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THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

The Canadian Patent Office Record is published on Tuesday of each week under the authority of the Commissioner of Patents, Ottawa-Gatineau, Canada, to whom all communications should be addressed.

La Gazette du Bureau des brevets paraît le mardi de chaque semaine sous l'autorité du Commissaire aux brevets, Ottawa-Gatineau, Canada, à qui doit être adressée toute correspondance.

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Notices

1. Dates and Code Numerals Appearing in Patent Headings

Dates
All dates appearing in the patent headings of this publication follow the form recommended by the International Standards Organization. The four digits on the left represent the years followed by two digits each for the months and the days. For example, January 02, 1999 will be shown as 1999-01-02.

Code Numerals
The numerals within the brackets in the patent headings are INID codes. "INID" is an acronym for "Internationally agreed Numbers for the Identification of Data". These codes are utilized to identify patent bibliography as recommended by the Permanent Committee on Industrial Property Information (PCIPI) under the administration of the World Intellectual Property Organization (WIPO) based in Geneva, Switzerland.

The INID Codes and their corresponding definitions of bibliographic data elements are as follows:

[11] - Number of Patent document
[13] - Kind-of-document code
[21] - Number assigned to the Application
[22] - Date of Filing Application or
[22] - Date of filing of related divisional application
[25] - Language in which the published application was originally filed
[30] - Data relating to priority under the Paris Convention

[41] - Open to Public Inspection Date
[45] - Date of Issue
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[51] - International Classification
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[54] - Title of Invention
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[64] - Related by Reissue
[71] - Name(s) of Applicant(s)
[72] - Name(s) of Inventor(s)
[73] - Name(s) of Grantee(s)
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[86] - PCT International Filing Data
[87] - PCT International Publication data

Avis

1. Dates et chiffres de code figurant à l'entête des brevets

Dates
Toutes dates figurant aux entêtes des brevets de cette publication suivent la forme recommandée par l'Organisation des normes internationales. Les quatre chiffres de gauche représentent les années et sont suivis, vers la droite, de deux autres chiffres chacun, pour les mois et les jours. Le 2 janvier 1999, par exemple, sera représenté par 1999-01-02.

Chiffres de code
Les chiffres à l'intérieur des parenthèses aux entêtes des brevets sont des codes INID. Le sigle « INID » signifie « Identification numérique internationale des données bibliographiques » Ces codes sont utilisés pour l'indentification de la bibliographie de brevets, tel que recommandé par le Comité permanent chargé de l'information en matière de propriété industrielle (PCIPI), sous l'administration de l'Organisation mondiale de la propriété intellectuelle (OMPI), sise à Genève, Suisse.

Les codes INID accompagnés des définitions des données bibliographiques correspondantes sont comme suit :

[11] - Numéro du brevet
[13] - Désignation du type de document
[21] - Numéro attribué à la demande
[22] - Date du dépôt de la demande ou
[22] - Date du dépôt de la demande divisionnaire apparentée
[25] - Langue dans laquelle la demande publiée a été initialement déposée
[30] - Données relatives à la priorité selon la Convention de Paris
[41] - Date de mise à la disponibilité du public
[45] - Date de délivrance
[48] - Date de correction (Redélivrance, Réexamen)
[51] - Classification internationale
[52] - Classification nationale
[54] - Titre de l'invention
[60] - Apparenté par divulgation supplémentaire
[62] - Apparenté par division
[64] - Apparenté par redélivrance
[71] - Nom(s) du (des) demandeur(s)
[72] - Nom(s) de(s) l'inventeur(s)
[73] - Nom(s) du (des) titulaire(s)
[85] - Date d'entrée en phase nationale
[86] - Données du dépôt international selon le PCT
[87] - Données de publication internationale selon le PCT

2. Country Code

The Country Codes appearing in this publication conform to those contained in annex A of the *Handbook on Industrial Property Information and Documentation* published by the World Intellectual Property Organization (WIPO). This document is accessible from a link entitled Standards ST-3 on the List of WIPO Standards, Recommendations and Guidelines (Abbreviated Titles) located on the WIPO Web site: (**www.wipo.int/scit/en/standards/standards.htm**).

2. Code des pays

Les Codes des pays qui se trouvent dans cette publication sont conformes à ceux dans l'annexe A du *Manuel sur l'information et la documentation en matière de propriété industrielle* publié par l'Organisation Mondiale de la Propriété Intellectuelle (OMPI). Ce document est accessible à partir de l'hyperlien intitulé Normes ST-3 dans la Liste des normes, recommandations et principes directeurs de l'OMPI (Titres abrégés) qui se trouve au site Web de l'OMPI: (**www.wipo.int/scit/fr/standards/standards.htm**).

3. How to Purchase Paper Copies of Canadian Patents and Canadian Applications Open to Public Inspection

Paper copies of all other Canadian Patents and Canadian applications open to public inspection may be purchased at the cost of $1 per page by visiting (**www.strategis.ic.gc.ca/patentsorder**) or by writing to the Commissioner of Patents, Ottawa-Gatineau, K1A 0C9.

Item 25.1* On requesting copy in electronic form of a document:	N/A
a) for each request	$10
b) plus, for each patent or application to which the request relates	$10
c) plus, if the copy is requested on a physical medium, for each physical medium requested in addition to the first	$10
d) plus, for each additional 10 megabytes or part of them exceeding 7 megabytes	$10

3. Comment acheter des copies sur papier de brevets canadiens et de demandes canadiennes mises à la disponibilité du public

Les copies sur papier de tous les autres brevets canadiens et des demandes canadiennes mises à la disponibilité du public peuvent être achetées au coût de 1 $ par page en visitant notre site Web (**www.strategis.ic.gc.ca/brevetscommande**) ou en écrivant au Commissaire aux brevets, Ottawa-Gatineau, K1A 0C9.

Article 25.1* Demande d'une copie d'un document sous forme électronique :	S.O.
a) pour chaque demande	10 $
b) pour chaque demande de brevet ou brevet visé par la demande	10 $
c) dans le cas où le document doit être copié sur plus d'un support matériel, pour chaque support matériel additionnel	10 $
d) pour chaque tranche de 10 méga-octets qui excède 7 méga-octets, l'excédant étant arrondi au multiple supérieur	10 $

4. Orders for Patents by Class or Sub-Class

A listing of all patents that have issued in each class or sub-class including both patents in force and expired patents, may be ordered at a price of $1 per page from the Patent Office.

4. Commande de brevets par classe ou sous-classe

Les listes de brevets délivrés dans chaque classe ou sous-classe, incluant les brevets en vigueur et ceux ayant expiré, peuvent être commandées auprès du Bureau des brevets au prix de 1 $ la page.

5. Advice on Making a Patent Application

Any person intending to file a patent application may obtain an information kit upon request from the Commissioner of Patents, Ottawa-Gatineau, Canada K1A 0C9. It is recommended that applicants make use of the services of a registered Patent Agent. A list of Patent Agents in any area of Canada will also be supplied upon request.

5. Conseils relatifs à la préparation de demandes de brevets

Toute personne qui a l'intention de déposer une demande de brevet peut obtenir une trousse d'information sur demande faite au Commissaire aux brevets, Ottawa-Gatineau, Canada K1A 0C9. On recommande aux demandeurs d'avoir recours aux services d'un agent de brevets inscrit au registre. Une liste des agents de brevets dans n'importe quelle région du Canada sera également fournie sur demande.

6. Licensing of Patents

Voluntary Licences
Persons desiring to use, make or sell an invention patented in Canada should negotiate terms with the patent owner. The address of the patentee may be obtained by writing to the Commissioner of Patents, Ottawa-Gatineau, Canada, K1A 0C9. If a voluntary licence cannot be arranged, a compulsory licence may be possible.

Compulsory Licences
Three years after a patent has been granted, one may request a compulsory licence to use the patent if there has been an abuse of the exclusive right. See Sections 65 to 71 of the *Patent Act.* Applications for a compulsory licence are made to the Commissioner of Patents.

6. Octroi de licences en vertu des brevets

Licences librement accordées
Les personnes désirant utiliser, fabriquer ou vendre une invention brevetée au Canada doivent en négocier les conditions avec le titulaire du brevet. L'adresse du titulaire peut être obtenue en écrivant au Commissaire aux brevets, Ottawa-Gatineau, Canada, K1A 0C9. S'il est impossible d'obtenir une licence résultant d'un libre accord, il est peut être possible d'obtenir une licence obligatoire.

Licences obligatoires
Il est possible de faire la demande d'une licence obligatoire trois ans après l'octroi d'un brevet si les droits exclusifs qui en dérivent ont donné lieu à un abus. Voir les articles 65 à 71 de la *Loi sur les brevets*. Les demandes de licence obligatoire doivent être présentées au Commissaire aux brevets.

7. Patents Available for Licence or Sale

An asterisk (*) placed beside any patent listed in this issue of the *Canadian Patent Office Record* indicates that as of the date of grant the said patent is available for licence or sale. These and other patents now made available for licensing are included in the listing in part 8 of these notices.

7. Brevets disponibles pour licence ou vente

Un astérisque (*) marqué à côté de tout brevet inscrit dans le présent numéro de la *Gazette du bureau des brevets*, signale qu'à compter de la date de la présente publication, ledit brevet est disponible pour octroi de licence ou vente. Une liste de ces brevets et d'autres mis en disponibilité pour octroi de licence, est publiée au no. 8 des présents avis.

8. List of Patents Available for Licence or Sale

The following Canadian patents have been made available this week for sale or licensing:

None

8. Liste des brevets disponibles pour octroi de licence ou vente

Les brevets canadiens suivants ont été mis en disponibilité cette semaine pour vente ou octroi de licence :

Aucun

9. Applications Open to Public Inspection

All patent applications filed since October 1, 1989 and documents filed in connection therewith are open to public inspection at the Patent Office after the expiration of a confidentiality period of eighteen months beginning on the filing date of the application, or where a request for priority has been made in respect to the application, beginning on the priority date claimed. An application may become open to public inspection sooner at the request or with the approval of the applicant (Section 10(2) of the *Patent Act*). However, an application shall not be open for public inspection if it is withdrawn within the time set out in Section 92 of the *Patent Rules*. This time limit is two months before the expiry of the confidentiality period or where the Commissioner is able to stop technical preparations to open the application to the public at a subsequent date.

9. Demandes mises à la disponibilité du public

Toutes les demandes de brevet et documents relatifs à ceux-ci, déposés au Bureau des brevets depuis le 1er octobre 1989, peuvent y être consultées après l'expiration de la période de confidentialité de dix-huit mois à compter de la date de dépôt de la demande de brevet ou, si une demande de priorité a été présentée à l'égard de celle-ci, de la date de dépôt sur laquelle la demande de priorité est fondée. Une demande de brevet peut être consultée avant l'expiration de la période, à la requête ou sur autorisation du demandeur (article 10(2) de la *Loi sur les brevets*). Toutefois, une demande de brevet ne pourra être consultée si celle-ci est retirée à l'intérieur du délai prévu à l'article 92 des *Règles sur les brevets*. Le délai prévu est de deux mois précédant la date d'expiration de la période de confidentialité ou, lorsque le commissaire est en mesure, à une date ultérieure, d'arrêter les préparatifs techniques en vue de la consultation de cette demande.

10. Language of Published Documents

When ordering a published patent, please note that the language of the document can be identified by the language code (INID [25]) EN (English) or FR (French).

10. Langue du document publié

Toute personne intéressée à obtenir une copie d'un brevet publié doit prendre note que les codes suivants EN (Anglais) ou FR (Français) représentent (INID [25]) la langue de la copie du brevet publié.

11. Patent Cooperation Treaty (PCT) Schedule of Fees Applicable for Applications Filed on or After June 3, 2020

1. Transmittal Fee (Rule 14)	**$300**
2. International Filing Fee	**$1961***
For each additional sheet over 30	**$22**
3. International Search Fee	**$1600**

The above mentioned fees are due at time of filing of the international application, or within one month from the international filing date (date of receipt of the international application by the receiving office). These fees are to be paid in Canadian dollars and cheques should be made payable to the Receiver General for Canada.

If the fees are not paid within one month from the international filing date, the receiving office shall invite the applicant to pay the amount required, together with a late payment fee under

11. Traité de coopération en matière de brevets (PCT) barème de taxes à partir du 3 juin 2020

1. Taxe de transmission (Règle 14)	**300 $**
2. Taxe de dépôt internationale	**1961 $***
Pour chaque feuille au delà de 30	**22 $**
3. Taxe de recherche internationale	**1600 $**

Les taxes mentionnées ci-haut sont payables au moment du dépôt de la demande internationale, ou dans un délai d'un mois à compter de la date de dépôt international, (soit la date de réception de la demande internationale par l'office récepteur). Les taxes doivent être payées en dollars canadiens et les chèques sont payables au receveur général du Canada.

Si les taxes n'ont pas été payées dans un délai d'un mois à compter de la date de dépôt international, l'office récepteur invitera le demandeur à payer le montant dû, accompagné de la

Rule 16bis.2, within one month from the date of the invitation. Failure to pay the fees will result in the withdrawal of the application by the receiving office.

4. Late payment fee
50% of the fees that are due, or,
Minimum: Transmittal fee
Maximum: 50% of the international filing fee

Preliminary Examination

5. Handling fee (Rule 57.2(*a*)) **$295**

6. Preliminary examination fee (Rule 58) **$800**

* International fees will be reduced by:

- **$295** for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- **$442** for all applications filed electronically using PCT-SAFE or ePCT (The request, description, claims and abstract in character coded format).

taxe pour le paiement tardif visée à la règle 16bis.2, dans un délai d'un mois à compter de l'invitation. Si vous omettez de payer les taxes, l'office récepteur retirera votre demande.

4. Taxe pour paiement tardif
50% du montant impayé, ou,
Minimum : taxe de transmission
Maximum : 50% de la taxe de dépôt international

Examen préliminaire

5. Taxe de traitement (Règle 57.2*a*)) **295 $**

6. Taxe d'examen préliminaire (Règle 58) **800 $**

* Les frais seront réduits de:

- **295 $** pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête étant en format à codage de caractères).
- **442 $** pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête, la description, les revendications et l'abrégé étant en format à codage de caractères).

12. PCT Notices

Patent Cooperation Treaty (PCT)

Copies of the *Patent Cooperation Treaty Applicants Guide* and the *Patent Cooperation Treaty & Regulations* are available from WIPO - World Intellectual Property Organization at a cost of 200 Swiss Francs and 18 Swiss Francs, respectively.

Those wishing for further information including prices for both previous and current subscriptions should contact WIPO at:

Information Products Section
Post Office Box 18
1211 Geneva 20 Switzerland
Telephone (011 41 22) 338-9618
Facsimile (011 41 22) 740-1812

or by "E-mail" (**publications.mail@wipo.int**) or visit their Web site (**www.wipo.int**).

12. Avis PCT

Traité de Coopération en matière de brevets (PCT)

Des copies du *Guide du déposant du PCT* ainsi que du *Traité et des Règlements* sont disponibles auprès de l'OMPI - Organisation mondiale de la propriété intellectuelle au coût de 200 francs suisses et 18 francs suisses, respectivement.

Les personnes qui désirent obtenir de plus amples renseignements, notamment sur le prix des abonnements antérieurs et courants, sont priées de s'adresser directement à :

l'OMPI à la Section des produits d'information
Boîte postale 18
1211 Genève 20 Suisse
Téléphone (011 41 22) 338-9618
Télécopieur (011 41 22) 740-1812

ou par courriel (**publications.mail@wipo.int**) ou visiter leur site Web (**www.wipo.int**).

13. Practice Notice

LIMITED PARTNERSHIPS CAN BE ENTERED ON THE REGISTER OF AGENTS AND ON THE LIST OF TRADE-MARK AGENTS

Note: *This practice notice is intended to provide guidance on current Patent and Trade-marks Office practice and interpretation of relevant legislation. However, in the event of any inconsistency between this notice and the applicable legislation, the legislation must be followed.*

The Patent Office and the Trade-marks Office (hereinafter jointly referred to as "the Offices") have been receiving inquiries as to whether limited partnerships are entitled to act as patent and trade-mark agents before the Offices.

With respect to the register of patent agents, section 15 of the *Patent Act* provides that a register of patent agents shall be kept in the Patent Office on which shall be entered the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for patents or in other business before the Patent Office. Section 2 of the *Patent Rules* stipulates that the expression "patent agent" means any person or firm whose name is entered on the register of patent agents pursuant to section 15. Paragraph 15(c) of the *Patent Rules* provides that the Commissioner shall enter on the register of patent agents, on payment of the fee set out in item 33 of Schedule II, the name of **any firm, if the name of at least one member of the firm is entered on the register.**

With respect to the list of trade-mark agents, subsection 28(2) of the *Trade-marks Act* provides that the list of trade-mark agents shall include the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for the registration of a trade-mark or in other business before the Trade-marks Office. Paragraph 21(d) of the *Trade-mark Regulations* (1996) stipulates that the Registrar shall, on written request and payment of the fee set out in item 19 of the schedule, enter on a list of trade-mark agents the name of **any firm having the name of at least one of its members entered on the list as a trade-mark agent.**

Both the patent and trade-mark legislation therefore provide that firms may act as agents before the Offices, as long as one of their members is entered on the register or list of agents. It is generally recognised that the term "firm" includes partnerships, and the Offices have already allowed general partnerships and limited liability partnerships to be entered on the register or list of agents. The Offices consider that limited partnerships are also firms, and that they are entitled to act as agents before the

13. Énoncé de pratique

LES SOCIÉTÉS EN COMMANDITE PEUVENT ÊTRE INSCRITES AU REGISTRE DES AGENTS DE BREVETS ET SUR LA LISTE DES AGENTS DE MARQUES DE COMMERCE

Nota : *Le présent énoncé de pratique a pour but de préciser les pratiques actuelles du Bureau des brevets et du Bureau des marques de commerce et l'interprétation faite par ces derniers de certaines dispositions législatives. Toutefois, en cas de divergence entre le présent énoncé et la législation applicable, c'est la législation qui prévaudra.*

Le Bureau des brevets et le Bureau des marques de commerce (ci-après appelés conjointement « les Bureaux ») ont reçu des questions à savoir si les sociétés en commandite (en anglais « limited partnerships ») ont le droit d'agir en tant qu'agents de brevets et de marques de commerce auprès des Bureaux.

En ce qui concerne le registre des agents de brevets, l'article 15 de la *Loi sur les brevets* prévoit qu'un registre des agents de brevets est tenu au Bureau des brevets sur lequel sont inscrits les noms de toutes les personnes et entreprises ayant le droit de représenter les demandeurs dans la présentation et la poursuite des demandes de brevet ou dans toute autre affaire devant le Bureau des brevets. Aux termes de l'article 2 des *Règles sur les brevets*, « agent de brevets » s'entend de toute personne ou maison d'affaires dont le nom est inscrit au registre des agents de brevets aux termes de l'article 15. L'alinéa 15c) des *Règles sur les brevets* prévoit que le commissaire inscrit au registre des agents de brevets, moyennant paiement de la taxe prévue à l'article 33 de l'annexe II, le nom de **toute maison d'affaires dont le nom d'au moins un membre est inscrit au registre des agents de brevets**.

En ce qui concerne la liste des agents de marques de commerce, le paragraphe 28(2) de la *Loi sur les marques de commerce* prévoit que la liste des agents de marques de commerce comporte les noms des personnes et études habilitées à représenter les intéressés dans la présentation et la poursuite des demandes d'enregistrement des marques de commerce et de toute affaire devant le Bureau des marques de commerce. Aux termes de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996), le registraire, sur demande écrite et sur paiement du droit prévu à l'article 19 de l'annexe, inscrit sur la liste des agents de marques de commerce le nom de **toute firme dont le nom d'au moins un membre est inscrit sur la liste à titre d'agent de marques de commerce.**

La législation actuelle sur les brevets et celle sur les marques de commerce prévoient donc que des firmes peuvent agir en tant qu'agents auprès des Bureaux, à condition que l'un de leurs membres soit inscrit au registre ou à la liste des agents. Il est généralement admis que le terme « firme » inclut les sociétés (en anglais «partnerships ») et les Bureaux ont déjà autorisé des sociétés en nom collectif (en anglais « general partnerships») ainsi que des sociétés à responsabilité limitée

Offices.

Therefore, commencing immediately, the Offices will enter upon request, on the register or list of agents, limited partnerships that otherwise meet the requirements set out in the patent and trade-mark legislation.

