803473
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3804120
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3804289
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3805104
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3806320
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3806383
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3807806
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3808512
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3809022
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3809575
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3809634
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3809946
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3812796
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3813913
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3814345
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3814464
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3814546
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3814609
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3814773
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3817691
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3818835
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3819998
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3820061
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3820186
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3821120
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3821569
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3822913
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3823278
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3823839
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3823840
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3825818
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3828538
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3828550
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3829678
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3829977
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3830651
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3832714
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3833691
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3835284
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3835725
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3836473
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3837086
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3837538
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3839716
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3840073
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3840988
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3841131
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3841269
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3841752
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3841831
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3842938
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3842996
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3843261
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3843591
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3844714
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3845948
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3845949
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3846239
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3847525
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3849884
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3850607

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3851844
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3852375
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3854257
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3854624
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3855002
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3857877
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3858520
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3859981
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3860109
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3862542
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3863037
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3863203
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3863265
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3863317
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3864213
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3864459
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3865900
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3868798
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3869698
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3872087
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3872543
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3872589
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3873057
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3874732
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3875130
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3875965
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3876848
(00) 04.01.2023
(00) EPV Ceased Effect

(11) EP3876869
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3877012
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3877750
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3877909
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3878753
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3879394
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3880098
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3880511
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3881067
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3882134
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3882162
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3882943
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3883092
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3883417
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3886535
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3887751
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3889068
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3889752
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3891065
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3892624
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3892661
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3892931
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3893387
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3896254
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3896257
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3896692
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3896792
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3897355
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3899430
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3899564
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3900953
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3901394
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3901835
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3902630
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3903203
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3903854
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3904644
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3905489
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3905960

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3906070
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3906083
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3906762
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3906934
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3907535
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3909001
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3909811
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3909854
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3911010
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3911040
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3911846
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3912064
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3912756
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3913879
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3914764
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3914888
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3914928
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3915498
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3915591
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3915826
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3917081
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3917159
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3917267
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3918762
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3919708
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3920235
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3920466
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3920794
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3922421
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3923492
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3923538
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3923641
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3925101
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3925198
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3926886
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3927255
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3927366
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3928990
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3929136
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3931092
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3932320
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3932379
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3934207
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3934303
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3934453
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3935247
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3935986
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3936483
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3936958
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3938003
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3938869
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3939812
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3940194
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3940360
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3940387
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3940434
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3940470
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3940477
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3940821
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3941064
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3941366
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3943243
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3944540
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3944639
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3944876
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3946065

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3946818
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3947065
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3948044
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3948821
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3949896
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3951040
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3951879
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3952444
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3953167
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3953193
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3954294
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3954885
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3955012
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3955375
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3955574
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3955615
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3957834
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3957857
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3958290
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3958392
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3958455
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3958517

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3960091
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3960288
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3960302
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3960482
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3960632
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3960672
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3961879
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3962471
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3962753
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3963858
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3964547
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3966849
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3968497
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3968530
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3970459
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3971410
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3971538
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3971669
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3972196
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3972494
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3973120
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3973190

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3973915
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3973930
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3975093
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3975172
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3975444
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3975599
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3975640
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3975807
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3976338
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3979045
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3979294
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3979387
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3979504
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3980253
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3980262
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3980845
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3980997
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3981133
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3981162
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3981370
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3981580
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3981755

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3982095
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3982443
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3982658
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3983662
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3984756
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3986719
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3986746
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3987842
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3987991
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3988841
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3988849
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3989197
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3989487
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3990830
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3991528
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3991952
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3991970
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3992626
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3992643
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3992676
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3992746
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3992760

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3995107
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3995321
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3995632
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3995960
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3996092
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3997507
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3997525
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3998784
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3999784
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP3999894
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4000961
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4001880
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4002023
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4002089
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4002112
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4002888
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4004507
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4004715
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4005484
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4006020
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4006646
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4007927

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4008197
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4008209
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4008218
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4008658
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4009887
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4010664
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4010692
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4010825
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4011021
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4013656
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4013682
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4014476
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4014979
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4015228
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4015266
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4015886
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4015968
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4017370
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4017635
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4017673
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4017840
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4018773

