



Rijksdienst voor Ondernemend  
Nederland

# *Nederland*

## *De industriële eigendom*

## Inleiding

### Hoofdblad

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

### Bijblad

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

### Abonnementsprijzen per (kalender)jaar:

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

#### *Bezoekadres:* **Octrooicentrum Nederland**

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Voor taksen en depotrekeningen:

ING 0705001296

Iban: NL41INGB070500129

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## Introduction

### Patent Bulletin

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

### Official Journal

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

### Subscription rates per calendar year:

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

#### *Visiting address:* **Netherlands Patent Office**

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BIC: INGBNL2A

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<b>Rubriek NP1</b> Bevat gegevens betreffende octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.	<b>8 Heading NP1</b> Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	<b>8</b>
<b>Rubriek NP2</b> Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	<b>10 Heading NP2</b> Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	<b>10</b>
<b>Rubriek NP3</b> Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	<b>12 Heading NP3</b> Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	<b>12</b>
<b>Rubriek EP1</b> Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	<b>13 Heading EP1</b> Contains data concerning translations of the conclusions of European patent applications.	<b>13</b>
<b>Rubriek EP2</b> Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	<b>14 Heading EP2</b> Contains data concerning European patents granted for The Netherlands.	<b>14</b>
<b>Rubriek EP3</b> Bevat gegevens betreffende voor Nederland verleende Europese octrooien waarvoor een vertaling is ingediend conform artikel 52 lid 1 of 6 van de Octrooiwet 1995.	<b>203 Heading EP3</b> Contains data concerning European patents granted for The Netherlands in which a translation was filed confirm Article 52 par. 1 or 6 of the Patents Act 1995.	<b>203</b>
<b>Rubriek EP4</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	<b>225 Heading EP4</b> Contains data concerning European patents granted in amended form for the Netherlands.	<b>225</b>
<b>Rubriek EP5</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde	<b>226 Heading EP5</b> Contains data concerning European patents granted in amended form for	<b>226</b>

Europese octrooien waarvoor een gewijzigde vertaling is ingediend.	The Netherlands in which an amended translation was filed.	
<b>Rubriek SPC</b> Bevat gegevens betreffende ingeschreven en verleende certificaten	<b>228Heading SPC</b> Contains data concerning applications for- or granted Supplementary Protection Certificates.	<b>228</b>
<b>Rubriek VB1</b> Bevat gegevens betreffende rechten waarvoor een verzoek of bezwaarschrift is ingediend conform de Octrooiwet 1995.	<b>229Heading VB1</b> Contains data concerning requests and notices of opposition under the General administrative law.	<b>229</b>
<b>Rubriek VB2</b> Bevat gegevens betreffende rechten waarin een beslissing is genomen of waarvoor een nieuwheidsrapport is uitgegaan op een verzoek- of bezwaarschrift conform de Octrooiwet 1995.	<b>230Heading VB2</b> Contains data concerning requests and notices of opposition under the General administrative law in respect of which a decision has been taken or in respect for which a report has been made.	<b>230</b>
<b>Rubriek MED</b> Bevat gegevens betreffende overige mededelingen.	<b>231Heading MED</b> Contains data concerning other communications.	<b>231</b>
<b>Rubriek VRV</b> Bevat gegevens betreffende verval of nietigverklaring.	<b>232Heading VRV</b> Contains data concerning lapse or annulment.	<b>232</b>
<b>Rubriek VRB</b> Bevat gegevens betreffende verbeteringen op eerdere publicaties.	<b>269Heading VRB</b> Contains data concerning corrections on earlier publications.	<b>269</b>
<b>Rubriek CO</b> Bevat gegevens betreffende wijzigingen in het octrooiregister.	<b>270Heading CO</b> Contains data concerning changes in the Netherland patent register.	<b>270</b>
<b>Rubriek TVH</b> Bevat gegevens betreffende topografieën van halfgeleiderproducten.	<b>273Heading TVH</b> Contains data concerning depots of original topographies of semi-conductor products.	<b>273</b>

<b>Rubriek UP1</b> Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.	<b>274Heading UP1</b> Contains data concerning European patents with registered Unitary Effect.	274
<b>Rubriek UP2</b> Bevat gegevens over Europese octrooien met geregistreerd verzoek ex. artikel 52a (herstel recht op validatie).	<b>275Heading UP2</b> Contains data concerning European patents with registered request ex article 52a (restoration of validation right).	275
<b>Rubriek UP3</b> Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en complete validatie.	<b>276Heading UP3</b> Contains data concerning European patents with accepted ex article 52a (restoration of validation right) and validation completed.	276
<b>Rubriek UP4</b> Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en geen complete validatie.	<b>277Heading UP4</b> Contains data concerning European patents with accepted request ex article 52a (restoration of validation right) and incomplete validation.	277
<b>Rubriek UP5</b> Bevat gegevens over Europese octrooien met afgewezen verzoek ex. artikel 52a (herstel recht op validatie).	<b>278Heading UP5</b> Contains data concerning European patents with rejected request ex article 52a (restoration of validation right).	278
<b>Rubriek UP6</b> Bevat gegevens over Europese octrooien met ingetrokken verzoek ex. artikel 52a (herstel recht op validatie).	<b>279Heading UP6</b> Contains data concerning European patents with withdrawn request ex article 52a (restoration of validation right).	279

## Overzicht van Inid codes

### INID CODES

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

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

### INID CODES

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

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

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

## Rubrieken/Headings

## NP1

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

(51) A01H 4/00	(22) 07.10.2021	(72) Shuncheng Xiang
(21) 2034256	(54) Prone & Supine F2 systeem	Yansheng Tan
(22) 02.03.2023	(71) PharmaHope Holding BV	Yingli Gao
(54) A METHOD FOR RAPID	(72) Drs. Mehrdad Omidvar	(41) 26.04.2023
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(71) CHONGQING THREE GORGES	(22) 07.10.2021	C08G 18/75
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(74) dr. R.C. van Duijvenbode c.s.	DIOXIDE OR OTHER GASES FROM	C08G 18/32
(72) Jiyu Chen	THE ATMOSPHERE	C08G 18/48
Jiyu Chen	(71) CAMERLAB B.V.	C08G 18/61
Xia Xiao	(74) ir. W.J.J.M. Kempes	(21) 2029364
Yuan Li	(72) Johannes Gerardus Smits	(22) 08.10.2021
Jian Yan	(41) 26.04.2023	(54) SILICONE MODIFIED POLYURETHANE
(31) 2022102644898	(51) B21D 28/26	SIDE CHAIN MACROMONOMER AND A
(32) 17.03.2022	(21) 2034469	SYNTHETIC METHOD THEREOF
(33) China	(22) 30.03.2023	(71) Changsha University of Science &
(51) A01H 4/00	(54) SINGLE-CYLINDER DIESEL ENGINE	Technology
(21) 2034490	BODY MACHINING DEVICE	(74) dr. T. Wittop Koning PhD
(22) 03.04.2023	(71) Zhejiang Tongji Vocational College of	(72) Shuncheng Xiang
(54) Shoot Tip Culture of Strawberry Without	Science and Technology	Yansheng Tan
Hormone	(74) drs. C.M.A. Quintelier	Yingli Gao
(71) Nanchong Academy of Agricultural	(72) Yongqi Jin	(51) C08G 18/61
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(74) dr. A.V. Huygens	Liandong Sun	C08G 18/32
(72) Defu Li	Xincheng Sun	C08G 18/48
Xiaoqiu Du	(51) B32B 17/10	C04B 24/26
Lisha Liu	(21) 2029331	C08G 18/10
Yujuan Zhang	(22) 07.10.2021	C08G 18/34
Jinyu He	(54) Automotive window laminate structure,	C08G 18/75
Mei Wang	thermoplastic laminated sheet structure	C08F 22/06
(31) 202210359341.2	for use therein and transport vehicle	(21) 2029366
(32) 07.04.2022	provided with the same	(22) 08.10.2021
(33) China	(71) Autoglas D & K B.V.	(54) HIGH-REDUCING POLYCARBOXYLIC
(51) A23L 33/115	(74) ir. H.Th. van den Heuvel c.s.	ACID AND PREPARATION METHOD
A23P 10/30	(72) Bartholomeus Leonardus Marinus	THEREOF
(21) 2034548	Borcherd Driehuis	(71) Changsha University of Science &
(22) 12.04.2023	(41) 26.04.2023	Technology
(54) A Preparation Method for Embedding n-3	(51) C04B 24/26	(74) dr. T. Wittop Koning PhD
Long Chain Polyunsaturated Fatty Acid	C04B 28/04	(72) Shuncheng Xiang
Microcapsules	C08G 18/10	Yingli Gao
(71) Chongqing University of Education,	C08G 18/32	(41) 26.04.2023
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(74) dr. A.V. Huygens	C08G 18/61	H01G 9/042
(72) Qiang Wang	C08G 18/48	(21) 2034015
Xiaofeng Xiang	C08G 18/75	(22) 23.01.2023
Yao Gou	C08F 22/06	(54) PREPARATION METHOD OF RGO/ CNC/CNF COMPOSITE FILM
Yihan Wang	(21) 2029365	(71) ZHEJIANG SCI-TECH UNIVERSITY
Kai Wang	(22) 08.10.2021	(74) ir. M.B. Plaggenborg
Yuejie Xie	(54) HIGH PERFORMANCE	(72) Yanjun Tang
(31) 202210625215.7	HYPERSORPTION POLYCARBOXYLIC	Zejun Ding
(32) 02.06.2022	ACID AND PREPARATION METHOD	Tianying Chen
(33) China	THEREOF	(31) 202210553168.X
(51) A61G 7/00	(71) Changsha University of Science &	(32) 19.05.2022
(21) 1044180	Technology	(33) China
	(74) dr. T. Wittop Koning PhD	



- (51) G01N 33/00  
G01N 30/06  
G01N 30/34  
G01N 30/72
- (21) 2034552
- (22) 12.04.2023
- (54) RAPID METHOD FOR DETECTING  
MULTI-PESTICIDE RESIDUES IN  
PANAX NOTOGINSENG
- (71) Technical Center of Kunming Customs  
Technical Center of Huangpu Customs
- (74) ir. W.J.J.M. Kempes
- (72) Liping Chen  
Wei Zhang  
Gengchao Chen  
Yunfei Li  
Yong Zhang  
Xiangling Hu  
Ying Wang  
Sichao Wu
- (31) 202211569684.8
- (32) 08.12.2022
- (33) China
- 
- (51) H02G 1/00  
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H01R 43/01
- (21) 2034378
- (22) 20.09.2021
- (54) Inrichting voor het elektrisch connecteren  
met minstens één hoofdader van  
hoofdaders van een hoofdkabel
- (62) 2029208 (20.09.2021)
- (71) High Tech Alliance Projects B.V.
- (74) ir. A. Blokland c.s.
- (72) Willem Robert Jan Keeris  
Nick Franciscus van de Gevel  
Guillaume Antonius Maria Steyvers  
Jelle Adrianus Antonius Jacobs
-

## NP2

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

(51) A61G 7/00	C08G 18/75	C08G 18/48
(11) 1044180	C08F 220/06	C04B 24/26
(47) 26.04.2023	(11) 2029365	C08G 18/10
(22) 07.10.2021	(47) 26.04.2023	C08G 18/34
(54) Prone & Supine F2 systeem	(22) 08.10.2021	C08G 18/75
(73) PharmaHope Holding BV	(54) HIGH PERFORMANCE	C08F 220/06
(72) Drs. Mehrdad Omidvar	HYPERSORPTION POLYCARBOXYLIC	(11) 2029366
(51) A62B 17/00	ACID AND PREPARATION METHOD	(47) 26.04.2023
A62B 9/00	THEREOF	(22) 08.10.2021
A62B 18/08	(73) Changsha University of Science &	(54) HIGH-REDUCING POLYCARBOXYLIC
A62B 18/04	Technology	ACID AND PREPARATION METHOD
F25B 21/02	(72) Shuncheng Xiang	THEREOF
(11) 2033325	Yansheng Tan	(73) Changsha University of Science &
(47) 26.04.2023	Yingli Gao	Technology
(22) 16.10.2022	(74) dr. T. Wittop Koning PhD	(72) Shuncheng Xiang
(54) HELMET TYPE FIREFIGHTING	(51) C04B 28/04	Yingli Gao
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SYSTEM AND METHOD BASED ON	C08G 18/34	(51) C12N 5/077
THERMOELECTRIC DEVICE	C08G 18/75	C12N 15/86
(73) CHINA ACADEMY OF SAFETY	C04B 24/26	C07K 14/005
SCIENCE AND TECHNOLOGY	C08G 18/32	(11) 2032736
(72) Congling Shi	C08G 18/48	(47) 26.04.2023
Yanwei Gao	C08G 18/61	(22) 11.08.2022
Guolin Liu	(11) 2029364	(54) IMMORTALIZED YAK RUMEN
Jian Li	(47) 26.04.2023	FIBROBLAST CELL LINE AND
Honglei Che	(22) 08.10.2021	CONSTRUCTION AND APPLICATION
(74) ir. M.B. Plaggenborg	(54) SILICONE MODIFIED POLYURETHANE	THEREOF
(31) 202111312989.6	SIDE CHAIN MACROMONOMER AND A	(73) SICHUAN AGRICULTURAL
(32) 08.11.2021	SYNTHETIC METHOD THEREOF	UNIVERSITY
(33) China	(73) Changsha University of Science &	(72) Junmei Wang
(51) B01D 53/00	Technology	Huawei Zou
(11) 2029333	(72) Shuncheng Xiang	Zhisheng Wang
(47) 26.04.2023	Yansheng Tan	Rui Hu
(22) 07.10.2021	Yingli Gao	(74) ir. M.B. Plaggenborg
(54) A DEVICE FOR REMOVING CARBON	(74) dr. T. Wittop Koning PhD	(51) E04F 15/10
DIOXIDE OR OTHER GASSES FROM	(51) C05F 3/00	B05D 3/06
THE ATMOSPHERE	C05F 5/00	B05D 7/26
(73) CAMERLAB B.V.	A01B 79/02	B32B 15/082
(72) Johannes Gerardus Smits	A01C 14/00	B32B 27/08
(74) ir. W.J.J.M. Kempes	C05D 3/02	C08J 7/04
(51) B32B 17/10	(11) 2033297	B29C 59/04
(11) 2029331	(47) 26.04.2023	C08J 7/12
(47) 26.04.2023	(22) 13.10.2022	C09D 4/00
(22) 07.10.2021	(54) METHOD FOR IMPROVING SOIL	(11) 2031580
(54) Automotive window laminate structure,	FERTILITY IN ECOLOGICAL TEA	(47) 26.04.2023
thermoplastic laminated sheet structure	GARDEN	(22) 14.04.2022
for use therein and transport vehicle	(73) Zunyi Normal University	(54) Decorative panel
provided with the same	(72) Junwei Cheng	(73) CHAMPION LINK INTERNATIONAL
(73) Autoglas D & K B.V.	Zhongjiu Xiao	CORPORATION
(72) Bartholomeus Leonardus Marinus	Zhan Yu	(72) Thomas Luc Martine Baert
Borcherd Driehuis	Qinghe Wang	Tom van Poyer
(74) ir. H.Th. van den Heuvel c.s.	Wenzhao Li	Sven Boon
(51) C04B 24/26	Xiong Yan	(74) ir. H.Th. van den Heuvel c.s.
C04B 28/04	(74) P.J. Pollard B.Eng	(31) 2029345
C08G 18/10	(31) 202111199544.1	(32) 07.10.2021
C08G 18/32	(32) 14.10.2021	(33) Netherlands
C08G 18/34	(33) China	(51) E04H 12/22
C08G 18/61	(51) C08G 18/61	F16B 25/00
C08G 18/48	C04B 28/04	(11) 2028202
	C08G 18/32	(47) 26.04.2023

(22) 12.05.2021  
(54) MOLDED SCREW  
(73) Paul Cote  
(72) Paul Cote  
(74) ir. A.R. Aalbers  
(31) 63/025,460  
(32) 15.05.2020  
(33) United States of America

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(51) H02G 3/16  
H01R 9/24  
H01R 4/48  
H02G 3/08  
(11) 2024212  
(47) 26.04.2023  
(22) 11.11.2019  
(54) Kabeldoos voor het elektrisch verbinden  
van elektriciteitskabels met elkaar  
(73) DILAR B.V.  
(72) Antonius Adrianus Maria Donkers  
(74) ir. G.J.M. Verhees  
(31) 2022303  
(32) 24.12.2018  
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**NP3**

**Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995..  
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**EP1**

**Vertaalde conclusies van Europese octrooiaanvragen.**

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LEE, Taekgi	A47L 9/12	LEE, Taekgi
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(72) SPENNINGER, Andreas	HASSE, Alexander	B28B 1/52
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OF THE DIE PLATE	B29K 23/00	COPOLYMER COMPOSITION,
(73) KABUSHIKI KAISHA KOBE SEIKO SHO	B29K 105/00	PELLETS, MULTILAYER STRUCTURE,
(KOBEL STEEL, LTD.)	C08K 5/1535	AND MULTILAYER PIPE
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STRUCTURE, AND MULTILAYER PIPE	Voigt, Achim	(73) Seiki Corporation
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PARTS	(72) TROVARELLI, Michela	B29B 7/74
(73) Motherson Innovations Company Limited	ARICIU, Ion	(11) EP3501784
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METHOD OF ASSEMBLING THEREOF	(73) MANN+HUMMEL GmbH	B29K 507/04
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Inc., Dba Fitzgerald Formliners	Gracia Heras, Jaime	B29L 31/00
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(72) RIBEIRO DA SILVA, Cátia Samanta	(73) Makerbot Industries, LLC	(54) IRRADIATION DEVICE FOR AN
CARDOSO LIMA, André Manuel	(72) GOODMAN, Taylor, S.	APPARATUS FOR ADDITIVELY
DO CÉU GRAMAXO OLIVEIRA	YARKA, Christopher, James	MANUFACTURING THREE-
SAMPAIO, Álvaro Miguel	MACNEIL, Eric, Justin	DIMENSIONAL OBJECTS
VILELA PONTES, António José	HOLLAND, Samuel	(73) Concept Laser GmbH
FERREIRA RODRIGUES, Sérgio José	WALLER, Mark	(72) Döhler, Tim
FERNANDES FERREIRA GONÇALVES,	ANANTHA, Vishnu	(51) B29C 64/153
Luís Filipe	PAPPAS, Michael, C.	B29C 64/393
PINTO DA COSTA OLIVEIRA, Luís Filipe	(31) 201862777587 P	B29C 64/277
SAMPAIO DE ABREU FERNANDES,	201862731551 P	B22F 3/105
André Armindo	(32) 10.12.2018	B33Y 30/00
(31) 2018110849	14.09.2018	B33Y 50/02
(32) 16.07.2018	(33) United States of America	(11) EP3363621
(33) Portugal	United States of America	(21) EP18166334.5
(51) B29C 63/00	(51) B29C 64/118	(47) 03.05.2023
B29C 63/02	B33Y 10/00	(22) 05.11.2015
(11) EP3722071	B33Y 30/00	(54) METHOD AND DEVICE FOR
(21) EP20163860.8	B29C 64/321	CONTROLLING THE EXPOSURE OF
(47) 03.05.2023	B29C 64/106	A SELECTIVE LASER SINTERING OR
(22) 18.03.2020	B29C 64/182	LASER MELTING DEVICE
(54) DEVICE FOR APPLYING A	B29K 23/00	(73) Concept Laser GmbH
PERFORATED PROTECTIVE FILM TO	(11) EP3359371	(72) Herzog, Frank
A SURFACE OF A COMPONENT	(21) EP16853193.7	Bechmann, Florian
(73) Somo.Tec GmbH	(47) 03.05.2023	Lippert, Markus
(72) Mohr, Johannes	(87) IL2016050683	Hoch, Johanna
Rahmlow, Klaus-Dieter	13.04.2017	Zeulner, Fabian
(31) 102019109112	(22) 27.06.2016	Tarasov, Alexey
(32) 08.04.2019	(54) ADDITIVE MANUFACTURING USING	(31) 102014016679
(33) Germany	POLYMER MATERIALS	(32) 12.11.2014
(51) B29C 64/106	(73) Largix Tech Ltd.	(33) Germany
B29C 64/00	(72) EINAV, Omer	(51) B29C 64/153
B29C 67/00	SHABANOV, Doron	B33Y 10/00
D01F 8/04	MATARASSO, Hasdi	B29C 64/268
B33Y 8/00	ROSENMANN, Shmuel	B29C 64/165
B33Y 70/10	ORR, Ronen	B22F 3/105
(11) EP3555350	SHEELO, Amir	B22F 10/28
(21) EP17808503.1	(31) 201562239291 P	B22F 12/44
(47) 03.05.2023	(32) 09.10.2015	B22F 12/45
(87) EP2017081597	(33) United States of America	(11) EP3569388
21.06.2018	(51) B29C 64/129	(21) EP19174571.0
(22) 06.12.2017	B29C 64/30	(47) 03.05.2023
(54) FILAMENTS FOR USE AS A SUPPORT	B33Y 10/00	(22) 15.05.2019
MATERIAL IN FUSED DEPOSITION	B33Y 40/00	(54) FABRICATION OF COMPONENTS
MODELING	(11) EP3840936	USING SHAPED ENERGY BEAM
(73) BASF SE	(21) EP19761991.9	PROFILES
(72) KOPPING, Jordan Thomas	(47) 03.05.2023	(73) Howmedica Osteonics Corp.
HERMANT, Marie-Claire	(87) US2019045214	The Chancellor, Masters and Scholars of
SCHMIDT, Kris	27.02.2020	the University of Cambridge
NESTLE, Nikolaus	(22) 06.08.2019	(72) O'NEILL, William
KOEHLER, Alexander	(54) METHODS AND SYSTEMS FOR	SPARKES, Martin
(31) 16203641	PHOTO-CURING PHOTO-SENSITIVE	PARKINS, Jonathon