The Offices, however, continue to consider that the current patent and trade-mark legislation do not allow corporations to be entered on the register or list of agents, since corporations do not have members and therefore cannot meet the requirements set out in paragraph 15(c) of the *Patent Rules* and paragraph 21(d) of the *Trade-mark Regulations* (1996).

(en anglais « limited liability partnerships ») à être inscrites au registre ou à la liste des agents. Les Bureaux considèrent que les sociétés en commandite sont aussi des firmes et qu'elles ont le droit d'agir en tant qu'agents auprès des Bureaux.

En conséquence, sur demande, les Bureaux inscriront désormais au registre, ou à la liste des agents, les sociétés en commandite qui répondent aux exigences de la *Loi sur les brevets et de la Loi sur les marques de commerce.*

Les Bureaux continuent toutefois de considérer que la législation actuelle sur les brevets et les marques de commerce ne permet pas aux compagnies (en anglais « corporations ») d'être inscrites au registre ou à la liste des agents, étant donné que les compagnies n'ont pas de membres et ne peuvent donc pas satisfaire aux exigences de l'alinéa 15c) des *Règles sur les brevets* et de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996).

14. Correspondence Procedures

The correspondence procedures and the related practice for written communications to the Commissioner of Patents and the Patent Office under the Patent Act and the Patent Rules is outlined in Chapter 2 of the Manual of Patent Office Practice (MOPOP).

Web Link for MOPOP:
http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h_wr00720.html

The correspondence procedures and the related practice of written communications with respect to Trademarks and to Industrial Design can be found in the Practice Notice entitled *Correspondence Procedures*, available on CIPO's website.

CIPO Web Link for correspondence procedures pertaining to Trademarks and Industrial Design:
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr00633.html

Publication date: May 10, 2017
Amendment date: June 17, 2019

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14. Procédures de correspondance

Les procédures de correspondance et les pratiques connexes de communication écrite au commissaire aux brevets ou au Bureau des brevets en vertu de la Loi sur les brevets et des Règles sur les brevets seront exposées dans le chapitre 2 du Recueil des pratiques du Bureau des brevets (RPBB).

Lien Web pour le RPBB :
http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html

Les procédures de correspondance et les pratiques connexes de communication écrite concernant les marques de commerce et les dessins industriels se trouvent dans le document intitulé *Procédures de correspondance*, consultable sur le site Web de l'OPIC.

Lien Web de l'OPIC pour les procédures de correspondance relatives aux marques de commerce et aux dessins industriels :
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/wr00633.html

Date de publication : 10 mai 2017
Date de modification : 17 juin 2019

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7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office
8. Intellectual Property Acts, Rules and Regulation

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office
8. Lois, règles et règlements sur la propriété intellectuelle

This notice is intended to clarify the practice of the Canadian Intellectual Property Office with respect to correspondence procedures and written communications and replaces all previous notices.

Le présent énoncé de pratique a pour but de préciser la pratique de l'Office de la propriété intellectuelle du Canada relativement aux procédures de correspondance et de communications écrites et remplace tout avis antérieur.

1. Physical Delivery of Correspondence and Written Communications to CIPO

For the purposes of sections 5 and 54 of the Patent Rules, subsection 10(1) of the Trademarks Regulations, section 2 of the Copyright Regulations, section 4 of the Industrial Design Regulations and section 3 of the Integrated Circuit Topography Regulations, the address of the Patent Office, the Office of the Registrar of Trademarks, the Copyright Office, the Industrial Design Office, and the Office of the Registrar of Topographies (hereinafter sometimes collectively referred to as "CIPO") is:

Canadian Intellectual Property Office
Place du Portage I
50 Victoria Street, Room C-114
Gatineau QC K1A 0C9

In accordance with subsections 5(2), 5(3), 54(1) and 54(2) of the Patent Rules, subsection 10(2) of the Trademarks Regulations, subsections 2(2) and (3) of the Copyright Regulations, subsection 5(1) of the Industrial Design Regulations and subsections 3(2) and (3) of the Integrated Circuit Topography Regulations, correspondence and written communications delivered to the above address between 8:30 a.m. to 4:30 p.m. (Eastern Time) Monday to Friday is deemed to have been received on the actual date of their delivery if they are delivered when CIPO is open to the public.

Correspondence delivered at a time when CIPO is closed to the public will be deemed or considered to have been received on the day on which CIPO is next open to the public.

Please be advised that once correspondence is received by CIPO it cannot be returned to the sender, even if the sender states that the correspondence was sent by mistake. Exceptionally, in cases where correspondence is related to a patent application that does not meet the requirements under subsection 27.1(1) of the Patent Act for obtaining a filing date, the documents will be returned to the sender.

The Fee Payment Form should always be submitted as a covering document and should be the only document submitted

1. Remise physique de correspondance et communications écrites à l'OPIC

Pour l'application des articles 5 et 54 des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, de l'article 2 du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et de l'article 3 du Règlement sur les topographies de circuits intégrés, l'adresse du Bureau des brevets, du Bureau du registraire des marques de commerce, du Bureau du droit d'auteur, du Bureau des dessins industriels, et du Bureau du registraire des topographies (ci-après parfois collectivement appelés « OPIC ») est la suivante :

Office de la propriété intellectuelle du Canada
Place du Portage I
50, rue Victoria, pièce C-114
Gatineau (Québec) K1A 0C9

Conformément aux paragraphes 5(2), 5(3), 54(1) et 54(2) des Règles sur les brevets, du paragraphe 10(2) du Règlement sur les marques de commerce, des paragraphes 2(2) et (3) du Règlement sur le droit d'auteur, du paragraphe 5(1) du Règlement sur les dessins industriels et des paragraphes 3(2) et (3) du Règlement sur les topographies de circuits intégrés, la correspondance et les communications écrites ayant été remises à l'adresse ci-dessus entre 8h30 et 16h30 (Heure de l'Est) du lundi au vendredi seront réputées avoir été reçues le jour de leur remise, si elles sont remises alors que l'OPIC est ouvert au public.

La correspondance remise lorsque les bureaux de l'OPIC sont fermés au public sera réputée avoir été reçue le jour de la réouverture de l'OPIC au public.

Veuillez prendre note qu'une fois que l'OPIC reçoit de la correspondance, celle-ci ne peut pas être retournée à l'expéditeur, même si l'expéditeur indique que la correspondance a été envoyée par erreur. Exceptionnellement, dans le cas où la correspondance vise une demande de brevet qui ne rencontre pas les exigences du paragraphe 27.1(1) de la Loi sur les brevets pour l'obtention d'une date de dépôt, les documents seront retournés à l'expéditeur.

Le formulaire de paiements des frais devrait toujours être

to CIPO that contains financial information, such as credit card numbers.

Download the Fee Payment Form.

fourni comme page couverture et devrait être le seul document soumis à l'OPIC contenant de l'information financière telle que les numéros de carte de crédit.

Téléchargez le formulaire de paiement des frais.

1.1 Designated Establishments

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 10(1) of the Trademarks Regulations, subsection 2(4) of the Copyright Regulations, section 4 of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the following are the designated establishments or designated offices to which correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be delivered **in person**. Please note that documents, payments and payment instructions delivered to the addresses listed below **must be enclosed in a sealed envelope** and that **no in person payment transactions** are processed on site. The ordinary business hours for each designated establishment are listed below.

- Innovation, Science and Economic Development Canada
  C.D. Howe Building
  235 Queen Street, Room S-143
  Ottawa ON K1A 0H5
  Tel.: 343-291-3436

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  Sun Life Building
  1155 Metcalfe Street, Room 950
  Montreal QC H3B 2V6
  Tel.: 514-496-1797
  Toll-free: 1-888-237-3037

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  151 Yonge Street, 4th Floor
  Toronto ON M5C 2W7
  Tel.: 416-973-5000

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,

1.1 Établissements désignés

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise **en personne** aux établissements ou bureaux désignés suivants. Veuillez prendre note que les documents, paiements et instructions de paiements remis aux adresses énumérées ci-dessous doivent être **inclus dans une enveloppe scellée** et qu'**aucune transaction de paiement en personne** n'est traitée sur place. Les heures normales d'ouverture pour chaque établissement désigné sont indiquées ci-dessous.

- Innovation, Sciences et Développement économique Canada
  Édifice C.D. Howe
  235, rue Queen, pièce S-143
  Ottawa (Ontario) K1A 0H5
  Tél. : 343-291-3436

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Édifice Sun Life
  1155, rue Metcalfe, bureau 950
  Montréal (Québec) H3B 2V6
  Tél. : 514-496-1797
  Sans frais : 1-888-237-3037

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  151, rue Yonge, 4e étage
  Toronto (Ontario) M5C 2W7
  Tél. : 416-973-5000

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à

except statutory holiday

- Innovation, Science and Economic Development Canada
  Canada Place
  9700 Jasper Avenue, Suite 725
  Edmonton AB T5J 4C3
  Tel.: 780-495-4782
  Toll-free: 1-800-461-2646

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  Library Square
  300 West Georgia Street, Suite 2000
  Vancouver BC V6B 6E1
  Tel.: 604-666-5000

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Canada Place
  9700, avenue Jasper, pièce 725
  Edmonton (Alberta) T5J 4C3
  Tél. : 780-495-4782
  Sans frais : 1-800-461-2646

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Library Square
  300, rue Georgia Ouest, pièce 2000
  Vancouver (C.-B.) V6B 6E1
  Tél. : 604-666-5000

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

In accordance with subsections 5(4), 5(5), 54(3) and 54(4) of the Patent Rules, subsection 10(3) of the Trademarks Regulations, subsections 2(4) and (5) of the Copyright Regulations, subsection 5(2) of the Industrial Design Regulations and subsections 3(4) and (5) of the Integrated Circuit Topography Regulations, correspondence delivered to a designated establishment on a day when CIPO is open to the public will be deemed or considered to be received on the day on which they are delivered to that designated establishment. If CIPO is closed to the public, correspondence will be deemed or considered to be received on the day on which CIPO is next open to the public. For example, if correspondence intended for CIPO is delivered to the designated establishment in Toronto on June 24, it will not be considered to be received on June 24 as CIPO is closed on that day (St-Jean-Baptiste Holiday in Quebec). It will be deemed received on the day on which CIPO is next open to the public.

Conformément aux paragraphes 5(4), 5(5), 54(3) et 54(4) des Règles sur les brevets, au paragraphe 10(3) du Règlement sur les marques de commerce, aux paragraphes 2(4) et (5) du Règlement sur le droit d'auteur, au paragraphe 5(2) du Règlement sur les dessins industriels et aux paragraphes 3(4) et (5) du Règlement sur les topographies de circuits intégrés, la correspondance remise à l'un des établissements désignés susmentionnés lorsque les bureaux de l'OPIC sont ouverts au public sera réputée ou considérée avoir été reçue le jour de leur remise à cet établissement désigné. Si les bureaux de l'OPIC sont fermés au public, la correspondance sera réputée ou considérée avoir été reçue à le jour de la réouverture de l'OPIC au public. Par exemple, la correspondance adressée à l'OPIC remise à l'établissement désigné de Toronto le 24 juin ne sera pas considérée avoir été reçue le 24 juin puisque les bureaux de l'OPIC sont fermés ce jour-là (la Saint-Jean Baptiste est un jour férié au Québec). La correspondance sera alors réputée avoir été reçue le jour de la réouverture des bureaux de l'OPIC au public.

1.2. Registered Mail™ and Xpresspost™ services of Canada Post

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 3(4) of the Trade-marks Regulations, subsection 2(4) of the Copyright Regulations, subsection 3(4) of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the Registered Mail™ and Xpresspost™ services of Canada Post are designated establishments or designated offices to which

1.2. Services Courrier recommandé^MC et Xpresspost^MC de Postes Canada

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, les services Courrier recommandé^MC et Xpresspost^MC de Postes Canada sont des établissements ou des

correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be delivered.

CIPO considers that correspondence delivered through the Registered Mail™ and Xpresspost™ services of Canada Post is received by CIPO on the day indicated on the mailing receipt provided by Canada Post, or if CIPO is closed for business on that day, on the day when CIPO is next open for business.

bureaux désignés auxquels la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise.

L'OPIC considère que la correspondance remise par l'entremise des services Courrier recommandé^MC et Xpresspost^MC de Postes Canada sont reçus par l'OPIC le jour indiqué sur le reçu de confirmation de Postes Canada, en autant que l'OPIC soit ouvert au public ce jour-là. Si l'OPIC est fermé au public ce jour-là, la correspondance sera réputée ou considérée avoir été reçue le jour de réouverture de l'OPIC au public.

2. Electronic Correspondence

For the purposes of section 8.1 of the Patent Act, subsection 64(1) of the Trademarks Act, subsection 24.1(1) of the Industrial Design Act and in accordance with subsections 5(6), 54(5), and 68(3) of the Patent Rules, subsection 10(4) of the Trademarks Regulations, subsection 2(6) of the Copyright Regulations, subsection 10(3) of the Industrial Design Regulations, and subsection 3(6) of the Integrated Circuit Topography Regulations, correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent by facsimile, online or on an electronic medium only as provided in the current notice.

In accordance with subsection 54(5) of the Patent Rules, the request for national entry is the only correspondence addressed to the Commissioner in respect of an international application that can be submitted online or on an electronic medium with the exception of sequence listings, applications prepared using the PCT-SAFE software or prepared using WIPO's ePCT online service as specified in the current notice. Other correspondence submitted online or on an electronic medium in respect of international applications that have not entered the national phase will not be accepted.

Subsection 10(5) of the Trademarks Regulations specifies certain categories of correspondence to which the provisions of subsection 10(4) do not apply.

Correspondence sent by facsimile or online to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies constitutes the original, therefore a duplicate paper copy should not be forwarded.

Correspondence delivered to the Commissioner of Patents by electronic means of transmission, including facsimile, will be considered to be received on the day that it is transmitted if delivered and received before midnight local time at CIPO on a day when CIPO is open for business. When CIPO is closed for business, correspondence delivered on that day will be considered to be received on the next day on which CIPO is

2. Correspondance électronique

Pour l'application de l'article 8.1 de la Loi sur les brevets, du paragraphe 64(1) de la Loi sur les marques de commerce, du paragraphe 24.1(1) de la Loi sur les dessins industriels, et conformément aux paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, au paragraphe 10(4) du Règlement sur les marques de commerce, au paragraphe 2(6) du Règlement sur le droit d'auteur, au paragraphe 10(3) du Règlement sur les dessins industriels et au paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise par télécopieur, en ligne ou à l'aide d'un support électronique et ce, seulement de la manière indiquée dans le présent énoncé.

Conformément au paragraphe 54(5) des Règles sur les brevets, la demande d'entrée en phase nationale d'une demande internationale est la seule correspondance adressée au commissaire qui peut être présentée en ligne ou sur support électronique, à l'exception des listages de séquences, des demandes préparées à l'aide du logiciel PCT-SAFE ou préparées à l'aide du service en ligne ePCT de l'OMPI, tel qu'indiqué dans le présent avis. Toute autre correspondance présentée en ligne ou sur support électronique relativement à des demandes internationales qui ne sont pas entrées dans la phase nationale ne sera pas acceptée.

Le paragraphe 10(5) du Règlement sur les marques de commerce prévoit certaines catégories de correspondance auxquelles les dispositions du paragraphe 10(4) ne s'appliquent pas.

La correspondance envoyée par télécopieur ou en ligne au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies constitue une version originale. Par conséquent, un duplicata sur support papier ne devrait pas être expédié.

La correspondance livrée au commissaire aux brevets et reçue par voie électronique, y compris par télécopieur, est considérée comme ayant été reçue à l'OPIC le jour même de sa transmission, si elle est livrée avant minuit, heure locale,

open for business.

Correspondence delivered to the Registrar of Trademarks or the Industrial Design Office by electronic means of transmission, including facsimile, is deemed to have been received on the day on which CIPO receives it (Eastern Time).

lorsque les bureaux de l'OPIC sont ouverts au public. Si elle est transmise un jour où les bureaux de l'OPIC sont fermés au public, elle est considérée comme ayant été reçue à la date du jour d'ouverture suivant de l'OPIC.

La correspondance fournie au registraire des marques de commerce ou transmise au Bureau des dessins industriels par voie électronique, y compris par télécopieur, est réputée avoir été reçue le jour ou l'OPIC l'a reçue (Heure de l'Est).

2.1 Facsimile

Black and white facsimile correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent to the following facsimile numbers:

(819) 953-CIPO (2476) or (819) 953-OPIC (6742)

Colour facsimile correspondence addressed to the Registrar of Trademarks or the Industrial Design Office **must** be sent to the following facsimile number:

(819) 934-3833

Note that the model of facsimile is a Xerox C505/X and that this information may be needed to ensure a successful colour transmission.

Facsimile correspondence that is sent to any facsimile number other than those indicated above, including those of a designated establishment, will be considered not to have been received.

Evidence submitted by facsimile in respect of an opposition or section 45 proceeding **will not be accepted** due to issues such as the often-poor quality of transmission, the risk of incomplete transmission and the voluminous nature of the documents.

The electronic transmittal report returned to you following your facsimile transmission will constitute your acknowledgment receipt. Confidentiality of the facsimile transmission process cannot be guaranteed. Please note that CIPO strongly discourages the use of a computer facsimile interface or internet-based facsimile services due to technical issues with reception.

When submitting by facsimile a document that also has a fee requirement, notification of the preferred mode of payment to be applied must be prominently displayed on the Fee Payment Form to ensure expedient processing.

2.1 Correspondance par télécopieur

La correspondance en noir et blanc par télécopieur adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise aux numéros ci-dessous :

819-953-OPIC (6742) ou 819-953-CIPO (2476)

La correspondance en couleur par télécopieur (modèle **:** Xerox C505/X) adressée au registraire des marques de commerce ou au Bureau des dessins industriels doit être transmise au numéro ci-dessous :

(819) 934-3833

À noter que le modèle de télécopieur est un Xerox C505/X; information qui peut être nécessaire afin de compléter une transmission en couleur.

La correspondance qui est transmise par télécopieur à tout autre numéro de télécopieur que ceux qui sont indiqués ci-dessus, y compris ceux d'établissements désignés, sera considérée comme n'ayant pas été reçue.

Les éléments de preuve présentés par télécopieur dans le cadre d'une procédure d'opposition ou de radiation en vertu de l'article 45 de la Loi **ne seront pas acceptés** en raison des inconvénients reliés à la mauvaise qualité de la transmission, au risque que la transmission soit incomplète et à la nature volumineuse de ces documents.

Le rapport de transmission électronique que vous recevrez après votre transmission par télécopieur constituera votre accusé de réception. La confidentialité du processus de transmission électronique ne peut pas être garantie. Veuillez noter que l'OPIC décourage fortement l'utilisation d'une interface de télécopie par ordinateur ou de services de télécopie par le biais d'internet étant donné les problèmes techniques probables avec la réception.

Lors de la transmission par télécopieur d'un document comprenant une demande d'acquittement de droit ou taxe, il faut clairement indiquer le mode de paiement préféré sur le formulaire de paiements des frais afin d'assurer un traitement rapide.

Patents

The document presentation requirements set out in sections 69 and 70 of the Patent Rules apply to facsimile correspondence.

Brevets

Les exigences relatives à la présentation des documents énoncées aux articles 69 et 70 des Règles sur les brevets s'appliquent à la correspondance par télécopieur.

2.2 Online

Correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be sent electronically using the relevant links below.

2.2 En ligne

La correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur ou au registraire des topographies peut être transmise par voie électronique.

Patents

For the purpose of subsection 5(6) of the Patent Rules, correspondence addressed to the Commissioner may be sent electronically by accessing the following pages:

- filing an application (regular application);
- filing a request for national entry;
- filing an international application (PCT Safe or ePCT);
- general correspondence relating to applications and patents;
- maintaining the name of a patent agent on the register of patent agents; and
- ordering copies in paper, or electronic form of a document.

Brevets

Pour l'application du paragraphe 5(6) des Règles sur les brevets, la correspondance adressée au commissaire peut être envoyée par voie électronique, notamment en accédant aux pages suivantes :

- déposer une demande (demande régulière);
- déposer une demande d'entrée dans la phase nationale;
- déposer une demande internationale (PCT Safe ou ePCT);
- correspondance générale concernant des demandes et des brevets;
- maintien du nom d'un agent de brevets dans le registre des agents de brevets;
- commande de copies papier ou d'un document sous forme électronique.

Canada as Receiving Office Under the PCT: PCT-SAFE

Pursuant to PCT Rule 89bis, CIPO, in its role as a receiving Office, accepts the electronic filing of an international application prepared using the latest version of the WIPO's PCT-Safe software and applications prepared using WIPO's ePCT online service. Filing in both cases must be done using CIPO's International Filing e-service, called PCT E-Filing.