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4019750
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4019807
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4021362
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4021714
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4022122
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4022249
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4022271
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4022659
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4022865
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4023913
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4026591
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4026647
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4027291
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4027770
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4030406
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4030720
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4030775
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4033509
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4034428
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4035866
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4038605
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4039960
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4039987
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4040167
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4040597
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4040662
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4040812
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4041090
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4041413
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4041988
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4043148
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4043175
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4043723
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4043841
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4044126
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4044525
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4044557
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4045267
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4049045
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4049343
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4049429
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4049433
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4049564
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4049889
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4050195
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4050241
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4050282
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4051722
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4052959
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4053341
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4054019
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4054067
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4054737
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4056066
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4056433
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4056437
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4056588
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4056628
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4056768
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4057277
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4057384
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4057855
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4059125
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4061670
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4062179
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4062762

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4063218
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4063240
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4063943
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4063977
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4064664
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4065026
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4065854
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4065865
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4066244
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4066972
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4067054
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4067117
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4067412
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4067578
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4067938
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4068130
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4068550
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4068725
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4068815
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4070285
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4070722
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4070973
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4071756
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4071973
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4072423
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4072445
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4073213
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4073307
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4073411
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4074561
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4075621
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4076111
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4076789
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4077074
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4077134
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4077897
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4078254
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4079566
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4079773
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4079786
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4080964
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4081299
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4081833
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4082164
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4082894
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4083272
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4084210
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4085248
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4085440
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4087483
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4089356
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4091185
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4093288
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4093669
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4094457
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4094617
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4094930
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4096184
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4097820
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4097959
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4098155
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4098212
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4099316
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4099749
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4100855
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4101286

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4103416
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4104047
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4104658
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4104886
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4104916
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4105098
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4105556
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4105557
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4105657
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4106010
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4106493
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4107337
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4108133
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4108154
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4109230
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4109441
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4109582
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4109862
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4111033
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4113083
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4114748
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4114814
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4115086
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4115087
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4116241
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4116243
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4116630
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4116836
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4117305
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4117575
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4118260
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4119115
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4119865
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4120015
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4120025
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4120662
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4122303
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4124440
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4124477
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4125201
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4125303
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4126456
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4126600
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4127435
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4129146
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4130445
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4130846
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4130921
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4130993
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4132153
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4132252
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4133371
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4134527
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4134682
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4134819
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4135206
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4135382
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4135518
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4135519
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4135520
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4135521
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4135523
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4136332
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4137190
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4137661
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4137688

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4137995
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4138057
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4138371
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4138705
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4141263
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4141717
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4142216
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4142351
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4142370
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4143527
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4143534
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4143635
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4145273
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4146371
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4146431
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4147320
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4147835
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4148382
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4148798
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4150235
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4150296
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4150622
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4150631
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4151153
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4151476
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4152401
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4154455
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4156778
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4157725
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4159153
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4159484
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4160435
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4161028
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4161134
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4162836
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4163200
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4163579
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4163963
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4164174
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4166956
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4167618
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4169727
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4170059
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4170122
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4170195
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4170511
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4170536
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4170821
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4173359
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4173771
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4173848
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4174220
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4174355
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4174379
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4174456
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4174811
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4175525
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4175528
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4176116
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4178135
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4179132
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4180584
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4183033
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4183603
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4183641
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4184406

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4185093
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4185978
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4186542
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4186760
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4187181
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4187363
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4188246
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4188650
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4189469
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4189520
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4190543
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4191921
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4192034
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4192400
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4192751
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4193820
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4194244
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4196439
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4196666
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4196705
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4197387
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4197496
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4197863
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4198391
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4198753
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4199222
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4199355
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4201409
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4201775
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4201779
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4201876
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4202237
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4202358
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4204413
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4204503
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4206108
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4206435
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4206572
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4206573
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4208429
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4209327
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4211454
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4212587
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4212588
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4215392
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4217646
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4218363
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4219377
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4221114
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4225616
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4225845
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4227163
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4227569
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4227830
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4228905
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4229308
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4229849
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4230893
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4232127
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4232737
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4232789
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4234857
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4235281
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4235412
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4236268
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4236760