JONES, Eric	B29C 65/78	(51) B29C 65/64
MULLEN, Lewis	B29C 65/48	B29C 65/00
(31) 201862671699 P	(11) EP3898199	(11) EP3666504
(32) 15.05.2018	(21) EP19821219.3	(21) EP19214852.6
(33) United States of America	(47) 03.05.2023	(47) 03.05.2023
(51) B29C 64/20	(87) NL2019050820	(22) 10.12.2019
B29C 64/124	25.06.2020	(54) JOINT STRUCTURE
B29C 64/223	(22) 10.12.2019	(73) Subaru Corporation
(11) EP3573814	(54) TOOLING FOR USE IN A METHOD FOR	(72) YOSHIMURA, Kensuke
(21) EP18705043.0	ELECTROMAGNETIC WELDING OF	(31) 2018234284
(47) 03.05.2023	MOLDED PARTS, AND METHOD FOR	(32) 14.12.2018
(87) US2018015285	MANUFACTURING THE TOOLING	(33) Japan
02.08.2018	(73) KOK & VAN ENGELEN COMPOSITE	(51) B29C 67/04
(22) 25.01.2018	STRUCTURES B.V.	B29C 33/10
(54) METHOD AND APPARATUS FOR	(72) LABORDUS, Maarten	(11) EP3774303
PHOTO-CURING WITH DISPLACEABLE	JANSEN, Tom	(21) EP19715962.7
SELF-LUBRICATING SUBSTRATUM	BRUIJKERS, Michiel	(47) 03.05.2023
FOR THE FORMATION OF THREE-	(31) 2022271	(87) EP2019059349
DIMENSIONAL OBJECTS	(32) 20.12.2018	17.10.2019
(73) Nexa3D Inc.	(33) Netherlands	(22) 11.04.2019
(72) ZITELLI, Gianni	(51) B29C 65/02	(54) TOOL FOR IMPLEMENTING A
REICHENTAL, Avi N.	B29C 65/48	METHOD FOR FLASH SINTERING A
TRINGALI, Luciano	B29C 65/50	NATURAL POWDER
(31) 201715415688	B29C 65/00	(73) SINTERMAT
(32) 25.01.2017	B29C 70/08	(72) NAIMI, Foad
(33) United States of America	B29C 70/84	BERNARD, Frédéric
(51) B29C 64/386	B29C 65/06	(31) 1853179
B33Y 99/00	B29C 65/08	(32) 11.04.2018
B33Y 50/00	B29L 31/30	(33) France
B22F 12/80	B29C 70/38	(51) B29C 70/44
B29C 64/153	(11) EP3747637	B29C 70/22
B22F 10/28	(21) EP19382472.9	B29L 23/00
B22F 10/80	(47) 03.05.2023	B29K 23/00
B22F 12/90	(22) 06.06.2019	B29K 67/00
B29C 64/165	(54) METHOD TO INTEGRATE A FIRST	B29K 77/00
(11) EP3508333	PART AND A SECOND PART	B29K 307/04
(21) EP18150788.0	COMPRISING COMPOSITE MATERIAL	B29K 309/08
(47) 03.05.2023	(73) Airbus Operations, S.L.U.	(11) EP3455060
(22) 09.01.2018	(72) SANCHEZ PEREZ, Melania	(21) EP17707540.5
(54) PLANT COMPRISING AT LEAST	CANAS RIOS, María Almudena	(47) 03.05.2023
ONE APPARATUS FOR ADDITIVELY	(51) B29C 65/08	(87) EP2017054434
MANUFACTURING OF THREE-	B23K 20/10	16.11.2017
DIMENSIONAL OBJECTS	(11) EP3789186	(22) 27.02.2017
(73) Concept Laser GmbH	(21) EP20188334.5	(54) METHOD FOR PRODUCING A
(72) Vierling, Christoph	(47) 03.05.2023	CHARGE AIR PIPE
(51) B29C 64/393	(22) 29.07.2020	(73) ContiTech MGW GmbH
B33Y 50/02	(54) ULTRASONIC TREATMENT DEVICE	(72) BORNEMANN, Axel
B29C 64/135	(73) MS Ultraschall Technologie GmbH	JÜNEMANN, Jens
B29C 64/153	(72) Krell, Volker	HÖER, Martin
B29C 64/165	(31) 102019123786	(31) 102016208116
B22F 3/105	(32) 05.09.2019	(32) 11.05.2016
B33Y 30/00	(33) Germany	(33) Germany
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(47) 03.05.2023	B29L 31/06	B29C 43/32
(22) 09.02.2018	F16B 7/02	B29C 43/36
(54) METHOD FOR CALIBRATING AT	(11) EP3427927	B29C 33/38
LEAST ONE APPARATUS FOR	(21) EP18183005.0	B29C 33/44
ADDITIVELY MANUFACTURING	(47) 03.05.2023	B29C 33/50
THREE-DIMENSIONAL OBJECTS	(22) 11.07.2018	B29C 33/54
(73) Concept Laser GmbH	(54) COMPOSITE JOINT ASSEMBLY	B29L 31/30
(72) Klaußner, Tim	(73) Goodrich Corporation	B29C 43/02
Bokkes, Tobias	(72) GURVICH, Mark R.	B29K 105/04
Wachter, Martin	ZAFIRIS, Georgios S.	B29K 105/06
Zeulner, Fabian	GANIS, Rony	B29K 105/08
Ebert, Marie-Christin	(31) 201715646506	B29L 22/00
(51) B29C 65/00	(32) 11.07.2017	(11) EP3677413
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(22) 20.11.2019	(47) 03.05.2023	(54) PLANT AND PROCESS FOR SORTING BEAD CORES FOR TIRES WITH CONTROL OF THE AZIMUTH
(54) METHOD FOR FABRICATING A COMPOSITE PART	(22) 23.05.2019	(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(73) The Boeing Company	(54) PREFORM SHAPING METHOD AND COMPOSITE FORMING METHOD	(72) BERLIOUX, Loïc
(72) WANG, Xiaoxi	(73) Subaru Corporation	(72) FAURE, Yann
GEORGESON, Gary E.	(72) SEKINE, Naoyuki	(31) 1854008
(31) 201916237912	INOUE, Yuta	(32) 14.05.2018
(32) 02.01.2019	(31) 2018159800	(33) France
(33) United States of America	(32) 28.08.2018	(51) B29D 99/00
(51) B29C 70/44	(33) Japan	(11) EP3446864
B32B 5/26	(51) B29C 70/54	(21) EP18186499.2
D04B 21/14	B29C 70/52	(47) 03.05.2023
B29C 70/54	F03D 1/06	(22) 31.07.2018
D04B 21/16	(11) EP3554806	(54) METHOD TO INCREASE STRENGTH AND TOUGHNESS OF AIRCRAFT STRUCTURAL COMPONENTS
D04H 3/115	(21) EP17808105.5	(73) The Boeing Company
B32B 5/02	(47) 03.05.2023	(72) CHENG, Jiangtian
B29C 70/16	(87) FR2017053180	BEHZADPOUR, Forouzan
B32B 19/00	21.06.2018	(31) 201715676047
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B32B 27/38	(54) PROCESS FOR PRODUCING A PROFILED MEMBER WITH A TEAR STRIP	(33) United States of America
B32B 5/06	(73) Epsilon Composite	(51) B30B 11/14
B32B 5/08	(72) FERRER, Denis	B28B 5/02
B32B 5/12	LATRON, Ambroise	B28B 3/08
B32B 5/24	(31) 1662359	B30B 1/40
B32B 9/04	(32) 13.12.2016	B30B 7/04
D04H 3/04	(33) France	(11) EP3429837
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(22) 11.03.2020	(87) US2016016135	(54) MOVABLE SIDE WALL GROUP FOR A CERAMIC PRODUCTS PRESS
(54) A STITCHED MULTI-AXIAL REINFORCEMENT	11.08.2016	(73) Siti - B&T Group S.p.A.
(73) Vitrulan Composites Oy	(22) 02.02.2016	(72) BIANCHINI, Alessandro
(72) HUOPONEN, Petro	(54) BELT FORMING SYSTEM AND METHOD FOR MANUFACTURING AT LEAST A PORTION OF A TIRE BELT.	(31) UA20161813
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(32) 11.03.2019	(31) 201562112991 P	(51) B32B 7/02
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(51) B29C 70/52	(33) United States of America	B32B 1/00
A24D 3/02	(51) B29D 30/44	B29C 45/16
A24D 3/00	B65H 5/22	B29C 45/14
(11) EP3600858	(11) EP3765279	B32B 27/08
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(22) 15.03.2018	(22) 06.03.2019	(11) EP3375605
(54) EQUIPMENT AND METHOD FOR FORMING RODS OF FIBROUS MATERIAL	(54) DEVICE FOR HOLDING A PRODUCT, WHICH CAN BE CONFIGURED AS THE PRODUCT IS BEING PROCESSED	(21) EP18159282.5
(73) British American Tobacco (Investments) Limited	(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	(47) 03.05.2023
(72) FALLON, Gary	(72) LAMACHERE, Yohan	(22) 28.02.2018
HERHOLDT, Arnold	(31) 1852191	(54) METHOD FOR MOLDING A PART, AND CORRESPONDING PART
LE ROUX, Gerhard	(32) 14.03.2018	(73) Uniteam Italia S.r.L.
RICHARDSON, John	(33) France	(72) ISGRÒ, Carlo
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(11) EP3616890		



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B32B 27/10	HOCHI Motonori	United Kingdom
B32B 27/32	FUJII Mao	(51) B41J 2/07
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MANUFACTURE	(21) EP17800104.6	11.05.2017
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CHRISTENSEN, Lars	(22) 17.05.2017	L.P.
(31) 17198016	(54) METHOD OF LAMINATING	(72) QIAN, Li
(32) 24.10.2017	MULTILAYER STRUCTURE USED IN	MÜLLER, Andreas
(33) European Patent Office (EPO)	MAKING OF CREDIT AND GIFT CARDS	RUIZ FLORIACH, Carles
(51) B32B 17/10	(73) GRIFF AND ASSOCIATES, L.P.	ROIG, Guillem
C03C 17/00	(72) ROCHE, Timothy	(51) B41J 2/14
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(22) 15.10.2018	United States of America	EJECTION MODULE, AND LIQUID
(54) LAMINATED GLASS PANE WITH	(51) B33Y 30/00	EJECTION METHOD
SOLAR CONTROL COATING AND	B33Y 10/00	(73) CANON KABUSHIKI KAISHA
THERMAL RADIATION REFLECTIVE	B33Y 50/00	(72) NAKAGAWA, Yoshiyuki
COATING	A23G 1/00	HAMMURA, Akiko
(73) SAINT-GOBAIN GLASS FRANCE	A23G 1/04	(31) 2019079641
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B32B 27/30	(54) ADDITIVE MANUFACTURING OF A	B41J 2/21
A61L 15/58	CHOCOLATE FOOD PRODUCT	H01R 12/79
B32B 7/12	(73) Chocoladefabriken Lindt & Sprüngli AG	H01B 7/00
B32B 5/02	(72) GEBHARDT, Andreas	H01B 7/04
A61L 31/12	KESSLER, Julia	H01B 7/08
A61L 31/06	MITTLER, Lukas	H01R 12/77
A61L 31/04	RADERMACHER, Daniel	(11) EP3626459
A61L 15/28	(51) B41F 17/22	(21) EP19198470.7
A61L 15/26	B41F 23/00	(47) 03.05.2023
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B32B 27/36	B41F 19/00	(54) PRINT HEAD CONTROL CIRCUIT AND
B32B 9/02	B41M 1/40	LIQUID DISCHARGE APPARATUS
B32B 9/04	(11) EP3551460	(73) Seiko Epson Corporation
B32B 23/04	(21) EP17811362.7	(72) MATSUMOTO, Yusuke
B32B 23/08	(47) 03.05.2023	MATSUYAMA, Toru
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(47) 03.05.2023	(72) HUGHES, Grahame John	(51) B41J 2/14
(87) JP2017011563	ROGERSON, Martin	B41J 2/16
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(47) 03.05.2023	(73) SURYS	DAMPING PART FOR A ROLLER
(22) 11.09.2020	(72) TRICHEREAU, Thibaud	(73) Tente GmbH & Co. KG
(54) PRINTING APPARATUS, CONTROL	DANIEL, Françoise	(72) BRISCHKE, Daniel
METHOD OF PRINTING APPARATUS,	SOUPARIS, Hugues	BLOCK, Wolfgang
AND NON-TRANSITORY COMPUTER-	(31) 1854228	PLAUTZ, Karl-Heinz
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(73) Weidmüller Interface GmbH & Co. KG	(54) METHOD FOR PRODUCING A	C08L 9/06
(72) DÜLME, Christian	LAMINATED BODY AND A LAMINATING	C08K 3/04
LORENZ, Stefan	FILM AND LAMINATED BODY AND	C08L 53/02
SARRAFZADEGAN, Farhad	LAMINATING FILM	C08L 15/00
BORMANN, Frank	(73) OVD Kinigram AG	(11) EP3592789
MÄNNCHEN, Guido	(72) HOFFMANN, Michael	(21) EP18764846.4
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(32) 25.11.2019	(33) Germany	METHODS OF MAKING AND
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(33) Germany	(51) B60B 17/00	(73) Bridgestone Corporation
Germany	B60B 3/00	(72) YAN, Yuan-Yong
(51) B41M 5/42	F16D 65/12	COOK, Rita
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INTERNAL RF PRINTING MATRIX	BRAKE DISK DESIGNS	(22) 17.09.2018
(73) Avery Dennison Retail Information	(73) Siemens Mobility Austria GmbH	(54) TIRE
Services LLC	(72) ZENZ, Rüdiger	(73) Sumitomo Rubber Industries, Ltd.
(72) ROTH, Mark, W.	BEICHTBUCHNER, Alexander	(72) HATANO, Seiji
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(32) 19.12.2014	SLOUP, Jiri	(32) 29.09.2017
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(51) B42D 25/435	(32) 09.01.2014	(51) B60C 1/00
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(22) 12.02.2020	(31) 1903322	(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(54) TIRE	(32) 29.03.2019	(72) BURESH, Patrick Jon
(73) Sumitomo Rubber Industries, Ltd.	(33) France	SCHOENMAKER, Jason
(72) KUNISAWA, Tetsuya	(51) B60C 11/00	DILLON, Robert
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(32) 19.03.2019	(21) EP21184231.5	THOMPSON, William Marshall
(33) Japan	(47) 03.05.2023	
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B60B 9/26	(73) Sumitomo Rubber Industries, Ltd.	(21) EP19841213.2
B60B 3/02	(72) KOBORI, Shuji	(47) 03.05.2023
B60B 3/04	(31) 2020127922	(87) CN2019082436
B60B 21/10	(32) 29.07.2020	30.01.2020
B60B 23/00	(33) Japan	(22) 12.04.2019
B60B 21/02	(51) B60C 11/00	(54) HIGHWAY AND RAILWAY DUAL- PURPOSE VEHICLE
B60B 9/02	B60C 11/03	(73) CRRC Yangtze Co., Ltd.
(11) EP3666547	B60C 13/00	(72) HU, Haiping
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(47) 03.05.2023	(21) EP21205570.1	LIU, Danyan
(87) JP2018025021	(47) 03.05.2023	JIANG, Ruijin
14.02.2019	(22) 29.10.2021	LIU, Fengwei
(22) 02.07.2018	(54) TIRE	LI, Ziming
(54) NON-PNEUMATIC TIRE	(73) Sumitomo Rubber Industries, Ltd.	PENG, Xianhong
(73) Honda Motor Co., Ltd.	(72) TOMISAKE, Yukari	YAO, Xiong
(72) KASHIWAI, Mikio	(31) 2020187229	XIANG, Zhiying
KAMBARA, Nobuo	(32) 10.11.2020	WU, Xiannian
HIRANO, Atsushi	(33) Japan	HUANG, Chunyu
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(87) EP2020058180	(73) Continental Reifen Deutschland GmbH	B60G 17/027
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(22) 24.03.2020	BEHR, Ulrich	(21) EP19748676.4
(54) TYRE CROWN REINFORCEMENT MADE UP OF TWO WORKING CROWN LAYERS	(31) 102018218084	(47) 03.05.2023
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	(32) 23.10.2018	(87) EP2019067715
(72) FOURNIER, Orel	(33) Germany	27.02.2020
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(33) France	(21) EP20204071.3	(72) SCHATZBERGER, Uwe
(51) B60C 9/00	(47) 03.05.2023	FORSTER, Gerhard
B60C 9/20	(22) 27.10.2020	BRANDSTETTER, Siegfried
B60C 9/22	(54) PNEUMATIC TYRE	(31) 102018214041
B60C 9/02	(73) Continental Reifen Deutschland GmbH	(32) 21.08.2018
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(21) EP20716713.1	Schasse, Heiko	(51) B60H 1/00
(47) 03.05.2023	Özüdüru, Ahmet	B60H 1/24
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(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	B60C 11/03	(22) 24.07.2020
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(73) Denso Thermal Systems Spa	(54) MICROBIOLOGICAL SANITIZATION	DEVICE
(72) DAVTER, Massimo	AND AIR PURIFICATION SYSTEM	(73) Magna Energy Storage Systems
CONTENTO, Leone	FOR HVAC SYSTEM OF A RAILWAY	Gesmbh
(31) 201700107690	VEHICLE	(72) STIENDL, Gregor
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(33) Italy	Equipments S.r.l.	(51) B60K 6/365
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B60P 3/20	ALIANO, Mattia Paolo	B60K 6/54
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UNIT	(87) JP2018039537	Zhejiang Geely Holding Group Co., Ltd.
(73) Carrier Corporation	09.05.2019	(72) SINGH, Tejinder
(72) POOLMAN, Ciara	(22) 24.10.2018	QIU, Zhiling
CHOPKO, Robert A.	(54) DOOR SASH STRUCTURE	XIE, Weiqian
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(33) United States of America	REINFORCEMENT	(72) Nishiyabu, Masaki
(51) B60H 1/32	(73) Renault s.a.s	(31) 2019070504
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F25D 29/00	(51) B60K 1/00	B60W 10/02
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(73) ZF Friedrichshafen AG	(73) Renault s.a.s	(73) Hyperloop Technologies, Inc.
(72) KALTENBACH, Johannes	(72) LUCEA, Marc	(72) USMAN, Irfan
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G01F 23/32	H01M 10/60	B60L 53/14
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(73) Magna Energy Storage Systems GesmbH	(73) Sandvik Mining and Construction Oy	(22) 12.02.2019
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WIMMER, Florian	Lindholm, Kari	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(51) B60K 15/05	Väre, Ville	(72) KUSUMI, Hidetoshi
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(73) Kiekert AG	(22) 29.05.2019	(21) EP19210817.3
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(33) Germany	(33) Korea (Republic)	(72) CHOI, Yong Kak
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(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(11) EP3473485	HONG, Seungwoo
(72) YAMANOUCHI, Yuchi	(21) EP16905486.3	HAN, Dong Hee
KINOSHITA, Masaharu	(47) 03.05.2023	KANG, Hyunjin
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(51) B60L 3/00	(54) VEHICLE CONTROL DEVICE AND VEHICLE CONTROL SYSTEM	(51) B60L 53/00
B60L 3/12	(73) Mitsubishi Electric Corporation	B60L 58/12
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B60L 58/16	YAMASHITA, Yoshinori	B60L 58/20
B60L 58/22	TERAMOTO, Kota	B60L 58/21
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G01R 31/396	KATO, Sho	H02J 7/00
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(54) METHOD AND SYSTEM FOR	MOTOR-VEHICLE INCLUDING THIS	F21S 43/251
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(73) ALSTOM Transport Technologies	E01B 25/18	BATAILLE, Alain
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(54) SAFETY BRAKE AND BRAKING	ON AN OFFSHORE SUBSTRUCTURE	BANGALORE SRINIVAS, VENKATESH
METHOD	(73) Saipem S.p.A.	PRASAD
(73) INVENTIO AG	(72) SEXTON, Christopher	KAMBLE, PRADEEP PRABHAKAR
(72) BLÖCHLE, Hans	STOKES, Benjamin	GOLLU, SRI SAI SHYAM SIDDHARTH
STEINER, Adrian	MCCARTHY, Vincent	BHOGINENI, SREEHARI KUMAR
MEIERHANS, Daniel	(51) B66C 1/66	(31) 202121005908
STÄHLI, Julian	B66F 9/18	(32) 11.02.2021
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(22) 09.11.2018	(54) COUPLING TOOL FOR CONNECTION	(54) LOADING MODULE AND METHOD
(54) LIGHT WEIGHT LOAD BEARING	TO AN OUTER END OF A TUBULAR	FOR TRANSPORT OF GOODS
MEMBER FOR ELEVATOR SYSTEM	ELEMENT FOR UPENDING THE	(73) Meijer Holding B.V.
(73) Otis Elevator Company	ELEMENT AND A RELATED METHOD	(72) MEIJER, Hendrik
(72) ZHAO, Chen Qian	FOR THIS	(31) 2023603
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(72) Krämer, Reinhardt	(54) SLEWING CRANE AND METHOD FOR	PRODUCT IN A FILLING SYSTEM
Brand, Gerrit	ALIGNING A SLEWING CRANE	(73) Kronos AG
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(21) EP17841592.3	COMPRISING SILICONE OIL	(54) METHOD OF PRODUCING
(47) 03.05.2023	FOR STABILIZING STORAGE OF	A METHYLSILICIC ACID
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C10K 3/04	Co., Ltd.	TANAKA, Osamu
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IN CATHODE MATERIAL FOR LITHIUM	C02F 103/16	(21) EP19809499.7
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JUNG, Wang Mo		SIEUTAT, Clément

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(73) L'Air Liquide - Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude	(72) CHEN, Young K.	HAUSOUL, Peter
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Huder, Karin	NIE, Zhe	KIPSHAGEN, Lukas
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(72) RÖTTGER, Henning	(33) Korea (Republic)	METHOD THEREOF
(31) 18200989	(51) D06F 34/22	(73) LG Electronics Inc.