Note: Correspondence related to PCT international applications can not be sent electronically to CIPO. Correspondence may be sent by mail, by facsimile or delivered by hand to CIPO or to a designated establishment.

Le Canada comme office récepteur au titre du PCT : PCT-SAFE et ePCT

Conformément à la Règle 89bis du PCT, l'OPIC, à titre d'office récepteur, accepte le dépôt d'une demande internationale préparée à l'aide de la plus récente version du logiciel PCT-SAFE de l'OMPI, et d'une demande préparée à l'aide du service en ligne ePCT de l'OMPI. Dans les deux cas, le dépôt doit se faire à l'aide du service électronique de dépôt de demandes internationales de l'OPIC, appelé Dépôt en ligne de demandes PCT.

Note: La correspondance liée aux demandes internationales PCT ne peut être envoyée par voie électronique à l'OPIC. La correspondance peut être envoyée par courrier, par télécopieur ou remis en mains à l'OPIC ou à un établissement désigné.

Trademarks

For the purpose of subsection 10(4) of the Trademarks Regulations, the following correspondence addressed to the Registrar of Trademarks may be sent electronically by

Marques de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce peut être envoyés par voie électronique, notamment en accédant aux pages suivantes

accessing the following pages:

- filing a new or revised trademark application;
- renewal of a trademark registration;
- request to enter a name on the list of trademark agents;
- annual renewal of a trademark agent;
- requesting copies of trademark documents;
- registration of a trademark application;

For the purpose of subsection 10(4) of the Trademarks Regulations, correspondence addressed to the Registrar of Trademarks in the context of opposition and section 45 proceedings may be sent electronically by accessing the Trademarks Opposition Board's online web application:

Opposition proceedings before the Trademarks Opposition Board

- filing a statement of opposition;
- filing of a counter statement;
- submission of the opponent's evidence, or statement;
- submission of the applicant's evidence, or statement;
- submission of the opponent's reply evidence;
- submission of the opponent's written representations, or statement;
- submission of the applicant's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

Section 45 proceedings before the Trademarks Opposition Board

- filing a request for a section 45 notice;
- submission of the registered owner's evidence;
- submission of the requesting party's written representations, or statement;
- submission of the registered owner's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

:

- nouvelle demande ou demande modifiée d'enregistrement de marque de commerce;
- renouvellement de l'enregistrement d'une marque de commerce;
- demande d'inscription d'un nom à la liste des agents de marques de commerce;
- renouvellement annuel d'un agent de marques de commerce;
- commande de copies de documents de marques de commerce,
- l'enregistrement d'une marque de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce dans le cadre des procédures d'opposition ou de radiation en vertu de l'article 45 peut être envoyée par voie électronique en accédant à l'application web en ligne de la Commission des oppositions des marques de commerce.

Procédures d'opposition devant la Commission des oppositions des marques de commerce

- production d'une déclaration d'opposition;
- Production d'une contre-déclaration d'opposition;
- Production de la preuve de l'opposant, ou d'une déclaration;
- Production de la preuve du requérant, ou d'une déclaration;
- Production de la contre-preuve de l'opposant;
- Production des arguments écrits de l'opposant, ou déclarations;
- Soumission des arguments écrits du requérant, ou déclarations;
- Produire une demande pour une audience; et
- demande de prolongation de délai.

Procédures en vertu de l'article 45 devant la Commission des oppositions des marques de commerce

- Production d'une demande pour un avis en vertu de l'article 45;
- Production de la preuve du propriétaire inscrit;
- Production des arguments écrits de la demanderesse, ou déclaration;
- Production des arguments écrits du propriétaire inscrit, ou déclaration;
- Produire une demande pour une audience; et
- Demande de prolongation de délai.

For the purpose of subsection 2(6) of the Copyright Regulations, the following correspondence addressed to the Copyright Office may be sent electronically, by accessing the following pages:

- application for registration of a copyright in a work,
- application for registration of a copyright in a performer's performance, sound recording or a communication signal;
- filing a grant of interest;
- request for certificate of correction;
- ordering copies in paper, or electronic form of a document; and
- general correspondence relating to copyright.

Pour l'application du paragraphe 2(6) du Règlement sur le droit d'auteur, la correspondance indiquée ci-dessous qui est adressée au Bureau du droit d'auteur peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- demande d'enregistrement d'un droit d'auteur sur une œuvre,
- demande d'enregistrement d'un droit d'auteur sur une prestation, un enregistrement sonore ou un signal de communication;
- dépôt d'une concession d'intérêt;
- demande de certificat de correction;
- commande de copies des documents papier ou électroniques et
- correspondance générale relative aux droits d'auteur.

Industrial Designs

For the purpose of subsection 24.1(1) of the Industrial Design Act, the following correspondence addressed to the Industrial Design Office may be sent electronically, by accessing the following pages:

- application for registration of an industrial design;
- ordering copies in paper, or electronic form of a document;
- general correspondence relating to industrial designs; and
- payment of industrial design maintenance fees.

Dessins industriels

Pour l'application du paragraphe 24.1(1) de la Loi sur les dessins industriels, la correspondance indiquée ci-dessous qui est adressée au Bureau des dessins industriels peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- demande d'enregistrement d'un dessin industriel;
- commande de copies de documents papier ou électroniques;
- correspondance générale relative aux dessins industriels; et
- paiement des droits de maintien des dessins industriels.

Integrated Circuit Topographies

For the purpose of subsection 3(6) of the Integrated Circuit Topography Regulations, the following correspondence addressed to the Registrar of Topographies may be sent electronically, by accessing the following page:

- general correspondence relating to integrated circuit topographies.

Topographies de circuits intégrés

Pour l'application du paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance indiquée ci-dessous qui est adressée au registraire des topographies peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- correspondance générale relative aux topographies de circuits intégrés.

2.3 Electronic medium

Note: all electronic media must be free of worms, viruses or other malicious content. Files with malicious content will be deleted.

2.3 Supports électroniques

Note : Les supports électroniques doivent être exempts de ver informatique, de virus, ou de tout autre contenu malveillant. Les fichiers qui comprennent du contenu malveillant seront supprimés.

Brevets

Patents

The Patent Office will accept correspondence on various types of electronic medium as specified below. The electronic medium should contain a table of contents and be provided with a cover letter, which will be date stamped by CIPO and placed in the application file. Filing date requirements prescribed in the Patent Rules still remain.

When submitted on an electronic medium, the parts of the application must be logically broken down in files, which are no larger than 25 megabytes.

With regards to sequence listings under Rule 111 of the Patent Rules, the electronic medium must be separate from any electronic medium which may be filed containing parts of the application itself or amendment(s) thereof.

Le Bureau des brevets acceptera la correspondance transmise à l'aide de divers supports électroniques, tel qu'indiqué ci-dessous. Le support électronique devrait contenir une table des matières et être accompagné d'une lettre explicative, laquelle sera datée par l'OPIC et placée dans le dossier de la demande. Les exigences relatives à la date de dépôt énoncées dans les Règles sur les brevets resteront applicables.

Les parties d'une demande qui sont présentées sur support électronique doivent être logiquement réparties en fichiers de 25 mégaoctets au maximum.

En ce qui concerne les listages des séquences prévus à l'article 111 des Règles sur les brevets, le support électronique doit être distinct de tout support électronique qui peut être déposé et qui contient des parties de la demande elle-même ou des modifications relatives à la demande.

Canada as Receiving Office Under the PCT: Electronic Filing of Sequence Listings

Pursuant to PCT Rules 89bis and 89ter, and in accordance with Part 7 of the PCT Administrative Instructions, where an international application contains disclosure of one or more nucleotide and/or amino acid sequence listings, CIPO, in its role as a receiving Office, accepts that the sequence listing part of the description and/or any table related to the sequence listing(s) be filed, at the option of the applicant:

i. only on an electronic medium in electronic form in accordance with section 702 of Part 7 of the PCT Administrative Instructions; or
ii. both on an electronic medium in electronic form and on paper in accordance with section 702 of Part 7 of the PCT Administrative Instructions;

provided that the other elements of the international application are filed as otherwise provided for under the PCT.

The sequence listing part of an international application filed in electronic form and related tables filed in electronic form shall comply with the relevant provisions of Annex C and C-bis of the PCT Administrative Instructions respectively.

For this purpose the Canadian receiving Office will accept any electronic media specified in Annex F of the PCT Administrative Instructions. Where both the sequence listing and the tables are filed in electronic form, the listing and the tables shall be contained on separate electronic media, which shall contain no other programs or files.

For the purpose of processing the international application, the Canadian receiving Office requires two (2) additional copies of

Le Canada comme office récepteur au titre du PCT : Dépôt électronique des listages de séquences

Conformément aux Règles 89bis et 89ter du PCT et à la Partie 7 des Instructions administratives du PCT, lorsqu'une demande internationale contient la divulgation d'un ou de plusieurs listages des séquences de nucléotides et/ou d'acides aminés, à titre d'office récepteur l'OPIC accepte le dépôt de la partie de la description contenant les listages des séquences et/ou de tout tableau relatif aux listages des séquences et ce, à la discrétion du requérant :

i. seulement sous forme électronique et sur support électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT, ou

ii. sur support papier et sur support électronique sous forme électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT,

à condition que les autres éléments de la demande internationale soient déposés conformément aux dispositions du PCT.

Dans une demande internationale déposée sous forme électronique, la partie qui contient le listage des séquences et les tableaux connexes seront conformes aux dispositions pertinentes de l'Annexe C et de l'Annexe C-bis des Instructions administratives du PCT, respectivement.

À cette fin, l'office récepteur canadien acceptera tout support électronique prévu à l'Annexe F des Instructions administratives du PCT. Lorsque le listage des séquences et les tableaux sont déposés sous forme électronique, ils le seront sur des supports électroniques distincts ne contenant pas d'autres programmes ni fichiers.

the electronic media containing the sequence listing and/or tables in electronic form, accompanied by a statement that the sequence listings and/or tables contained in the copies are identical to those in electronic form as filed.

For further details concerning the filing of sequence listings and/or tables in electronic form, including the labeling of the electronic media and the calculation of the international filing fee, refer to section 7 of the PCT Administrative Instructions.

Aux fins du traitement de la demande internationale, l'office récepteur canadien exige deux (2) copies supplémentaires du support électronique contenant le listage de séquences et/ou les tableaux sous forme électronique, accompagnées d'une déclaration indiquant que le listage des séquences et/ou les tableaux contenus dans les copies sont identiques à ceux qui ont été déposés sous forme électronique.

On trouvera à l'article 7 des Instructions administratives du PCT des détails supplémentaires sur le dépôt de listages des séquences et/ou de tableaux sous forme électronique, notamment sur l'étiquetage des supports électroniques et le calcul de la taxe de dépôt internationale.

Electronic Media accepted by the Patent Office

The Patent Office will accept 3.5 inch diskette, CD-ROM, CD-R, DVD, DVD-R and any format as specified in Annex F of the PCT Administration Instructions.

Trademarks and Industrial Design

The Office of the Registrar of Trademarks and the Industrial Design Office will accept the following types of electronic media: CD-ROM, CD-R, DVD, DVD-R, and USB stick.

Supports électroniques acceptés par le Bureau des brevets

Le Bureau de brevets acceptera des disquettes 3,5 pouces, CD-ROM, CD-R, DVD, DVD-R et tout format spécifié à l'Annexe F des Instructions administratives du PCT.

Marques de commerce et dessins industriels

Le Bureau du registraire des marques de commerce et le Bureau des dessins industriels acceptent les supports électroniques suivants : CD ROM, CD-R, DVD, DVD-R, et clé USB.

3. Details Concerning the Electronic Formats Accepted

Patents

In accordance with section 8.1 of the Patent Act, and for the purposes of subsections 5(6), 54(5), and 68(3) of the Patent Rules, the acceptable file formats for documents submitted electronically site using the relevant links set out in section 2.2 of these correspondence procedures or on electronic media are TIFF and PDF. In order to get a correspondence date, the office will accept documents initially filed in other formats provided they are viewable with the software "Stellent Quick View Plus 8.0.0". In these cases, the office will request the documents to be replaced by documents in PDF or TIFF and the submission of a statement to the effect that the replacement documents are the same as the documents initially filed.

Sequence listings can be initially provided in TIFF, PDF or in ASCII file formats. However, as a completion requirement according to section 94 of the Patent Rules, a sequence listing in the ASCII format compliant with the "PCT sequence listing standard" has to be submitted. Therefore, CIPO encourages applicants to submit the sequence listings in the ASCII format in the first place.

When applicable, the Patent Office will accept files in the

3. Précisions concernant les formats électroniques acceptés

Brevets

Conformément à l'article 8.1 de la Loi sur les brevets et aux fins des paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, les formats de fichiers acceptables pour les documents présentés par voie électronique en utilisant les liens spécifiés à l'article 2.2 des présentes procédures de correspondance ou sur support électronique sont les formats TIFF et PDF. Pour qu'une date de correspondance soit attribuée, le Bureau acceptera des documents initialement déposés dans d'autres formats à condition qu'ils soient consultables à l'aide du logiciel « Stellent Quick View Plus 8.0.0 ». Dans de tels cas, le Bureau exigera le remplacement des documents par des fichiers en format PDF ou TIFF, ainsi qu'une déclaration indiquant que ces fichiers sont identiques aux documents initialement déposés.

Les listages des séquences peuvent être initialement déposés sous forme de fichiers TIFF, PDF ou ASCII. Toutefois, afin de compléter la demande, conformément à l'article 94 des Règles sur les brevets, un listage des séquences en format ASCII conforme à la Norme PCT de listage des séquences devra être présenté. L'OPIC encourage donc les demandeurs à déposer les listages de séquences en format ASCII dès le départ.

TIFF, PDF and ASCII format when they comply with the following specifications:

TIFF Format:

- TIFF CCITT Group 4, single or multi-page, black and white;
- Resolution of either 300 or 400 dpi;
- The dimensions of the scanned/stored images should match that of the paper requirements, namely 8 ½" by 11" or A4.

PDF Format:

- Adobe Portable Document Format Version 1.4 compatible;
- Non-compressed text to facilitate searching;
- Unencrypted text;
- No embedded OLE objects;
- All fonts must be embedded and licensed for distribution.

ASCII

- Shall be encoded using IBM Code Page 437, IBM Code Page 932 or a compatible code page.

Le cas échéant, le Bureau des brevets acceptera des fichiers en format TIFF, PDF et ASCII s'ils sont conformes aux spécifications suivantes :

Format TIFF

- TIFF CCITT Groupe 4, une ou plusieurs pages, noir et blanc
- Résolution : 300 ou 400 ppp
- Les dimensions des images balayées par scanner ou mémorisées doivent être compatibles avec celles qui sont requises pour les papiers, soit 8 1/2 po par 11 po ou A4.

Format PDF

- Compatible avec Adobe Portable Document Format Version 1.4
- Texte non comprimé, pour faciliter la recherche
- Texte non chiffré
- Pas d'objets OLE incorporés
- Toutes les polices de caractère doivent être incorporées et leur distribution doit être autorisée.

ASCII

- Le texte sera encodé à l'aide des pages de codes IBM 437 ou IBM 932 ou d'une page de codes compatible.

Trademarks

For the purposes of subsection 64(1) of the Trademarks Act, the acceptable file formats for documents submitted electronically using the relevant links set out in section 2.2 of these correspondence procedures are: PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP and Doc.

Industrial Design

For the purposes of subsection 24.1(1) of the Industrial Design Act, the acceptable file formats for documents, other than a representation of a design, submitted electronically are WPD, DOC, DOCX and PDF. The acceptable file formats for the representation of a design are PDF, JPEG, TIFF and GIF. The file size limit is of 60MB for PDF, 10MB for the other file formats. The scanned/stored images should be of a resolution of at least 300 dpi and the dimensions must be of 21.59 cm by 27.94 cm (8.5 in by 11 in).

Note that the conversion of files to an acceptable format may result in a change to the quality of the drawings.

Marques de commerce

Pour l’application du paragraphe 64(1) de la Loi sur les marques de commerce, les formats de fichiers acceptables pour les documents fournis par un moyen électronique énoncé à la section 2.2 des présentes procédures de correspondance sont : PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP et Doc.

Dessins industriels

Pour l’application du paragraphe 24.1(1) de la Loi sur les dessins industriels, les formats de fichiers acceptables pour les documents autres que la représentation d’un dessin, transmis par voie électronique sont : WPD, DOC, DOCX, PDF. Les formats de fichiers acceptables pour la représentation d’un dessin sont PDF, JPEG, TIFF, et GIF. La taille maximale est de 60MB pour le format PDF et de 10MB pour tout autre format. L’image numérisée/stockée devrait être dans une résolution d’au moins 300 dpi et les dimensions doivent être de 21,59 cm par 27,94 cm (8,5 po par 11po)

Veuillez noter que la conversion de fichiers vers un format acceptable pourrait résulter en un changement à la qualité des dessins.

4. General Information

General information may be obtained by communicating with CIPO's Client Service Centre.

4. Renseignements généraux

Des renseignements généraux peuvent être obtenus en communiquant avec le Centre de services à la clientèle de l'OPIC.

5. Time Period Extensions

- Time period extensions under the Patent, Trademarks and Industrial Design Acts
- Time period extensions under the Copyright and Integrated Circuit Topography Acts
- Time period extensions under the Patent Cooperation Treaty
- Time period extensions under the Madrid Protocol and the Hague Agreement

5. Prorogation des délais

- Prorogation des délais en vertu des les Lois sur les brevets, les marques de commerce, et les dessins industriels
- Prorogation des délais en vertu des les Lois sur le droit d'auteur et les topographies de circuits intégrés
- Prorogation des délais en vertu du le Traité de coopération en matière de brevets
- Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye

Time period extensions under the Patent, Trademarks and Industrial Design Acts

For the purposes of subsection 78(1) of the Patent Act, subsection 66(1) of the Trademarks Act, and subsection 21(1) of the Industrial Design Act, any time period fixed under those Acts and ending on 1) a **prescribed day** set out in the list below or 2) a **designated day** on account of unforeseen circumstances, will be extended to the next day that is not a prescribed day or a designated day and where CIPO is open to the public.

Designated days are those days that are designated by the Commissioner, the Registrar, or the Minister, on account of unforeseen circumstances and if they are satisfied that it is in the public interest to do so. If a day is designated, the public will be informed of that fact on CIPO's website.

Prescribed days under the Patent Act, Trademarks Act and Industrial Design Act are as follows:

- Every Saturday and Sunday;
- New Year's Day (January 1)*;
- Good Friday;
- Easter Monday;
- Victoria Day: First Monday immediately preceding May 25;
- St. Jean Baptiste Day (June 24)*;
- Canada Day (July 1)*;
- The first Monday in August;***
- Labour Day: First Monday in September;
- Thanksgiving Day: Second Monday in October;

Prorogation des délais prévus par les Lois sur les brevets, les marques de commerce, et les dessins industriels

Pour l'application du paragraphe 78(1) de la Loi sur les brevets, du paragraphe 66(1) de la Loi sur les marques de commerce, et du paragraphe 21(1) de la Loi sur les dessins industriels, tout délai fixé sous le régime de ces lois et qui expire 1) un **jour prescrit ou règlementaire** tel qu'indiqué dans la liste ci-dessous, ou 2) un **jour désigné** en raison de circonstances imprévues, sera prorogé jusqu'au jour suivant qui n'est ni un jour prescrit ni un jour désigné et où l'OPIC est ouvert au public.

Les **jours désignés** sont les jours désignés par le commissaire, le registraire, ou le ministre, où, en raison de circonstances imprévues, s'il est dans l'intérêt public de le faire. Si un jour est désigné, le public en sera informé sur le site web de l'OPIC.

Les **jours prescrits ou règlementaires** en vertu de la Loi sur les brevets, de la Loi sur les marques de commerce et de la Loi sur les dessins industriels sont les suivants :

- Tous les samedis et dimanches;
- Nouvel An (1er janvier)*;
- Vendredi Saint;
- Lundi de Pâques;
- Fête de la Reine ou Journée nationale des patriotes : Premier lundi immédiatement avant le 25 mai;
- Saint-Jean-Baptiste (24 juin)*;
- Fête du Canada (1er juillet)*;
- Le premier lundi du mois d'août***;
- Fête du travail : Premier lundi du mois de septembre;

- Remembrance Day (November 11)*;
- Christmas Day (December 25)**;
- Boxing Day (December 26)** ;
- Any day on which CIPO is closed to the public for all or part of that day during ordinary business hours.