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4237608
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4237664
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4238151
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4238308
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4240572
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4240919
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4242599
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4242774
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4244071
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4244092
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4244171
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4245025
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4245583
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4249873
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4250523
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4251423
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4251688
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4252979
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4253149
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4254460
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4254853
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4255708
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4255762
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4258257
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4260624
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4261549
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4263305
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4264074
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4264598
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4264859
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4268284
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4269173
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4269961
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4273465
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4274781
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4274950
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4275060
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4275124
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4275135
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4277066
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4281398
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4282394
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4282395
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4282559
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4282708
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4283656
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4286317
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4289681
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4291097
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4294637
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4294857
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4295034
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4302107
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4302722
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4303013
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4303459
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4306292
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4307706
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4308950
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4310163
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4311741
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4312948
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4317822
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4321801
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4326579
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4327354

(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4347965
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4355162
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4359684
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4361800
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4363096
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4363875
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4365451
(00) 25.09.2024
(00) EPV Ceased Effect

(11) EP4384917
(00) 25.09.2024
(00) EPV Ceased Effect

VRB

Correcties op eerdere publicaties.
Corrections on earlier publications.

CO

Wijzigingen in het Nederlands Octrooiregister.
Changes in the Netherlands Patent Register.

(71) Merz Pharmaceuticals, LLC
(73) Merz Pharmaceuticals, LLC
(11) 300515
(00) 22.01.2025
(00) Assignment

(71) KNDS France
(73) KNDS France
(11) EP2048510
(00) 22.01.2025
(51) F41H 11/16
G01R 33/02
(00) Change of owner(s) name

(71) Merz Pharmaceuticals, LLC
(73) Merz Pharmaceuticals, LLC
(11) EP1732548
(00) 22.01.2025
(51) A61K 31/44
(00) Assignment

(71) KNDS Ammo France
(73) KNDS Ammo France
(11) EP1780495
(00) 22.01.2025
(51) F42C 15/34
(00) Change of owner(s) name

(71) KNDS Ammo France
(73) KNDS Ammo France
(11) EP1780496
(00) 22.01.2025
(51) F42C 15/184
(00) Change of owner(s) name

(71) AVS Verkehrssicherung GmbH
(73) AVS Verkehrssicherung GmbH
(11) EP1927699
(00) 20.01.2025
(51) E01F 15/04
(00) Change of owner(s) name

(71) AVS Overath GmbH
(73) AVS Verkehrssicherung GmbH
(11) EP1927699
(00) 20.01.2025
(51) E01F 15/04
(00) Merge

(71) DIANA FOOD
(73) DIANA FOOD
(11) EP2012818
(00) 22.01.2025
(51) A61K 35/32
A61K 38/39
C07K 14/78
(00) Change of owner(s) name

(71) Ketjen Netherlands B.V.
(73) Ketjen Netherlands B.V.
(11) EP1863588
(00) 20.01.2025
(51) B01J 21/04
B01J 21/16
B01J 29/04
B01J 37/00
(00) Assignment

(71) And Optical Interconnection (Beijing) Technology Co., Ltd
(73) And Optical Interconnection (Beijing) Technology Co., Ltd
(11) EP2244211
(00) 22.01.2025
(51) G06K 19/077
(00) Assignment

(71) HighChem Co., Ltd
(73) HighChem Co., Ltd
(11) EP3165570
(00) 22.01.2025
(51) C08G 63/08
C08K 3/24
C08K 5/057
C08K 5/138
C08K 5/49
C08L 67/04
C08L 101/16
(00) Assignment

(71) Intellectual Discovery Co., Ltd.
(73) Intellectual Discovery Co., Ltd.
(11) EP2306430
(00) 20.01.2025
(51) G01C 21/36
G08G 1/0962
G08G 1/0967
H04L 29/08
H04M 1/60
H04M 1/725
H04W 8/00
H04W 12/06
H04W 88/04
H04W 4/80
(00) Assignment

(71) Van Thiel United B.V.
(73) PRM Holding B.V.
(11) EP3218558
(00) 23.01.2025
(51) E04G 7/14
E04G 7/16
(00) Assignment

(71) Vericel Corporation
(73) Vericel Corporation
(11) EP2132562
(00) 20.01.2025
(51) G01N 33/50
G01N 33/68
(00) Change of Legal Entity

(71) Aastrom Biosciences, Inc.
(73) Vericel Corporation
(11) EP2132562
(00) 20.01.2025
(51) G01N 33/50
G01N 33/68
(00) Assignment

(71) Zecmediatec SL
(73) Zecmediatec SL
(11) EP2160855
(00) 22.01.2025
(51) H04N 7/173
H04N 21/214
H04N 21/258
H04N 21/414
H04N 21/426
H04N 21/6402
H04H 20/10
H04H 20/63
(00) Assignment