(72) HONG, Sangwook KIM, Beomjun LEE, Youngjoo	(47) 03.05.2023 (87) EP2018073221 21.03.2019	(54) CABLE, AND METHOD FOR MONITORING A CABLE
(31) 20180169656 (32) 26.12.2018 (33) Korea (Republic)	(22) 29.08.2018 (54) CONVEYOR DEVICE FOR A FOLDING DEVICE FOR FOLDING TEXTILES	(73) Cabin Air Group B.V. (72) VAN DER SCHUIT, Rinze Jan (31) 2012848 2012849
(51) D06F 39/12 D06F 1/04 D06F 39/08	(73) BSH Hausgeräte GmbH (72) NITSCHMANN, Kai SCHUBERT, Martin WUTTGE, Oliver	(32) 20.05.2014 20.05.2014 (33) Netherlands Netherlands
(11) EP3346041 (21) EP16842151.9 (47) 03.05.2023 (87) KR2016009018 09.03.2017	(31) 102017216233 (32) 14.09.2017 (33) Germany	(51) D21F 5/18 D21F 7/12 D21F 11/14 D21F 1/32
(22) 17.08.2016 (54) WASHING MACHINE (73) Samsung Electronics Co., Ltd. (72) JANG, In Cheol SINGH, Amitoj LEE, Hyun Sik JEOUNG, Jeoung Kyo KIM, Kang Doo ROU, Doo Young LEE, Seung Youp JANG, Ha Yong	(51) D06M 13/00 A61L 9/01 (11) EP3966384 (21) EP20727563.7 (47) 03.05.2023 (87) US2020070034 19.11.2020 (22) 08.05.2020 (54) FRESHENING COMPOSITIONS WITH ALKOXYLATED PHENOLS (73) The Procter & Gamble Company (72) MUI, Michael, David O'Young KOTT, Kevin, Lee RINKER, Jennifer, Lea LUI, Bonny, Kay MIRACLE, Gregory, Scot NARASIMHAN, Karunakaran MORGAN, George, Kavin, III BROGDEN, David, Wesley ALLISON, Jennifer, Beth KEENAN, Andrea, C. MILLER, Daniel, S. TYSAK, Theodore SCHILL, Raymond	(11) EP3884100 (21) EP18940557.4 (47) 03.05.2023 (87) SE2018051198 28.05.2020 (22) 19.11.2018 (54) A DRYING SECTION OF A PAPERMAKING MACHINE COMPRISING ONE OR MORE THROUGH AIR DRYING CYLINDERS (73) Valmet Aktiebolag (72) MCCLURE WIGHTWICK, Scott LINDÉN, Anders JOHANSSON, Mattias EMANUELSSON, Martin JEWITT, Dennis
(31) 20150123783 (32) 01.09.2015 (33) Korea (Republic)	(31) 201962845894 P (32) 10.05.2019 (33) United States of America	(51) D21H 19/80 D21H 19/12 D21H 19/40 (11) EP3710634 (21) EP18877281.8 (47) 03.05.2023 (87) US2018060142 16.05.2019 (22) 09.11.2018 (54) WATER-BASED COATINGS FOR CELLULOSIC SUBSTRATES (73) Sun Chemical Corporation (72) ZHA, Yongping GORDON, Vanessa SCHOTTLAND, Philippe
(51) D06F 73/02 (11) EP3705618 (21) EP18898677.2 (47) 03.05.2023 (87) KR2018010426 11.07.2019 (22) 06.09.2018 (54) CLOTHES MANAGER (73) Samsung Electronics Co., Ltd. (72) CHAE, Gyeong Ryeol PARK, Jung Ha PYO, Sang Yeon KIM, Dong Wook PARK, Joo Yeon SEO, Ja Yeon	(31) 201962845894 P (32) 10.05.2019 (33) United States of America	(31) 201762585034 P (32) 13.11.2017 (33) United States of America
(31) 20180002481 (32) 08.01.2018 (33) Korea (Republic)	(51) D06M 15/333 D06M 15/227 D06M 15/263 D06M 15/285 C08F 265/02 C08F 265/10 C08F 18/08 C08F 210/02 C08F 220/06 C08F 220/56 C08F 222/06 C08F 218/08 (11) EP3781741 (21) EP19714408.2 (47) 03.05.2023 (87) EP2019057764 01.10.2020 (22) 27.03.2019 (54) FORMALDEHYDE-FREE BINDER COMPOSITION (73) Wacker Chemie AG (72) WÖLFLE, Heimo	(51) D21H 21/52 B27N 3/04 B27N 3/10 D21J 3/00 (11) EP3974581 (21) EP21199083.3 (47) 03.05.2023 (22) 27.09.2021 (54) METHOD FOR MANUFACTURING COMPACT (73) Seiko Epson Corporation (72) TANAKA, Hideki NAKAI, Yoko YOKOKAWA, Shinobu HIGUCHI, Naotaka
(51) D06F 81/08 D06F 73/00 D06F 81/02 D06F 81/04	(51) D07B 1/14 D07B 1/18 (11) EP3258010 (21) EP17181703.4 (47) 03.05.2023 (22) 19.05.2015	(31) 201762585034 P (32) 13.11.2017 (33) United States of America
(11) EP3564435 (21) EP17889179.2 (47) 03.05.2023 (87) KR2017015702 05.07.2018 (22) 29.12.2017 (54) SYSTEM IRON (73) LG Electronics Inc. (72) LEE, Youngjoo (31) 20160184190 (32) 30.12.2016 (33) Korea (Republic)	(51) D07B 1/14 D07B 1/18 (11) EP3258010 (21) EP17181703.4 (47) 03.05.2023 (22) 19.05.2015	(51) D21H 21/52 B27N 3/04 B27N 3/10 D21J 3/00 (11) EP3974581 (21) EP21199083.3 (47) 03.05.2023 (22) 27.09.2021 (54) METHOD FOR MANUFACTURING COMPACT (73) Seiko Epson Corporation (72) TANAKA, Hideki NAKAI, Yoko YOKOKAWA, Shinobu HIGUCHI, Naotaka
(51) D06F 89/00 D06F 89/02 B65H 29/16 B65H 45/14	(51) D07B 1/14 D07B 1/18 (11) EP3258010 (21) EP17181703.4 (47) 03.05.2023 (22) 19.05.2015	(31) 201762585034 P (32) 13.11.2017 (33) United States of America
(11) EP3682050 (21) EP18762822.7	(51) D07B 1/14 D07B 1/18 (11) EP3258010 (21) EP17181703.4 (47) 03.05.2023 (22) 19.05.2015	(51) D21H 27/00 B65D 85/48

(11) EP3845705	B06B 1/16	G01C 21/28
(21) EP19855412.3	(11) EP3901371	G08G 1/042
(47) 03.05.2023	(21) EP21163305.2	E01C 23/18
(87) JP2019033410	(47) 03.05.2023	(11) EP3604680
05.03.2020	(22) 18.03.2021	(21) EP18777050.8
(22) 27.08.2019	(54) IMBALANCE ARRANGEMENT FOR	(47) 03.05.2023
(54) INTERLEAVING PAPER FOR GLASS	A COMPACTOR ROLLER OF A SOIL	(87) JP2018011869
AND PRODUCTION METHOD	COMPACTOR	04.10.2018
THEREFOR	(73) Hamm AG	(22) 23.03.2018
(73) Oji Holdings Corporation	(72) Wolfrum, Gerhard	(54) MAGNETIC MARKER INSTALLATION
(72) HAGIHARA, Koichi	Janner, Peter	METHOD AND WORKING SYSTEM
(31) 2018160319	(31) 102020110952	(73) Aichi Steel Corporation
(32) 29.08.2018	(32) 22.04.2020	(72) YAMAMOTO Michiharu
(33) Japan	(33) Germany	NAGAO Tomohiko
(51) D21J 3/00	(51) E01C 19/35	AOYAMA Hitoshi
D21J 5/00	E01C 19/38	(31) 2017062202
D21J 7/00	E02D 3/046	(32) 28.03.2017
(11) EP3702530	(11) EP3936666	(33) Japan
(21) EP17870641.2	(21) EP21172479.4	(51) E01H 4/02
(47) 03.05.2023	(47) 03.05.2023	(11) EP3755844
(87) CN2017112960	(22) 06.05.2021	(21) EP19710166.0
02.05.2019	(54) HANDLE AND SPRINKLING DEVICE	(47) 03.05.2023
(22) 24.11.2017	FOR VIBRATION PLATE	(87) IB2019051463
(54) MOLDING PROCESS AND	(73) Wacker Neuson Produktion GmbH & Co.	29.08.2019
EQUIPMENT	KG	(22) 22.02.2019
(73) Shenzhen Wopuzhixuan Technology Co.,	(72) LEHLE, Peter	(54) SNOW TILLER AND METHOD OF
Ltd	MÜLLER, Tobias	ADJUSTING THE SAME
(72) Yi, Fabin	SCHLOSSER, Brigitte	(73) PRINOTH S.p.A.
ZOU, Yuyang	WEBER, Lisa	(72) RAPP, Sebastian
(31) 201711116471	(31) 102020117864	(31) 20180003000
201721383659 U	(32) 07.07.2020	(32) 23.02.2018
(32) 13.11.2017	(33) Germany	(33) Italy
24.10.2017	(51) E01C 19/38	(51) E02D 3/074
(33) China	E01C 19/35	E01C 19/38
China	E02D 3/046	(11) EP3725949
(51) E01B 3/28	E02D 3/074	(21) EP20164199.0
B61L 23/04	B06B 1/16	(47) 03.05.2023
(11) EP3676449	(11) EP3862487	(22) 19.03.2020
(21) EP18740136.9	(21) EP21153873.1	(54) HAND-GUIDED IMPLEMENT WITH
(47) 03.05.2023	(47) 03.05.2023	DECOUPLED DRAWBAR SUPPORT
(87) EP2018067898	(22) 27.01.2021	(73) Wacker Neuson Produktion GmbH & Co.
07.03.2019	(54) VIBRATION PLATE WITH ELECTRIC	KG
(22) 03.07.2018	DRIVE	(72) RUPP, Ferdinand
(54) CONCRETE SLEEPER FOR A RAILWAY	(73) Wacker Neuson Produktion GmbH & Co.	BARTL, Andreas
TRACK	KG	SIMON, Martin
(73) PCM RAIL.ONE AG	(72) Unverdorben, Walter	HARTMANN, Robert
(72) SÁNCHEZ PÉREZ, Maria Ángeles	(31) 102020102949	(31) 102019110041
(31) 102017120071	(32) 05.02.2020	(32) 16.04.2019
(32) 31.08.2017	(33) Germany	(33) Germany
(33) Germany	(51) E01C 23/088	(51) E02D 29/00
(51) E01C 11/22	E01C 23/12	E01F 15/08
E01D 19/08	(11) EP4071302	E04B 2/00
E03F 5/04	(21) EP22163953.7	E04C 1/00
(11) EP3851582	(47) 03.05.2023	(11) EP3647499
(21) EP21151542.4	(22) 23.03.2022	(21) EP19203200.1
(47) 03.05.2023	(54) SELF-PROPELLED GROUND MILLING	(47) 03.05.2023
(22) 14.01.2021	MACHINE	(22) 15.10.2019
(54) DISCHARGE DEVICE, IN PARTICULAR	(73) BOMAG GmbH	(54) CONCRETE STRUCTURE
DRAIN CUP OR SPOUT	(72) Muders, Nils	(73) Vidal Cavero, Francisco Javier
(73) Kammersberger, Andreas	(31) 102021118786	(72) Vidal Cavero, Francisco Javier
(72) Kammersberger, Andreas	102021001760	(31) 201831663 U
Nguyen, Viet Tue	(32) 20.07.2021	(32) 31.10.2018
Della Pietra, Regina	06.04.2021	(33) Spain
Hauszer, Thomas	(33) Germany	(51) E02F 3/20
(31) 5000620 U	Germany	E02F 3/24
(32) 14.01.2020	(51) E01F 11/00	E21C 25/10
(33) Austria	G05D 1/02	F15B 11/22
(51) E01C 19/28	G08G 1/00	F15B 13/02

(11) EP3245339	(32) 05.06.2018	G06Q 10/06
(21) EP16700281.5	05.06.2018	B60N 2/00
(47) 03.05.2023	(33) Japan	B60K 28/06
(87) EP2016050428	Japan	B60W 50/14
21.07.2016	(51) E02F 9/20	E02F 9/20
(22) 12.01.2016	E02F 9/26	(11) EP3889363
(54) HYDRAULIC APPARATUS FOR	E02F 3/43	(21) EP19909539.9
EXCAVATORS AND CONSTRUCTION	(11) EP3901382	(47) 03.05.2023
EQUIPMENTS IN GENERAL	(21) EP19916476.5	(87) JP2019050516
(73) Meccanica Breganzese S.p.A. In Breve	(47) 03.05.2023	16.07.2020
MB S.p.A.	(87) JP2019050518	(22) 24.12.2019
(72) AZZOLIN, Guido	27.08.2020	(54) OPERATION CONTROL DEVICE FOR
AZZOLIN, Diego	(22) 24.12.2019	CONSTRUCTION MACHINE
(31) PD20150005	(54) WORK MACHINE TARGET POSITION	(73) KOBELCO CONSTRUCTION
(32) 15.01.2015	ESTIMATION DEVICE	MACHINERY CO., LTD.
(33) Italy	(73) KOBELCO CONSTRUCTION	(72) YAMASHITA, Koji
(51) E02F 3/40	MACHINERY CO., LTD.	(31) 2019001756
B25J 15/00	(72) YAMASHITA, Koji	(32) 09.01.2019
B66C 1/30	(31) 2019027435	(33) Japan
B66F 9/18	(32) 19.02.2019	(51) E03C 1/04
E02F 3/96	(33) Japan	(11) EP3029208
B66C 1/54	(51) E02F 9/20	(21) EP15195970.7
B66C 1/68	E02F 9/26	(47) 03.05.2023
(11) EP4015711	E02F 9/22	(22) 24.11.2015
(21) EP21209213.4	F02D 29/00	(54) ELECTRONIC CONTROL SYSTEM FOR
(47) 03.05.2023	F02D 29/02	A SHOWER FACILITY
(22) 19.11.2021	F02D 29/04	(73) Caspro, S.A.
(54) HOLDING APPARATUS AND WORK	(11) EP3656930	(72) TRES CASAS, Daniel
MACHINE INCLUDING THE SAME	(21) EP19775663.8	(31) 201530978 U
(73) KOBELCO CONSTRUCTION	(47) 03.05.2023	201431582 U
MACHINERY CO., LTD.	(87) JP2019008943	(32) 01.09.2015
(72) SHIMAZU, Yasuhiko	03.10.2019	05.12.2014
MIYAZAKI, Ryunosuke	(22) 06.03.2019	(33) Spain
FUKUO, Nobuhiro	(54) WHEEL LOADER	Spain
YAMASHITA, Koji	(73) Hitachi Construction Machinery Co., Ltd.	(51) E03C 1/06
(31) 2021120200	(72) ITO, Kazuyuki	(11) EP3824143
2020204194	NAITOU, Keisuke	(21) EP19746432.4
(32) 21.07.2021	(31) 2018063204	(47) 03.05.2023
09.12.2020	(32) 28.03.2018	(87) EP2019000202
(33) Japan	(33) Japan	23.01.2020
Japan	(51) E02F 9/22	(22) 10.07.2019
(51) E02F 3/84	E02F 3/43	(54) WALL MOUNTING WITH RISER RAIL
E02F 9/26	F15B 11/02	(73) Grohe AG
(11) EP3798368	F15B 11/028	(72) MAINKA, David
(21) EP19920780.4	F15B 11/16	BEGEROW, Ralf
(47) 03.05.2023	F15B 11/17	VOREL, Thomas
(87) JP2019013042	(11) EP3722518	(31) 102018117664
01.10.2020	(21) EP18906544.4	(32) 20.07.2018
(22) 26.03.2019	(47) 03.05.2023	(33) Germany
(54) HYDRAULIC SHOVEL	(87) JP2018044191	(51) E03C 1/23
(73) Hitachi Construction Machinery Co., Ltd.	22.08.2019	(11) EP3715544
Hitachi Construction Machinery Tierra	(22) 30.11.2018	(21) EP20161196.9
Co., Ltd.	(54) SLEWING-TYPE HYDRAULIC WORK	(47) 03.05.2023
(72) NAKATANI Kenichiro	MACHINE	(22) 05.03.2020
IMURA Shinya	(73) Kobelco Construction Machinery Co.,	(54) DRAIN FITTING WITH CLEANING
(51) E02F 9/00	Ltd.	DEVICE
E02F 3/38	(72) KOZUI, Masatoshi	(73) Grohe AG
(11) EP3805467	(31) 2018024797	(72) TCHANA TCHUINO, Bertrand
(21) EP19814562.5	(32) 15.02.2018	BACHMANN, Horst
(47) 03.05.2023	(33) Japan	RÜBESAMEN, Paul
(87) JP2019021385	(51) E02F 9/24	BEGEROW, Hendrik
12.12.2019	A47C 7/62	KALKA, Franziska
(22) 29.05.2019	B60N 2/90	RÖDIGER, Sascha
(54) WORK MACHINE	G05G 1/04	VENUS, Stephan
(73) KUBOTA CORPORATION	G05G 1/30	GUO, Pei
(72) MASUDA, Ryohei	B60W 40/08	(31) 102019002224
(31) 2018107762	E02F 9/16	(32) 28.03.2019
2018107761	E02F 9/26	(33) Germany

(51) E03C 1/328 A47K 3/40 E03F 5/04	E04B 1/90 E04F 13/08 E04F 15/18	E05B 63/00 E05C 1/06 E05B 15/04
(11) EP3963140 (21) EP20720328.2 (47) 03.05.2023 (87) AT2020000006 05.11.2020 (22) 10.03.2020 (54) MOUNTING STAND FOR MOUNTING A FLOOR-LEVEL SHOWER TRAY (73) Micheluzzi, Christian (72) Micheluzzi, Christian (31) 1512019 (32) 29.04.2019 (33) Austria	(11) EP3543414 (21) EP18163180.5 (47) 03.05.2023 (22) 21.03.2018 (54) NATURAL FIBRE INSULATION, BUILDING PART WITH THE NATURAL FIBRE INSULATION AND USE OF THE NATURAL FIBRE INSULATION (73) DAW SE (72) SCHWEMMER, Robert ENZENBERGER, Gerhard	(11) EP3859101 (21) EP21154564.5 (47) 03.05.2023 (22) 01.02.2021 (54) TOGGLE LATCH MECHANISM (73) B/E Aerospace, Inc. (72) HOOGLAND, Frank (31) 202016777970 (32) 31.01.2020 (33) United States of America
(51) E03D 13/00 E03D 5/10 (11) EP3705895 (21) EP20161429.4 (47) 03.05.2023 (22) 06.03.2020 (54) URINAL SENSOR SYSTEM (73) Ideal Standard International BVBA (72) LAYEGHI, Kombiz DELLA-PORTA, Louis PEARSON, John (31) 201903162 (32) 08.03.2019 (33) United Kingdom	(51) E04F 15/024 (11) EP3940168 (21) EP21182043.6 (47) 03.05.2023 (22) 28.06.2021 (54) SUBSTRUCTURE FOR RECEIVING VISIBLE PROFILES, ACCESSORY AND LOCKING PART (73) Möller GmbH & Co. KG (72) Mette, Michael (31) 102020117776 (32) 06.07.2020 (33) Germany	(11) EP3492676 (21) EP18834327.1 (47) 03.05.2023 (87) CN2018076706 24.01.2019 (22) 13.02.2018 (54) BUFFER STRUCTURE FOR LOCK BODY LATCH BOLT (73) Guangdong Mingmen Locks Industry Co., Ltd. (72) XIAO, Qian RAN, Guangrui (31) 201710587941 (32) 19.07.2017 (33) China
(51) E03F 5/22 E03C 1/22 F04D 15/02 G05D 9/12 H01H 36/02 E03F 5/04 (11) EP3040489 (21) EP15203190.2 (47) 03.05.2023 (22) 30.12.2015 (54) DEVICE FOR DISCHARGING A LIQUID FROM A CONTAINER AND ASSOCIATED DETECTION MODULE (73) Société Française d'Assainissement - SFA (72) BALLESTRA, Victor Jean (31) 1463421 (32) 30.12.2014 (33) France	(51) E04H 3/16 E04H 4/08 E04B 1/00 E04B 7/16 E05F 15/641 (11) EP3936684 (21) EP21184648.0 (47) 03.05.2023 (22) 09.07.2021 (54) DEVICE FOR RETRACTING A TELESCOPIC STRUCTURE SUCH AS A SWIMMING POOL COVER (73) Chorin, Christian (72) Chorin, Christian (31) 2007296 (32) 09.07.2020 (33) France	(51) E05B 17/20 E05B 47/00 E05C 7/04 E05C 9/04 (11) EP3543436 (21) EP19163179.5 (47) 03.05.2023 (22) 15.03.2019 (54) COUNTER LOCK FOR A PASSIVE DOOR (73) dormakaba Deutschland GmbH (72) Schneider, Marc-Andre Ehrenthal, Saskia Gröne, Kai Gosch, Stephan Speckamp, Hans-Rainer (31) 102018106832 (32) 22.03.2018 (33) Germany
(51) E04B 1/16 E04B 5/32 E04B 1/76 (11) EP3070221 (21) EP16160926.8 (47) 03.05.2023 (22) 17.03.2016 (54) METHOD FOR TREATING THERMAL BRIDGES, ASSOCIATED HEAT- INSULATING ELEMENT AND STRUCTURAL CONNECTION ELEMENT, AND PRE-SLAB PROVIDED WITH SUCH ELEMENTS (73) KP1 (72) HAOUR, Thierry (31) 1552191 (32) 17.03.2015 (33) France	(51) E04H 5/00 E04B 1/12 B65D 90/02 (11) EP3926127 (21) EP20843568.5 (47) 03.05.2023 (87) CN2020081928 28.01.2021 (22) 28.03.2020 (54) CONTAINER UNIT, CONTAINER ASSEMBLY, AND DATA CENTER (73) Huawei Digital Power Technologies Co., Ltd. (72) HU, Xiong JIAN, Wei CHEN, Jijun (31) 201910657453 (32) 19.07.2019 (33) China	(51) E05B 65/465 (11) EP4092233 (21) EP22164956.9 (47) 03.05.2023 (22) 29.03.2022 (54) SELECTIVE LOCKING ASSEMBLY OF EXTRACTABLE COMPONENTS SUCH AS FURNITURE DRAWERS (73) Corbetta, Emidio (72) Corbetta, Emidio (31) 202100012800 (32) 18.05.2021 (33) Italy
(51) E04B 1/76	(51) E05B 1/00 E05B 5/00 E05B 15/00	(51) E05B 77/06 E05B 83/28 E05C 19/02 E05B 83/32 (11) EP3990727