*In the case of New Year's Day, St. Jean Baptiste Day, Canada Day and Remembrance Day, if the day falls on a Saturday or Sunday, deadlines will be extended to the following Tuesday.

**If December 25 falls on a Friday, deadlines will be extended to the following Tuesday. If December 25 falls on a Saturday or Sunday, any time periods ending on December 25 or December 26 will be extended to the following Wednesday.

***Please note that the Office is open to the public on the first Monday in August. Any time period which expires on that day will be extended to the next day the Office is open to the public (first Tuesday in August). However, any correspondence or fees submitted to the Office on that day will be deemed or considered received on that day.

Extensions for prescribed days occur regardless of place of residence or of the establishment to which documents are delivered.

Please be aware that not all provincial and territorial holidays are days where deadlines are extended. It is recommended that clients be mindful and ensure that all deadlines are respected.

- Action de Grâce : Deuxième lundi du mois d'octobre;
- Jour du Souvenir (11 novembre)*;
- Jour de Noël (25 décembre)**;
- Lendemain de Noël** ;
- Tout jour où l'OPIC est fermé au public pendant tout ou une partie des heures normales d'ouverture de l'OPIC au public.

*Si le Nouvel An, la Saint-Jean-Baptiste, la Fête du Canada, ou le Jour du Souvenir est un samedi ou un dimanche, les délais seront prorogés au mardi suivant.

**Si le 25 décembre est un vendredi, les délais seront prorogés au mardi suivant. Si le 25 décembre est un samedi ou un dimanche, les délais seront prorogés au mercredi suivant.

***Veuillez noter que les Bureaux sont ouverts au public le premier lundi du mois d'août. Tout délai qui expire ce jour-là sera prorogé au prochain jour ouvrable (premier mardi du mois d'août). Cependant, toute correspondance, droits ou taxes fournis au Bureau ce jour-là seront réputés ou considéré avoir été reçus à cette date.

La prorogation de délai concernant les jours prescrits ou règlementaires s'appliquent nonobstant du lieu de résidence ou du lieu de l'établissement auquel les documents ont été remis.

Veuillez noter que ce ne sont pas tous les jours fériés provinciaux ou territoriaux qui sont des jours prescrits ou règlementaires pour lesquels un délai peut être prorogé. Il est recommandé que les clients soient attentifs et s'assurent que tout délai soit respecté.

Time period extensions under the Copyright and Integrated Circuit Topography Acts

In accordance with section 26 of the Interpretation Act, any person choosing to deliver a document to CIPO or a designated establishment (including the Registered Mail™ and Xpresspost™ services of Canada Post) where a federal, provincial or territorial holiday exists, is entitled to an extension of any time limit for the filing of the document that expires on the holiday, until the next day that is not a holiday. It is to be noted, in respect of provincial and territorial holidays, that the entitlement to the extension is dependent on the establishment to which the document is delivered and not on the place of residence of the person for whom the document is filed or of their agent. For this purpose, documents transmitted to CIPO by electronic means, including by facsimile, would be considered to be delivered to CIPO's offices in Gatineau, Quebec.

CIPO has no practical way of keeping track of the establishment to which documents are delivered. Accordingly,

Prorogation des délais prévus par les Lois sur le droit d'auteur et sur les topographies de circuits

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé℠, ou par Xpresspost℠ de Postes Canada) dans une province où il y a un jour férié fédéral, provincial ou territorial, tout délai fixé pour le dépôt du document, qui expire un jour férié peut être prorogé jusqu'au jour non férié suivant. Dans le cas d'un jour férié provincial ou territorial, il convient de souligner que le droit à la prorogation dépend de l'établissement auquel le document est livré et non du lieu de résidence de la personne pour laquelle le document est déposé ou de son agent. À cet égard, les documents envoyés à l'OPIC par un moyen électronique, y compris par télécopieur, sont réputés être livrés aux bureaux de l'OPIC à Gatineau, au Québec.

En pratique, l'OPIC n'a aucun moyen de faire le suivi relativement aux établissements auxquels des documents sont

where a person has a time limit for the filing of a document that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. In such circumstances, it will be the responsibility of the person filing the document to ensure that he or she is properly entitled to any needed extension of the time limit.

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day:

i. on which such Office or organization is not open to the public for the purposes of the transaction of official business;

ii. on which ordinary mail is not delivered in the locality in which such Office or organization is situated;

iii. which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or

iv. which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;

the period shall expire on the next subsequent day on which none of the said four circumstances exists.

Time period extensions under the Madrid Protocol and the Hague Agreement

If a period within which a communication must be received by the International Bureau of the World Intellectual Property Office would expire on a day on which the International

livrés. Par conséquent, si le délai pour le dépôt d'un document tombe un jour férié provincial ou territorial et qu'une personne le livre seulement le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement qui justifierait une prorogation du délai. Dans de telles circonstances, il incombe au déposant de s'assurer qu'il a droit à une telle prorogation.

Prolongations de délais prévus au Traité de coopération en matière de brevets

La règle 80.5 du Règlement d'exécution du PCT prévoit ce qui suit :

Si un délai quelconque pendant lequel un document ou une taxe doit parvenir à un office national ou à une organisation intergouvernementale expire un jour :

i. où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;

ii. où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;

iii. qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou

iv. qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant;

Le délai prend fin le premier jour suivant auquel aucune de ces quatre circonstances n'existe plus.

Prorogation des délais en vertu du Protocole de Madrid et de l’Arrangement de La Haye

Si un délai à l’intérieur duquel une communication doit être reçue par le Bureau international de l’Organisation mondiale de propriété intellectuelle expire un jour où le Bureau international n’est pas ouvert au public, le délai expirera lors du

Bureau is not open to the public, it will expire on the next subsequent day on which the International Bureau is open. Likewise, if the period within which a communication (such as a notification of refusal of protection) must be sent by CIPO to the International Bureau would expire on a day on which CIPO is not open to the public, it will expire on the next subsequent day on which CIPO is open.

A list of the days on which the International Bureau is closed to the public during the current and the following calendar year is available on the WIPO website.

premier jour suivant où le Bureau international est ouvert au public. Similairement, si un délai à l'intérieur duquel une communication (tel qu'une notification de refus de la protection) doit être envoyée par l'OPIC au Bureau international expire un jour où les bureaux de l'OPIC sont fermés au public, ce délai expirera lors du premier jour suivant la réouverture de l'OPIC.

Une liste des jours pendant lesquels le Bureau international est fermé au public pendant l'année civile en cours et à venir est disponible sur le site web de l'OMPI.

6. Procedures in Case of an Unexpected Office Closure at CIPO

In case of unforeseen circumstances, CIPO will attempt to remain open to the public and ensure that essential service to our clients continues with the least possible disruption or delay.

In accordance with paragraph 27.01(n) of the Patent Rules, paragraph 15(n) of the Trademarks Regulations and paragraph 36(n) of the Industrial Design Regulations, whenever CIPO is closed to the public, for all or part of a day during ordinary business hours, including closures due to extraordinary circumstances, time periods will be extended to the next day that is not a prescribed or a designated day and where CIPO is open to the public.

For Copyright and Integrated Circuit Topography, if CIPO is closed to the public due to extraordinary circumstances, CIPO considers all time limits to be extended until the next day that it is open to the public. In such situations, mail delivered to CIPO or to designated establishments will be considered to be received on the date that CIPO re-opens to the public, with the exception of correspondence addressed to the Registrar of Topographies.

In view of the date-sensitive nature of intellectual property (IP), clients are advised to address important deadlines ahead of time to minimize the risk of affecting their IP rights. For the purposes of such deadlines, unless otherwise notified, clients should assume that all due dates remain in effect.

When possible during an emergency, information and search systems will continue to be available on our website; however, services provided through the Client Service Centre and other support areas within CIPO may be temporarily unavailable. Should an emergency occur, CIPO will post information with respect to service interruptions on our website as it becomes available and as circumstances permit.

Clients are **strongly encouraged** to send date-sensitive material through Canada Post by Registered Mail™ or Xpresspost™ or to use electronic means using the relevant links set out in section 2.2 of these correspondence procedures. Documents may continue to be faxed to CIPO at 819-953-CIPO (953-2476). Date-sensitive material requiring fee

6. Procédures en cas de fermeture des bureaux

Lors de circonstances imprévues, l'OPIC s'efforcera de demeurer ouvert au public et d'assurer un service essentiel à ses clients, et ce, avec le moins d'interruption ou de retard possible.

Conformément à l'alinéa 27.01n) des Règles sur les Brevets, l'alinéa 15n) du Règlement sur les marques de commerce et de l'alinéa 36n) du Règlement sur les dessins industriels, lorsque les bureaux de l'OPIC sont fermés au public pendant toute ou une partie des heures normales d'ouverture, y compris une fermeture en raison de circonstances extraordinaires, les délais seront prorogés au jour suivant qui ne sera pas un jour prescrit ou un jour désigné et où l'OPIC est ouvert au public .

Pour les droits d'auteur et les topographies de circuits intégrés, si les bureaux de l'OPIC sont fermés au public en raison de circonstances extraordinaires, l'OPIC considère que tous les délais sont prorogés au prochain jour d'ouverture au public. Dans de telles circonstances, le courrier livré à l'OPIC ou à des établissements désignés sera considéré avoir été reçu à la date du jour de la réouverture de l'OPIC au public, à l'exception de la correspondance adressée au registraire des topographies.

Étant donné **l'importance que revêtent les délais** en matière de propriété intellectuelle (PI), il est recommandé aux clients de minimiser les risques pouvant nuire à leurs droits en matière de PI en tenant compte à l'avance des dates limites importantes. En ce qui a trait aux délais prescrits, les clients doivent respecter toutes les dates d'échéance, à moins d'avis contraire.

En situation d'urgence, les systèmes d'information et de recherche resteront, dans la mesure du possible, accessibles à partir de notre site Web. Toutefois, les services fournis par le Centre de services à la clientèle et les autres services de soutien de l'OPIC pourraient temporairement ne pas être offerts. En situation d'urgence, l'OPIC va publier les renseignements nécessaires sur notre page d'interruptions des services, lorsque ceux-ci seront disponibles et les circonstances le permettront.

Les clients sont **fortement encouragés** de faire parvenir les documents assujettis à des délais précis par Postes Canada par Courrier recommandé[MC], par Xpresspost[MC] ou par voie électronique en utilisant les liens spécifiés à l'article 2.2 des présentes procédures de correspondance. Il est toujours

payment that is sent by fax must be accompanied by a VISA™, MasterCard™, or American Express™ credit card number, or CIPO deposit account number.

Please note that there may also be instances in which the designated offices may be temporarily closed, yet CIPO remains open to the public. In such situations, it remains **the responsibility of CIPO's clients** to ensure that all deadlines are respected.

possible de transmettre par télécopieur des documents à l'OPIC en composant le 819-953-OPIC (953-6742). Cependant, les documents assujettis à des délais pour lesquels des droits ou taxes sont exigés, qui sont envoyés par télécopieur, doivent être accompagnés d'un numéro de carte VISA[MC], Mastercard[MC] ou American Express[MC] ou d'un numéro de compte de dépôt à l'OPIC.

Veuillez noter qu'il pourrait y avoir des cas où les bureaux régionaux seraient fermés temporairement, mais où l'OPIC resterait ouvert au public. Le cas échéant, **les clients de l'OPIC demeurent responsables** du respect de tous les échéanciers.

7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office

Patents, Industrial Design, Copyright and Integrated Circuit Topography

The legislative framework in relation with the abovementioned types of intellectual property does not provide CIPO with the flexibility to extend deadlines when it is open to the public but clients are unable to communicate with the Office.

In these situations it remains the responsibility of clients to ensure that all deadlines are respected.

Trademarks

The Trademarks Act and Regulations allow clients to request a retroactive extension of time when a due date has been missed due to a force majeure type situation. In order for a retroactive extension of time to be granted, the Registrar of Trademarks must be satisfied that the failure to do the act or apply for an extension of time before the original due date was not reasonably avoidable. A prescribed fee is required in certain cases.

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office

Brevets, dessins industriels, droit d'auteur et topographies de circuits intégrés

Le cadre législatif en rapport aux types de propriété intellectuelle mentionnés ci-haut ne donne pas à l'OPIC la flexibilité de proroger les délais lorsque l'Office est ouvert au public, mais les clients sont dans l'impossibilité de communiquer avec le l'Office.

Dans une telle situation, les clients demeurent tenus de veiller à ce que les échéances soient respectées.

Marques de commerce

La Loi sur les marques de commerce et le Règlement sur les marques de commerce permettent aux clients de demander une prolongation rétroactive lorsqu'un délai n'a pas été respecté en raison d'un cas de force majeure. Pour qu'une prolongation de délai rétroactive soit accordée, le registraire des marques de commerce doit être convaincu que l'omission d'accomplir l'acte ou de demander la prorogation avant la date initiale d'échéance n'était pas raisonnablement évitable. Un droit prescrit est exigé dans certains cas.

8. Intellectual property acts, rules and regulations

- Copyright Act
- Copyright Regulations
- Industrial Design Act
- Industrial Design Regulations
- Integrated Circuit Topography Act
- Integrated Circuit Topography Regulations
- Interpretation Act
- Patent Act

8. Lois, règles et règlements sur la propriété intellectuelle

- Loi sur le droit d'auteur
- Règlement sur le droit d'auteur
- Loi sur les dessins industriels
- Règlement sur les dessins industriels
- Loi sur les topographies de circuits intégrés
- Règlement sur les topographies de circuits intégrés
- Loi d'interprétation
- Loi sur les brevets
- Règles sur les brevets

- Patent Rules
- Regulations under the PCT
- Trademarks Act
- Trademarks Regulations

- Règlement d'exécution du PCT
- Loi sur les marques de commerce
- Règlement sur les marques de commerce

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of July 2, 2024 contains applications open to public inspection from June 16, 2024 to June 22, 2024.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 2 juillet 2024 contient les demandes disponibles au public pour consultation pour la période du 16 juin 2024 au 22 juin 2024.

Canadian Patents Issued

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[54] **COMPOSITIONS COMPRENANT AU MOINS UNE FLAVONE POLYMETHOXYLEE, UN FLAVONOIDE, UNE LIMINOIDE ET/OU UN TOCOTRIENOL UTILES DANS LES POLYTHERAPIES POUR LE TRAITEMENT DU DIABETE**
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[54] **PROSTATE CANCER BIOMARKERS**
[54] **BIOMARQUEURS DU CANCER DE LA PROSTATE**
[72] PENNINGTON, STEPHEN, IE
[72] MURPHY, BRENDAN, IE
[72] WATSON, WILLIAM, IE
[73] UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN, IE
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[54] **VEGETABLE OIL EXTRACTION IMPROVEMENT**
[54] **AMELIORATION DE L'EXTRACTION D'HUILE VEGETALE**
[72] KELLENS, MARC, BE
[72] LE CLEF, ETIENNE, BE
[72] KEMPER, TIMOTHY G., US
[73] DESMET BELGIUM S.A./N.V., BE
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[54] **AN IMPROVED FETAL HEMOGLOBIN FOR GENETIC CORRECTION OF SICKLE CELL DISEASE**
[54] **HEMOGLOBINE FOETALE AMELIOREE POUR LA CORRECTION GENETIQUE DE LA DREPANOCYTOSE**
[72] MALIK, PUNAM, US
[73] CHILDREN'S HOSPITAL MEDICAL CENTER, US
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[54] **SHOCK STRUT FLUID ADJUSTMENT ASSISTING SYSTEM**
[54] **MECANISME D'ASSISTANCE AU REGLAGE DU LIQUIDE D'UN AMORTISSEUR**
[72] FAZELI, AMIR, CA
[72] CEPIC, ADNAN, CA
[72] REBER, SUSANNE, US
[73] GOODRICH CORPORATION, US
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[87] (2940482)
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[54] **MODULE DE FERMETURE MOBILE**
[72] BOYD, MARK J., US
[72] THIBODEAUX, RICHARD A., US
[73] COMMANDO PRESSURE CONTROL LLC, US
[86] (2946837)
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[54] **ARTICULATED MINE DOOR OPENING MECHANISM**
[54] **MECANISME D'OUVERTURE DE PORTE DE MINE ARTICULE**
[72] KENNEDY, WILLIAM R., US
[72] KENNEDY, JOHN M., US
[73] JACK KENNEDY METAL PRODUCTS & BUILDINGS, INC., US
[86] (2947582)
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[54] **ANTISENSE OLIGONUCLEOTIDES FOR THE TREATMENT OF USHER SYNDROME TYPE 2**
[54] **OLIGONUCLEOTIDES ANTISENS POUR LE TRAITEMENT DU SYNDROME DE USHER DE TYPE 2**
[72] VAN WYK, ERWIN HENDRIKUS ANTONIUS RUDOLFUS, NL
[73] STICHTING RADBOUD UNIVERSITAIR MEDISCH CENTRUM, NL
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[54] **LIQUID MEASUREMENT SYSTEMS, APPARATUS, AND METHODS OPTIMIZED WITH TEMPERATURE SENSING**
[54] **SYSTEMES, APPAREIL ET PROCEDES DE MESURES DE LIQUIDE OPTIMISES AVEC DETECTION DE TEMPERATURE**
[72] WHITE, JAMES, US
[72] WHALLEY, RICHARD, US
[72] SIHLANICK, KEVIN, US
[72] LEGRAND, MATTHEW, US
[73] BIGFOOT BIOMEDICAL, INC., US
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[54] **A SYSTEM AND METHOD FOR MODELLING SYSTEM BEHAVIOUR**
[54] **SYSTEME ET PROCEDE POUR MODELISER UN COMPORTEMENT DE SYSTEME**
[72] GREENWOOD, NIGEL JOHN CONRAD, AU
[73] EVOLVING MACHINE INTELLIGENCE PTY LTD, AU
[85] 2016-12-22
[86] 2015-06-29 (PCT/AU2015/050362)
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[54] **DEXTRAN CONJUGATES FOR TARGETING MACROPHAGES AND OTHER MANNOSE BINDING C-TYPE LECTIN RECEPTOR EXPRESSING CELLS**
[54] **CONJUGUES DE DEXTRANE POUR CIBLER LES MACROPHAGES ET D'AUTRES CELLULES EXPRIMANT LE RECEPTEUR DE LECTINE DE TYPE C LIANT LE D-MANBOSE**
[72] SCHLESINGER, LARRY, US
[72] BACHELDER, ERIC, US
[72] COPE, FRED, US
[72] JARJOUR, WAEL N., US
[73] OHIO STATE INNOVATION FOUNDATION, US
[73] CARDINAL HEALTH 414, LLC, US
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[54] **DETECTEUR DE PARTICULES ELECTROSTATIQUES**
[72] WEICKERT, JOHN DAVID, US
[72] KESSIE, ANDREW SCOTT, US
[72] SMITH, PHILIP T., US
[72] RICKARDS, CHARLES, US
[72] NOEL, JAMES R., US
[72] GRIFFIN, GREGORY, US
[72] BROWN, JOSHUA DANIEL, US
[73] GENERAL ELECTRIC COMPANY, US
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[54] **SOYBEAN CULTIVAR AR1102956**
[54] **CULTIVAR DE SOYA AR1102956**
[72] MCCLURE, DONALD BRUCE, CA
[72] LEE, DAVID SCOTT, CA
[73] SYNGENTA PARTICIPATIONS AG, CH
[86] (2955853)
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[25] EN
[54] **APPARATUS FOR ATTACHING A WALKER TO A WHEELCHAIR**
[54] **APPAREIL DE FIXATION D'UN DEAMBULATEUR A UN FAUTEUIL ROULANT**
[72] BORDENAVE, DANIEL, CA
[73] BORDENAVE, DANIEL, CA
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[87] (2955888)
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[25] EN
[54] **MULTIPLE-LASER LIGHT SOURCE**
[54] **SOURCE DE LUMIERE A LASERS MULTIPLES**
[72] MINOR, JOHANNES, CA
[72] DAMBERG, GERWIN, CA
[72] KUMARAN, RAVEEN, CA
[72] BALLESTAD, ANDERS, CA
[72] KOZAK, ERIC JAN, CA
[72] ROSENFELD, GIL, CA
[72] ELIZUR, ERAN, CA
[73] MTT INNOVATION INCORPORATED, CA
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[54] **SYSTEM AND METHOD FOR EVALUATING JOINT COMPOUND SPECIMEN**
[54] **SYSTEME ET METHODE D'EVALUATION D'UN ECHANTILLON DE COMPOSE A JOINT**
[72] PELOT, DAVID D., US
[72] STEVENS, RICHARD B., US
[73] UNITED STATES GYPSUM COMPANY, US
[86] (2957142)
[87] (2957142)
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[54] **PLAQUE DE VERROU CONFIGUREE POUR RETENIR UN PATIN D'USURE**
[72] CORTESE, DONALD G., US
[73] CATERPILLAR GLOBAL MINING LLC, US
[86] (2958038)
[87] (2958038)
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[25] EN
[54] **COMPACT MULTIFUNCTIONAL BATTERY BOOSTER**
[54] **BLOC D'ALIMENTATION MULTIFONCTIONNEL COMPACT POUR DEMARRAGE DE SECOURS**
[72] BUTLER, BRIAN F., US
[72] NGUYEN, LINH, US
[72] CLARKE, PATRICK, US
[72] ZHU, SHENZHONG, US
[72] CHEN, XIAO, US
[73] SCHUMACHER ELECTRIC CORPORATION, US
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[25] EN
[54] **MULTIPLE CORE TRANSFORMER ASSEMBLY**
[54] **TRANSFORMATEUR A NOYAU MULTIPLE**
[72] JANSEN, RONALD, US
[72] KAMOR, MICHAEL, US
[72] OSTROVSKY, MICHAEL, US
[72] LOMBARDI, ALFRED J., US
[73] LEVITON MANUFACTURING CO., INC., US
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[54] **MULTICAST SWITCHING SYSTEM**
[54] **MECANISME DE COMMUTATEUR MULTIBLOC**
[72] SHIMIZU, TAKESHI, JP
[72] NAKAMURA, KAZUNORI, JP
[73] MEDIA GLOBAL LINKS CO., LTD., JP
[86] (2958191)
[87] (2958191)
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[54] **INHALABLE POWDER FORMULATIONS OF ALGINATE OLIGOMERS**
[54] **FORMULATIONS DE POUDRE INHALABLE D'OLIGOMERES D'ALGINATE**
[72] NYAMBURA, BILDAD, GB
[72] BAKLE, ANAND, GB
[72] DESSEN, ARNE, NO
[73] ALGIPHARMA AS, NO
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[86] 2015-08-28 (PCT/EP2015/069785)
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[54] **SYSTEMS AND METHODS FOR IMAGING AND MANIPULATING TISSUE**
[54] **SYSTEMES ET PROCEDES D'IMAGERIE ET DE MANIPULATION DE TISSU**
[72] FELDMAN, MARC, D., US
[72] MILNER, THOMAS E., US
[73] RESEARCH DEVELOPMENT FOUNDATION, US
[85] 2017-03-02
[86] 2015-09-11 (PCT/US2015/049666)
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[54] **SYSTEM AND METHOD FOR METERING GAS**
[54] **SYSTEME ET METHODE DE DOSAGE DE GAZ**
[72] CHEN, CHENG-PO, US
[72] CHEN, NANNAN, US
[72] WANG, MENGLI, US
[73] NATURAL GAS SOLUTIONS NORTH AMERICA, LLC, US
[86] (2960969)
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[51] **Int.Cl. A61G 3/08 (2006.01) B60P 7/08 (2006.01)**
[25] EN
[54] **SECURING SYSTEM FOR WHEELCHAIRS IN VEHICLES AND A METHOD FOR UNLOCKING AND LOCKING A SECURING SYSTEM FOR WHEELCHAIRS IN VEHICLES**
[54] **SYSTEME D'ARRIMAGE DE FAUTEUILS ROULANTS DANS DES VEHICULES ET PROCEDE DE DEBLOCAGE ET BLOCAGE D'UN SYSTEME D'ARRIMAGE POUR FAUTEUILS ROULANTS DANS DES VEHICULES**
[72] DE BIJL, SJOERD HENDRIK, NL
[72] QUIRIJNEN, XANDO HENRICUS PETRUS, NL
[72] SCHOUTEN, MARCEL JOHANNES HENDRIKUS, NL
[73] CARBOUW B.V., NL
[85] 2017-03-23
[86] 2015-09-25 (PCT/NL2015/050669)
[87] (WO2016/048154)
[30] NL (2013527) 2014-09-26