(71) Van Thiel United B.V.
(73) PRM Holding B.V.
(11) 2021847
(00) 23.01.2025
(51) E04G 7/08
E04G 7/14
E04G 7/26
F16B 2/14
(00) Assignment

(71) Merz Pharmaceuticals, LLC
(73) Merz Pharmaceuticals, LLC
(11) EP2377536
(00) 22.01.2025
(51) A61K 31/44
(00) Assignment

(71) Telefonaktiebolaget LM Ericsson (publ)
(73) Telefonaktiebolaget LM Ericsson (publ)
(11) EP3116247
(00) 23.01.2025
(51) H04B 5/00
H04L 12/28
H04L 29/08
H04W 84/12
H04W 4/00
(00) Assignment

(71) PRM Holding B.V.
(73) PRM Holding B.V.
(11) 2021847
(00) 23.01.2025
(51) E04G 7/08
E04G 7/14
E04G 7/26
F16B 2/14
(00) Assignment

(71) Cygnus Technologies, LLC
(73) Cygnus Technologies, LLC
(11) EP3044339
(00) 23.01.2025
(51) G01N 33/569
(00) Merge

(71) Telefonaktiebolaget LM Ericsson (publ)
(73) Telefonaktiebolaget LM Ericsson (publ)
(11) EP3028209
(00) 23.01.2025
(51) G06F 1/16
H04L 12/24
H04L 12/64
H04L 29/06
H04M 1/725
G06F 21/35
G06F 9/445
H04W 4/02
(00) Assignment

(71) Telefonaktiebolaget LM Ericsson (publ)
(73) Telefonaktiebolaget LM Ericsson (publ)
(11) EP3029619
(00) 23.01.2025
(51) H04L 9/08
H04W 12/04
G06Q 20/32
(00) Assignment

(71) Telefonaktiebolaget LM Ericsson (publ)
(73) Telefonaktiebolaget LM Ericsson (publ)
(11) EP2766822
(00) 23.01.2025
(51) G06F 21/62
G06F 21/12
G06F 21/60
G06F 21/50
(00) Assignment

(71) Telefonaktiebolaget LM Ericsson (publ)
(73) Telefonaktiebolaget LM Ericsson (publ)
(11) EP3491573
(00) 23.01.2025
(51) G06F 21/62
H04L 12/58
(00) Assignment

(71) WSP Investment II BV
(73) WSP Investment II BV
(11) EP2937657
(00) 24.01.2025
(51) F28D 7/00
F28D 7/02
F28D 7/14
(00) Assignment

(71) WSP Investment II BV
(73) WSP Investment II BV
(11) EP3374717
(00) 24.01.2025
(51) F28D 7/00
F28D 7/02
F28D 7/14
(00) Assignment

(71) WSP Investment II BV
(73) WSP Investment II BV
(11) EP3134697
(00) 24.01.2025
(51) B67D 1/08
F25B 5/02
F25B 5/04
F28D 7/00
F28D 7/02
F28D 7/14
F28D 21/00
(00) Assignment

(71) PRM Holding B.V.
(73) PRM Holding B.V.
(11) EP3218558
(00) 23.01.2025
(51) E04G 7/14
E04G 7/16
(00) Assignment

(71) Ketjen Netherlands B.V.
(73) Ketjen Netherlands B.V.
(11) EP1824599
(00) 20.01.2025
(51) B01J 21/04
B01J 21/16
B01J 29/04
B01J 37/00
(00) Assignment

(71) And Optical Interconnection (Beijing) Technology Co., Ltd
(73) And Optical Interconnection (Beijing) Technology Co., Ltd
(11) EP2775426
(00) 22.01.2025
(51) G06K 19/07
G06K 19/077
(00) Assignment

(71) Omnissa LLC
(73) Omnissa LLC
(11) EP3640829
(00) 17.01.2025
(51) G06F 21/41
G06F 21/33
H04L 9/40
(00) Assignment

(71) Omnissa LLC
(73) Omnissa LLC
(11) EP3930289
(00) 17.01.2025
(51) H04L 9/40
H04L 67/306
(00) Assignment