(21) EP20760431.5	ROLLER SHUTTER BOX ASSIGNED	(73) TERRA AG fuer Tiefbautechnik
(47) 03.05.2023	TO A WINDOW	(72) JENNE, Dipl.-Wi.-Ing., Dietmar
(87) EP2020073171	(73) EXTE GmbH	GRABER, Roman
24.02.2022	(31) 102021116832	(31) 102017113247
(22) 19.08.2020	102020132747	(32) 16.06.2017
(54) LOCKING DEVICE FOR A CONTAINER	(32) 30.06.2021	(33) Germany
OR LID, IN PARTICULAR OF	09.12.2020	(51) E21B 7/06
MOTOR VEHICLES, WHICH CAN BE	(33) Germany	(11) EP3485130
ACTUATED BETWEEN A CLOSED AND	Germany	(21) EP17828350.3
OPEN POSITION	(51) E06B 9/174	(47) 03.05.2023
(73) Weber GmbH & Co. KG	E06B 9/323	(87) US2017041635
Kunststofftechnik - Formenbau	E06B 9/50	18.01.2018
(72) HORTOBAGY, Frank	(11) EP3483377	(22) 12.07.2017
(51) E05F 11/54	(21) EP18205245.6	(54) DRILLING ASSEMBLY UTILIZING
G08B 13/06	(47) 03.05.2023	TILTED DISINTEGRATING DEVICE
E05F 7/00	(22) 08.11.2018	FOR DRILLING DEVIATED
G08B 13/08	(54) SCREENING ARRANGEMENT WITH	WELLBORES
(11) EP3287584	IMPROVED MOUNTING BRACKET	(73) Baker Hughes Holdings LLC
(21) EP17151660.2	AND END PIECE, WINDOW WITH	(72) PETER, Andreas
(47) 03.05.2023	SUCH A MOUNTING BRACKET	PETERS, Volker
(22) 16.01.2017	AND METHOD OF INSTALLING	(31) 201615210735
(54) METHOD AND MECHANISM FOR	AND UNINSTALLING A SCREENING	(32) 14.07.2016
AUTOMATICALLY DETECTING DOOR	ARRANGEMENT IN THE WINDOW	(33) United States of America
OR WINDOW FAULTS	(73) VKR Holding A/S	(51) E21B 7/28
(73) Smart Home(Beijing) Construction	(72) Thomsen, Peder Solsø	(11) EP3938615
Technology Co., Ltd.	(31) PA201770846	(21) EP20718369.0
(72) Jiang, Xiaowei	(32) 10.11.2017	(47) 03.05.2023
(31) 201610711307	(33) Denmark	(87) IB2020052369
(32) 23.08.2016	(51) E06B 9/44	17.09.2020
(33) China	(11) EP3622159	(22) 16.03.2020
(51) E06B 1/52	(21) EP18732955.2	(54) A ROCK CRUSHING UNIT FOR
F16B 5/02	(47) 03.05.2023	WIDENING A PILOT HOLE MADE ON
E06B 1/36	(87) US2018031631	ROCKY TERRAIN
E06B 1/60	15.11.2018	(73) HPM - Hydraulic Performance Machines
E06B 3/968	(22) 08.05.2018	S.r.l.
E06B 3/28	(54) VARIABLE-STIFFNESS ROLLER	(72) CARTECHINI, Giuseppe
E06B 3/54	SHADE TUBE	(31) 201900003721
(11) EP4108879	(73) Lutron Technology Company LLC	(32) 14.03.2019
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F02B 75/02	(32) 27.08.2018	(22) 24.05.2017
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(21) EP17899643.5	(51) F02B 37/24	(73) Hamilton Sundstrand Corporation
(47) 03.05.2023	F01D 17/16	(72) BRUNO, Louis J.
		HIPSKY, Harold W.

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(32) 26.05.2016	(73) Hamilton Sundstrand Corporation	(32) 06.02.2018
(33) United States of America	(72) JIANG, Yiwei	(33) Japan
(51) F02C 7/052	(72) NGUYEN, James Vandung	(51) F02D 41/12
F02C 9/18	GOY, Edward W.	F02P 5/04
(11) EP3643904	(31) 201916269956	F02D 37/02
(21) EP19205195.1	(32) 07.02.2019	F02D 41/00
(47) 03.05.2023	(33) United States of America	(11) EP2929168
(22) 24.10.2019	(51) F02C 7/32	(21) EP13803158.8
(54) DIRT MITIGATION IN A GAS TURBINE ENGINE	(11) EP3693581	(47) 03.05.2023
(73) Raytheon Technologies Corporation	(21) EP19196632.4	(87) FR2013052801
(72) HANLON, Christopher J.	(47) 03.05.2023	12.06.2014
KRENZER, James F.	(22) 11.09.2019	(22) 20.11.2013
ROSE, Becky E.	(54) DUAL SPOOL POWER EXTRACTION WITH SUPERPOSITION GEARBOX	(54) METHOD FOR SELECTIVELY CUTTING OFF INJECTION INTO ONE OR MORE CYLINDERS OF A COMBUSTION ENGINE AND CORRESPONDING MOTOR VEHICLE
ZELESKY, Mark F.	(73) Raytheon Technologies Corporation	(73) PSA Automobiles SA
(31) 201816168934	(72) LEQUE, Nicholas D.	(72) CHARLES, Juliette
(32) 24.10.2018	POLLY, Joseph H.	THOMAS, Mathieu
(33) United States of America	(31) 201816127305	(31) 1261586
(51) F02C 7/052	(32) 11.09.2018	(32) 04.12.2012
F02C 9/18	(33) United States of America	(33) France
(11) EP3643905	(51) F02C 7/32	(51) F02K 1/72
(21) EP19205202.5	F02C 7/36	F02K 1/76
(47) 03.05.2023	(11) EP3543511	(11) EP3885567
(22) 24.10.2019	(21) EP18214850.2	(21) EP21163082.7
(54) ADAPTIVE BLEED SCHEDULE IN A GAS TURBINE ENGINE	(47) 03.05.2023	(47) 03.05.2023
(73) Raytheon Technologies Corporation	(22) 20.12.2018	(22) 17.03.2021
(72) HANLON, Christopher J.	(54) POWER TAKEOFF TRANSMISSION	(54) DUAL-FLOW JET ENGINE COMPRISING MOBILE DEFLECTORS
KRENZER, James F.	(73) Raytheon Technologies Corporation	(73) AIRBUS OPERATIONS
ROSE, Becky E.	(72) ROBERGE, Gary D.	(72) MENOU, Fabien
ZELESKY, Mark F.	(31) 201715851089	FESQUET, Stéphanie
(31) 201816168943	(32) 21.12.2017	(31) 2002895
(32) 24.10.2018	(33) United States of America	(32) 25.03.2020
(33) United States of America	(51) F02C 9/34	(33) France
(51) F02C 7/232	F01D 19/00	(51) F02K 7/02
F02C 9/34	F01D 21/00	F02C 5/00
(11) EP3739189	F02C 6/00	F02M 27/08
(21) EP20175048.6	(11) EP3683426	(11) EP3144516
(47) 03.05.2023	(21) EP19151980.0	(21) EP15185513.7
(22) 15.05.2020	(47) 03.05.2023	(47) 03.05.2023
(54) METHOD AND SYSTEM FOR OPERATING AN ENGINE	(22) 15.01.2019	(22) 16.09.2015
(73) Pratt & Whitney Canada Corp.	(54) METHOD FOR OPERATING A GAS TURBINE POWER PLANT AND GAS TURBINE POWER PLANT	(54) HEAT ENERGY FEEDBACK ENGINE AND OPERATING METHOD
(72) JARVO, James	(73) Ansaldo Energia Switzerland AG	(73) De Zhen Corporation Pty Ltd
MANOUKIAN, Patrick	(72) APPEL, Christoph	(72) Hao, Zhou
BEAUCHESNE-MARTEL, Philippe	SINGLA, Ghislain	Zhou, Han, Yu
(31) 201916425488	FUX, Samuel	(51) F02K 9/97
201962848146 P	MÜLLER, Eric	(11) EP3947951
(32) 29.05.2019	(51) F02D 41/02	(21) EP20731163.0
15.05.2019	F02D 41/14	(47) 03.05.2023
(33) United States of America	F02D 41/40	(87) FR2020050611
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(51) F02C 7/232	(11) EP3521595	(22) 20.03.2020
G01D 5/241	(21) EP19154391.7	(54) JET NOZZLE EQUIPPED WITH A THERMALLY REGULATED RING
(11) EP3263869	(47) 03.05.2023	(73) ArianeGroup SAS
(21) EP16461532.0	(22) 30.01.2019	(72) ZORRILLA, Xavier
(47) 03.05.2023	(54) ENGINE SYSTEM, METHOD OF CONTROLLING ENGINE SYSTEM, AND COMPUTER PROGRAM PRODUCT	LASSENAY, Florian
(22) 30.06.2016	(73) Mazda Motor Corporation	(31) 1903196
(54) METERING VALVE	(72) Nishimura, Hiroyuki	(32) 27.03.2019
(73) Hamilton Sundstrand Corporation	Hayashibara, Hiroshi	(33) France
(72) Plucinski, Wojciech	Tsuboi, Goro	(51) F02M 21/02
(51) F02C 7/277	Yamada, Hiroshi	F02M 33/02
(11) EP3693579	Sato, Yoshiyuki	
(21) EP19208654.4	Mizuta, Yoshio	
(47) 03.05.2023		
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F02M 37/20	SYSTEM FOR CRANKING OVER AN	(47) 03.05.2023
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(11) EP3741983	(73) Mahle International GmbH	24.09.2020
(21) EP19207062.1	(72) VODOPIVEC, Luka	(22) 03.01.2020
(47) 03.05.2023	(51) F03D 7/02	(54) TOWER TUBE SECTION, TOWER
(22) 05.11.2019	(11) EP3587805	FRAME AND WIND POWER
(54) HIGH PRESSURE FUEL PUMP	(21) EP19181166.0	GENERATOR SET
(73) Motonic Corporation	(47) 03.05.2023	(73) Beijing Goldwind Science & Creation
(72) JEON, Wan Jae	(22) 19.06.2019	Windpower Equipment Co., Ltd.
LEE, Jun Hyeok	(54) SYSTEM FOR DETERMINING THE	(72) LIU, Jinlei
PARK, Yong Deok	AVAILABLE PERFORMANCE OF A	ZHANG, Ke
KIM, Dae Yong	WIND FARM	HAN, Junjie
KIM, Dong Sub	(73) Siemens Gamesa Renewable Energy	(31) 201910212957
(31) 20190114135	Service GmbH	(32) 20.03.2019
20190060284	(72) Geisler, Jens	(33) China
(32) 17.09.2019	(31) 102018004816	(51) F03D 13/40
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Korea (Republic)	(51) F03D 7/02	(21) EP20163484.7
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F02M 31/06	(21) EP17151173.6	(54) METHOD AND SYSTEM FOR
F02M 31/14	(47) 03.05.2023	TRANSPORTING A COMPONENT OF A
F02M 35/10	(22) 12.01.2017	WIND TURBINE
F02M 35/16	(54) A WIND TURBINE BLADE	(73) Siemens Gamesa Renewable Energy A/
F02B 77/13	COMPRISING A TRAILING EDGE	S
F01P 1/00	NOISE REDUCING DEVICE	(72) ANDRESEN, Peter
(11) EP3832120	(73) LM Wind Power A/S	MOELLER, Jesper
(21) EP19859563.9	(72) ARCE, Carlos	OLSEN, Michell Mirsbach
(47) 03.05.2023	MADSEN, Jesper	(51) F03D 80/70
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(54) VEHICLE WITH ENGINE AND AIR	(21) EP20203101.9	(22) 25.09.2020
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(73) MAZDA MOTOR CORPORATION	(22) 21.10.2020	ARRANGEMENT FOR COLLECTING
(72) KODAMA Shin	(54) SYSTEM AND METHOD FOR	WASTE GREASE FROM A GREASE
SUGASAKI Kenji	MITIGATING LOADS ACTING ON A	LUBRICATED ROTOR BLADE PITCH
NAKAGAWA Hiromasa	ROTOR BLADE OF A WIND TURBINE	BEARING OF A WIND TURBINE
(31) 2018169779	(73) General Electric Company	(73) Siemens Gamesa Renewable Energy A/
(32) 11.09.2018	(72) Deshpande, Ameet Shridhar	S
(33) Japan	Gu, Shuang	(72) Pedersen, Jan Soendergaard
(51) F02M 37/32	Agarwal, Pranav	Petronic, Vujadin
F02M 37/36	Vaddi, Prashanth Kumar Reddy	(51) F03G 1/06
F02M 37/42	Landa, Bernard	F03G 1/00
B01D 35/153	Koerber, Arne	F03G 5/06
B01D 35/147	(31) 201911005568	F03G 1/08
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(22) 18.03.2021	F03D 9/25	(21) EP18774328.1
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(73) Hamilton Sundstrand Corporation	(21) EP21206316.8	(87) JP2018012475
(72) JEDLINSKI, Marek	(47) 03.05.2023	04.10.2018
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(31) 43338820	(54) METHOD FOR PROJECT DESIGN FOR	(54) POWER GENERATION MECHANISM
(32) 30.03.2020	A WIND FARM	AND POWER GENERATION METHOD
(33) Poland	(73) Wobben Properties GmbH	(73) Orbray Co., Ltd.
(51) F02N 15/02	(72) Scheit, Christoph	(72) AOYAGI Tomohide
F02N 15/06	Wortelker, Rainer	(31) 2017065011
F02N 11/08	Noffke, Nils	(32) 29.03.2017
(11) EP3875749	(31) 102020129104	(33) Japan
(21) EP20161293.4	(32) 04.11.2020	(51) F04B 35/04
(47) 03.05.2023	(33) Germany	F04B 39/12
(22) 05.03.2020	(51) F03D 13/20	F04B 39/14
(54) STARTER APPARATUS FOR	(11) EP3929432	(11) EP3692262
CRANKING OVER AN INTERNAL		(21) EP18779267.6

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(22) 18.09.2018	(22) 12.07.2019	(11) EP3359850
(54) VERSATILE HOUSING OF	(54) SCROLL COMPRESSOR	(21) EP16826696.3
COMPRESSOR MOTORS	(73) LG ELECTRONICS INC.	(47) 03.05.2023
(73) Koninklijke Philips N.V.	(72) LEE, Howon	(87) BE2016000047
(72) VENTRAPRAGADA, Varaprasad	KIM, Taekyoung	13.04.2017
(31) 201762564630 P	KIM, Cheolhwan	(22) 27.09.2016
(32) 28.09.2017	(31) 20180081774	(54) METHOD FOR INSTALLING A
(33) United States of America	(32) 13.07.2018	TRANSMISSION AND SHAFTSEAT
(51) F04B 39/02	(33) Korea (Republic)	APPLIED THEREBY
F04B 39/12	(51) F04C 18/356	(73) Atlas Copco Airpower, Naamloze
F04B 39/00	F04C 23/02	Vennootschap
F04B 35/04	F04C 29/00	(72) VAN PRAET, Stephan Willem
(11) EP3775551	(11) EP3680486	(31) 201505638
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(47) 03.05.2023	(47) 03.05.2023	(33) Belgium
(87) SG2019050170	(87) CN2018076424	(51) F04D 1/00
03.10.2019	14.03.2019	F04D 19/04
(22) 27.03.2019	(22) 12.02.2018	(11) EP3845764
(54) HERMETIC COMPRESSOR HAVING	(54) COMPRESSOR AND FABRICATION	(21) EP21166257.2
DISCHARGE MUFFLER	METHOD THEREFOR	(47) 03.05.2023
(73) Panasonic Appliances Refrigeration	(73) Shanghai Highly Electrical Appliances	(22) 31.03.2021
Devices Singapore	Co., Ltd.	(54) VACUUM PUMP AND VACUUM PUMP
(72) CHONG, San Haw	(72) HUANG, Bo	SYSTEM
TEO, Kevin Kai Wei	ZHAO, Fengrong	(73) Pfeiffer Vacuum Technology AG
(31) 10201802579W	TANG, Yiqun	(72) Hofmann, Jan
(32) 28.03.2018	(31) 201710797161	Schweighöfer, Michael
(33) Singapore	(32) 06.09.2017	Lohse, Martin
(51) F04B 39/06	(33) China	Südwasser, Sebastian
F04B 47/14	(51) F04C 19/00	(51) F04D 5/00
F04C 18/02	F04C 29/12	F04D 23/00
F04C 29/00	(11) EP3765742	F04D 29/18
F04C 29/04	(21) EP19767637.2	F04D 29/28
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(47) 03.05.2023	19.09.2019	(47) 03.05.2023
(22) 12.02.2020	(22) 14.03.2019	(87) EP2015055775
(54) AIR COMPRESSION DEVICE AND	(54) METHOD AND APPARATUS RELATED	12.11.2015
METHOD FOR MANUFACTURING AIR	TO SERVICING OF LIQUID RING	(22) 19.03.2015
COMPRESSION DEVICE	PUMPS	(54) IMPELLER FOR REGENERATIVE
(73) Nabtesco Corporation	(73) Edwards Technologies Vacuum	PUMP
(72) KUROMITSU, Masaru	Engineering (Qingdao) Co Ltd	(73) Gebr. Becker GmbH
TANAKA, Genpei	(72) VIJAPURE, Ganesh	(72) BUCHHOLZ, Lars
KAWABATA, Keita	DE BOCK, Andries Daniel Jozef	GENNAT, Antje
KUGA, Takashi	GLAISTER, Mark Gordon	KRIEBEL, Ulli
(31) 2019023061	(31) 201804110	WANIEK, Henryk
(32) 12.02.2019	(32) 14.03.2018	VON KATHEN, Achim
(33) Japan	(33) United Kingdom	(31) 102014106440
(51) F04C 2/08	(51) F04C 25/02	(32) 08.05.2014
F04C 2/18	F04C 27/02	(33) Germany
F04C 11/00	F04C 29/02	(51) F04D 13/02
(11) EP3219988	F04C 28/28	F04D 13/06
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(47) 03.05.2023	(21) EP20714486.6	F01P 5/12
(22) 20.02.2017	(47) 03.05.2023	(11) EP3830421
(54) GEAR PUMP WITH PASSAGEWAYS IN	(87) EP2020056356	(21) EP19735406.1
GEAR TEETH	08.10.2020	(47) 03.05.2023
(73) Hamilton Sundstrand Corporation	(22) 10.03.2020	(87) IB2019054945
(72) RIBAROV, Lubomir A.	(54) LUBRICANT RECEPTACLE	06.02.2020
VEILLEUX, Leo J.	(73) Leybold France SAS	(22) 13.06.2019
(31) 201615072151	(72) FOURNIER, Patrick	(54) PUMP GROUP
(32) 16.03.2016	(31) 202019101841 U	(73) Industrie Saleri Italo S.P.A.
(33) United States of America	(32) 01.04.2019	(72) TEBALDINI, Giovanni
(51) F04C 18/02	(33) Germany	(31) 201800007845
F04C 23/00	(51) F04C 29/00	(32) 03.08.2018
F04C 29/12	F04C 18/16	(33) Italy