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[51] **Int.Cl. H01H 71/00 (2006.01) H01H 83/00 (2006.01)**
[25] EN
[54] **CIRCUIT BREAKERS WITH SHAPED NEUTRAL BUSBARS AND/OR LOAD TERMINALS AND RELATED METHODS**
[54] **COUPE-CIRCUITS A JEU DE BARRES NEUTRE FORME OU BORNES DE CHARGE ET METHODES ASSOCIEES**
[72] HIREMATH, SOMASHEKHARAYYA, US
[72] JIMENEZ, SANDY OMAR, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[86] (2962995)
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[22] 2017-03-31
[30] US (15/133,676) 2016-04-20

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[51] **Int.Cl. C08L 23/08 (2006.01) C08J 5/18 (2006.01) C08L 23/06 (2006.01)**
[25] EN
[54] **MULTI REACTOR SOLUTION POLYMERIZATION, POLYETHYLENE AND POLYETHYLENE FILM**
[54] **POLYMERISATION DE SOLUTION MULTIREACTEUR, POLYETHYLENE ET FILM DE POLYETHYLENE**
[72] WANG, XIAOCHUAN, CA
[72] KAZEMI, NIOUSHA, CA
[72] BROWN, STEPHEN, CA
[72] VANASSELDONK, LAWRENCE, CA
[72] SALOMONS, STEPHEN, CA
[73] NOVA CHEMICALS CORPORATION, CA
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[51] **Int.Cl. E21B 43/241 (2006.01) E21B 43/14 (2006.01) E21B 43/22 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **METHODS TO IMPROVE SWEEP EFFICIENCY IN IN-SITU BITUMEN RECOVERY PROCESSES**
[54] **METHODES D'AMELIORATION DE L'EFFICACITE DE BALAYAGE DANS LES PROCEDES DE RECUPERATION DE BITUME SUR PLACE**
[72] TAPANTOSH, CHAKRABARTY, CA
[73] IMPERIAL OIL RESOURCES LIMITED, CA
[86] (2965117)
[87] (2965117)
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[13] C
[51] **Int.Cl. C08J 5/24 (2006.01) C08K 7/14 (2006.01) C08L 77/04 (2006.01)**
[25] EN
[54] **MANUFACTURING THERMOPLASTIC COMPOSITES AND ARTICLES**
[54] **FABRICATION DE COMPOSITES THERMOPLASTIQUES ET D'ARTICLES**
[72] ZHANG, MINGFU, US
[72] YOHANNES, ASHEBER, US
[72] BLOCK, MICHAEL, US
[72] GLEICH, KLAUS FRIEDRICH, DE
[72] DE KOCK, DANIEL P., BE
[72] ASRAR, JAWED, BE
[73] JOHNS MANVILLE, US
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[25] EN
[54] **IMPROVED METHOD FOR DETERMINATION OF MICROORGANISMS**
[54] **PROCEDE AMELIORE POUR LA DETERMINATION DE MICRO-ORGANISMES**
[72] PARTTI-PELLINEN, KIRSI, FI
[72] RASANEN, JARI, FI
[72] HARMALA, KIELO, FI
[72] KETTUNEN, ANU, FI
[72] RIIHINEN, KALLE-JUHANI, FI
[73] STORA ENSO OYJ, FI
[85] 2017-05-02
[86] 2015-10-27 (PCT/IB2015/058278)
[87] (WO2016/071805)
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[51] **Int.Cl. A61M 16/04 (2006.01) A61M 16/00 (2006.01) A61M 25/10 (2013.01)**
[25] EN
[54] **RESPIRATORY TREATMENT APPARATUS**
[54] **APPAREIL DE TRAITEMENT RESPIRATOIRE**
[72] PURDY, F. ROBERT, CA
[73] PROVINCIAL HEALTH SERVICES AUTHORITY, CA
[86] (2966993)
[87] (2966993)
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[51] **Int.Cl. G01N 33/48 (2006.01) G01N 33/483 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **METHODS FOR DETECTION AND TREATMENT OF COLORECTAL CANCER**
[54] **PROCEDES POUR LA DETECTION ET LE TRAITEMENT D'UN CANCER COLORECTAL**
[72] IVANCIC, MELANIE MAE, US
[72] SUSSMAN, MICHAEL RICHARD, US
[72] DOVE, WILLIAM FRANKLIN, US
[72] IRVING, AMY ANN, US
[72] PLEIMAN, JENNIFER KATHLEEN, US
[72] HUTTLIN, EDWARD LEO, US
[72] CHEN, XIAODI, US
[72] HEGEMAN, ADRIAN DANIEL, US
[72] REICHELDERFER, MARK, US
[72] KENNEDY, GREGORY D., US
[72] PICKHARDT, PERRY J., US
[73] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
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[86] 2015-12-10 (PCT/US2015/065049)
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[30] US (62/090,800) 2014-12-11

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[25] EN
[54] **MOUNT DE-ACTUATED SAFETY MECHANISM**
[54] **MECANISME DE SECURITE DESACTIVE DE L'INSTALLATION**
[72] BAXENDELL, DOUG JOHN, US
[72] FRASURE, DAVID WILLIAM, US
[73] KIDDE TECHNOLOGIES, INC., US
[86] (2971034)
[87] (2971034)
[22] 2017-06-14
[30] US (15/191,917) 2016-06-24