(71) Rapport Therapeutics, Inc.
(73) Rapport Therapeutics, Inc.
(11) EP3288940
(00) 24.01.2025
(51) A61K 31/437
A61P 25/00
A61P 29/00
C07D 471/04
C07D 471/14
(00) Change of owner(s) name

(71) Precision Neuroscience NewCo, Inc.
(73) Rapport Therapeutics, Inc.
(11) EP3288940
(00) 24.01.2025
(51) A61K 31/437
A61P 25/00
A61P 29/00
C07D 471/04
C07D 471/14
(00) Assignment

(71) Merz Pharmaceuticals, LLC
(73) Merz Pharmaceuticals, LLC
(11) EP3090773
(00) 22.01.2025
(51) A61M 15/00
(00) Assignment

(71) Omnissa LLC
(73) Omnissa LLC
(11) EP2973442
(00) 17.01.2025
(51) G07C 9/00
(00) Assignment

(71) Invensas LLC
(73) Adeia Semiconductor Technologies LLC
(11) EP3416190
(00) 22.01.2025
(51) H01L 21/48
H01L 21/56
H01L 23/31
H01L 23/495
H01L 23/498
H01L 25/065
H01L 25/10
(00) Change of Legal Entity

(71) Adeia Semiconductor Technologies LLC
(73) Adeia Semiconductor Technologies LLC
(11) EP3416190
(00) 22.01.2025
(51) H01L 21/48
H01L 21/56
H01L 23/31
H01L 23/495
H01L 23/498
H01L 25/065
H01L 25/10
(00) Change of owner(s) name

(71) DECHRA LIMITED
(73) DECHRA LIMITED
(11) EP3655006
(00) 23.01.2025
(51) C07K 14/62
A61K 38/00
C07K 7/08
A61P 3/10
(00) Assignment

(71) HAI ROBOTICS U.S.A. INC
(73) HAI ROBOTICS U.S.A. INC
(11) EP2583147
(00) 21.01.2025
(51) G01S 5/16
G05D 1/00
G06F 17/00
G05D 1/02
(00) Assignment

(71) Invensas LLC
(73) Adeia Semiconductor Technologies LLC
(11) EP2239773
(00) 22.01.2025
(51) H05K 1/18
H01L 23/538
H01L 23/00
H01L 21/683
H01L 25/16
H01L 27/14
H01L 31/0203
H01L 27/146
H01L 21/56
H05K 1/02
(00) Change of Legal Entity

(71) Rapport Therapeutics, Inc.
(73) Rapport Therapeutics, Inc.
(11) EP3532477
(00) 24.01.2025
(51) A61K 31/437
A61P 25/28
C07D 487/04
(00) Change of owner(s) name

(71) Omnissa LLC
(73) Omnissa LLC
(11) EP3673366
(00) 17.01.2025
(51) G06F 9/455
G06F 3/06
(00) Assignment

(71) Precision Neuroscience NewCo, Inc.
(73) Rapport Therapeutics, Inc.
(11) EP3532477
(00) 24.01.2025
(51) A61K 31/437

A61P 25/28
C07D 487/04
(00) Assignment

(71) GAFT Innovations B.V.
(73) GAFT Innovations B.V.
(11) EP3325692
(00) 17.01.2025
(51) C25B 3/04
C25B 9/08
(00) Assignment

(71) Coval Energy B.V.
(73) GAFT Innovations B.V.
(11) EP3325692
(00) 17.01.2025
(51) C25B 3/04
C25B 9/08
(00) Assignment

(71) Merz Pharmaceuticals, LLC
(73) Merz Pharmaceuticals, LLC
(11) EP2916821
(00) 22.01.2025
(51) A61K 9/12
A61K 31/137
A61P 25/16
(00) Assignment

(71) Peses B.V.
(73) Peses B.V.
(11) 2035184
(00) 22.01.2025
(51) H02G 3/14
H02G 3/08
H02G 3/22
H02S 40/34
(00) Assignment

(71) SANOFI
(73) SANOFI
(11) EP2493466
(00) 22.01.2025
(51) A61K 31/164
A61K 31/56
A61K 45/06
A61P 35/00
(00) Assignment

(71) Omnissa LLC
(73) Omnissa LLC
(11) EP3940532
(00) 17.01.2025
(51) G06F 9/44
G06F 9/48
G06F 21/45
G06F 21/54
(00) Assignment