(51) F04D 17/16	(73) Pfeiffer Vacuum Technology AG	F04F 5/16
F04D 25/06	(72) Hofmann, Jan	(11) EP3726066
F04D 29/44	Schweighöfer, Michael	(21) EP18890517.8
F04D 29/66	Lohse, Martin	(47) 03.05.2023
(11) EP3405679	(51) F04D 19/04	(87) CN2018121607
(21) EP17781458.9	F04D 29/02	27.06.2019
(47) 03.05.2023	F04D 29/058	(22) 17.12.2018
(87) EP2017075261	(11) EP3640481	(54) FAN HEAD ASSEMBLY FOR
31.05.2018	(21) EP18200472.1	BLADELESS AIR-BLOWING
(22) 04.10.2017	(47) 03.05.2023	APPARATUS, BLADELESS AIR-
(54) DIAGONAL FAN	(22) 15.10.2018	BLOWING APPARATUS, HEAD FOR
(73) ebm-papst Mulfingen GmbH & Co. KG	(54) VACUUM PUMP	BLADELESS FAN, AND BLADELESS
(72) GEBERT, Daniel	(73) PFEIFFER VACUUM GMBH	FAN
(31) 102016122533	(72) Stoll, Tobias	(73) GD Midea Environment Appliances MFG
(32) 22.11.2016	Lohse, Martin	Co., Ltd.
(33) Germany	Schweighöfer, Michael	Midea Group Co., Ltd.
(51) F04D 17/16	Sieben, Daniel	(72) LUO, Weijin
F04D 29/42	(51) F04D 29/16	YE, Sijin
H01M 8/00	F04D 29/42	LU, Jianbin
B01J 4/00	F04D 29/68	SONG, Pingze
F04D 25/16	(11) EP2930371	(31) 201711378783
(11) EP3271586	(21) EP15160825.4	201721803727 U
(21) EP15713119.4	(47) 03.05.2023	201721803860 U
(47) 03.05.2023	(22) 25.03.2015	201711376203
(87) US2015020707	(54) TURBOMACHINE WITH A BLEEDING	(32) 19.12.2017
22.09.2016	PORT	19.12.2017
(22) 16.03.2015	(73) Honeywell International Inc.	19.12.2017
(54) CENTRIFUGAL BLOWER SYSTEM	(72) Barton, Michael Todd	19.12.2017
WITH INTERNAL GAS MIXING AND	Schugardt, John	(33) China
GAS PHASE CHEMICAL REACTOR	(31) 201414248579	China
INCORPORATING SAME	(32) 09.04.2014	China
(73) Watt Fuel Cell Corp.	(33) United States of America	China
(72) FINNERTY, Caine, M.	(51) F04D 29/30	(51) F15B 11/04
DEWALD, Paul	F04D 29/28	F15B 11/042
(51) F04D 17/18	(11) EP3696425	E02F 9/12
F04D 29/22	(21) EP17928592.9	E02F 9/22
F04D 29/28	(47) 03.05.2023	(11) EP3901471
F04D 31/00	(87) JP2017036807	(21) EP20753077.5
F04F 5/04	18.04.2019	(47) 03.05.2023
B01D 19/00	(22) 11.10.2017	(87) JP2020001671
F04F 10/00	(54) IMPELLER FOR CENTRIFUGAL	13.08.2020
F04F 5/06	ROTATING MACHINE, AND	(22) 20.01.2020
F04D 17/10	CENTRIFUGAL ROTATING MACHINE	(54) TURN-DRIVING APPARATUS FOR
F04D 25/04	(73) Mitsubishi Heavy Industries Engine &	WORK MACHINE
H02K 7/18	Turbocharger, Ltd.	(73) KOBELCO CONSTRUCTION
F04F 5/42	(72) HONDA, Hironori	MACHINERY CO., LTD.
(11) EP3580461	IWAKIRI, Kenichiro	(72) YOSHIHARA, Hideo
(21) EP18751919.4	(51) F04D 29/40	YUMOTO, Natsuki
(47) 03.05.2023	F04D 29/58	UEDA, Koji
(87) US2018014399	F04D 29/66	(31) 2019018536
16.08.2018	F04D 29/70	(32) 05.02.2019
(22) 19.01.2018	(11) EP3772591	(33) Japan
(54) AN ENERGY RECOVERY-RECYCLING	(21) EP20162797.3	(51) F16B 4/00
TURBINE INTEGRATED WITH A	(47) 03.05.2023	F16B 5/02
CAPILLARY TUBE GAS COMPRESSOR	(22) 12.03.2020	B62K 11/00
(73) Carnot Compression Inc.	(54) SEPARABLE OUTER ENCLOSURE	(11) EP3992471
(72) CHERRY, Mark, A.	FOR TURBO BLOWER	(21) EP21203121.5
ALDERMAN, Robert, A.	(73) Rhee, Won Seok	(47) 03.05.2023
SHILLINGER, D., Hans	Jeong, Keon Woo	(22) 18.10.2021
(31) 201715429710	(72) Rhee, Won Seok	(54) RESIN PART HAVING ATTACHMENT
(32) 10.02.2017	Jeong, Keon Woo	HOLE, ASSEMBLY PART INCLUDING
(33) United States of America	(31) 20190097377	THE SAME, AND STRADDLED
(51) F04D 19/04	(32) 09.08.2019	VEHICLE
(11) EP3907406	(33) Korea (Republic)	(73) Yamaha Hatsudoki Kabushiki Kaisha
(21) EP21168848.6	(51) F04F 5/44	(72) Uchisawa, Akinori
(47) 03.05.2023	F04D 25/08	Abe, Shigeru
(22) 16.04.2021	F04D 29/40	Yamada, Yuto
(54) VACUUM PUMP		(31) 2020182690

(32) 30.10.2020	(31) 201916585009	(33) Germany
(33) Japan	201962807051 P	(51) F16C 33/12
(51) F16B 5/00	(32) 27.09.2019	F16C 33/04
F16B 1/04	18.02.2019	F16C 23/04
H01L 41/09	(33) United States of America	F16C 33/20
H01L 41/08	United States of America	(11) EP3891409
H01L 41/193	(51) F16C 27/02	(21) EP19773344.7
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(21) EP21176720.7	F16C 33/26	(87) DE2019100800
(47) 03.05.2023	F16C 17/10	11.06.2020
(22) 28.05.2021	F04D 29/047	(22) 09.09.2019
(54) FIXING ARRANGEMENT WITH	F04D 29/66	(54) SPHERICAL BEARING
A FIXING ELEMENT WITH AN	F04D 31/00	(73) Schaeffler Technologies GmbH & Co. KG
ELECTROACTIVE POLYMER	F16C 27/06	(72) KURSAWE, Serge
ACTUATOR	(11) EP3911864	WEITKAMP, Thomas
(73) Airbus Operations GmbH	(21) EP20700863.2	BOLTE, Frank
(72) Linde, Peter	(47) 03.05.2023	KÖNIG, Thomas
Hegenbart, Matthias	(87) EP2020025012	PODGAYNYY, Nikolay
Benthien, Hermann	23.07.2020	(31) 102018131021
Tölle, Lisa	(22) 14.01.2020	(32) 05.12.2018
(31) 102020116253	(54) A DAMPENED BEARING COMPONENT,	(33) Germany
(32) 19.06.2020	BEARING INCLUDING SAID	(51) F16D 3/72
(33) Germany	COMPONENT, AND ROTARY MACHINE	F16D 41/067
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02.01.2020	(21) EP17164196.2	FUEL INJECTOR
(22) 21.01.2019	(47) 03.05.2023	(73) General Electric Company
(54) ELECTRONIC DEVICE FOR	(22) 31.03.2017	(72) BERRY, Jonathan, Dwight
PROVIDING VISUAL EFFECT BY		HUGHES, Michael, John

(31) 201715442255 201662313232 P	CONNECTION MODULE WITH SUCH A DEVICE	201820174493 U
(32) 24.02.2017	(73) Gebr. Kemper GmbH + Co. KG	(32) 30.01.2018
25.03.2016	Metallwerke	30.01.2018
(33) United States of America	(72) Heß, Markus	(33) China
United States of America	(31) 202019001248 U	China
(51) F23R 3/28	(32) 15.03.2019	(51) F24F 1/00
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(47) 03.05.2023	F16L 58/10	F24F 110/20
(22) 10.03.2021	(11) EP3683507	F24F 11/86
(54) COMBUSTOR FOR A GAS TURBINE	(21) EP19217882.0	F24F 11/70
(73) General Electric Company	(47) 03.05.2023	F25B 49/02
(72) ZIMINSKY, Willy Steve	(22) 19.12.2019	(11) EP3640547
PINSON, Mark William	(54) METHOD FOR RETROFITTING	(21) EP18855086.7
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STOIA, Lucas John	(73) Innogy SE	(87) CN2018104344
(31) 202016833954	(72) Sailer, Bruno	14.03.2019
(32) 30.03.2020	Wittkowski, Alexander	(22) 06.09.2018
(33) United States of America	(31) 102019101309	(54) MULTI-SPLIT AIR CONDITIONING
(51) F23R 3/28	(32) 18.01.2019	SYSTEM AND CONTROL METHOD
F23R 3/42	(33) Germany	THEREFOR
F23R 3/34	(51) F24D 17/00	(73) Gree Electric Appliances (Wuhan) Co.,
(11) EP3438541	F24D 17/02	Ltd.
(21) EP18185697.2	F24D 19/10	Gree Electric Appliances, Inc. of Zhuhai
(47) 03.05.2023	(11) EP3705789	(72) JIAO, Huachao
(22) 26.07.2018	(21) EP20161155.5	ZHANG, Shiqiang
(54) GAS TURBINE WITH COMBUSTOR	(47) 03.05.2023	WU, Lianfa
AND IGNITER	(22) 05.03.2020	XIONG, Jianguo
(73) General Electric Company	(54) WATER SUPPLY SYSTEM AND	ZHOU, Bing
(72) STOIA, Lucas John	METHOD FOR OPERATING SAME	HUANG, Zhiguang
HUANG, Yimin	(73) Gebr. Kemper GmbH + Co. KG	LI, Donghui
KHAN, Abdul	Metallwerke	QIU, Bo
JOHNSON, Thomas Edward	(72) Blumenthal, Roland	(31) 201710800560
OSTEBEE, Heath M.	(31) 102019203124	(32) 07.09.2017
NATARAJAN, Jayaprakash	(32) 07.03.2019	(33) China
(31) 201715664025	(33) Germany	(51) F24F 1/48
(32) 31.07.2017	(51) F24F 1/00	F24F 1/56
(33) United States of America	F24F 3/14	F24F 1/58
(51) F24C 15/02	F24F 13/14	F24F 1/54
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(47) 03.05.2023	F24F 6/04	(47) 03.05.2023
(22) 30.09.2020	F24F 11/72	(22) 27.03.2018
(54) COOKING APPLIANCE PROVIDED	F24F 11/81	(54) AN OUTDOOR UNIT AND AN AIR
WITH A DOOR LATCH ASSEMBLY	F24F 11/84	CONDITIONER HAVING THE SAME
(73) Whirlpool Corporation	F24F 11/89	(73) Hitachi-Johnson Controls Air
(72) Balekundri, Abubackar M.	F24F 1/037	Conditioning, Inc.
(51) F24D 3/10	F24F 1/029	(72) YAMADA, Toru
E03B 7/07	F24F 6/00	YAMADA, Noriyoshi
F16L 55/00	F24F 1/0014	HASHIMOTO, Yuta
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F16L 55/027	(21) EP18904311.0	(51) F24F 3/14
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F16L 55/053	(87) CN2018092681	F24F 11/61
F16L 59/16	08.08.2019	F24F 11/89
F16K 11/00	(22) 25.06.2018	F24F 11/48
F24D 17/00	(54) FLOOR-STANDING AIR CONDITIONER	F24F 110/22
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(21) EP20163010.0	Co., Ltd.	(21) EP19173140.5
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(22) 13.03.2020	CHEN, Liangrui	(22) 07.05.2019
(54) DEVICE FOR DISCHARGING	YUAN, Hongliang	(54) METHOD FOR CONTROLLING A
PRESSURE IN A WATER SYSTEM AND	(31) 201810091057	DEHUMIDIFIER WHEEL
		(73) Piovon S.P.A.

(72) BELLIO, Enrico BEVILACQUA, Marco	F24F 11/52 F24F 11/58	15.03.2018 (22) 08.09.2016
(31) 201800005333	F24F 11/63	(54) SYSTEM AND METHOD FOR
(32) 14.05.2018	F24F 11/74	REMOVING CONDENSATE FROM A
(33) Italy	F24F 11/86	COOLING UNIT
(51) F24F 11/00	F24F 11/871	(73) Schneider Electric IT Corporation
F24F 3/00	F24F 140/50	(72) YANG, Hongwei
F24F 11/30	F24F 140/60	BEAN, John H., Jr
F24F 11/46	F25B 49/02	WANG, Jinhui
F24F 11/49	(11) EP2420750	APUHIN, Marlowe Dulaca
F24F 11/65	(21) EP11177765.2	HONG, Bo
F24F 11/80	(47) 03.05.2023	(51) F24H 1/20
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(21) EP18858050.0	(73) Lennox Industries Inc.	B65D 8/00
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(22) 12.09.2018	(33) United States of America	(22) 14.01.2019
(54) VRV OPERATIONAL STATUS	(51) F24F 13/02	(54) CLOSED WATER BOILER
CONTROL METHOD, SYSTEM AND	F24F 13/24	(73) Xiamen Aquasun Electric Shower Co., Ltd.
HEAT PUMP VRV	G10K 11/16	(72) HOU, Quanduo
(73) Gree Electric Appliances (Wuhan) Co.,	G10K 11/162	(31) 201811519143
Ltd.	(11) EP3511641	(32) 12.12.2018
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(72) JIAO, Huachao	(47) 03.05.2023	(51) F24H 7/00
XIONG, Jianguo	(22) 11.01.2019	F28D 20/00
ZHANG, Shiqiang	(54) ACOUSTIC DAMPING ELEMENT	F28F 21/02
WU, Lianfa	FOR A VENTILATION AND/OR AIR	F28F 21/04
ZHOU, Bing	CONDITIONING SYSTEM	F28F 9/02
HUANG, Zhiguang	(73) TROX GmbH	H05B 1/02
LI, Donghui	(72) Döring, Hans-Willi	(11) EP3641925
QIU, Bo	Roes, Stefan	(21) EP17914403.5
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F24F 11/86	F24F 1/00	OUTPUT SYSTEM
F24F 110/10	F24F 1/0007	(73) Kelvin Thermal Energy, Inc.
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F24F 140/20	F24F 1/0057	LYNCH, George
(11) EP3677850	(11) EP3604964	CROCKER, Adam
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CONDITIONER	Co., Ltd.	(73) Soltec Innovations, S.L.
(73) Haier Group Corporation	Midea Group Co., Ltd.	(72) Carpio Obre, Francisco Javier
Qingdao Haier Air Conditioner General	(72) YUN, Qian	Maldonado Nicolás, Juan José
Corp., Ltd.	HE, Tian	(51) F25B 1/00
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FU, Yu	DING, Penglei	G01M 3/22
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F28D 20/02	(73) Johnson Controls Tyco IP Holdings LLP	(51) F25D 23/02
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COMPRIASING A COMPRESSION	(32) 25.10.2018	(73) LG Electronics Inc.
MACHINE, AN ABSORPTION MACHINE	10.07.2018	(72) PARK, Myeongseong
AND A THERMAL STORAGE SYSTEM	(33) United States of America	KANG, Daekil
FOR COUPLING THEM	United States of America	KWON, Ohchul
(73) Commissariat à l'Energie Atomique et	(51) F25B 49/02	JUNG, Sangho
aux Energies Alternatives	F25B 5/02	LEE, Hyuncheol
(72) MONTZIEUX, Guillaume	F25B 7/00	(31) 20200111948
GARCIA, Pierre	F25B 25/00	20200073940
PHAN, Hai Trieu	F25B 9/00	(32) 02.09.2020
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(33) France	(47) 03.05.2023	Korea (Republic)
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(73) BEIJING BAIDU NETCOM SCIENCE	(32) 14.02.2017	SYSTEM
AND TECHNOLOGY CO., LTD.	(33) United States of America	(73) Whirlpool Corporation
(72) LUO, Zhiming	(51) F25D 17/06	(72) Ciniello, Pasquale
DUAN, Yiyi	F25C 5/20	El Sayed, Kamil
YI, Bin	(11) EP3470756	Gorzelanczyk, Marek
LI, Xiaozhong	(21) EP18210549.4	Grzyb, Piotr
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VOLMER, Rahel	(54) REFRIGERATOR	(22) 25.09.2019
FÜLDNER, Gerrit	(73) Samsung Electronics Co., Ltd.	(54) REFRIGERATOR HAVING DRAWER
WEISE, Jörg	(72) LEE, Chomin	(73) LG Electronics Inc.
(31) 102016215591	GU, Yangyeol	(72) PARK, CheolSoon
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(33) Germany	KIM, Byoungmok	(31) 20190084446
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F25B 1/00	PARK, Taecheol	(33) Korea (Republic)
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F25B 49/02	SONG, Jinyoung	(11) EP3757492
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PARK, Hyokeun	(51) F28D 7/16	
LEE, Jangseok	F25B 39/04	
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(73) Technip France	(73) Hamilton Sundstrand Corporation	
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HAGYARD, Philip	DWARI, Suman	
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(73) LASCO Heutechnik GmbH	(54) THERMAL BARRIER IN PARTICULAR FOR A BATTERY/BATTERIES PROVIDED THEREWITH	
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Oitner, Herbert	HUILLET, Cédric	
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	(72) CALDATO, Roberto	
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	TAKAHASHI, Masatoshi	
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	SEO, Kang Tae	
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	SHIMIZU, Tsutomu	
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	ZHANG, Weiwei	
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KRUPINSKI, Michal	ANDERSON, Jeffrey	H01S 3/00
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(72) NISHI, Ryohsuke	G01S 17/88	(47) 03.05.2023
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(51) G01B 11/25	G01S 17/10	COORDINATE-CORRECTIONS
G01B 9/08	G01S 17/42	(73) Aptiv Technologies Limited
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(51) G01C 21/14	GATHERING SYSTEM AND METHOD	H04N 7/18
G01C 22/00	(73) Aptiv Technologies Limited	B60K 35/00
G05D 1/02	(72) AGARWAL, Divya	B60K 37/02
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(54) APPARATUS AND METHOD FOR	United States of America	MOUNTED IN VEHICLE AND
ESTIMATING A PHYSICAL STATE OF A	(51) G01C 21/34	CONTROL METHOD THEREOF
MOVABLE OBJECT	G06N 3/08	(73) LG Electronics Inc.
(73) Fraunhofer-Gesellschaft zur Förderung	G06N 20/00	(72) JUN, Honggul
der angewandten Forschung e.V.	G06N 3/04	KIM, Sujin
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(32) 15.02.2018	USE FOR A ROUTE	United States of America
(33) European Patent Office (EPO)	(73) FUJITSU LIMITED	(51) G01C 21/36
(51) G01C 21/30	(72) KASIOMIS, Theodoros	G06K 9/00
G01C 21/16	INAKOSHI, Hiroya	G01C 21/34
G01S 19/49	HISATOMI, Makiko	(11) EP3708962
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AND SYSTEM	(72) KIM, Dohyoung	(33) Korea (Republic)
(73) Ratio LLC.	LIM, Yongjun	(51) G01C 21/36
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(21) EP21164332.5	G01C 21/34	BETWEEN ELECTRONIC DEVICES
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(54) DETERMINE TRAFFIC CHECKPOINT	G06K 9/00	LODOLO, Francesco
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(33) China	FOR DRIVING-ASSIST VEHICLE AND	G08G 5/02
(51) G01C 21/34	POSITION ERROR CORRECTION	B64D 45/08
B60W 30/00	DEVICE	G08G 5/00
G01C 21/36	(73) Nissan Motor Co., Ltd.	(11) EP3109597
G08G 1/0967	(72) FUKUSHIGE, Takashi	(21) EP16176192.9
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(32) 27.10.2017	Lang, Christoph	(73) ISHIDA CO., Ltd.
(33) Germany		(72) KISHIKAWA, Mikio
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G01N 9/00	G01G 21/22	ISHIYAMA, Kazuro
G01N 11/16	(11) EP3779377	MORIHARA, Toru
H01F 5/00	(21) EP20187423.7	NISHIMURA, Ryoji
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TEST	PAATERO, Esa-Kai	(72) ELLENBOGEN, Michael
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(73) UiPath, Inc.	(87) GB2018053433	REGULA, Kalyan
(72) RIPA, Bogdan	06.06.2019	WATTS, Blake
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(22) 02.09.2015	TONNERRE, Albin Pierrick	United States of America
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(22) 15.03.2018	(31) 201916578480	AND SYSTEM, ELECTRONIC DEVICE
(54) METHOD AND APPARATUS FOR	(32) 23.09.2019	AND MEDIUM
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(73) Huawei Technologies Co. Ltd.	(51) G06F 9/50	AND TECHNOLOGY CO., LTD.
(72) NI, Shaoji	H04N 21/84	(72) GUAN, Yu
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(51) H01L 31/0224 H01L 31/05 H01L 31/02 H01L 31/068 H01L 31/18 H01L 31/048 (11) EP3244454 (21) EP15876420.9 (47) 03.05.2023 (87) CN2015000347 14.07.2016 (22) 08.07.2015 (54) MAIN-GATE-FREE HIGH-EFFICIENCY BACK CONTACT SOLAR CELL AND ASSEMBLY AND PREPARATION PROCESS THEREOF (73) Jolywood(Suzhou) Sunwatt Co., Ltd (72) LIN, Jianwei	(51) H01L 31/042 H01L 31/048 H01L 31/02 H01L 31/054 B32B 37/26 (11) EP3391420 (21) EP16823037.3 (47) 03.05.2023 (87) IB2016001761 22.06.2017	(51) H01L 33/64 H01L 23/00 H01L 33/62 (11) EP3675190 (21) EP19217826.7 (47) 03.05.2023 (22) 19.12.2019 (54) METHOD OF MANUFACTURING LIGHT SOURCE DEVICE AND LIGHT SOURCE DEVICE (73) Nichia Corporation (72) MATSUMOTO, Takashi HARADA, Naoki SAEGUSA, Fukutaro KAGEYAMA, Yoshiyuki (31) 2019110484 2018240933 (32) 13.06.2019 25.12.2018 (33) Japan