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[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/519 (2006.01)**
[25] EN
[54] **SITE SPECIFIC DOSING OF A BTK INHIBITOR**
[54] **DOSAGE SPECIFIQUE DE SITE D'UN INHIBITEUR DE BTK**
[72] NUNN, PHILIP, US
[72] BERNER, BRET, US
[72] MASJEDIZADEH, MOHAMMAD, US
[73] PRINCIPIA BIOPHARMA INC., US
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[72] PARK, YOUNG JIN, KR
[72] LEE, JONG SUK, KR
[72] CHOI, JAE HYUK, KR
[72] LIM, CHANG KI, KR
[72] KWON, SE CHANG, KR
[73] HANMI PHARM. CO., LTD., KR
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[54] **SYSTEME DE COMMUNICATION DE TRAIN A COMPARTIMENTS SILENCIEUX**
[72] KARLSSON, MATS, SE
[73] ICOMERA AB, SE
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[54] **AMENAGEMENT D'ECLAIRAGE DESTINE AU TRAITEMENT D'IMAGE INDUSTRIEL**
[72] HUBER, MATTHIAS, DE
[73] B&R INDUSTRIAL AUTOMATION GMBH, AT
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[54] **PROTEINE CHIMERIQUE**
[72] PULE, MARTIN, GB
[72] TROWBRIDGE, RYAN, GB
[72] HODGKIN, EDWARD, GB
[73] AUTOLUS LIMITED, GB
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[54] **WIRELESS COMMUNICATION SYSTEM FOR VEHICLES USING BOTH TRACKSIDE WLAN AND CELLULAR NETWORK COMMUNICATION**
[54] **SYSTEME DE COMMUNICATION SANS FIL DESTINE A DES VEHICULES EMPLOYANT LA COMMUNICATION DE RESEAU ETENDU COTE RAIL ET DE RESEAU CELLULAIRE**
[72] KARLSSON, MATS, SE
[73] ICOMERA AB, SE
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[54] **MULTI-PHASIC INTEGRATED SUPER-INTENSIVE SHRIMP PRODUCTION SYSTEM**
[54] **SYSTEME DE PRODUCTION DE CREVETTES SUPER-INTENSIVE INTEGRE A MULTIPLES PHASES**
[72] KEMP, MAURICE, US
[72] BRAND, ANTHONY P., US
[73] ROYAL CARIDEA LLC, US
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[54] **METHOD AND APPARATUS FOR DYNAMIC TUNING**
[54] **METHODE ET APPAREIL DE SYNTONISATION DYNAMIQUE**
[72] GREENE, MATTHEW RUSSELL, US
[72] SCHLUETER, DAVID MICHAEL, US
[73] NXP USA, INC., US
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[54] **VALVE STEM AND PLUG CONNECTIONS**
[54] **TIGE DE SOUPAPE ET RACCORDS DE CLE**
[72] ALMAN, PAUL T., US
[73] FISHER CONTROLS INTERNATIONAL LLC, US
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[54] **PROCEDE DE FABRICATION DE PRODUITS DE PROPIONATE**
[72] VISSER, DIANA, NL
[72] MEIJER, JASPER, NL
[72] SOARES MENDES, FILIPA CRISTINA, NL
[73] PURAC BIOCHEM BV, NL
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[54] **PROTECTIVE FILMS, BLENDS, AND METHODS OF MAKING THEREOF**
[54] **FILMS DE PROTECTION, MELANGES ET LEURS PROCEDES DE FABRICATION**
[72] NIETO, JESUS, ES
[72] MANRIQUE, ANTONIO, ES
[72] UHL, ISABELLE, FR
[72] MUNOZ, DAVID, ES
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[73] ROHM AND HAAS COMPANY, US
[85] 2017-09-13
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[54] **DISPOSITIF DESTINE A INTRODUIRE ET A MAINTENIR UN PORT DANS UN VAISSEAU OMBILICAL**
[72] EIDE, TERJE, NO
[73] EIDE, TERJE, NO
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[72] REICH, TAL, IL
[72] SHEPS, TAL, IL
[72] HARITON, ILIA, IL
[72] BRAUON, HAIM, IL
[72] KUTZIK, MEIR, IL
[72] KOIFMAN, ALEXEI, AU
[72] HERMAN, YARON, IL
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[54] **SYSTEMES ET PROCEDES DE COMMANDE DE CHAMPS ELECTRIQUES DANS UN FLUIDE, DANS DES GAZ ET DES BACTERIES**
[72] WILSON, GARY D., US
[73] ENHANCED LIFE WATER SOLUTIONS, LLC, US
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[54] **CAPTEUR DE PUISSANCE A RADIOFREQUENCE AYANT UN COUPLEUR NON DIRECTIONNEL**
[72] HOLT, TIMOTHY L., US
[73] BIRD TECHNOLOGIES GROUP, INC., US
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[54] **COMBINING ANTI-HLA-DR OR ANTI-TROP-2 ANTIBODIES WITH MICROTUBULE INHIBITORS, PARP INHIBITORS, BRUTON KINASE INHIBITORS OR PHOSPHOINOSITIDE 3-KINASE INHIBITORS SIGNIFICANTLY IMPROVES THERAPEUTIC OUTCOME IN CANCER**
[54] **COMBINAISON D'ANTICORPS ANTI-HLA-DR OU ANTI-TROP-2 AVEC DES INHIBITEURS DE MICROTUBULE, DES INHIBITEURS DE PARP, DES INHIBITEURS DE KINASE DE BRUTON OU DES INHIBITEURS DE PHOSPHOI NOSITIDE 3-KINASE AMELIORANT CONSIDERABLEMENT UN RESULTAT THERAPEUTIQUE DE CANCER**
[72] GOLDENBERG, DAVID M., US
[72] CARDILLO, THOMAS M., US
[73] IMMUNOMEDICS, INC., US
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[54] **PHENYL CYCLOPROPYLAMINE COMPOUNDS AS LYSINE SPECIFIC DEMETHYLASE-1 (LSDI) INHIBITOR**
[54] **COMPOSES DE PHENYLCYCLOPROPYLAMINE COMME INHIBITEUR DE DEMETHYLASE-1 SPECIFIQUE A LA LYSINE (LSD1)**
[72] DIODONE, RALPH, DE
[72] SCHWITTER, URS, CH
[72] TRUSSARDI, RENE, CH
[73] ORYZON GENOMICS, S.A., ES
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[54] **DISPOSITIFS TETE HAUTE DE REDIRECTION DE VISION**
[72] GAROFOLO, TIMOTHY, US
[72] CLEAR, SCOTT, US
[72] LOOCK, DEAN, US
[72] CHOI, JUNGWOO, US
[72] ELAM, JOHN MICHAEL, US
[72] DEVERNOE, DAVID, US
[73] VERTICAL OPTICS, LLC, US
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[54] **CARTOUCHE DE LAME SAGITTALE CHIRURGICALE A BARRE DE GUIDAGE RENFORCEE**
[72] MAC AN TUILE, CONOR, IE
[72] WALEN, JAMES G., US
[73] STRYKER EUROPEAN OPERATIONS HOLDINGS LLC, US
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[54] **NON-INVASIVE METHOD FOR MEASURING SOUND FREQUENCIES CREATED BY VORTICES IN A CAROTID ARTERY**
[54] **METHODE NON EFFRACTIVE DE MESURE DE FREQUENCES SONORES CREEES PAR DES TOURBILLONS DANS UNE ARTERE CAROTIDE**
[72] KLINE, BRET, US
[72] BAKEMA, PETER, US
[72] TRUONG, YOUNG, US
[72] FINLAYSON, RICHARD, US
[72] DAY, ORVILLE, US
[73] CVR GLOBAL, INC., US
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[54] **CAPTEUR DE PRESSION**
[72] NIELSEN, POUL MICHAEL FONSS, NZ
[72] KRUGER, JENNIFER ANN, NZ
[72] MCCORMICK, JOHN DANIEL, NZ
[72] TABERNER, ANDREW JAMES, NZ
[72] BUDGETT, DAVID MORTIMER, NZ
[73] AUCKLAND UNISERVICES LIMITED, NZ
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[54] **APPARATUS FOR MAKING A SOLUTION, AND RELATED METHODS**
[54] **APPAREIL DE PREPARATION D'UNE SOLUTION, ET PROCEDES ASSOCIES**
[72] HENSLEY, ANTHONY QUINN, US
[72] WOMACK, CHET, US
[72] MILLER, BILL, US
[73] CARGILL, INCORPORATED, US
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[54] **PYRROLIDINYL AND PIPERIDINYL DERIVATIVES AND PHARMACEUTICAL COMPOSITIONS THEREOF USEFUL AS GLS1 INHIBITORS**
[54] **DERIVES DE PYRROLIDINYLE ET DE PIPERIDINYLE ET COMPOSITIONS PHARMACEUTIQUES CONNEXES UTILES COMME INHIBITEURS DE GLS1**
[72] LEWIS, RICHARD THOMAS, US
[72] JONES, PHILIP, US
[72] PETROCCHI, ALESSIA, US
[72] REYNA, NAPHTALI, US
[72] HAMILTON, MATTHEW, US
[72] SOTH, MICHAEL J., US
[72] HEFFERNAN, TIMOTHY, US
[72] HAN, MICHELLE, US
[72] BURKE, JASON P., US
[73] BOARD OF REGENTS, UNIVERSITY OF TEXAS SYSTEM, US
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[54] **COMPOSES IONISABLES ET COMPOSITIONS ET UTILISATIONS CONNEXES**
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[72] ADAMI, ROGER, US
[72] BAI, HAO, US
[72] GAUDETTE, JOHN, US
[72] MAJETI, BHARAT, US
[72] NUKUI, SEIJI, US
[72] TSANG, KWOK YIN, US
[72] WANG, HAI, US
[72] YIN, HAIQING, US
[73] NITTO DENKO CORPORATION, JP
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[72] BUCKLEY, CHRISTOPHER JOHN, GB
[72] SMITH, ADRIAN, GB
[73] GE HEALTHCARE LIMITED, GB
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[54] **METHOD OF MANUFACTURING A SANDWICH PANEL**
[54] **PROCEDE DE FABRICATION DE PANNEAU SANDWICH**
[72] DE GROOT, MARTIN THEODOOR, NL
[73] FITS HOLDING B.V., NL
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[54] **SYSTEME D'ALIMENTATION DE TENSION DESTINE A UN NAVIRE OU UNE CENTRALE ELECTRIQUE**
[72] KNAFL, ALEXANDER, DE
[72] STIESCH, GUNNAR, DE
[72] FRIEDRICH, BERND, DE
[73] MAN ENERGY SOLUTIONS SE, DE
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[54] **ACRYLIC ACID CROSSLINKED POLYMER, AND WATER ABSORBING AGENTS, ADDITIVES, KITS AND METHODS INCLUDING OR USING SAME**
[54] **POLYMERE RETICULE A L'ACIDE ACRYLIQUE ET AGENTS HYDROABSORBANTS, ADDITIFS, TROUSSES ET METHODES L'UTILISANT**
[72] SAKAMOTO, SHIGERU, JP
[72] NOGI, KOZO, JP
[72] ARAKE, TOMOYUKI, JP
[72] MINAMI, ERINA, JP
[72] FUJINO, SHINICHI, JP
[73] NIPPON SHOKUBAI CO., LTD., JP
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[54] **COULEE THERMOPLASTIQUE**
[72] PARK, JONG CHIL, KR
[73] OPENM INC., KR
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[30] KR (10-2015-0110136) 2015-08-04
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[54] **ANTICORPS ANTI-TIGIT**
[72] WILLIAMS, SYBIL M. G., US
[72] SEGHEZZI, WOLFGANG, US
[72] FAYADAT-DILMAN, LAURENCE, US
[72] LIANG, LINDA, US
[72] JUAN, VERONICA, US
[73] MERCK SHARP & DOHME LLC, US
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[54] **MATRICE IGNIFUGE**
[72] ALBERTELLI, ALDINO, IE
[72] FRIEH, MICHAEL, IE
[73] ACELL INDUSTRIES LIMITED, IE
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[54] **CONNECTEUR POUR UN BATIMENT MODULAIRE**
[72] BOWRON, JULIAN, CA
[73] Z-MODULAR HOLDING, INC., US
[85] 2018-02-12
[86] 2016-08-12 (PCT/CA2016/050954)
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[54] **PHARMACEUTICAL COMPOSITION CAPABLE OF THE INCORPORATION OF LENALIDOMIDE IN VARIOUS CRYSTALLINE MODIFICATIONS**
[54] **COMPOSITION PHARMACEUTIQUE POUVANT INCORPORER LA LENALIDOMINE SOUS DIVERSES VARIANTES CRISTALLINES**
[72] KONOSONOKS, ARMANDS, LV
[72] MERKYS, KESTUTIS, LV
[73] GRINDEKS, A JOINT STOCK COMPANY, LV
[85] 2018-02-16
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[54] **DEVICE AND METHOD FOR MOVING TUBULAR BODIES**
[54] **DISPOSITIF ET PROCEDE PERMETTANT DE DEPLACER DES CORPS TUBULAIRES**
[72] MENGOLI, FAUSTO, IT
[72] SARTONI, MASSIMO, IT
[73] G.D S.P.A., IT
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[25] EN
[54] **CONVEYOR SYSTEM FOR VEHICLE**
[54] **SYSTEME DE TRANSPORTEUR DESTINE A UN VEHICULE**
[72] REXIUS, ARLEN, US
[72] WERLINGER, JAY DEE, US
[72] WHITLEY, BRENT, US
[72] OESTERLING, JEREMY LEE, US
[72] LOONEY, DAVID, US
[72] COX, MATTHEW CHARLES, US
[73] CONVEYOR APPLICATION SYSTEMS LLC, US
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[25] EN
[54] **SYNTHETIC ANTIBODIES TO BAX AND USES THEREOF**
[54] **ANTICORPS SYNTHETIQUES CONTRE BAX ET LEURS UTILISATIONS**
[72] GAVATHIOTIS, EVRIPIDIS, US
[72] LAI, JONATHAN, R., US
[72] SIDHU, SACHDEV, CA
[73] ALBERT EINSTEIN COLLEGE OF MEDICINE, INC., US
[73] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
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[54] **PROTECTIVE COVER FOR A VEHICLE**
[54] **REVETEMENT PROTECTEUR DESTINE A UN VEHICULE**
[72] LETENDRE, CAROLINE, CA
[73] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
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[54] **PROCEDE DE CONTROLE AUTOMATIQUE A LA RECHERCHE DE POUX DE MER DANS LE CADRE D'UN ELEVAGE DE SALMONIDES**
[72] JANS, PETER, NL
[72] GIJTENBEEK, EVERT, NL
[73] INTERVET INTERNATIONAL B.V., NL
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[54] **P-ETHOXY NUCLEIC ACIDS FOR LIPOSOMAL FORMULATION**
[54] **ACIDES P-ETHOXYNUCLEIQUES POUR UNE FORMULATION LIPOSOMALE**
[72] NIELSEN, PETER, US
[73] BIO-PATH HOLDING, INC., US
[85] 2018-04-04
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[54] **DEVICE FOR FEEDING MEDIUM-CALIBRE AMMUNITION WITH A ROTATING PLATE**
[54] **DISPOSITIF D'ALIMENTATION EN MUNITIONS DE MOYEN CALIBRE A PLATEAU TOURNANT**
[72] COLOMINE, ANTHONY, BE
[72] GRITSKEVITCH, INNOKENTY, BE
[72] FARINELLA, DOMENICO, BE
[73] CMI DEFENCE S.A., BE
[85] 2018-04-09
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[54] **INSECTICIDAL COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS INSECTICIDES ET PROCEDES ASSOCIES**
[72] CRAWFORD, MICHAEL J., US
[72] DIMMIC, MATTHEW, US
[72] LAWRENCE, RAE, US
[72] TAYLOR, CHRISTINA MARIE, US
[73] MONSANTO TECHNOLOGY LLC, US
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[54] **FIRE-RESISTANCE-RATED THERMALLY INSULATING AND SEALING SYSTEM FOR USE WITH CURTAIN WALL STRUCTURES**
[54] **SYSTEME D'ETANCHEITE ET D'ISOLATION THERMIQUE A IGNIFUGATION NOMINALE DESTINE A ETRE UTILISE AVEC DES STRUCTURES MURS-RIDEAUX**
[72] ANDRESEN, ARNDT, US
[73] HILTI AKTIENGESELLSCHAFT, LI
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[54] **CONTROL SYSTEM FOR ADJUSTING SWATH FLAP OF WINDROWING WORK VEHICLE**
[54] **SYSTEME DE COMMANDE D'AJUSTEMENT DE VOLET D'ANDAIN ETALE D'UN VEHICULE DE TRAVAIL D'ANDAINAGE**
[72] ROTOLE, DAVID V., US
[72] CONRAD, ETHAN C., US
[72] USASZ, MITCHELL R., US
[73] DEERE & COMPANY, US
[86] (3004658)
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[54] **PLATE FOR PRODUCTION OF A DENTAL IMPLANT AND/OR ARTIFICIAL PROSTHESIS**
[54] **PLAQUE POUR LA PRODUCTION D'UN IMPLANT DENTAIRE ET/OU D'UNE PROTHESE ARTIFICIELLE**
[72] HORNBECK, JACQUES, LU
[73] JADE FINANCE S.A.R.L., LU
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[25] EN
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[54] **COMPOSES D'AMINONAPHTHOQUINONE POUR LE TRAITEMENT ET/OU LA PREVENTION DE MALADIES DE FIBROSE**
[72] YEN, YUN, US
[72] LIOU, JING-PING, TW
[72] LIN, CHIEN HUANG, TW
[73] CALGENT BIOTECHNOLOGY CO., LTD., TW
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[54] **METHOD AND DEVICE FOR OPERATING A WIND TURBINE**
[54] **PROCEDE ET DISPOSITIF POUR FAIRE FONCTIONNER UNE EOLIENNE**
[72] MULLER, MATHIAS, DE
[72] SCHUBERT, MATTHIAS, DE
[72] MAI, MANUEL, DE
[73] VC VIII POLYTECH HOLDING APS, DK
[85] 2018-05-18
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[54] **METHODS OF PREDICTING PROGRESSION OF BARRETT'S ESOPHAGUS**
[54] **PROCEDES DE PREDICTION DE LA PROGRESSION DE L'ENDOBRACHYOESOPHAGE**
[72] THORNE, REBECCA J., US
[73] CERNOSTICS, INC., US
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[25] EN
[54] **MOBILISATION OF TRANSPOSABLE ELEMENTS TO ENHANCE GENETIC AND EPIGENETIC VARIABILITY IN A POPULATION**
[54] **MOBILISATION D'ELEMENTS TRANSPOSABLES POUR AMELIORER LA VARIABILITE GENETIQUE ET EPIGENETIQUE CHEZ UNE POPULATION**
[72] BUCHER, ETIENNE, CH
[72] THIEME, MICHAEL, CH
[73] UNIVERSITAT BASEL, CH
[85] 2018-05-29
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[54] **DIETARY PEPTIDES**
[54] **PEPTIDES DIETETIQUES**
[72] STAGSTED, JAN, DK
[72] ZHOU, JIEHUI, DK
[72] JESSEN, RANDI, DK
[72] PALMFELDT, JOHAN, DK
[72] HANSEN, ERIK TORNGAARD, DK
[73] DIET4LIFE APS, DK
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[54] **TRANSSEPTAL DELIVERY SYSTEM**
[54] **SYSTEME D'ADMINISTRATION TRANS-SEPTALE**
[72] NYULI, COLIN A., CA
[72] LANE, RANDY MATTHEW, CA
[72] WONG, KAREN TSOEK-JI, CA
[73] NEOVASC TIARA INC., CA
[85] 2018-06-06
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[54] **APPARATUS FOR ENDOTHERMIC PROCESS WITH IMPROVED BURNERS ARRANGEMENT**
[54] **APPAREIL POUR PROCEDE ENDOTHERMIQUE AVEC AGENCEMENT DE BRULEURS AMELIORE**
[72] CAMY-PEYRET, FREDERIC, FR
[72] CANCES, JULIEN, FR
[72] TUDORACHE, DIANA, FR
[73] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
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[54] **GENOMIC INFRASTRUCTURE FOR ON-SITE OR CLOUD-BASED DNA AND RNA PROCESSING AND ANALYSIS**
[54] **INFRASTRUCTURE GENOMIQUE POUR TRAITEMENT ET ANALYSE D'ADN OU D'ARN SUR SITE OU EN NUAGE**
[72] VAN ROOYEN, PIETER, US
[72] MCMILLEN, ROBERT J., US
[72] RUEHLE, MICHAEL, US
[72] MEHIO, RAMI, US
[73] EDICO GENOME, CORP., US
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[54] **TREATMENT FOR TUMORS DRIVEN BY METABOLIC DYSFUNCTION**
[54] **TRAITEMENT DE TUMEURS INDUITES PAR UN DYSFONCTIONNEMENT METABOLIQUE**
[72] SHANAHAN, JAMES, US
[72] CORNELIUS, PETER, US
[73] SYNDEVRX, INC., US
[85] 2018-06-15
[86] 2017-01-11 (PCT/US2017/012968)
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[30] US (62/277,293) 2016-01-11
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[25] EN
[54] **HOT WORK TOOL STEEL**
[54] **ACIER A OUTILS POUR TRAVAIL A CHAUD**
[72] MEDVEDEVA, ANNA, SE
[72] ANDERSSON, JERKER, SE
[72] ROBERTSSON, RIKARD, SE
[72] NILSSON, CHERIN, SE
[72] EJNERMARK, SEBASTIAN, SE
[73] UDDEHOLMS AB, SE
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[25] EN
[54] **A COMPOSITE COLLAGEN HYDROGEL MATERIAL, AN IMPLANTABLE OPHTHALMIC DEVICE COMPRISING SUCH MATERIAL AND METHODS OF PRODUCING THE COMPOSITE COLLAGEN HYDROGEL MATERIAL AND THE IMPLANTABLE OPHTHALMIC DEVICE**
[54] **MATERIAU HYDROGEL DE COLLAGENE COMPOSITE, DISPOSITIF OPHTALMIQUE IMPLANTABLE COMPRENANT UN TEL MATERIAU ET PROCEDES DE PRODUCTION DUDIT MATERIAU HYDROGEL DE COLLAGENE COMPOSITE ET DUDIT DISPOSITIF OPHTALMIQUE IMPLANTABLE**
[72] RAFAT, MEHRDAD, SE
[73] LINKOCARE LIFE SCIENCES AB, SE
[85] 2018-06-19
[86] 2016-12-20 (PCT/EP2016/081928)
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[54] **LUBRICANT PRESS, LUBRICANT PRESS KIT, AND USE OF A CARTRIDGE IN CASE OF A LUBRICANT PRESS**
[54] **PRESSE DE LUBRIFIANT, ENSEMBLE DE PRESSES DE LUBRIFIANT ET UTILISATION D'UNE CARTOUCHE DANS UNE PRESSE DE LUBRIFIANT**
[72] SCHLENKER, RUDOLF, CH
[73] PRESSOL - SCHMIERGERATE GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, DE
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[25] EN
[54] **REACTOR FOR CONTINUOUSLY TREATING POLYMERIC MATERIAL**
[54] **REACTEUR POUR LE TRAITEMENT EN CONTINU DE MATERIAU POLYMERE**
[72] GIL, AMALIA, CA
[72] DIMONDO, DOMENIC, CA
[72] RYBICKI, RADEK, CA
[73] GREENMANTRA RECYCLING TECHNOLOGIES LTD., CA
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[51] **Int.Cl. A24B 15/00 (2006.01)**
[25] EN
[54] **METHODS TO ADD MATERIALS TO A CARTRIDGE AND AN ELECTRONIC VAPING DEVICE INCLUDING THE CARTRIDGE**
[54] **PROCEDES POUR L'AJOUT DE MATERIAUX A UNE CARTOUCHE ET DISPOSITIF ELECTRONIQUE DE VAPOTAGE COMPORTANT LA CARTOUCHE**
[72] KOBAL, GERD, US
[72] LI, SAN, US
[72] LIPOWICZ, PETER, US
[73] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2018-06-26
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[54] **SYSTEM AND METHODS FOR THE TREATMENT OF WOUNDS WITH DRESSING HAVING CLOSED CELLS**
[54] **SYSTEME ET PROCEDES POUR LE TRAITEMENT DE PLAIES AVEC UN PANSEMENT COMPORTANT DES CELLULES FERMEES**
[72] ROBINSON, TIMOTHY MARK, GB
[72] LOCKE, CHRISTOPHER BRIAN, GB
[73] SOLVENTUM INTELLECTUAL PROPERTIES COMPANY, US
[85] 2018-06-29
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[25] EN
[54] **SYSTEMS AND APPARATUS FOR GAIT MODULATION AND METHODS OF USE**
[54] **SYSTEMES ET APPAREIL POUR LA MODULATION DE LA DEMARCHE ET PROCEDES D'UTILISATION**
[72] MCBRIDE, KEITH SEAN, US
[73] BIONESS INC., US
[85] 2018-07-06
[86] 2017-01-11 (PCT/US2017/012977)
[87] (WO2017/123608)
[30] US (62/277,259) 2016-01-11

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[25] EN
[54] **SELF-ASSEMBLED NANOSTRUCTURES AND SEPARATION MEMBRANES COMPRISING AQUAPORIN WATER CHANNELS AND METHODS OF MAKING AND USING THEM**
[54] **NANOSTRUCTURES AUTO-ASSEMBLEES ET MEMBRANES DE SEPARATION COMPRENANT DES CANAUX AQUEUX D'AQUAPORINE ET LEURS PROCEDES DE PRODUCTION ET D'UTILISATION**
[72] SPULBER, MARIANA, DK
[72] TRZASKUS, KRZYSZTOF, DK
[73] AQUAPORIN A/S, DK
[85] 2018-07-10
[86] 2017-02-06 (PCT/EP2017/052567)
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[30] DK (PA201600079) 2016-02-08
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[25] EN
[54] **TECHNIQUES FOR MANIPULATION OF TWO-QUBIT QUANTUM STATES AND RELATED SYSTEMS AND METHODS**
[54] **TECHNIQUES DE MANIPULATION D'ETATS A DEUX QUANTUMS ET SYSTEMES ET PROCEDES ASSOCIES**
[72] WANG, CHEN, US
[72] GAO, YVONNE, US
[72] FRUNZIO, LUIGI, US
[72] DEVORET, MICHEL, US
[72] SCHOELKOPF, ROBERT J., US
[73] YALE UNIVERSITY, US
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[25] EN
[54] **FORMULATIONS OF VANCOMYCIN**
[54] **FORMULATIONS A BASE DE VANCOMYCINE**
[72] PALEPU, NAGESH R., US
[72] BUXTON, PHILIP CHRISTOPHER, GB
[73] SCIDOSE PHARMA LLC, US
[85] 2018-07-13
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[25] EN
[54] **APPARATUS AND METHODS FOR TRANSFERRING CONTINUOUSLY MOVING ARTICLES TO CONTINUOUSLY MOVING PACKAGES WITH INTERVENING ARTICLE GROUPING AND GROUP PITCH ADJUSTMENT**
[54] **APPAREIL ET METHODE POUR TRANSFERER DES ARTICLES EN MOUVEMENT CONTINU A DES EMBALLAGES EN MOUVEMENT CONTINU COMPRENANT UN GROUPEMENT D'ARTICLE INTERVENANT ET AJUSTEMENT DE L'INCLINAISON DU GROUPE**
[72] KALANY, ROBERT M., US
[72] SALVATO, ANTHONY B., US
[72] LUKES, MATTHEW R., US
[72] BRUGGER, JEROME, US
[73] R.A JONES & CO., US
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[54] **FLUID EJECTOR**
[54] **EJECTEUR DE FLUIDE**
[72] MACE, DANIEL RICHARD, GB
[72] EMERTON, NEIL, GB
[72] CROOKS, DAVID ALAN, GB
[72] NEWCOMBE, GUY CHARLES FERNLEY, GB
[72] STOKES, CHARLOTTE GIVERNY PAMELA JOY, GB
[72] SNUDDEN, THEODORE JOHN, GB
[73] ARCHIPELAGO TECHNOLOGY GROUP LTD, GB
[85] 2018-07-25
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[25] EN
[54] **TECHNIQUES FOR CONTROL OF QUANTUM SYSTEMS AND RELATED SYSTEMS AND METHODS**
[54] **TECHNIQUES DE COMMANDE DE SYSTEMES QUANTIQUES ET SYSTEMES ET PROCEDES ASSOCIES**
[72] OFEK, NISSIM, US
[72] FRUNZIO, LUIGI, US
[72] DEVORET, MICHEL, US
[72] SCHOELKOPF, ROBERT J., III, US
[73] YALE UNIVERSITY, US
[85] 2018-07-26
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[54] **A METHOD AND SYSTEM FOR SECURING COMPUTER SOFTWARE USING A DISTRIBUTED HASH TABLE AND A BLOCKCHAIN**
[54] **PROCEDE ET SYSTEME DE SECURISATION DE LOGICIEL INFORMATIQUE AU MOYEN D'UNE TABLE DE HACHAGE DISTRIBUEE ET D'UNE CHAINE DE BLOCS**
[72] WRIGHT, CRAIG STEVEN, GB
[72] SAVANAH, STEPHANE, GB
[73] NCHAIN HOLDINGS LIMITED, AG
[85] 2018-07-30
[86] 2017-02-14 (PCT/IB2017/050827)
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[30] GB (1603125.4) 2016-02-23
[30] GB (1607058.3) 2016-04-22