(71) Merz Pharmaceuticals, LLC
(73) Merz Pharmaceuticals, LLC
(11) EP2908805
(00) 22.01.2025
(51) A61K 9/12
A61K 9/14
A61K 31/198
A61K 45/06
A61P 25/00
(00) Assignment

(71) TECHNISCHE UNIVERSITEIT DELFT
(TU Delft)
Makinwa, Kofi Afolabi Anthony
Quan, Rui
(73) Quan, Rui
Makinwa, Kofi Afolabi Anthony
TECHNISCHE UNIVERSITEIT DELFT
(TU Delft)
(11) EP3195479
(00) 24.01.2025
(51) H03M 3/00
G01F 1/66
H03L 7/085
H03L 7/081
H03L 1/02
H03L 7/00
H04L 27/233
(00) Assignment

(71) Omnissa LLC
(73) Omnissa LLC
(11) EP3920474
(00) 17.01.2025
(51) H04L 51/18
(00) Assignment

(71) DECHRA LIMITED
(73) DECHRA LIMITED
(11) EP4186920
(00) 23.01.2025
(51) C07K 14/62
A61K 38/00
C07K 7/08
A61P 3/10
(00) Assignment

(71) PHILIP MORRIS PRODUCTS S.A.
(73) PHILIP MORRIS PRODUCTS S.A.
(11) EP3773496
(00) 23.01.2025
(51) A61K 47/10
A61K 9/00
A61K 31/465
A24B 13/00
A24B 15/10
A24B 15/30
A24B 15/38
(00) Assignment

(71) Adeia Semiconductor Technologies LLC
(73) Adeia Semiconductor Technologies LLC
(11) EP2239773
(00) 22.01.2025
(51) H05K 1/18
H01L 23/538
H01L 23/00
H01L 21/683
H01L 25/16
H01L 27/14
H01L 31/0203
H01L 27/146
H01L 21/56
H05K 1/02
(00) Change of owner(s) name

(71) DECHRA LIMITED
(73) DECHRA LIMITED
(11) EP3892628
(00) 23.01.2025
(51) C07K 14/62
A61K 38/00
C07K 7/08
A61P 3/10
(00) Assignment

(71) Omnissa LLC
(73) Omnissa LLC
(11) EP3843329
(00) 17.01.2025
(51) H04L 9/32
H04L 9/40
H04L 41/28
(00) Assignment

(71) The Penn State Research Foundation
Lanxess Corporation
(73) Lanxess Corporation
The Penn State Research Foundation
(11) EP3654769
(00) 20.01.2025
(51) A01N 43/16
A01P 1/00
C02F 1/50
C09K 8/50
(00) Assignment

(71) DECHRA LIMITED
(73) DECHRA LIMITED
(11) EP4011908
(00) 23.01.2025
(51) C07K 14/62
A61K 38/00
C07K 7/08
A61P 3/10
(00) Assignment

(71) Telefonaktiebolaget LM Ericsson (publ)
(73) Telefonaktiebolaget LM Ericsson (publ)
(11) EP3588343
(00) 23.01.2025
(51) G06F 21/35
H04M 1/72409
H04W 4/02
(00) Assignment

(71) Omnissa LLC
(73) Omnissa LLC
(11) EP3673626
(00) 17.01.2025
(51) H04L 9/08
H04L 51/18
H04L 9/40
H04L 51/224
H04L 67/55
(00) Assignment

(71) Patrick Desmont
(73) Patrick Desmont
(11) EP4264020
(00) 09.01.2025
(51) F01K 25/10
(00) Assignment

(71) Giovanna Ester Maria Fidalba Russo
(73) Giovanna Ester Maria Fidalba Russo
(11) EP4264019
(00) 07.01.2025
(51) F01K 25/10
(00) Assignment

TVH

Topografieën van halfgeleiderproducten.
Depots of topographies of semi-conductor products.

UP1

Europese octrooien met geregistreerde eenheidswerking.
European patents with registered Unitary Effect.