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(51) H01L 49/02	(73) Hodogaya Chemical Co., Ltd.	(11) EP4030498
H01L 23/522	(72) KASE Kouki	(21) EP21218170.5
(11) EP3493284	YAMAMOTO Takeshi	(47) 03.05.2023
(21) EP18197442.9	SURUGA Kazuyuki	(22) 29.12.2021
(47) 03.05.2023	MOCHIZUKI Shunji	(54) GRAPHITE-BASED NEGATIVE ELECTRODE ACTIVE MATERIAL
(22) 28.09.2018	HAYASHI Shuichi	(73) Prime Planet Energy & Solutions, Inc.
(54) SHIELDED MOM CAPACITOR	(31) 2017244969	(72) MATSUHARA, Shinsuke
(73) MEDIATEK INC.	(32) 21.12.2017	ARAKI, Yusuke
(72) CHEN, Shi-Bai	(33) Japan	OYAMA, Yutaka
(31) 201816129751	(51) H01L 51/54	NAKANO, Kiyohiko
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(32) 12.09.2018	(21) EP19730764.8	(31) 2021004194
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(33) United States of America	(87) EP2019065561	(33) Japan
United States of America	19.12.2019	(51) H01M 4/13
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B32B 17/06	(54) ORGANIC MATERIAL FOR AN ELECTRONIC OPTOELECTRONIC DEVICE AND ELECTRONIC DEVICE COMPRISING THE ORGANIC MATERIAL	H01M 4/139
H01L 23/10	(73) Novald GmbH	H01M 4/04
C09K 11/08	(72) GALAN, Elena	H01M 50/20
C03C 27/08	SCHULZE, Benjamin	H01M 10/052
C04B 37/04	(31) 18177827	H01M 4/02
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(22) 30.08.2016	(47) 03.05.2023	(22) 27.04.2018
(54) DEVICES COMPRISING TRANSPARENT SEALS AND METHODS FOR MAKING THE SAME	(22) 31.03.2020	(54) CATHODE, SECONDARY BATTERY COMPRISING SAME, AND METHOD FOR MANUFACTURING SAME
(73) Corning Incorporated	(54) LIGHT EMITTING DEVICE AND DISPLAY DEVICE INCLUDING THE SAME	(73) LG Energy Solution, Ltd.
(72) DEJNEKA, Matthew John	(73) Samsung Display Co., Ltd.	(72) KOO, Chang Wan
DUTTA, Indrajit	(72) PARK, Kyoungwon	CHOY, Sang Hoon
KOVAL, Shari Elizabeth	NAM, Minki	(31) 20170055638
LOGUNOV, Stephan Lvovich	DOH, Hyunmi	(32) 28.04.2017
QUESADA, Mark Alejandro	KIM, Sungwoon	(33) Korea (Republic)
(31) 201562214275 P	PARK, Jae Hong	(51) H01M 4/131
(32) 04.09.2015	JUNG, Yunku	H01M 10/0525
(33) United States of America	(31) 20190043085	H01M 10/058
(51) H01L 51/52	(32) 12.04.2019	H01M 50/134
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(11) EP2744012	(51) H01L 51/56	H01M 4/02
(21) EP13196859.6	H01L 51/52	H01M 10/0587
(47) 03.05.2023	H01L 27/32	(11) EP3951977
(22) 12.12.2013	(11) EP2744011	(21) EP20886002.3
(54) Array Substrate, Method for Manufacturing the same, and Display Device	(21) EP13196858.8	(47) 03.05.2023
(73) BOE Technology Group Co., Ltd.	(47) 03.05.2023	(87) CN2020124951
(72) Song, Youngsuk	(22) 12.12.2013	14.05.2021
Yoo, Seongyeol	(54) Method for manufacturing an array substrate	(22) 29.10.2020
Choi, Seungjin	(73) BOE Technology Group Co., Ltd.	(54) SECONDARY BATTERY, AND BATTERY MODULE, BATTERY PACK AND DEVICE CONTAINING SAME
Kim, Heecheol	(72) Song, Youngsuk	(73) Contemporary Amperex Technology Co., Limited
(31) 201210537754	Yoo, Seongyeol	(72) WANG, Guangjun
(32) 12.12.2012	Choi, Seungjin	ZHANG, Chenchen
(33) China	Kim, Heecheol	LUO, Dongsheng
(51) H01L 51/52	(31) 201210537767	LAN, Yueying
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H01M 4/1391	H01M 10/24	KIM, Jong Pil
H01M 4/04	H01M 50/417	(31) 20190085364
H01M 10/0525	H01M 50/423	(32) 15.07.2019
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(11) EP3660958	H01M 50/451	(51) H01M 4/38
(21) EP18881262.2	H01M 50/449	H01M 4/525
(47) 03.05.2023	(11) EP4016672	H01M 10/0562
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(22) 21.11.2018	(22) 15.12.2021	(11) EP3595057
(54) ANODE FOR LITHIUM SECONDARY BATTERY AND METHOD FOR MANUFACTURING SAME	(54) SEPARATOR FOR ZINC SECONDARY BATTERY	(21) EP19193255.7
(73) LG Energy Solution, Ltd.	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(47) 03.05.2023
(72) HONG, Yeon Suk	(72) SUYAMA, Hiroshi	(22) 20.11.2015
KIM, Seok Koo	(31) 2020211224	(54) STABILIZED SOLID GARNET ELECTROLYTE AND METHODS THEREOF
KIM, Sun Kyu	(32) 21.12.2020	(73) Corning Incorporated
MIN, Ji Won	(33) Japan	(72) BADDING, Michael Edward
(31) 20170155496	(51) H01M 4/36	LIU, Xinyuan
(32) 21.11.2017	H01M 4/58	LU, Yanxia Ann
(33) Korea (Republic)	H01M 4/62	(31) 201462084907 P
(51) H01M 4/134	H01M 10/0525	(32) 26.11.2014
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(47) 03.05.2023	(54) POSITIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERY, POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERY, AND LITHIUM ION SECONDARY BATTERY	(87) CN2020108687
(87) KR2020000527	(73) Sumitomo Metal Mining Co., Ltd.	25.02.2021
16.07.2020	(72) NOZOE, Tsutomu	(22) 12.08.2020
(22) 10.01.2020	NAKANO, Toyomasa	(54) SECONDARY BATTERY, BATTERY MODULE RELATED THERETO, BATTERY PACK, AND APPARATUS
(54) LITHIUM ELECTRODE AND LITHIUM SECONDARY BATTERY COMPRISING SAME	(31) 2020060219	(73) Contemporary Amperex Technology Co., Limited
(73) LG Energy Solution, Ltd.	(32) 30.03.2020	(72) LIANG, Chengdu
(72) YOUN, Suk Il	(33) Japan	CHEN, Peipei
SON, Byoungkuk	(51) H01M 4/36	FU, Chenghua
CHOI, Junghun	H01M 4/62	PENG, Chang
JANG, Minchul	H01M 4/525	(31) 201910777649
(31) 20190003695	H01M 4/505	(32) 22.08.2019
(32) 11.01.2019	H01M 10/052	(33) China
(33) Korea (Republic)	H01M 10/052	(51) H01M 4/525
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H01M 4/62	H01M 4/131	H01M 10/0562
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(11) EP3271958	(11) EP3944370	(21) EP11866327.7
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(22) 17.03.2016	(22) 14.07.2020	(54) USE OF A POSITIVE ELECTRODE MATERIAL FOR A SULFIDE-BASED SOLID ELECTROLYTE BATTERY AND SULFIDE-BASED SOLID ELECTROLYTE BATTERY WITH SUCH POSITIVE ELECTRODE MATERIAL
(54) ANODE MATERIALS FOR LITHIUM ION BATTERIES AND METHODS OF MAKING AND USING SAME	(54) POSITIVE ELECTRODE MATERIAL, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY WHICH INCLUDE THE SAME	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(73) Johnson Matthey Public Limited Company	(73) LG CHEM, LTD.	(72) UCHIYAMA, Takayuki
(72) MA, Xiaohua	(72) LIM, Jung Ho	(51) H01M 4/62
CHEVRIER, Vincent, J.	PARK, Hang Ah	C08L 101/00
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(32) 19.03.2015		
(33) United States of America		

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(11) EP3396748	(73) Samsung SDI Co., Ltd.	H01M 50/572
(21) EP16878544.2	(72) LEE, Dong Hyun	H01M 10/052
(47) 03.05.2023	KIM, Hyung Sik	H01M 50/463
(87) JP2016087441	KIM, Kwang Soo	(11) EP3333940
29.06.2017	(31) 20170023768	(21) EP17834707.6
(22) 15.12.2016	(32) 22.02.2017	(47) 03.05.2023
(54) BINDER COMPOSITION FOR NON- AQUEOUS SECONDARY BATTERY	(33) Korea (Republic)	(87) KR2017007886
ELECTRODE, SLURRY COMPOSITION	(51) H01M 8/02	01.02.2018
FOR NON-AQUEOUS SECONDARY	H01M 4/86	(22) 21.07.2017
BATTERY ELECTRODE, ELECTRODE	H01M 4/88	(54) SECONDARY BATTERY
FOR NON-AQUEOUS SECONDARY	H01M 8/12	(73) LG Energy Solution, Ltd.
BATTERY, AND NON-AQUEOUS	H01M 8/0232	(72) LIM, Seong Yoon
SECONDARY BATTERY	H01M 8/0258	CHOI, Mi Geum
(73) Zeon Corporation	H01M 8/1226	(31) 20160096316
(72) SONOBE, Kenya	H01M 8/1253	(32) 28.07.2016
WAKIZAKA, Yasuhiro	H01M 4/90	(33) Korea (Republic)
(31) 2015252400	H01M 8/124	(51) H01M 10/052
(32) 24.12.2015	(11) EP3196966	H01M 50/409
(33) Japan	(21) EP15842051.3	H01M 50/403
(51) H01M 4/62	(47) 03.05.2023	H01M 50/423
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(21) EP19763159.1	FOR PRODUCING THE SAME	(21) EP20810593.2
(47) 03.05.2023	(73) Osaka Gas Co., Ltd.	(47) 03.05.2023
(87) JP2019007612	(72) ECHIGO, Mitsuaki	(87) JP2020019542
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(22) 27.02.2019	MANABE, Kyohei	(22) 15.05.2020
(54) BINDER COMPOSITION FOR NON- AQUEOUS SECONDARY BATTERY,	YAMAZAKI, Osamu	(54) SEPARATOR FOR NON-AQUEOUS
SLURRY COMPOSITION FOR NON- AQUEOUS SECONDARY BATTERY	MINAMI, Kazuyuki	SECONDARY BATTERY, METHOD
FUNCTIONAL LAYER, FUNCTIONAL	TSUDA, Yuji	FOR PRODUCING SAME, AND NON- AQUEOUS SECONDARY BATTERY
LAYER FOR NON-AQUEOUS	(31) 2014192029	(73) Teijin Limited
SECONDARY BATTERY, BATTERY	(32) 19.09.2014	(72) OKAZAKI, Masato
MEMBER FOR NON-AQUEOUS	(33) Japan	SATO, Megumi
SECONDARY BATTERY, AND NON- AQUEOUS SECONDARY BATTERY	(51) H01M 8/10	NISHIKAWA, Satoshi
(73) Zeon Corporation	H01M 8/18	(31) 2019093572
(72) AKABANE Tetsuya	H01M 8/1041	(32) 17.05.2019
KIDOKORO Hiroto	H01M 8/1067	(33) Japan
(31) 2018040486	C25B 9/23	(51) H01M 10/0525
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(33) Japan	H01M 8/0236	(11) EP3607601
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H01M 50/176	(22) 07.04.2016	USES THEREOF AS A BATTERY
H01M 50/538	(54) POLYMER ELECTROLYTE	ELECTROLYTE
H01M 50/186	MEMBRANE, ELECTROCHEMICAL	(73) Arkema France
H01M 50/191	CELL AND FLOW CELL	(72) SCHMIDT, Grégory
H01M 50/528	COMPRISING SAME, METHOD	(31) 1752915
H01M 50/55	FOR MANUFACTURING POLYMER	(32) 04.04.2017
(11) EP3588621	ELECTROLYTE MEMBRANE, AND	(33) France
(21) EP18758276.2	FLOW CELL ELECTROLYTE	(51) H01M 10/056
(47) 03.05.2023	(73) LG Chem, Ltd.	(11) EP3719909
(87) KR2018001616	(72) LEE, Jeongbae	(21) EP20166619.5
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(22) 06.02.2018	JEONG, Bong Hyun	(22) 30.03.2020
	MIN, Geungi	(54) METHOD AND SYSTEM FOR IN-SILICO
	MOON, Sikwon	OPTIMIZATION AND DESIGN OF
	BYUN, Sujin	ELECTROLYTES
	(31) 20150049570	

(73) Tata Consultancy Services Limited	H01M 4/525	19.09.2018
(72) Ravikumar, Bharath	H01M 4/505	(33) Korea (Republic)
RAI, Beena	H01M 4/38	Korea (Republic)
MYNAM, Mahesh	H01M 4/485	(51) H01M 10/42
Repaka, Sravani	H01M 4/58	H01M 10/48
Kumar, Surbhikumari Ashutosh	H01M 10/0567	H05K 1/00
(31) 201921013835	H01M 4/36	H05K 1/02
(32) 05.04.2019	H01M 10/0525	B60L 1/00
(33) India	H01M 10/0569	H01M 4/66
(51) H01M 10/056	(11) EP3712993	H02H 7/18
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(47) 03.05.2023	(87) KR2019005632	H01M 10/058
(22) 07.07.2020	14.11.2019	H01M 50/209
(54) LITHIUM ION BATTERY AND	(22) 10.05.2019	H01M 50/264
RELEVANT BATTERY MODULE,	(54) LITHIUM SECONDARY BATTERY	H01M 50/271
BATTERY PACK AND APPARATUS	(73) LG Energy Solution, Ltd.	H01M 50/287
(73) Contemporary Amperex Technology Co.,	(72) SHIN, Won Kyung	H01M 50/291
Limited	AHN, Kyoung Ho	H01M 50/50
(72) LIANG, Chengdu	LEE, Chul Haeng	H01M 50/569
ZHANG, Cuiping	OH, Jeong Woo	H01M 50/583
ZHANG, Ming	KIM, Min Jung	H01M 50/367
CHEN, Peipei	(31) 20180054549	H01M 50/507
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LI, Liye	(33) Korea (Republic)	(21) EP19169444.7
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(33) China	H01M 10/0525	(54) BATTERY MODULE COMPRISING
(51) H01M 10/0562	C07D 473/12	A MULTI-LAYER PRINTED CIRCUIT
H01M 4/04	H01M 4/58	BOARD
H01M 4/139	H01M 4/587	(73) CPS Technology Holdings LLC
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(11) EP3893309	(21) EP20831466.6	MACK, Robert J.
(21) EP21175302.5	(47) 03.05.2023	HOUCHEIN-MILLER, Gary P.
(47) 03.05.2023	(87) JP2020025384	CASH, Stephen D.
(22) 20.03.2019	30.12.2020	WINDERS, Lisa L.
(54) SOLID ELECTROLYTE MATERIAL FOR	(22) 26.06.2020	JOHNSON, Jack L.
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CELL	SOLUTION AND NON-AQUEOUS	201361874472 P
(73) Bayerische Motoren Werke	SECONDARY BATTERY	(32) 31.03.2014
Aktiengesellschaft	(73) Asahi Kasei Kabushiki Kaisha	06.09.2013
(72) Woehrle, Thomas	(72) SHOJI, Kosuke	(33) United States of America
(31) 102018205483	MATSUOKA, Naoki	United States of America
(32) 11.04.2018	(31) 2020100869	(51) H01M 10/653
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(47) 03.05.2023	H01M 10/44	(22) 11.05.2020
(87) KR2018010013	G01N 21/65	(54) BATTERY MODULE, METHOD FOR
21.03.2019	H01M 10/48	PREPARING THE SAME AND BATTERY
(22) 29.08.2018	(11) EP3706234	PACK INCLUDING THE SAME
(54) NONAQUEOUS ELECTROLYTE	(21) EP19862453.8	(73) LG Energy Solution, Ltd.
SOLUTION AND LITHIUM SECONDARY	(47) 03.05.2023	(72) KIM, Gwan Woo
BATTERY INCLUDING THE SAME	(87) KR2019012090	BAEK, Seung Ryul
(73) LG Energy Solution, Ltd.	26.03.2020	SEONG, Junyeob
(72) PARK, Ji Hye	(22) 18.09.2019	(31) 20200011329
OH, Song Taek	(54) ACTIVE MATERIAL ANALYSIS	20190069230
(31) 20180101413	APPARATUS	(32) 30.01.2020
20170118694	(73) LG CHEM, LTD.	12.06.2019
(32) 28.08.2018	(72) JUNG, Yeon Wook	(33) Korea (Republic)
15.09.2017	OH, Sung Joon	Korea (Republic)
(33) Korea (Republic)	(31) 20190114218	(51) H01M 50/103
Korea (Republic)	20180111967	H01M 50/105
(51) H01M 10/0568	(32) 17.09.2019	H01M 50/176



H01M 50/178	H01M 10/6568	H01M 50/588
H01M 50/186	H01M 10/6569	H01M 50/59
H01M 50/193	H01M 50/204	H01R 11/28
H01M 50/528	H01M 50/233	H01R 4/30
H01M 50/531	H01M 50/383	(11) EP3940881
H01M 50/547	(11) EP3913730	(21) EP21179770.9
H01M 50/557	(21) EP20868089.2	(47) 03.05.2023
H01M 50/571	(47) 03.05.2023	(22) 16.06.2021
H01M 50/536	(87) CN2020107815	(54) BATTERY TERMINAL
(11) EP4009422	01.04.2021	(73) Yazaki Corporation
(21) EP21211807.9	(22) 07.08.2020	(72) ITAGAKI, Tatsumasa
(47) 03.05.2023	(54) BATTERY PACK AND VEHICLE, FOR	SAKAGUCHI, Tadahisa
(22) 01.12.2021	ALLEVIATING THERMAL RUNAWAY OF	KATO, Takayuki
(54) LAMINATED BATTERY	BATTERY PACK	(31) 2020121521
(73) Prime Planet Energy & Solutions, Inc.	(73) Contemporary Amperex Technology Co.,	(32) 15.07.2020
(72) NAKASHIMA, Satoshi	Limited	(33) Japan
(31) 2020201242	(72) HUANG, Xiaoteng	(51) H01P 1/20
(32) 03.12.2020	HONG, Jiarong	(11) EP3662533
(33) Japan	WANG, Wenli	(21) EP18840423.0
(51) H01M 50/126	(31) 201910914674	(47) 03.05.2023
H01M 50/119	(32) 26.09.2019	(87) US2018044480
H01M 50/121	(33) China	07.02.2019
H01M 50/129	(51) H01M 50/202	(22) 31.07.2018
H01M 50/131	H01M 50/244	(54) TRANSMISSION LINE BIAS RESISTOR
H01M 50/133	H01M 50/262	(73) KYOCERA AVX Components
H01M 50/124	H01R 13/639	Corporation
(11) EP3605642	H01R 13/627	(72) KORONY, George
(21) EP18771595.8	H01M 6/50	(31) 201762540366 P
(47) 03.05.2023	H01M 10/615	(32) 02.08.2017
(87) JP2018011020	H01R 13/74	(33) United States of America
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(22) 20.03.2018	(21) EP19205288.4	H04B 1/44
(54) PACKAGING MATERIAL FOR	(47) 03.05.2023	H01P 1/38
BATTERIES, METHOD FOR	(22) 25.10.2019	H04B 1/7163
PRODUCING SAME, POLYBUTYLENE	(54) BATTERY PRODUCT AND	H01P 1/36
TEREPHTHALATE FILM FOR	ASSEMBLING METHOD THEREOF	(11) EP3455901
PACKAGING MATERIAL FOR	(73) Contemporary Amperex Technology Co.,	(21) EP17737198.6
BATTERIES, AND BATTERY	Limited	(47) 03.05.2023
(73) Dai Nippon Printing Co., Ltd.	(72) LI, Jianwei	(87) US2017031800
(72) HIRAKI, Kenta	CHAN, Libing	16.11.2017
TAKAHAGI, Atsuko	ZHOU, Linggang	(22) 09.05.2017
YAMASHITA, Rikiya	WENG, Zhiqin	(54) ULTRA-WIDE BAND CIRCULATORS
(31) 2017054096	Ruan, Shengshen	WITH SEQUENTIALLY-SWITCHED
(32) 21.03.2017	WANG, Peng	DELAY LINE (SSDL)
(33) Japan	(31) 201821875762 U	(73) The Regents of the University of
(51) H01M 50/176	(32) 14.11.2018	California
H01M 50/531	(33) China	(72) WANG, Yuanxun Ethan
H01M 50/583	(51) H01M 50/213	(31) 201662439119 P
(11) EP3544078	H01M 50/24	201662334562 P
(21) EP19163331.2	H01M 50/244	(32) 26.12.2016
(47) 03.05.2023	H01M 50/258	11.05.2016
(22) 18.03.2019	H01M 50/50	(33) United States of America
(54) SECONDARY BATTERY	(11) EP3748722	United States of America
(73) Samsung SDI Co., Ltd.	(21) EP19882604.2	(51) H01Q 1/22
(72) Lee, Hyun Soo	(47) 03.05.2023	G06K 7/10
Byun, Sang Won	(87) KR2019013789	(11) EP3544114
(31) 20180032808	14.05.2020	(21) EP18290021.7
(32) 21.03.2018	(22) 18.10.2019	(47) 03.05.2023
(33) Korea (Republic)	(54) BATTERY PACK COMPRISING	(22) 20.03.2018
(51) H01M 50/20	MOUNTING STRUCTURE	(54) RESONANT RADIO FREQUENCY
H01M 10/613	(73) LG Energy Solution, Ltd.	CONNECTION VERIFICATION SYSTEM
A62C 3/07	(72) YANG, Jin-Oh	(73) A. Raymond et CIE-SCS
A62C 3/16	YANG, Kun-Joo	(72) Fräulin, Christian
H01M 10/42	YOON, Seog-Jin	Grether, Urs
H01M 50/342	(31) 20180134724	MBAYE, Mansour
A62C 35/02	(32) 05.11.2018	(51) H01Q 1/22
A62C 37/12	(33) Korea (Republic)	H01Q 1/36
H01M 10/625	(51) H01M 50/503	H01Q 7/00