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[25] EN
[54] **RETAIL SHOPPING FACILITY-BASED USE OF TIME AND LOCATION CODES WITH PHYSICAL ITEMS**
[54] **UTILISATION DE CODES D'HEURE ET D'EMPLACEMENT AVEC DES ARTICLES PHYSIQUES AU SEIN D'UNE INSTALLATION DE COMMERCE DE DETAIL**
[72] SNELGROVE, ROGER L., US
[73] WALMART APOLLO, LLC, US
[85] 2018-07-31
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[25] EN
[54] **ELECTRODE STRUCTURE PROVIDED WITH RESISTORS**
[54] **STRUCTURE D'ELECTRODE POURVUE DE RESISTANCES**
[72] FIORUCCI, ALESSANDRO, IT
[72] PEREGO, MICHELE, IT
[72] PERRONE, PAOLO, IT
[72] MOJANA, CORRADO, IT
[73] INDUSTRIE DE NORA S.P.A., IT
[85] 2018-08-03
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[25] EN
[54] **SYSTEM AND METHOD FOR CUSHION INFLATION**
[54] **SYSTEME ET PROCEDE DE GONFLAGE DE COUSSIN**
[72] DARNOLD, LEANE, US
[72] MEIER, KEVIN, US
[72] PEYTON, ROSS, US
[72] FOURNIE, GLENN G., US
[72] STEWARD, STEVE, US
[73] ROHO, INC., US
[85] 2018-08-03
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[87] (WO2017/136817)
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[25] EN
[54] **WIPER ADAPTER AND WIPER ASSEMBLY INCORPORATING THE SAME**
[54] **ADAPTATEUR D'ESSUIE-GLACE ET ENSEMBLE ESSUIE-GLACE INCORPORANT L'ADAPTATEUR D'ESSUIE-GLACE**
[72] AVASILOAIE, VALENTIN, US
[72] EHDE, DANIEL, US
[72] POLOCOSER, MITICA, US
[73] TRICO PRODUCTS CORPORATION, US
[85] 2018-08-03
[86] 2017-02-06 (PCT/US2017/016742)
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[25] FR
[54] **POWER-OPERATED TRAILER COMPRISING A MOTOR CONTROL DEVICE**
[54] **REMORQUE MOTORISEE COMPORTANT UN DISPOSITIF D'ASSERVISSEMENT DES MOTEURS**
[72] VALLIER, GILLES, FR
[72] DUVAUT, NICOLAS, FR
[72] DUVAUT, DAMIEN, FR
[73] K-RYOLE, FR
[85] 2018-08-08
[86] 2017-02-27 (PCT/FR2017/050422)
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[25] EN
[54] **A KIND OF BLOW MOLD FOR PLASTIC CONTAINERS**
[54] **TYPE DE MOULE POUR SOUFFLAGE POUR CONTENANTS EN PLASTIQUE**
[72] ZOPPAS, MATTEO, IT
[72] GALIMBERTI, CRISTIANO, IT
[72] COROCHER, CARLO, IT
[72] NEGRESCU, CATALIN, RO
[72] MARIANI, ANDREA, IT
[72] BISCHER, LUIGINO, IT
[73] S.I.P.A. SOCIETA' INDUSTRIALIZZAZIONE PROGETTAZIONE E AUTOMAZIONE S.P.A., IT
[85] 2018-08-10
[86] 2017-02-17 (PCT/IB2017/050897)
[87] (WO2017/141196)
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[54] **APPARATUS WITH ENHANCED STIMULATION WAVEFORMS**
[54] **APPAREIL PRESENTANT DES FORMES D'ONDE DE STIMULATION AMELIOREE**
[72] MISHRA, LAKSHMI NARAYAN, US
[72] MAKOUS, JAMES C., US
[72] HARTLEY, LEE FASON, US
[72] PIVONKA, DANIEL M., US
[72] FLAHERTY, J. CHRISTOPHER, US
[73] NALU MEDICAL, INC., US
[85] 2018-08-10
[86] 2017-02-15 (PCT/US2017/017978)
[87] (WO2017/142948)
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[25] EN
[54] **KINETIC HYDRATE INHIBITORS FOR CONTROLLING GAS HYDRATE FORMATION IN WET GAS SYSTEMS**
[54] **INHIBITEURS D'HYDRATES CINETIQUES DESTINES A LA REGULATION DE LA FORMATION D'HYDRATES DE GAZ DANS DES SYSTEMES DE GAZ HUMIDE**
[72] JONES, REGAN ANDREW, US
[72] BARTELS, JEREMY WAYNE, US
[72] MOLONEY, JEREMY, US
[73] ECOLAB USA INC., US
[85] 2018-08-13
[86] 2017-02-24 (PCT/US2017/019358)
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[13] C
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[54] **PANEL DOOR SYSTEM**
[54] **SYSTEME DE PORTE-PANNEAU**
[72] KAWULKA, GRAHAM I, CA
[72] AUSTROM, CALVIN A., CA
[73] GOOD GATE INC., CA
[86] (3015101)
[87] (3015101)
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[51] **Int.Cl. B32B 7/08 (2019.01) B32B 5/26 (2006.01) B32B 27/02 (2006.01)**
[25] EN
[54] **IMPROVED LAMINATES COMPRISING REINFORCED AEROGEL COMPOSITES**
[54] **STRATIFIES AMELIORES COMPRENANT DES COMPOSITES D'AEROGEL RENFORCES**
[72] MIHALCIK, DAVID, US
[72] EVANS, OWEN, US
[72] ZAFIROPOULOS, NICHOLAS, US
[72] GOULD, GEORGE, US
[72] RIKLEEN, LESLIE, US
[73] ASPEN AEROGELS, INC., US
[85] 2018-08-28
[86] 2017-01-27 (PCT/US2017/015440)
[87] (WO2017/132569)
[30] US (62/287,762) 2016-01-27
[30] US (15/417,170) 2017-01-26

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[51] **Int.Cl. G01B 5/14 (2006.01) G01B 5/30 (2006.01)**
[25] FR
[54] **STRAIN SENSOR WITH MEASUREMENT DISCRIMINATION ACCORDING TO THE DEFORMATION DIRECTION**
[54] **CAPTEUR DE DEFORMATION PERMETTANT UNE DISCRIMINATION DE MESURE EN FONCTION DE LA DIRECTION DE LA DEFORMATION**
[72] COTE, THIERRY, FR
[72] SADOULET, VIANNEY, FR
[72] MINOTTI, PATRICE, FR
[72] WALTER, VINCENT, FR
[72] GIRARDIN, PASCAL, FR
[73] ETAT FRANCAIS REPRESENTE PAR LE DELEGUE GENERAL POUR L'ARMEMENT, FR
[73] SILMACH, FR
[85] 2018-08-30
[86] 2017-02-28 (PCT/FR2017/000036)
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[51] **Int.Cl. H02J 3/16 (2006.01) H02J 3/38 (2006.01) H02J 13/00 (2006.01)**
[25] EN
[54] **METHOD OF OPERATING AN ELECTRICAL FEEDER**
[54] **PROCEDE DE FONCTIONNEMENT D'UNE ALIMENTATION ELECTRIQUE**
[72] ZHAO, DONGBO, US
[72] WANG, YIGANG, US
[72] PATIL, CHINMAYA BABURAO, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2018-08-31
[86] 2017-03-02 (PCT/US2017/020343)
[87] (WO2017/151851)
[30] US (15/059,405) 2016-03-03

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[51] **Int.Cl. G09B 23/28 (2006.01) G06F 3/01 (2006.01)**
[25] EN
[54] **MOVEMENT TRACKING AND SIMULATION DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE CAPTURE ET DE SIMULATION DE MOUVEMENT**
[72] BIEMANS, WOUTER, NL
[72] BODE, DYON, NL
[72] STEITNER, LUUK, NL
[73] NISSIN DENTAL PRODUCTS INC., JP
[85] 2018-09-06
[86] 2017-03-07 (PCT/EP2017/055339)
[87] (WO2017/153416)
[30] GB (1604115.4) 2016-03-10

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[51] **Int.Cl. C12N 5/0786 (2010.01)**
[25] EN
[54] **NEW IMMUNOREGULATORY CELLS AND METHODS FOR THEIR PRODUCTION**
[54] **NOUVELLES CELLULES IMMUNOREGULATRICES ET LEURS PROCEDES DE PRODUCTION**
[72] HUTCHINSON, JAMES, DE
[72] GEISSLER, EDWARD, DE
[73] TRIZELL GMBH, DE
[85] 2018-09-11
[86] 2017-03-13 (PCT/EP2017/055839)
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[54] **WIRELESS LOCKSET WITH ANTI-HACKING FEATURE**
[54] **ENSEMBLE VERROU SANS FIL A CARACTERISTIQUE ANTI-PIRATAGE**
[72] BROWN, TROY M., US
[72] BUI, TAM, US
[73] ASSA ABLOY AMERICAS RESIDENTIAL INC., US
[85] 2018-09-12
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[25] EN
[54] **POROUS SEPARATOR FOR FUEL CELLS**
[54] **SEPARATEUR POREUX POUR PILES A COMBUSTIBLE**
[72] TANNO, FUMIO, JP
[72] OKAMOTO, SHUSUKE, JP
[73] NISSHINBO CHEMICAL INC., JP
[85] 2018-09-17
[86] 2017-02-06 (PCT/JP2017/004141)
[87] (WO2017/159110)
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[25] EN
[54] **SUBCELLULAR LOCALIZATION OF TARGET ANALYTES**
[54] **LOCALISATION SOUS-CELLULAIRE D'ANALYTES CIBLES**
[72] BRITTAIN, GEORGE, US
[72] GULNIK, SERGEI, US
[73] BECKMAN COULTER, INC., US
[85] 2018-09-17
[86] 2017-03-16 (PCT/US2017/022802)
[87] (WO2017/161182)
[30] US (62/310,595) 2016-03-18

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[51] **Int.Cl. B63B 17/02 (2006.01)**
[25] EN
[54] **TRANSPARENT MODULATABLE KAYAK WITH SHADING SYSTEM**
[54] **KAYAK MODULABLE TRANSPARENT DOTE D'UN SYSTEME D'OMBRAGE**
[72] MAIONE, ROBERTO, IT
[72] MAIONE, ANTONIO, IT
[73] MAIONE S.R.L., IT
[85] 2018-09-21
[86] 2017-03-08 (PCT/IB2017/051354)
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[25] EN
[54] **METHOD FOR PRODUCING AN ASSEMBLY FOR A LINE PENETRATION, ASSEMBLY AND METHOD FOR PRODUCTION OF A LINE PENETRATION**
[54] **PROCEDE POUR FABRIQUER UN MODULE DESTINE A UNE TRAVERSEE DE CABLE, MODULE ET PROCEDE POUR FABRIQUER UNE TRAVERSEE DE CABLE**
[72] MONDEN, THOMAS, DE
[72] MORDAU, ULF, DE
[72] PAETOW, MARIO, DE
[73] HILTI AKTIENGESELLSCHAFT, LI
[85] 2018-09-24
[86] 2017-03-14 (PCT/EP2017/055905)
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[51] **Int.Cl. A61B 1/00 (2006.01) G02B 23/24 (2006.01)**
[25] EN
[54] **INSTRUMENT TIP PROTECTOR**
[54] **DISPOSITIF DE PROTECTION D'EMBOUT D'INSTRUMENT**
[72] RAMSEY, PETER, GB
[73] MEDITECH ENDOSCOPY LTD, GB
[85] 2018-10-01
[86] 2017-03-29 (PCT/GB2017/050874)
[87] (WO2017/168142)
[30] GB (1605358.9) 2016-03-30
[30] GB (1605435.5) 2016-03-31

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[25] EN
[54] **DEVICE FOR SAMPLING ONE OR MORE ANALYTES**
[54] **DISPOSITIF D'ECHANTILLONNAGE D'UN OU PLUSIEURS ANALYTES**
[72] GARCIA PEREZ, ALEJANDRO, FI
[72] NIEMINEN, HEIKKI, FI
[72] HAEGGSTROM, EDWARD, FI
[73] GLUCOMODICUM OY, FI
[85] 2018-10-01
[86] 2017-11-08 (PCT/FI2017/050767)
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[25] FR
[54] **ASSEMBLY FOR THE CONSTRUCTION OF A NUCLEAR REACTOR AND CORRESPONDING METHODS**
[54] **ENSEMBLE POUR LA CONSTRUCTION D'UN REACTEUR NUCLEAIRE ET PROCEDES CORRESPONDANTS**
[72] BRUN, MICHEL, FR
[73] SOCIETE TECHNIQUE POUR L'ENERGIE ATOMIQUE, FR
[85] 2018-10-02
[86] 2017-04-14 (PCT/EP2017/059066)
[87] (WO2017/178649)
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[25] EN
[54] **MACROCYCLIC MCL1 INHIBITORS FOR TREATING CANCER**
[54] **INHIBITEURS DE MCL1 MACROCYCLIQUES POUR LE TRAITEMENT DU CANCER**
[72] HIRD, ALEXANDER, US
[72] BELMONTE, MATTHEW ALAN, US
[72] YANG, WENZHAN, US
[72] SECRIST, JOHN PAUL, US
[72] ROBBINS, DANIEL WILLIAM, US
[72] KAZMIRSKI, STEVEN LEE, US
[72] WU, DEDONG, US
[72] PENG, BO, US
[72] JOHANNES, JEFFREY, US
[72] LAMB, MICHELLE LAURAE, US
[72] YE, QING, US
[72] ZHENG, XIAOLAN, US
[73] ASTRAZENECA AB, SE
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[25] EN
[54] **SYSTEMS AND METHODS FOR NEUROLOGIC REHABILITATION**
[54] **SYSTEMES ET PROCEDES POUR REEDUCATION NEUROLOGIQUE**
[72] MCCARTHY, OWEN, US
[72] HARRIS, BRIAN, US
[72] KALPAXIS, ALEX, US
[73] MEDRHYTHMS, INC., US
[85] 2018-10-12
[86] 2017-04-14 (PCT/US2017/027742)
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[25] EN
[54] **CRYSTALLINE POLYMORPH OF 15.BETA.-HYDROXY-OSATERONE ACETATE**
[54] **POLYMORPHE CRISTALLIN D'ACETATE DE 15.BETA.-HYDROXY-OSATERONE**
[72] NAKAGAWA, TAKAYOSHI, JP
[72] HAYASHI, HIROYUKI, JP
[72] MIYAZAKI, KOICHI, JP
[72] IWASHITA, SHIGEKI, JP
[73] ASKA PHARMACEUTICAL CO., LTD., JP
[85] 2018-10-16
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[25] EN
[54] **POINT-OF-BIRTH SYSTEM AND INSTRUMENT, BIOCHEMICAL CARTRIDGE, AND METHODS FOR NEWBORN SCREENING**
[54] **SYSTEME ET INSTRUMENT DE POINT DE NAISSANCE, CARTOUCHE BIOCHIMIQUE ET PROCEDES DE DEPISTAGE DE NOUVEAU-NE**
[72] PAMULA, VAMSEE, US
[72] SRINIVASAN, VIJAY, US
[72] BORT, DONOVAN, US
[73] BAEBIES, INC., US
[85] 2018-10-17
[86] 2017-05-01 (PCT/US2017/030425)
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[30] US (62/329,591) 2016-04-29

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[54] **GRUE HYDRAULIQUE**
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[72] GUSTAFSSON, PER, SE
[72] RYDAHL, LARS, SE
[73] HIAB AB, SE
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[54] **APPARATUS AND METHOD FOR IMAGE PROCESSING FOR SUPPRESSING A REDUCTION OF CODING EFFICIENCY**
[54] **APPAREIL ET METHODE DE TRAITEMENT D'IMAGE POUR LA SUPPRESSION D'UNE REDUCTION D'EFFICACITE DE CODAGE**
[72] TSUKUBA, TAKESHI, JP
[73] SONY CORPORATION, JP
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[54] **CRYSTALLINE FORMS OF N-[2-(3-HYDROXY-3-METHYLBUTYL)-6-(2-HYDROXYPROPAN-2-YL)-2H-INDAZOL-5-YL]-6-(TRIFLUOROMETHYL)PYRIDINE-2-CARBOXAMIDE**
[54] **FORMES CRISTALLINES DE N-[2-(3-HYDROXY-3-METHYLBUTYL)-6-(2-HYDROXYPROPAN-2-YL)-2H-INDAZOL-5-YL]-6-(TRIFLUOROMETHYL)PYRIDINE-2-CARBOXAMIDE**
[72] THALER, TOBIAS, DE
[72] PLATZEK, JOHANNES, DE
[72] GUIMOND, NICOLAS, DE
[73] BAYER PHARMA AKTIENGESELLSCHAFT, DE
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[54] **AUTOMATIC IMAGE REGISTRATION OF SCANS FOR IMAGE-GUIDED SURGERY**
[54] **ENREGISTREMENT AUTOMATIQUE D'IMAGE DE BALAYAGES DESTINE A UNE CHIRURGIE GUIDEE PAR IMAGE**
[72] ESSENREITER, ROBERT, DE
[72] SCHWITZKO, RALF, DE
[72] BERTRAM, MICHAEL, DE
[72] DREXL, THOMAS, DE
[72] HAIMERL, MARTIN, DE
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[54] **TRANSMITTING APPARATUS AND INTERLEAVING METHOD THEREOF**
[54] **APPAREIL DE TRANSMISSION ET PROCEDE D'ENTRELACAGE ASSOCIE**
[72] JEONG, HONG-SIL, KR
[72] KIM, KYUNG-JOONG, KR
[72] MYUNG, SE-HO, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
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[54] **ATROPINE-CONTAINING AQUEOUS COMPOSITION**
[54] **COMPOSITION AQUEUSE CONTENANT DE L'ATROPINE**
[72] TAN, DONALD, SG
[72] BEUERMAN, ROGER, SG
[72] ASADA, HIROYUKI, JP
[72] TAKAHASHI, KYOHEI, JP
[72] SAKANAKA, KOJI, JP
[72] MORIMOTO, TAKASHI, JP
[72] FUJISAWA, TOYOMI, JP
[73] SINGAPORE HEALTH SERVICES PTE LTD, SG
[73] NANYANG TECHNOLOGICAL UNIVERSITY, SG
[73] SANTEN PHARMACEUTICAL CO., LTD., JP
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[54] **VALERIAN COMPOSITION AND RELATED METHODS**
[54] **COMPOSITION DE VALERIANE ET PROCEDES ASSOCIES**
[72] SHAH, SYED M., US
[72] DIORIO, CHRISTOPHER, US
[72] HASSAN, DANIEL, US
[72] HASSAN, FRED, US
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
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[54] **GRUE POUR LEVER ET TRANSPORTER DES CHARGES, EQUIPEE D'UN SYSTEME D'ENTRAINEMENT**
[72] TRANCHERO, JACQUES, IT
[73] TRANCHERO, JACQUES, IT
[85] 2018-11-07
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[25] EN
[54] **PROCESS FOR SYNTHESIZING 2-HYDROXY-6-((2-(1-ISOPROPYL-1H-PYRAZOL-5-YL)-PYRIDIN-3-YL)METHOXY)BENZALDEHYDE**
[54] **PROCEDE DE SYNTHESE DE 2-HYDROXY-6-((2-(1-ISOPROPYL-1H-PYRAZOL-5-YL)PYRIDIN-3-YL)METHOXY)BENZALDEHYDE**
[72] LI, ZHE, US
[72] GUZ, NATHAN, US
[72] SHAO, YIYANG, US
[72] COCUZ, JULIEANA, US
[72] FRIESER, MARKUS, US
[72] YIANNIKOUROS, GEORGE PETROS, US
[72] LIAO, LIANG, US
[73] GLOBAL BLOOD THERAPEUTICS, INC., US
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[54] **PASSERELLES SECURISEES POUR DISTRIBUTEURS CONNECTES**
[72] GONG, GEORGE XU, US
[73] PEPSICO, INC., US
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[54] **OSMOSE INVERSE ETAGEE A COURANT TRANSVERSAL**
[72] BLOHM, KURT, US
[72] PETERSON, RICHARD, US
[72] LANE, ANN E., US
[72] WINECKI, SLAWOMIR, US
[72] ARGUMEDO, DARWIN, US
[73] BATTELLE MEMORIAL INSTITUTE, US
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[54] **APPAREIL HYDRATANT DE SPORT**
[72] SOLEY, RICK, AU
[73] SOLEY, RICK, AU
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[54] **PROCEDE DE 6,7-ALPHA-EPOXYDATION DE COMPOSES DE STEROIDES 4,6-DIENE-3-ONE**
[72] WEYMOUTH-WILSON, ALEXANDER CHARLES, GB
[72] KOMSTA, ZOFIA, GB
[72] WALLIS, LAURA, GB
[72] EVANS, TIMOTHY, GB
[73] NZP UK LIMITED, GB
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[54] **SUPPLY SYSTEM FOR SUPPLYING A MOULD WITH MOLTEN METAL, AND FACILITY AND MANUFACTURING METHOD IMPLEMENTING SAME**
[54] **SYSTEME D'ALIMENTATION POUR ALIMENTER UN MOULE EN METAL FONDU, INSTALLATION ET PROCEDE DE FABRICATION LA METTANT EN OEUVRE**
[72] BOHLI, RAMZI, FR
[72] NIANE, NGADIA TAHA, FR
[72] GRANGE, DAVID, FR
[72] GUERCHE, DIDIER MAURICE MARCEAU, FR
[72] BOUKERMA, SAID, FR
[73] SAFRAN, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
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[54] **CODAGE PAR PREDICTION ANGULAIRE PONDEREE AMELIOREE POUR CODAGE INTRA**
[72] YU, YUE, US
[72] WANG, LIMIN, US
[72] PANUSOPONE, KRIT, US
[73] ARRIS ENTERPRISES LLC, US
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[54] **METHOD FOR PROVIDING A SINGULATION DEVICE OF A STORING AND DISPENSING CONTAINER**
[54] **PROCEDE PERMETTANT DE FOURNIR UN DISPOSITIF DE SEPARATION D'UN RECIPIENT DE STOCKAGE ET DE DISTRIBUTION**
[72] HELLENBRAND, CHRISTOPH, DE
[73] BECTON DICKINSON ROWA GERMANY GMBH, DE
[85] 2018-11-26
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[54] **PROTOPORPHYRINOGEN OXIDASE VARIANTS AND METHODS AND COMPOSITIONS FOR CONFERRING AND/OR ENHANCING HERBICIDE TOLERANCE USING THE SAME**
[54] **VARIANTS DE LA PROTOPORPHYRINOGENE OXYDASE ET PROCEDES ET COMPOSITIONS POUR CONFERER UNE RESISTANCE AUX HERBICIDES ET/OU ACCROITRE LA RESISTANCE AUX HERBICIDES A L'AIDE DE CES VARIANTS**
[72] SUNG, SOON-KEE, KR
[72] YOON, JOONSEON, KR
[72] AHN, YOUNG OCK, KR
[72] HAN, YUNJUNG, KR
[72] HONG, MYOUNG-KI, KR
[72] PARK, JOONGHYUK, KR
[73] FARMHANNONG CO., LTD., KR
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[54] **MODULATORS OF THE BETA-3 ADRENERGIC RECEPTOR USEFUL FOR THE TREATMENT OR PREVENTION OF DISORDERS RELATED THERETO**
[54] **MODULATEURS DU RECEPTEUR ADRENERGIQUE BETA 3 UTILE DANS LE TRAITEMENT OU LA PREVENTION DE TROUBLES ASSOCIES A CEUX-CI**
[72] TRAN, THUY-ANH, US
[72] DO, QUYEN-QUYEN, US
[72] ULLMAN, BRETT, US
[72] NAGURA, MAIKO, US
[72] BLACKBURN, ANTHONY C., US
[73] ARENA PHARMACEUTICALS, INC., US
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[54] **METHOD FOR PRODUCING BIO-PET RESIN**
[54] **PROCEDE DE PRODUCTION DE RESINE DE PET BIO**
[72] AKANUMA, YASUHIKO, JP
[72] SUZUKI, HIDEYUKI, JP
[72] KISHI, SHIGENOBU, JP
[73] SUNTORY HOLDINGS LIMITED, JP
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[54] **CURABLE RESIN COMPOSITION, FUEL CELL, AND SEALING METHOD**
[54] **COMPOSITION DE RESINE DURCISSABLE, PILE A COMBUSTIBLE, ET PROCEDE D'ETANCHEITE**
[72] SOGA, TETSUNORI, JP
[72] TAKEBE, HIROSHI, JP
[73] THREEBOND CO., LTD., JP
[85] 2018-12-05
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[54] **AUTOMOTIVE TRANSMISSION FLUID COMPOSITIONS FOR IMPROVED ENERGY EFFICIENCY**
[54] **COMPOSITIONS DE FLUIDE DE TRANSMISSION D'AUTOMOBILE DESTINEES A AMELIORER L'EFFICACITE ENERGETIQUE**
[72] KIM, HAHN SOO, US
[72] KAHSAR, LAURA A., US
[73] INFINEUM INTERNATIONAL LIMITED, GB
[86] (3027075)
[87] (3027075)
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[54] **WAGON A DOUBLE ETAGE DE 20 PIEDS**
[72] VANDE SANDE, JERRY W., US
[72] COULBORN, JOHN W. (DECEASED), US
[73] TRINITY NORTH AMERICAN FREIGHT CAR, INC., US
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[54] **AR+ BREAST CANCER TREATMENT METHODS**
[54] **METHODES AR+ DE TRAITEMENT DU CANCER DU SEIN**
[72] HATTERSLEY, GARY, US
[72] SAEH, JAMAL, US
[72] YU, ZIYANG, US
[72] MILLER, CHRIS, US
[72] BIHANI, TEERU, US
[73] ELLIPSES PHARMA LTD, GB
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[54] **DISPOSITIF DE NOTIFICATION DE CHARGE DANS UN VEHICULE D'EXPLOITATION MINIERE SOUTERRAINE**
[72] KOUVO, MIKKO, FI
[72] VARE, VILLE, FI
[72] KITULA, MIKKO, FI
[72] HONGISTO, JORMA, FI
[72] HUHTAMAA, SAMI, FI
[72] EEROLA, SEVERI, FI
[72] JOUTSELA, MATTI, FI
[72] HAIKIO, SAMI, FI
[73] SANDVIK MINING AND CONSTRUCTION OY, FI
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[25] FR
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[54] **BOITIER POUR LA GESTION DES INFORMATIONS TECHNIQUES D'UN SITE**
[72] BLANCHET, BERNARD, FR
[72] DE LEDINGHEN, EDOUARD, FR
[72] LAURENT, LIONEL, FR
[73] E-GLOO DEVELOPMENT, LU
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[25] EN
[54] **METHOD AND ARRANGEMENT FOR TRANSPORTING DRILL PIPES**
[54] **PROCEDE ET DISPOSITIF DE TRANSPORT DE TIGES DE FORAGE**
[72] ERIKSEN, MORTEN, NO
[73] RIGTEC AS, NO
[85] 2018-12-13
[86] 2017-06-30 (PCT/EP2017/066311)
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[25] EN
[54] **METHODS AND SYSTEMS FOR DYNAMIC POLICY BASED TRAFFIC STEERING OVER MULTIPLE ACCESS NETWORKS**
[54] **PROCEDES ET SYSTEMES D'ORIENTATION DYNAMIQUE DU TRAFIC BASEE SUR UNE POLITIQUE MIS EN OEUVRE SUR DES RESEAUX A ACCES MULTIPLE**
[72] CHANDRAN, GIRISH, US
[73] VIASAT, INC., US
[85] 2019-01-10
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[54] **METHOD FOR THE RESOLUTION OF BACLOFEN SALTS**
[54] **PROCEDE DE DEDOUBLEMENT DE SELS DE BACLOFENE**
[72] COQUEREL, GERARD, FR
[72] MAHIEUX, JULIEN, CH
[72] GENDRON, FRANCOIS-XAVIER, FR
[73] UNIVERSITE DE ROUEN, FR
[85] 2019-01-14
[86] 2017-07-20 (PCT/FR2017/051992)
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[25] EN
[54] **HERBICIDE COMPOSITION INCLUDING [3-[2-CHLORO-4-FLUORO-5-(1-METHYL-6-TRIFLUOROMETHYL-2,4-DIOXO-1,2,3,4-TETRAHYDROPYRIMIDIN-3-YL)PHENOXY]-2-PYRIDYLOXY]ACETATE AND 2,4-D CHOLINE SALT AND METHOD FOR CONTROLLING WEEDS**
[54] **COMPOSITION D'HERBICIDE COMPRENANT [3-[2-CHLORO-4-FLUORO-5-(1-METHYLE-6-TRIFLUOROMETHYLE-2,4-DIOXO-1,2,3,4-TETRAHYDROPYRIMIDINE-3-YL)PHENOXY]-2-PYRIDYLOXY]ACETATE ET UN SEL DE 2,4-D CHOLINE ET METHODE POUR CONTROLER LES MAUVAISES HERBES**
[72] SADA, YOSHINAO, JP
[73] SUMITOMO CHEMICAL COMPANY, LIMITED, JP
[85] 2019-01-15
[86] 2017-07-21 (PCT/JP2017/026536)
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[30] JP (2016-144154) 2016-07-22
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[51] **Int.Cl. E05B 63/00 (2006.01) E05B 9/00 (2006.01) E05B 65/00 (2006.01)**
[25] EN
[54] **PATCH LOCK ASSEMBLY FOR USE IN A DOOR LATCH SYSTEM**
[54] **ASSEMBLAGE DE BLOC DE VERROU A UTILISER DANS UN SYSTEME DE LOQUET DE PORTE**
[72] SULLIVAN, SCOTT P., US
[73] HANCHETT ENTRY SYSTEMS, INC., US
[86] (3031155)
[87] (3031155)
[22] 2019-01-23
[30] US (62/620,791) 2018-01-23