(11) EP3169697
(11) EP3949367
(11) EP4256128
(11) EP3496698
(11) EP3856504
(11) EP3257668
(11) EP3695162
(11) EP3579852
(11) EP3637709
(11) EP3812402
(11) EP4084088
(11) EP3869333
(11) EP3969605
(11) EP3344647
(11) EP4056938
(11) EP3364917
(11) EP3679069
(11) EP4008319
(11) EP3675738
(11) EP3661358
(11) EP3592290
(11) EP3782775
(11) EP3821820
(11) EP4101570
(11) EP4098825
(11) EP4384253
(11) EP4233661
(11) EP4125886
(11) EP4153090
(11) EP4200496
(11) EP4295364
(11) EP3405897
(11) EP4033125
(11) EP3727235
(11) EP3902576
(11) EP4041518
(11) EP3904646
(11) EP3942941
(11) EP4249758
(11) EP4176277
(11) EP4135636
(11) EP4174374
(11) EP4391874
(11) EP3861593
(11) EP3711135
(11) EP3308822
(11) EP3708132
(11) EP4051969
(11) EP3952614
(11) EP3837081
(11) EP4008958
(11) EP4050260
(11) EP3890259
(11) EP3915975
(11) EP3962115
(11) EP4277422
(11) EP4151983
(11) EP4275858
(11) EP3981314
(11) EP4288007
(11) EP3366266
(11) EP3589891
(11) EP3634404
(11) EP4388636
(11) EP3623974
(11) EP4046472
(11) EP3981474
(11) EP4103851
(11) EP4253779
(11) EP4150595
(11) EP4182608
(11) EP4255986
(11) EP4388141
(11) EP4247278
(11) EP4301681
(11) EP4186568
(11) EP4284952
(11) EP4120465
(11) EP4376636
(11) EP3636004
(11) EP4261736
(11) EP4166805
(11) EP4226413
(11) EP4423111
(11) EP4075062
(11) EP4036514
(11) EP4143717
(11) EP4104765
(11) EP4340727
(11) EP4256547
(11) EP4303074
(11) EP4366601
(11) EP4195203

UP2

Europese octrooien met geregistreerd verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie).
European patents with registered request ex Article 52a NL Patent Law 1995 (restoration of validation right).

(11) EP3981679
(00) 22.01.2025

UP3

Europese octrooien met een geaccepteerd verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie) en complete validatie.
European patents with accepted ex Article 52a NL Patent Law 1995 (restoration of validation right) and validation completed.

(11) EP3981679
(00) 24.01.2025

UP4

Europese octrooien met een geaccepteerd verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie) en geen complete validatie.
European patents with accepted request ex Article 52a NL Patent Law 1995 (restoration of validation right) and incomplete validation.

UP5

Europese octrooien met een afgewezen verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie).
European patents with rejected request ex Article 52a NL Patent Law 1995 (restoration of validation right).

UP6

Europese octrooien met een ingetrokken verzoek ex. artikel 52a Rijksoctrooiwet 1995 (herstel recht op validatie).
European patents with withdrawn request ex Article 52a NL Patent Law 1995 (restoration of validation right).

Orde van Octrooigemachtigden / Netherlands Institute of Patent Attorneys

Inschrijvingen en uitschrijvingen ex art. 27 lid 5 Uitvoeringsbesluit van de Rijksoctrooiwet 1995. Registrations and deregistrations ex Article 27 par. 5 Patent Rules of the NL Patent Law 1995.

De inschrijvingen zijn:

- mw. ir. M. van Overeem ingeschreven per 27 november 2024

De uitschrijvingen zijn:

- mw. dr.ir. W.L.M. Weert uitgeschreven per 18 september 2024
- dhr. ir. H.J. Theulings uitgeschreven per 17 oktober 2024
- dhr. ir. W.H.G. Deguelle uitgeschreven per 17 oktober 2024
- dhr. Hobel (wegens overlijden) uitgeschreven per 12 november 2024
- dhr. ir. A.J. Duijvestijn uitgeschreven per 8 december 2024
- mw. dr. C.C. 't Hoen - van der Hoogt uitgeschreven per 19 december 2024
- dhr. dr. R. Jorritsma uitgeschreven per 31 december 2024
- dhr. dr. A.V. Huygens (wegens overlijden) uitgeschreven per 31 december 2024
- dhr. ir. K.J. Metman uitgeschreven per 1 januari 2025
- dhr. dr. ir. H.W. Prins uitgeschreven per 1 januari 2025
- dhr. ir. A.J.M. van Hoef uitgeschreven per 1 januari 2025
- dhr. dr. ir. H.J.G. Draaisma uitgeschreven per 7 januari 2025

Hier kunt u het octrooigemachtigdenregister raadplegen: Octrooigemachtigdenregister