H01Q 9/26	(73) TELEFONAKTIEBOLAGET LM	Devito, Brian D.
H02J 50/12	ERICSSON (PUBL)	Christiano, William A.
H02J 50/40	(72) ROTTMOSER, Franz	Richards, James D.
H04B 5/00	STAITA, Christoph	(31) 201715787746
H02J 50/00	(31) 102018130570	(32) 19.10.2017
(11) EP3826104	(32) 30.11.2018	(33) United States of America
(21) EP21152092.9	(33) Germany	(51) H01Q 1/28
(47) 03.05.2023	(51) H01Q 1/24	H01Q 1/38
(22) 22.09.2015	H01Q 5/48	(11) EP3442078
(54) ANTENNA DESIGNS FOR	H01Q 5/364	(21) EP18186238.4
COMMUNICATION BETWEEN A	H01Q 9/16	(47) 03.05.2023
WIRELESSLY POWERED IMPLANT TO	H01Q 21/00	(22) 30.07.2018
AN EXTERNAL DEVICE OUTSIDE THE	H01Q 21/06	(54) STRUCTURAL MULTILAYER ANTENNA
BODY	H01Q 21/26	DESIGN AND FABRICATION
(73) TC1 LLC	H01Q 21/30	(73) The Boeing Company
(72) HEPPELL, Kevin, Gerald	H01Q 19/24	(72) URCIA, Manny S.
(31) 201462053663 P	H01Q 21/28	NIEDERSCHULTE, Andrew S.
(32) 22.09.2014	H01Q 25/00	ADAMS, Alec
(33) United States of America	H01Q 19/10	CAI, Lixin
(51) H01Q 1/24	(11) EP3619770	LUCHINI, Timothy J.
H01Q 1/44	(21) EP18794344.4	SCHELL, Justin J.
H01Q 1/52	(47) 03.05.2023	(31) 201715671796
H01Q 5/335	(87) US2018018661	(32) 08.08.2017
H01Q 9/42	08.11.2018	(33) United States of America
H01Q 21/28	(22) 20.02.2018	(51) H01Q 1/36
(11) EP3618181	(54) MULTI-BAND BASE STATION	H01Q 1/28
(21) EP19192550.2	ANTENNAS HAVING CROSSED-	H01Q 3/01
(47) 03.05.2023	DIPOLE RADIATING ELEMENTS	(11) EP3694049
(22) 20.08.2019	(73) Commscope Technologies LLC	(21) EP20166624.5
(54) ANTENNA SYSTEM AND TERMINAL	(72) VARNOOSFADERANI, Mohammad	(47) 03.05.2023
(73) Beijing Xiaomi Mobile Software Co., Ltd.	Vatankhah	(22) 08.02.2017
(72) LIU, Jiarong	HU, Zhonghao	(54) STRUCTURALLY RECONFIGURABLE
LU, Han	ISIK, Ozgur	ANTENNA
(31) 201811014066	(31) 201762500607 P	(73) The Boeing Company
(32) 31.08.2018	(32) 03.05.2017	(72) URCIA JR, Manny S.
(33) China	(33) United States of America	ADAMS, Alec
(51) H01Q 1/24	(51) H01Q 1/24	WHITE, Edward V.
H01Q 1/52	H01Q 13/10	(31) 201615342094
H01Q 21/24	H01Q 21/26	201615043826
H01Q 21/28	(11) EP3329545	(32) 02.11.2016
H01Q 9/04	(21) EP16759682.4	15.02.2016
H01Q 1/38	(47) 03.05.2023	(33) United States of America
(11) EP3460906	(87) EP2016001472	United States of America
(21) EP17306224.1	09.03.2017	(51) H01Q 1/52
(47) 03.05.2023	(22) 31.08.2016	H01Q 21/28
(22) 20.09.2017	(54) DUAL-POLARIZED ANTENNA	H01Q 5/40
(54) WIRELESS TELECOMMUNICATION	(73) Telefonaktiebolaget LM Ericsson (PUBL)	H01Q 1/36
NETWORK ANTENNA	(72) VOLLMER, Andreas	(11) EP3916912
(73) Alcatel-Lucent Shanghai Bell Co., Ltd.	STOLLE, Manfred	(21) EP21175156.5
(72) HAREL, Jean-Pierre	(31) 102015011426	(47) 03.05.2023
CHARAABI, Zied	(32) 01.09.2015	(22) 21.05.2021
(51) H01Q 1/24	(33) Germany	(54) ANTENNA DESIGN ON PRINTED
H01Q 3/32	(51) H01Q 1/27	CIRCUIT BOARD
H01Q 5/20	H01Q 1/48	(73) Arcadyan Technology Corporation
H01P 1/18	H01Q 9/04	(72) CHENG, Shih-Chieh
H01P 1/213	H01Q 9/30	KUO, Shin-Lung
H01Q 1/42	H01Q 21/30	(31) 109117384
H01Q 21/08	H01Q 5/307	(32) 25.05.2020
(11) EP3888181	(11) EP3474372	(33) Taiwan, Chinese Taipei
(21) EP19813786.1	(21) EP18201207.0	(51) H01Q 7/00
(47) 03.05.2023	(47) 03.05.2023	H01Q 1/24
(87) EP2019083185	(22) 18.10.2018	H01Q 5/378
04.06.2020	(54) ANTENNA FOR WEARABLE RADIO	H01Q 5/321
(22) 29.11.2019	SYSTEM AND ASSOCIATED METHOD	H01Q 1/48
(54) MOBILE RADIO ANTENNA FOR	OF MAKING	H01Q 9/42
CONNECTION TO AT LEAST ONE	(73) Harris Global Communications, Inc.	(11) EP3474375
MOBILE BASE STATION	(72) Packer, Malcom J.	(21) EP18181518.4
	Majkowski, Joseph D.	(47) 03.05.2023

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(54) ANTENNA AND MOBILE TERMINAL	(54) CONTACT ELEMENT HAVING A	H01R 13/635
(73) Huawei Device Co., Ltd.	CONTACT BODY AND A SPRING	H01R 24/38
(72) WANG, Hanyang	ELEMENT ARRANGED THEREON	(11) EP3533114
LEE, Chien-Ming	(73) Phoenix Contact GmbH & Co. KG	(21) EP17865226.9
(51) H01Q 9/04	(72) NEHM, Detlef	(47) 03.05.2023
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H01Q 1/48	(32) 16.03.2018	03.05.2018
H01Q 9/14	(33) Belgium	(22) 23.10.2017
H01Q 9/42	(51) H01R 9/05	(54) ASSEMBLIES AND METHODS
(11) EP3785324	H01R 43/24	FOR DETACHABLY SECURING AN
(21) EP19716507.9	H01R 13/52	ELECTRICAL DEVICE TO A SUPPORT
(47) 03.05.2023	H01R 13/58	SURFACE
(87) GB2019050895	B29C 45/14	(73) Q6 IP Pty Ltd
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(22) 28.03.2019	(11) EP3540859	(31) 2016904333
(54) TECHNIQUE FOR TUNING THE	(21) EP19162380.0	(32) 25.10.2016
RESONANCE FREQUENCY OF AN	(47) 03.05.2023	(33) Australia
ELECTRIC-BASED ANTENNA	(22) 12.03.2019	(51) H01R 13/631
(73) Airspan IP Holdco LLC	(54) ELECTRICAL CONNECTION	(11) EP3796481
(72) RABAH, Hassanein Daniel	ASSEMBLY WITH ELECTRICAL	(21) EP20196955.7
(31) 201806844	CONNECTOR MOUNTED	(47) 03.05.2023
(32) 26.04.2018	AND OVERMOULDED ON AN	(22) 18.09.2020
(33) United Kingdom	ELECTRICAL CABLE, ASSOCIATED	(54) CONNECTOR WITH PLAY
(51) H01Q 13/16	MANUFACTURING METHOD	COMPENSATION, CONNECTION
H01Q 15/00	(73) RAYDIALL	DEVICE, AND ASSEMBLY
(11) EP3780278	(72) ANNEQUIN, Sébastien	COMPRISING SUCH A DEVICE
(21) EP19793197.5	BRUNET, Adrien	(73) AXON CABLE
(47) 03.05.2023	(31) 1852294	(72) AUVRAY, Marc
(87) JP2019014856	(32) 16.03.2018	LOGETTE, Julien
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(22) 03.04.2019	(51) H01R 13/03	(32) 20.09.2019
(54) CONDUCTOR, ANTENNA, AND	C23F 15/00	(33) France
COMMUNICATION DEVICE	C25D 5/10	(51) H01R 13/639
(73) Japan Aviation Electronics Industry, Ltd.	C25D 5/12	H01R 13/187
(72) HANKUI Eiji	C25D 7/00	(11) EP3248247
TOYAO Hiroshi	H01B 7/00	(21) EP16703271.3
KOSAKA Keishi	H01B 7/28	(47) 03.05.2023
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(32) 27.04.2018	H01R 4/62	28.07.2016
(33) Japan	C25D 5/50	(22) 20.01.2016
(51) H01Q 17/00	C25D 5/34	(54) CONNECTOR EQUIPPED WITH A
G10K 11/16	C25D 3/60	LOCKING PART AND METHOD OF
(11) EP3595087	C25D 3/30	IMPLEMENTING THE CONNECTOR
(21) EP18763065.2	C25D 3/12	(73) Safran Electrical Components UK Limited
(47) 03.05.2023	(11) EP3595094	(72) COMBEROUSSE, Matthieu
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(22) 07.03.2018	(87) JP2018008591	(33) United States of America
(54) META-STRUCTURE HAVING COMPLEX	13.09.2018	(51) H01R 13/645
PROPERTIES AND APPARATUS	(22) 06.03.2018	H01R 13/625
USING SAME	(54) CORROSION-RESISTANT TERMINAL	(11) EP3264536
(73) Center for Advanced Meta-Materials	MATERIAL, CORROSION-RESISTANT	(21) EP17176771.8
(72) KANG, Boyoung	TERMINAL, AND WIRE END	(47) 03.05.2023
LEE, Hak Joo	STRUCTURE	(22) 20.06.2017
KIM, Duckjong	(73) Mitsubishi Materials Corporation	(54) LOCKING FASTENING DEVICE FOR
KIM, Jae-Hyun	(72) KUBOTA, Kenji	AXIAL COUPLINGS IN TWO-PART
(31) 20170028921	TARUTANI, Yoshie	ELECTRICAL CONNECTORS
(32) 07.03.2017	NAKAYA, Kiyotaka	(73) Amphenol - Air LB
(33) Korea (Republic)	(31) 2017042714	(72) CAPUCCI, Matthieu
(51) H01R 4/48	2017042713	WANSCHHOOR, Anthony
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(22) 19.02.2015	(32) 05.03.2019	(72) HANSSON, Stefan
(54) CONTACT ELEMENT COMPRISING A LOOPED SPRING PORTION	(33) Belgium	
(73) TE Connectivity Germany GmbH	(51) H01S 5/00	(51) H02H 1/00
TE Connectivity Corporation	H01S 5/0683	G01R 31/08
(72) LISTING, Martin	H01S 5/40	H02M 1/32
RHEIN, David, James	H01L 31/0216	H02H 1/04
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(33) United States of America	G02B 27/01	(21) EP19716815.6
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(47) 03.05.2023	H01S 5/02326	(54) METHOD FOR DETECTING AN ARC
(87) ES2017070221	H01S 5/02345	(73) Siemens Energy Global GmbH & Co. KG
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(22) 10.04.2017	(11) EP3931919	SCHREMMER, Frank
(54) MODULE FOR A SLIDABLE ELECTRICAL OUTLET	(21) EP20709451.7	JÄNICKE, Lutz-Rüdiger
(73) Fabricacion De Material Electrico, S.A.	(47) 03.05.2023	
(72) LATRE NAVARRO, Carlos Jose	(87) US2020017572	(51) H02H 1/04
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(32) 12.04.2016	(22) 11.02.2020	H02H 3/04
(33) Spain	(54) PHOTO-SENSING REFLECTORS FOR COMPACT DISPLAY MODULE ASSEMBLY	H02H 3/05
(51) H01R 27/02	(73) Microsoft Technology Licensing, LLC	(11) EP3830920
H01R 12/71	(72) PRICE, Raymond Kirk	(21) EP19779959.6
B60R 16/02	ULANCH, Rachel N.	(47) 03.05.2023
B60K 35/00	MILLER, Joshua Owen	(87) IB2019056527
B60R 11/00	(31) 201916289408	06.02.2020
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(11) EP3780296	(51) H01S 5/40	(73) ABB Schweiz AG
(21) EP19785905.1	(11) EP3687011	(72) SUDHEER, B
(47) 03.05.2023	(21) EP20153020.1	K, Ketan
(87) CN2019078512	(47) 03.05.2023	AHMED, M
17.10.2019	(22) 22.01.2020	KUNAL, K
(22) 18.03.2019	(54) LIGHT EMITTING DEVICE	(31) 201841028750
(54) DISPLAY TERMINAL FOR VEHICLE AND VEHICLE	(73) Nichia Corporation	(32) 31.07.2018
(73) BYD Company Limited	(72) MIURA, Soichiro	(33) India
(72) SU, Kai	OKUNO, Ryota	(51) H02H 3/087
ZHANG, Xiangyang	(31) 2019008494	H02H 1/04
WANG, Ding	(32) 22.01.2019	H02H 9/00
PENG, Li	(33) Japan	(11) EP3281266
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(33) China	(11) EP3631922	(22) 18.03.2016
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(51) H01R 43/045	(47) 03.05.2023	(73) ABB Schweiz AG
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(47) 03.05.2023	(22) 23.05.2018	(31) 102015105476
(87) EP2020055447	(54) CURRENT DISTRIBUTOR	(32) 10.04.2015
10.09.2020	(73) Militello, Carmelo	(33) Germany
(22) 02.03.2020	(72) Militello, Carmelo	
(54) MAGAZINE FOR PROCESSING WIRE END FERRULES AND HAND TOOL FOR PRESSING WIRE END FERRULES	(31) 102017111245	(51) H02H 7/06
(73) Phoenix Contact GmbH & Co. KG	(32) 23.05.2017	H02K 7/18
(72) KORSMEIER, Jonas	(33) Germany	H02K 11/00
FRISCHEMEIER, Jens	(51) H02G 1/08	H02K 17/24
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(22) 16.03.2021	(11) EP3596794	
(54) AN ELECTRICAL GENERATOR AND METHOD OF OPERATING THE SAME	(21) EP18715387.9	
(73) GENERAL ELECTRIC COMPANY	(47) 03.05.2023	(73) ABB Schweiz AG
(72) TAPADIA, Nidhishri	(87) US2018022541	(72) PAN, Jiuping
TORREY, David Allan	20.09.2018	DAS, Debrup
(51) H02H 7/122	(22) 15.03.2018	FENG, Xiaoming
H02M 1/32	(54) A MEDIUM VOLTAGE STATIC SYNCHRONOUS COMPENSATOR FOR POWER DISTRIBUTION GRIDS	TREMELLING, Darren
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(47) 03.05.2023	FOLTS, Douglas C.	(33) United States of America
(87) EP2020072218	OTEMAN, David G.	United States of America
18.02.2021	FLANNERY, Patrick	United States of America
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APPARATUS, COMPUTER PROGRAM	G02B 5/18	(11) EP3677052
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H04H 60/42	(33) Switzerland	REQUESTS
H04L 1/00	<hr/>	(73) GN Hearing A/S
H04L 27/00	(51) H04Q 9/00	(72) CHRISTIANSEN, Kim Kris
H04L 27/20	B66F 9/24	NIELSEN, Jesper Lund
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PROGRAM PRODUCT	TRANSMITTING INFORMATION ON	OUTAGE HANDLING AND ACQUIRING
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**Contains data concerning European patents granted for The Netherlands in which a translation was filed confirm Article 52 par. 1 or 6 of the Patents Act 1995.**

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(54) HIGH AFFINITY HUMAN ANTIBODIES TO HUMAN IL-4 RECEPTOR.	
(94) 1067	
(95) dupilumab	
(93) EU/1/17/1229 28.09.2017	
(21) 301228	
(22) 26.04.2023	
(11) 301228	
(74) dr. R.C. van Duijvenbode c.s.	
(68) EP3094353	
(54) RSV-SPECIFIC ANTIBODIES AND FUNCTIONAL PARTS THEREOF	
(94) 1024	

## VB1

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

	B42D 25/373
(11) EP2882435	B42D 25/23
(51) A61K 9/00	B42D 25/24
A61K 9/48	B42D 25/29
A61K 31/395	B42D 25/425
A61K 31/495	B42D 25/45
A61K 31/496	(00) 26/22
A61P 31/04	29.06.2022
A61P 31/06	(11) EP3626135
C07D 491/00	(51) A47J 31/00
C07D 498/08	A47J 31/46
(00) 27.04.2023	(00) 26/22
(00) 11/21	29.06.2022
17.03.2021	(11) EP3691942
(00) Restoration of rights	(51) B60T 13/68
(00) Adipharm Ead	(00) 29/22
(11) EP3253222	20.07.2022
(51) A23C 9/142	(11) EP3837066
A23C 9/13	(51) B22C 3/00
A23C 1/04	B22D 13/10
A23C 1/16	B22C 9/06
A23C 9/16	(00) 26/22
A23G 3/46	29.06.2022
A21D 2/26	(11) EP3912443
A23L 29/30	(51) A01B 39/08
(00) 25/22	A01B 39/16
22.06.2022	A01B 61/04
(11) EP3256100	A01B 63/02
(51) A61K 8/44	F16F 1/00
A61K 8/46	(00) 38/22
A61Q 5/02	21.09.2022
A61Q 19/10	
(00) 26/22	
29.06.2022	
(11) EP3448184	
(51) A24F 40/50	
A24F 40/42	
A24F 40/46	
A24D 1/20	
(00) 29/22	
20.07.2022	
(11) EP3573823	
(51) B32B 3/30	
B32B 5/14	
B32B 7/12	
B32B 27/08	
B32B 27/10	
B32B 27/20	
B32B 27/32	
B32B 27/30	
B32B 27/34	
B32B 27/36	
B32B 29/00	
(00) 25/22	
22.06.2022	
(11) EP3606765	
(51) B42D 25/324	
B42D 25/328	
B42D 25/351	

## VB2

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

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

(11) EP2252370	(00) 31/21 04.08.2021	06.01.2021
(51) A61K 45/06	(11) EP3129237	(11) EP3581654
A61P 1/00	(51) B44F 1/10	(51) A61K 31/7088
A61P 1/10	G03H 1/00	C12N 9/04
A23L 33/00	G03H 1/02	C12N 15/113
A23L 33/115	B42D 25/328	(00) 47/22
A23L 33/18	B42D 25/364	23.11.2022
(11) EP2550363	B42D 25/369	(00) 26.04.2023
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C07K 16/46	A23L 33/00	(00) 21/22
C12N 9/64	A23P 10/00	25.05.2022
C12N 15/85	(00) 24/21	(00) 01.05.2023
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(11) EP2819742	(51) E05B 15/00	(51) C12N 9/26
(51) A61N 1/08	E05B 17/20	(00) 23/22
A61N 1/32	E05C 9/02	08.06.2022
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30.01.2019	03.03.2021	
(11) EP2844667	(11) EP3255330	
(51) A61K 38/00	(51) F16L 21/00	
A61K 38/10	F16L 25/14	
A61K 38/17	H02G 3/06	
A61K 39/00	(00) 51/20	
A61K 39/395	16.12.2020	
A61K 45/06	(11) EP3268174	
A61K 48/00	(51) B26D 5/00	
C07K 7/08	B26D 7/32	
C07K 14/495	B65B 5/06	
C07K 14/65	B65B 25/06	
C07K 14/705	B65B 35/44	
C07K 14/71	B65B 35/50	
C07K 16/28	B65B 35/54	
C07K 16/30	B65B 57/14	
C07K 16/32	B65G 47/08	
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C12N 15/62	(51) C02F 1/38	
G01N 33/68	C02F 3/08	
(11) EP2845674	C02F 3/10	
(51) B23D 59/00	C02F 3/12	
(00) 39/21	C12N 11/08	
29.09.2021	(11) EP3323958	
(11) EP3074410	(51) E04F 11/18	
(51) C08H 7/00	F16B 2/14	
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C09J 197/00	(00) 30/20	
(11) EP3083651	22.07.2020	
(51) C07G 1/00	(11) EP3447746	
C08H 7/00	(51) G08C 17/02	
C09J 197/00	(11) EP3502372	
(11) EP3103443	(51) B32B 9/04	
(51) A61K 9/20	B32B 13/12	
A61K 31/4045	E04F 15/02	
A61P 25/20	(00) 01/21	

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

(11) EP1909759  
(51) A61K 9/127  
A61K 31/407  
A61K 31/4709  
A61K 31/704  
A61K 31/496  
A61K 31/545  
A61K 9/00

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(11) EP2414384  
(51) C07K 14/00  
C12P 21/00

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(11) EP2437869  
(51) B01D 59/44  
C12P 21/06  
C07K 1/36  
G01N 33/68

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(11) EP3063182  
(51) C08F 2/22  
C08F 2/44  
C08F 220/00  
C08F 220/26  
C08F 230/00  
C08J 3/12  
C08J 3/20

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(11) EP3659611  
(51) A61K 35/28  
A61K 9/00  
A61P 19/10

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(11) EP3729486  
(51) H01J 37/32  
H05H 1/28

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(11) EP3755513  
(51) B29B 7/20  
B29B 7/26  
B29B 7/28  
B29B 7/74  
B29C 48/395  
B29C 48/40  
B29C 48/525  
B29B 7/18  
B29B 7/48  
B29B 7/58

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**VRV**

**Verval of nietigverklaring.  
Contains data concerning lapse or annulment.**

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(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2734875	(11) EP2756306	(11) EP2761779
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2737110	(11) EP2756356	(11) EP2763833
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2739163	(11) EP2756630	(11) EP2766242
(00) 16.02.2023	(00) 01.10.2022	(00) 01.10.2022
(00) European Patent got Revoked	(00) EPV lapsed	(00) EPV lapsed
(11) EP2742766	(11) EP2756704	(11) EP2766299
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2744989	(11) EP2757147	(11) EP2767016
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2745598	(11) EP2758276	(11) EP2770882
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2745601	(11) EP2758346	(11) EP2780587
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2748696	(11) EP2758730	(11) EP2780783
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2749072	(11) EP2758827	(11) EP2786790
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2749341	(11) EP2759479	(11) EP2786858
(00) 27.02.2023	(00) 01.10.2022	(00) 12.01.2023

(00) European Patent got Revoked	(00) EPV lapsed	(00) EPV lapsed
(11) EP2786964	(11) EP2857814	(11) EP2892386
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2787009	(11) EP2857955	(11) EP2892432
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2789139	(11) EP2860632	(11) EP2892505
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2793434	(11) EP2861162	(11) EP2892560
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2799132	(11) EP2861189	(11) EP2892850
(00) 28.12.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2803408	(11) EP2863696	(11) EP2892925
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2816778	(11) EP2865835	(11) EP2893252
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2818205	(11) EP2870927	(11) EP2893674
(00) 28.12.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2835018	(11) EP2871825	(11) EP2894162
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2836085	(11) EP2876479	(11) EP2894259
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2838799	(11) EP2878209	(11) EP2894708
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2842888	(11) EP2880842	(11) EP2895025
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2843245	(11) EP2882629	(11) EP2895198
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2845961	(11) EP2883022	(11) EP2895221
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2848134	(11) EP2885324	(11) EP2895512
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2848160	(11) EP2885395	(11) EP2895538
(00) 01.10.2022	(00) 21.11.2022	(00) 01.10.2022
(00) EPV lapsed	(00) European Patent got Revoked	(00) EPV lapsed
(11) EP2848332	(11) EP2885824	(11) EP2895607
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2850402	(11) EP2885825	(11) EP2895608
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP2850928	(11) EP2886865	(11) EP2895654
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2851115	(11) EP2889781	(11) EP2895982
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2854141	(11) EP2891822	(11) EP2896141
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2855431	(11) EP2892291	(11) EP2896146
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022

(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2896259	(11) EP2901202	(11) EP2926766
(00) 01.10.2022	(00) 01.10.2022	(00) 15.02.2023
(00) EPV lapsed	(00) EPV lapsed	(00) European Patent got Revoked
(11) EP2896263	(11) EP2901356	(11) EP2928099
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2897464	(11) EP2901415	(11) EP2930276
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2897509	(11) EP2901581	(11) EP2938291
(00) 01.10.2022	(00) 01.10.2022	(00) 31.07.2019
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2897636	(11) EP2901643	(11) EP2944646
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2897878	(11) EP2902599	(11) EP2947792
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2897883	(11) EP2903965	(11) EP2954392
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2897887	(11) EP2904688	(11) EP2954894
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2897956	(11) EP2905573	(11) EP2962485
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2898053	(11) EP2906176	(11) EP2969446
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP2898219	(11) EP2907124	(11) EP2970710
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2898351	(11) EP2907528	(11) EP2974495
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2898735	(11) EP2908716	(11) EP2975385
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2899188	(11) EP2909420	(11) EP2975606
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2900288	(11) EP2911371	(11) EP2981099
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2900347	(11) EP2912310	(11) EP2981414
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2900404	(11) EP2914446	(11) EP2983026
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2900455	(11) EP2914507	(11) EP2985615
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2900549	(11) EP2917655	(11) EP2987162
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
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(11) EP2900576	(11) EP2918303	(11) EP2988085
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2900669	(11) EP2920371	(11) EP2991576
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP2900872	(11) EP2924479	(11) EP2992166
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2992848	(11) EP3020774	(11) EP3044227
(00) 28.12.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2993945	(11) EP3021566	(11) EP3044307
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2995765	(11) EP3021582	(11) EP3044407
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
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(11) EP2997427	(11) EP3022296	(11) EP3044491
(00) 28.12.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2997855	(11) EP3028772	(11) EP3044524
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP2998108	(11) EP3028824	(11) EP3044970
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP2998802	(11) EP3028934	(11) EP3046438
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3001750	(11) EP3031542	(11) EP3046723
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3004554	(11) EP3033376	(11) EP3046879
(00) 28.12.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3004868	(11) EP3035690	(11) EP3047313
(00) 28.12.2022	(00) 28.12.2022	(00) 01.10.2022
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(11) EP3005237	(11) EP3038889	(11) EP3047607
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3006826	(11) EP3041496	(11) EP3047672
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3007649	(11) EP3041835	(11) EP3047674
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3007823	(11) EP3042130	(11) EP3047964
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3008535	(11) EP3042332	(11) EP3048303
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP3009109	(11) EP3042455	(11) EP3049081
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3011352	(11) EP3042463	(11) EP3049102
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(11) EP3011750	(11) EP3042658	(11) EP3049367
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(11) EP3013629	(11) EP3043664	(11) EP3049415
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3015151	(11) EP3043726	(11) EP3049584
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3017686	(11) EP3043810	(11) EP3049665
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3020714	(11) EP3043838	(11) EP3049869
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022

(00) EPV lapsed	(00) EPV lapsed	(00) Patent Expired
(11) EP3050046	(11) EP3057511	(11) EP3127822
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
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(11) EP3050478	(11) EP3061212	(11) EP3131711
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3050569	(11) EP3061639	(11) EP3132233
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP3050606	(11) EP3061747	(11) EP3133123
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(11) EP3050659	(11) EP3061860	(11) EP3137269
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(11) EP3050690	(11) EP3063930	(11) EP3139180
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(11) EP3050717	(11) EP3071726	(11) EP3139349
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
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(11) EP3050964	(11) EP3086368	(11) EP3139697
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
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(11) EP3052151	(11) EP3087669	(11) EP3139867
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
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(11) EP3052253	(11) EP3092205	(11) EP3141386
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
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(11) EP3052277	(11) EP3092800	(11) EP3141497
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
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(11) EP3052279	(11) EP3093097	(11) EP3141563
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
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(11) EP3052280	(11) EP3095265	(11) EP3141668
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3052291	(11) EP3100613	(11) EP3141932
(00) 01.10.2022	(00) 07.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) European Patent got Revoked	(00) EPV lapsed
(11) EP3052496	(11) EP3103043	(11) EP3142341
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3052581	(11) EP3108318	(11) EP3142546
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3052587	(11) EP3108890	(11) EP3143870
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
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(11) EP3052645	(11) EP3109686	(11) EP3143925
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3052805	(11) EP3116015	(11) EP3144043
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3054054	(11) EP3120433	(11) EP3144044
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3055352	(11) EP3121351	(11) EP3144325
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3056224	(11) EP3127553	(11) EP3144591
(00) 01.10.2022	(00) 02.05.2023	(00) 01.10.2022



(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3144734	(11) EP3184264	(11) EP3194125
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3144769	(11) EP3185612	(11) EP3194126
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3147043	(11) EP3186402	(11) EP3194281
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3147371	(11) EP3186498	(11) EP3194311
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3147809	(11) EP3188613	(11) EP3194375
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3150133	(11) EP3188668	(11) EP3194383
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3150522	(11) EP3188759	(11) EP3194388
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3153242	(11) EP3188982	(11) EP3194389
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3156560	(11) EP3189567	(11) EP3194564
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3157130	(11) EP3189699	(11) EP3195582
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3158427	(11) EP3189701	(11) EP3195703
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3162652	(11) EP3190932	(11) EP3197302
(00) 28.12.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3164079	(11) EP3191116	(11) EP3197596
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3165411	(11) EP3191167	(11) EP3197649
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3167989	(11) EP3191182	(11) EP3197793
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3170482	(11) EP3191232	(11) EP3197830
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3170942	(11) EP3191786	(11) EP3197870
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3171888	(11) EP3191887	(11) EP3197935
(00) 28.12.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3174930	(11) EP3192179	(11) EP3198012
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3178660	(11) EP3192194	(11) EP3198119
(00) 06.02.2019	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3180705	(11) EP3192322	(11) EP3198335
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3180895	(11) EP3193024	(11) EP3198604
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022

(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3198768	(11) EP3207293	(11) EP3240550
(00) 01.10.2022	(00) 31.08.2022	(00) 01.10.2022
(00) EPV lapsed	(00) European Patent got Revoked	(00) EPV lapsed
(11) EP3198935	(11) EP3209051	(11) EP3245104
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3198937	(11) EP3210480	(11) EP3245678
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3198945	(11) EP3212199	(11) EP3246222
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3198954	(11) EP3212584	(11) EP3249313
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3198980	(11) EP3212585	(11) EP3251823
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV lapsed
(11) EP3199160	(11) EP3213733	(11) EP3253229
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3200900	(11) EP3215329	(11) EP3254372
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3201122	(11) EP3216342	(11) EP3257667
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3201150	(11) EP3216426	(11) EP3259509
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3201185	(11) EP3217277	(11) EP3259621
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3201470	(11) EP3219223	(11) EP3264144
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3201476	(11) EP3220997	(11) EP3265224
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3201557	(11) EP3221064	(11) EP3265353
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3201560	(11) EP3223444	(11) EP3265354
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3202031	(11) EP3223553	(11) EP3269918
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3202047	(11) EP3225307	(11) EP3270015
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3202070	(11) EP3226451	(11) EP3270506
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3202217	(11) EP3228037	(11) EP3274758
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3202356	(11) EP3228083	(11) EP3275362
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3202772	(11) EP3236352	(11) EP3277426
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3204472	(11) EP3236357	(11) EP3277743
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022

(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3280167	(11) EP3299633	(11) EP3318580
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3282207	(11) EP3299757	(11) EP3320168
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3282858	(11) EP3300410	(11) EP3321279
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3288473	(11) EP3300684	(11) EP3321306
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3291979	(11) EP3301223	(11) EP3321818
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP3293290	(11) EP3301359	(11) EP3322241
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP3293313	(11) EP3301900	(11) EP3322933
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3293455	(11) EP3301975	(11) EP3325229
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP3294043	(11) EP3302712	(11) EP3326707
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3295977	(11) EP3303415	(11) EP3326850
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3296217	(11) EP3303767	(11) EP3329636
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3296485	(11) EP3307413	(11) EP3329702
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3296539	(11) EP3307513	(11) EP3329743
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3296622	(11) EP3309191	(11) EP3329816
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
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(11) EP3297115	(11) EP3309769	(11) EP3330038
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
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(11) EP3297492	(11) EP3310593	(11) EP3334029
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3298091	(11) EP3311823	(11) EP3335573
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV lapsed
(11) EP3298942	(11) EP3314884	(11) EP3336047
(00) 01.10.2022	(00) 31.12.2022	(00) 28.12.2022
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(11) EP3299067	(11) EP3315397	(11) EP3336048
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP3299226	(11) EP3316143	(11) EP3338000
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
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(11) EP3299268	(11) EP3317361	(11) EP3338677
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
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(11) EP3299303	(11) EP3318446	(11) EP3339490
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022

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(11) EP3339513	(11) EP3349793	(11) EP3356875
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3340992	(11) EP3350071	(11) EP3357102
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3341470	(11) EP3350156	(11) EP3358075
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
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(11) EP3342108	(11) EP3350193	(11) EP3358347
(00) 28.12.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3343443	(11) EP3350228	(11) EP3358762
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP3344459	(11) EP3350418	(11) EP3358879
(00) 01.10.2022	(00) 01.10.2022	(00) 01.10.2022
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(11) EP3345308	(11) EP3351199	(11) EP3359304
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
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(11) EP3345384	(11) EP3352249	(11) EP3359606
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3345424	(11) EP3352604	(11) EP3359918
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP3346496	(11) EP3352682	(11) EP3362997
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
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(11) EP3347064	(11) EP3352742	(11) EP3366030
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3347320	(11) EP3352829	(11) EP3367982
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3347500	(11) EP3353527	(11) EP3368104
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3347519	(11) EP3353612	(11) EP3368370
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3348055	(11) EP3353758	(11) EP3368871
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3348276	(11) EP3353940	(11) EP3370832
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3348317	(11) EP3354567	(11) EP3371668
(00) 21.03.2023	(00) 01.10.2022	(00) 28.12.2022
(00) European Patent got Revoked	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3349506	(11) EP3355363	(11) EP3371845
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3349569	(11) EP3355378	(11) EP3371899
(00) 01.10.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3349607	(11) EP3355478	(11) EP3372843
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3349734	(11) EP3355699	(11) EP3373293
(00) 28.12.2022	(00) 01.10.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV lapsed	(00) EPV Ceased Effect
(11) EP3349747	(11) EP3356337	(11) EP3373703
(00) 01.10.2022	(00) 01.10.2022	(00) 28.12.2022

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3376985	(11) EP3399034	(11) EP3423137
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3377236	(11) EP3400116	(11) EP3424731
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3377952	(11) EP3401776	(11) EP3425203
(00) 01.10.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV lapsed	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3380513	(11) EP3401891	(11) EP3425676
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3380604	(11) EP3403315	(11) EP3426007
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3381038	(11) EP3403694	(11) EP3426412
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3381046	(11) EP3403848	(11) EP3426766
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3381994	(11) EP3404887	(11) EP3427644
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3384329	(11) EP3405024	(11) EP3427727
(00) 28.12.2022	(00) 28.12.2022	(00) 28.12.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3384655	(11) EP3406614	(11) EP3428766
(00) 28.12.2022	(00) 28.12.2022	(00) 01.10.2022
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV lapsed
(11) EP3385339	(11) EP3407017	(11) EP3428777
(00) 29.11.2022	(00) 01.10.2022	(00) 28.12.2022
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**VRB**

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

## CO

## Ingeschreven overdrachten.

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

(71) Novartis Pharmaceuticals Corporation	(11) EP2484371	(51) G06F 19/00
(73) Novartis Pharmaceuticals Corporation	(00) 17.04.2023	G01N 35/00
(11) EP1664086	(51) A61K 38/17	G05B 15/02
(00) 19.04.2023	A61P 3/00	(00) Assignment
(51) C07K 1/16	(00) Assignment	(71) KemPharm Denmark A/S
(00) Merge	(71) KemPharm, Inc.	(73) KemPharm Denmark A/S
(71) Geneora Pharma (Shijiazhuang) Co., Ltd.	(73) KemPharm Denmark A/S	(11) EP2659904
(73) Geneora Pharma (Shijiazhuang) Co., Ltd.	(11) EP2484371	(00) 17.04.2023
(11) EP1797871	(00) 17.04.2023	(51) A61K 38/17
(00) 18.04.2023	(51) A61K 38/17	A61P 3/00
(51) A61K 9/00	A61P 3/00	(00) Assignment
A61K 9/14	(00) Assignment	(71) SUN PHARMACEUTICAL INDUSTRIES LIMITED
A61K 9/16	(71) Inpeco SA	(73) SUN PHARMACEUTICAL INDUSTRIES LIMITED
A61K 31/381	(73) Inpeco SA	(11) EP2403503
A61K 47/30	(11) EP2676144	(00) 17.04.2023
A61K 47/34	(00) 18.04.2023	(51) A61K 31/56
A61P 25/16	(51) G01N 35/04	A61K 31/573
(00) Assignment	(00) Assignment	A61P 27/00
(71) XOMA Technology Ltd.	(71) KemPharm, Inc.	A61P 27/02
Novartis Pharmaceuticals Corporation	(73) KemPharm Denmark A/S	(00) Merge
(73) XOMA Technology Ltd.	(11) EP2659904	(71) Musarubra US LLC
Novartis Pharmaceuticals Corporation	(00) 17.04.2023	(73) Skyhigh Security LLC
(11) EP1704166	(51) A61K 38/17	(11) EP2345205
(00) 19.04.2023	A61P 3/00	(00) 13.03.2023
(51) A61K 31/663	(00) Assignment	(51) H04L 12/24
A61K 39/00	(71) Geneora Pharma (Shijiazhuang) Co., Ltd.	H04L 29/06
A61K 39/395	(73) Geneora Pharma (Shijiazhuang) Co., Ltd.	H04W 8/24
C07K 16/24	(11) EP2642993	(00) Assignment
(00) Merge	(00) 18.04.2023	(71) Geneora Pharma (Shijiazhuang) Co., Ltd.
(71) Novartis Pharmaceuticals Corporation	(51) A61K 9/14	(73) Geneora Pharma (Shijiazhuang) Co., Ltd.
(73) Novartis Pharmaceuticals Corporation	A61K 9/16	(11) EP2744801
(11) EP1766034	A61K 9/50	(00) 18.04.2023
(00) 19.04.2023	A61K 31/381	(51) C07D 333/20
(51) A61K 39/145	A61K 47/34	G01N 30/02
C12N 15/86	A61P 25/16	(00) Assignment
(00) Merge	(00) Assignment	(71) Inpeco SA
(71) Novartis Pharmaceuticals Corporation	(71) Inpeco SA	(73) Inpeco SA
(73) Novartis Pharmaceuticals Corporation	(73) Inpeco SA	(11) EP2855307
(11) EP1688146	(11) EP2569128	(00) 18.04.2023
(00) 19.04.2023	(00) 18.04.2023	(51) B65G 15/62
(51) A61K 38/20	(51) B25J 9/02	B65G 45/00
A61K 47/12	G01N 35/00	(00) Assignment
A61P 35/00	(00) Assignment	(71) Inpeco SA
(00) Merge	(71) Inpeco SA	(73) Inpeco SA
(71) Novartis Pharmaceuticals Corporation	(73) Inpeco SA	(11) EP2872900
(73) Novartis Pharmaceuticals Corporation	(11) EP2780724	(00) 18.04.2023
(11) EP2318032	(00) 18.04.2023	(51) B65G 47/26
(00) 17.04.2023	(51) B65G 47/46	B65G 47/51
(51) A61K 38/17	(00) Assignment	B65G 47/69
A61P 3/00	(71) Skyhigh Security LLC	G01N 35/04
(00) Assignment	(73) Skyhigh Security LLC	(00) Assignment
(71) KemPharm, Inc.	(11) EP2345205	(71) Inpeco SA
(73) KemPharm Denmark A/S	(00) 13.03.2023	(73) Inpeco SA
(11) EP2318032	(51) H04L 12/24	(11) EP3149491
(00) 17.04.2023	H04L 29/06	(00) 18.04.2023
(51) A61K 38/17	H04W 8/24	(51) G01N 35/00
A61P 3/00	(00) Assignment	G01N 35/02
(00) Assignment	(71) Inpeco SA	G01N 35/04
(71) KemPharm Denmark A/S	(73) Inpeco SA	(00) Assignment
(73) KemPharm Denmark A/S	(11) EP2856174	
	(00) 18.04.2023	

(71) XOMA Technology Ltd. Novartis Pharmaceuticals Corporation	(71) Dalian CIMC Special Logistics Equipments Co., Ltd.	C12Q 1/68 (00) Merge
(73) XOMA Technology Ltd. Novartis Pharmaceuticals Corporation	China International Marine Containers (Group) Ltd.	(71) Primus AB
(11) EP2311873	CIMC Containers Holding Company Ltd.	(73) Primus AB
(00) 19.04.2023	(73) Dalian CIMC Special Logistics Equipments Co., Ltd.	(11) EP2803912
(51) C07K 16/00 C12N 15/13	China International Marine Containers (Group) Ltd.	(00) 19.04.2023
(00) Merge	CIMC Containers Holding Company Ltd.	(51) A47J 36/26
(71) Inpeco SA	(11) EP3219644	F23D 14/28
(73) Inpeco SA	(00) 17.04.2023	F23D 14/64
(11) EP2077914	(51) B65D 88/00	F23D 14/08
(00) 18.04.2023	B65D 88/52	(00) Assignment
(51) B01L 9/06	B65D 90/00	(71) Inpeco SA
G01N 35/00	(00) Assignment	(73) Inpeco SA
G01N 35/04	(71) Inpeco SA	(11) EP2805170
(00) Assignment	(73) Inpeco SA	(00) 18.04.2023
(71) Inpeco SA	(11) EP3227207	(51) G01N 35/00
(73) Inpeco SA	(00) 18.04.2023	(00) Assignment
(11) EP2856175	(51) B65G 1/04	(71) Härting Eckman, Steven Lee Markovits Rojas, Alejandro
(00) 18.04.2023	B66F 9/07	(73) Härting Eckman, Steven Lee Markovits Rojas, Alejandro
(51) G01N 35/00	G01N 35/04	(11) EP3847152
G01N 35/02	(00) Assignment	(00) 19.04.2023
G01N 35/10	(71) DELLNER BUBENZER GERMANY GmbH	(51) C07C 51/44
(00) Assignment	(73) DELLNER BUBENZER GERMANY GmbH	C11C 1/02
(71) Inpeco SA	(11) EP3392106	C11C 1/10
(73) Inpeco SA	(00) 18.04.2023	C11B 3/12
(11) EP3019876	(51) B60T 13/22	C11B 13/00
(00) 18.04.2023	F16D 59/02	(00) Assignment
(51) B65G 15/20	F16D 65/28	(71) Scenic Immunology B.V.
B65G 15/62	F16D 66/00	(73) Scenic Immunology B.V.
B65G 21/20	F16D 121/06	(11) EP3658141
B65G 23/04	(00) Change of owner(s) name	(00) 19.04.2023
B65G 23/14	(71) Inpeco SA	(51) A61K 31/417
B65G 43/00	(73) Inpeco SA	A61K 39/00
G01N 35/02	(11) EP2059470	A61K 45/00
G01N 35/04	(00) 18.04.2023	A61P 31/00
(00) Assignment	(51) B67B 7/00	A61P 9/10
(71) Inpeco SA	(00) Assignment	A61P 25/28
(73) Inpeco SA	(71) Primus AB	(00) Assignment
(11) EP2409159	(73) Primus AB	(71) Inpeco SA
(00) 18.04.2023	(11) EP3298331	(73) Inpeco SA
(51) G01N 35/00	(00) 19.04.2023	(11) EP3060501
G01N 35/04	(51) F24C 3/14	(00) 18.04.2023
G01N 35/10	(00) Assignment	(51) B65G 17/12
(00) Assignment	(71) Geneora Pharma (Shijiazhuang) Co., Ltd.	B65G 47/57
(71) Inpeco SA	(73) Geneora Pharma (Shijiazhuang) Co., Ltd.	G01N 35/04
(73) Inpeco SA	(11) EP3489227	(00) Assignment
(11) EP2329277	(00) 18.04.2023	(71) The Regents of the University of California
(00) 18.04.2023	(51) A61K 31/381	(73) The Regents of the University of California
(51) B01L 9/02	A61P 25/16	(11) EP2922957
G01N 35/04	C07D 333/10	(00) 19.04.2023
(00) Assignment	(00) Assignment	(51) C12N 9/42
(71) Inpeco SA	(71) Advanced Standard Communication LLC	C12N 15/74
(73) Inpeco SA	(73) Advanced Standard Communication LLC	(00) Assignment
(11) EP3129791	(11) EP3016464	(71) Inpeco SA
(00) 18.04.2023	(00) 19.04.2023	(73) Inpeco SA
(51) B01L 9/06	(51) H04W 72/04	(11) EP3607329
G01N 35/02	(00) Assignment	(00) 18.04.2023
G01N 35/04	(71) Illumina, Inc.	(51) B65G 15/62
(00) Assignment	(73) Illumina, Inc.	G01N 35/04
(71) Inpeco SA	(11) EP3303584	(00) Assignment
(73) Inpeco SA	(00) 17.04.2023	(71) Rexnord Flattop Europe S.r.l.
(11) EP2160693	(51) C12N 15/10	(73) Rexnord Flattop Europe S.r.l.
(00) 18.04.2023		(11) EP3654015
(51) G06F 19/00		
(00) Assignment		

(00) 18.04.2023  
(51) G01N 19/02  
(00) Assignment

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**TVH**

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

**UP1**

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

## **UP2**

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

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

### **UP3**

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

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

#### **UP4**

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

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

## **UP5**

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

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

**UP6**

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

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