[11] **3,031,182**
[13] C
[51] **Int.Cl. A01N 43/54 (2006.01) A01N 37/40 (2006.01) A01N 57/20 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDE COMPOSITION INCLUDING ETHYL [3-[2-CHLORO-4-FLUORO-5-1-METHYL-6-TRIFLUOROMETHYL-2,4-DIOXO-1,2,3,4-TETRAHYDROPYRIMIDIN-3-YL)PHENOXY]-2-PYRIDYLOXY]ACETATE AND ONE OR MORE DICAMBA SALTS AND WEED CONTROL METHOD**
[54] **COMPOSITION D'HERBICIDE COMPRENANT DE L'ETHYLE [3-[2-CHLORO-4-FLURO-5-1-METHYLE-6-TRIFLUOROMETHYLE-2,4-DIOXO-1,2,3,4-TETRAHYDROPYRIMIDINE-3-YL) PHENOXY]-2-PYRIDYLOXY]ACETATE ET UN OU PLUSIEURS SELS DE DICAMBA, ET METHODE DE CONTROLE DES MAUVAISES HERBES**
[72] SADA, YOSHINAO, JP
[73] SUMITOMO CHEMICAL COMPANY, LIMITED, JP
[85] 2019-01-17
[86] 2017-07-21 (PCT/JP2017/026531)
[87] (WO2018/016641)
[30] JP (2016-144153) 2016-07-22
[30] JP (2017-070209) 2017-03-31

[11] **3,031,646**
[13] C
[51] **Int.Cl. F16F 1/37 (2006.01) B29C 70/66 (2006.01) B32B 3/12 (2006.01) E04B 1/84 (2006.01)**
[25] EN
[54] **VIBRATION DAMPING SYSTEM**
[54] **SYSTEME D'AMORTISSEMENT DES VIBRATIONS**
[72] SHEN, HONGBIN, US
[72] NGUYEN, PHU, US
[73] THE GILL CORPORATION, US
[85] 2019-01-22
[86] 2017-06-29 (PCT/US2017/040099)
[87] (WO2018/017303)
[30] US (15/217,824) 2016-07-22

[11] **3,031,853**
[13] C
[51] **Int.Cl. G06F 30/10 (2020.01) A61F 5/01 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR BRACE DESIGNING**
[54] **PROCEDE ET SYSTEME DE CONCEPTION D'ATTELLE**
[72] MAK, TAKMAN, CN
[72] ZHENG, YONGPING, CN
[73] TELEFIELD MEDICAL IMAGING LIMITED, CN
[85] 2019-01-24
[86] 2017-06-09 (PCT/CN2017/087683)
[87] (WO2018/019034)
[30] CN (201610589134.0) 2016-07-25

[11] **3,032,369**
[13] C
[51] **Int.Cl. A47J 31/36 (2006.01) A47J 31/06 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **SYSTEM FOR PREPARING A BEVERAGE**
[54] **SYSTEME POUR LA PREPARATION D'UNE BOISSON**
[72] CORNELISSEN , MARJAN, NL
[72] KOOIJKER, KLAAS, NL
[72] OGINK, JUDITH MARGREET HANNEKE, NL
[72] RIJSKAMP, PETER, NL
[72] BEEKMAN, JARNO, NL
[73] KONINKLIJKE DOUWE EGBERTS B.V., NL
[85] 2019-01-29
[86] 2017-08-03 (PCT/NL2017/050511)
[87] (WO2018/026271)
[30] NL (2017280) 2016-08-03

[11] **3,032,513**
[13] C
[51] **Int.Cl. G01R 33/28 (2006.01) A47B 13/00 (2006.01) G01R 33/34 (2006.01) G01R 33/48 (2006.01)**
[25] EN
[54] **SUPPORT FOR AN ELECTRONIC TABLET FOR USE IN FUNCTIONAL MRI**
[54] **SUPPORT POUR UNE TABLETTE ELECTRONIQUE DESTINEE A ETRE UTILISEE EN IRM FONCTIONNELLE**
[72] MOORE, RICHARD J., US
[72] GOODE, JESSE, US
[73] INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION, US
[85] 2019-01-30
[86] 2017-08-03 (PCT/US2017/045242)
[87] (WO2018/027000)
[30] US (62/370,436) 2016-08-03

[11] **3,033,789**
[13] C
[51] **Int.Cl. G06F 3/01 (2006.01) G06F 3/041 (2006.01)**
[25] EN
[54] **THREE-DIMENSIONAL PERCEPTIONS IN HAPTIC SYSTEMS**
[54] **PERCEPTIONS TRIDIMENSIONNELLES DANS DES SYSTEMES HAPTIQUES**
[72] CARTER, THOMAS ANDREW, GB
[72] HARWOOD, ADAM DANIEL, GB
[72] LONG, BENJAMIN JOHN OLIVER, GB
[72] JONES, PHILIP, GB
[73] ULTRAHAPTICS IP LIMITED, GB
[85] 2019-02-13
[86] 2017-08-02 (PCT/EP2017/069569)
[87] (WO2018/024788)
[30] US (62/370,522) 2016-08-03
[30] US (62/370,865) 2016-08-04
[30] US (62/370,786) 2016-08-04
[30] US (62/397,419) 2016-09-21

[11] **3,033,891**
[13] C
[51] **Int.Cl. B01F 27/07 (2022.01) B01F 27/112 (2022.01)**
[25] EN
[54] **AGITATOR DEVICE AND METHOD**
[54] **DISPOSITIF AGITATEUR ET PROCEDE**
[72] EICHE, SAMMY, DE
[72] JUNG, JOCHEN, DE
[72] KIKILLUS, FLORIAN, DE
[72] ROHN, NICOLE, DE
[72] KASTNER, BERND, DE
[73] EKATO RUEHR-UND MISCHTECHNIK GMBH, DE
[85] 2019-02-12
[86] 2017-08-11 (PCT/EP2017/070404)
[87] (WO2018/029332)
[30] DE (10 2016 115 046.0) 2016-08-12

[11] **3,034,059**
[13] C
[51] **Int.Cl. A01D 46/24 (2006.01) A01D 46/30 (2006.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR HARVESTING AND DILUTING USING AERIAL DRONES, FOR ORCHARDS, PLANTATIONS AND GREEN HOUSES**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE RECOLTE ET DE DILUTION AU MOYEN DE DRONES AERIENS, POUR DES VERGERS, DES PLANTATIONS ET DES SERRES**
[72] MAOR, YANIV, IL
[73] TEVEL AEROBOTICS TECHNOLOGIES LTD, IL
[85] 2019-02-14
[86] 2017-08-17 (PCT/IL2017/050914)
[87] (WO2018/033922)
[30] US (62/376,713) 2016-08-18
[30] US (62/465,965) 2017-03-02

[11] **3,034,713**
[13] C
[51] **Int.Cl. G02B 27/01 (2006.01)**
[25] EN
[54] **LARGE EXIT PUPIL WEARABLE NEAR-TO-EYE VISION SYSTEMS EXPLOITING FREEFORM EYEPIECES**
[54] **SYSTEMES DE VISION PROCHE DE L'OEIL PORTABLES A GRANDE PUPILLE DE SORTIE UTILISANT DES OCULAIRES DE FORME LIBLE**
[72] JONES, FRANK, CA
[72] BACQUE, JAMES BENSON, CA
[72] HILKES, ROBERT, CA
[72] ERSHADI, MEHDI AREZOOMAND, CA
[72] HARRIS, MARK, CA
[72] PAWSON, JON, CA
[73] ESIGHT CORP., CA
[85] 2019-02-11
[86] 2017-08-14 (PCT/CA2017/000190)
[87] (WO2018/027299)
[30] US (62/374,208) 2016-08-12

[11] **3,038,117**
[13] C
[51] **Int.Cl. E04F 15/02 (2006.01)**
[25] EN
[54] **DECK FRAMING SYSTEM**
[54] **SYSTEME DE CHARPENTE DE TABLIER**
[72] BURT, KEVIN T., US
[72] SHERSTAD, MATTHEW CARLYLE, US
[72] FLATT, KEVIN B., US
[72] JESIOLOWSKI, AARON, US
[72] LUCZYCKI, GEOFF T., US
[73] FORTRESS IRON, LP, US
[85] 2019-03-22
[86] 2017-10-04 (PCT/US2017/055158)
[87] (WO2018/067712)
[30] US (62/404,616) 2016-10-05

[11] **3,039,000**
[13] C
[51] **Int.Cl. C02F 9/00 (2023.01) C02F 1/00 (2006.01) C02F 1/24 (2006.01) C02F 1/44 (2006.01) C02F 1/52 (2006.01) C02F 1/28 (2006.01)**
[25] EN
[54] **A METHOD AND SYSTEM FOR CONTROLLING HYDROPHOBIC CONDITIONS AND FOULING IN WATER INTENSIVE PROCESSES**
[54] **PROCEDE ET SYSTEME DE CONTROLE DE CONDITIONS HYDROPHOBES ET D'ENCRASSEMENT DANS DES TRAITEMENTS INTENSIFS DE L'EAU**
[72] HESAMPOUR, MEHRDAD, FI
[72] ABINET, RODERICK, FI
[72] PIIRONEN, MARJATTA, FI
[72] KORTE, EIJA, FI
[72] JOENSUU, IIRIS, FI
[73] KEMIRA OYJ, FI
[85] 2019-04-01
[86] 2017-10-06 (PCT/FI2017/050708)
[87] (WO2018/065674)
[30] FI (20165758) 2016-10-07

[11] **3,039,800**
[13] C
[51] **Int.Cl. G06F 3/048 (2013.01)**
[25] EN
[54] **USER INTERFACE DEVICE FOR INDUSTRIAL VEHICLE**
[54] **DISPOSITIF D'INTERFACE UTILISATEUR POUR VEHICULE INDUSTRIEL**
[72] OCHENAS, JONATHAN, US
[72] NEUBERT, KATHARINE, US
[73] CROWN EQUIPMENT CORPORATION, US
[85] 2019-04-08
[86] 2017-11-17 (PCT/US2017/062130)
[87] (WO2018/098021)
[30] US (62/425,099) 2016-11-22

[11] **3,040,308**
[13] C
[51] **Int.Cl. G06F 3/048 (2013.01)**
[25] EN
[54] **USER INTERFACE DEVICE FOR INDUSTRIAL VEHICLE**
[54] **DISPOSITIF D'INTERFACE UTILISATEUR POUR VEHICULE INDUSTRIEL**
[72] OCHENAS, JONATHAN, US
[72] NEUBERT, KATHARINE, US
[73] CROWN EQUIPMENT CORPORATION, US
[85] 2019-04-11
[86] 2017-11-17 (PCT/US2017/062140)
[87] (WO2018/098025)
[30] US (62/425,099) 2016-11-22

[11] **3,040,471**
[13] C
[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/20 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR UNIVERSAL CONTROL ACCOUNT ACTIVITIES**
[54] **PROCEDE ET SYSTEME POUR ACTIVITES DE COMPTE DE COMMANDE UNIVERSELLES**
[72] ANDERSON, JAMES JOHN, US
[72] MALHOTRA, SANDEEP, US
[72] DHALA, AMYN MOHAMED, US
[72] JOHNSON, ALAN, GB
[73] MASTERCARD INTERNATIONAL INCORPORATED, US
[85] 2019-04-12
[86] 2017-09-11 (PCT/US2017/050940)
[87] (WO2018/075162)
[30] US (15/296,527) 2016-10-18

[11] **3,041,077**
[13] C
[51] **Int.Cl. C07J 9/00 (2006.01) A61K 31/575 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **OXYSTEROLS AND METHODS OF USE THEREOF**
[54] **OXYSTEROLS ET LEURS PROCEDES D'UTILISATION**
[72] SALITURO, FRANCESCO G., US
[72] ROBICHAUD, ALBERT J., US
[72] MARTINEZ BOTELLA, GABRIEL, US
[72] HARRISON, BOYD L., US
[72] GRIFFIN, ANDREW, CA
[72] LA, DANIEL, US
[73] SAGE THERAPEUTICS, INC., US
[85] 2019-04-17
[86] 2017-10-18 (PCT/US2017/057276)
[87] (WO2018/075698)
[30] US (62/409,768) 2016-10-18
[30] US (62/409,756) 2016-10-18

[11] **3,041,210**
[13] C
[51] **Int.Cl. B05B 12/08 (2006.01) H01M 8/0228 (2016.01) B05B 13/02 (2006.01) B05B 17/06 (2006.01) B65G 15/00 (2006.01)**
[25] EN
[54] **A COATING SYSTEM**
[54] **SYSTEME DE REVETEMENT**
[72] SOUSA, DUARTE RUI, CA
[72] HUSSAIN, NABEEL, ZA
[73] HYPLAT (PTY) LTD, ZA
[85] 2019-04-18
[86] 2017-10-18 (PCT/IB2017/056469)
[87] (WO2018/073758)
[30] GB (1617697.6) 2016-10-19

[11] **3,041,574**
[13] C
[51] **Int.Cl. B60P 3/075 (2006.01) B60P 3/077 (2006.01) B60P 3/079 (2006.01)**
[25] EN
[54] **INTEGRATED MANDREL VEHICLE RESTRAINT WITH PEDAL TENSIONER**
[54] **DISPOSITIF DE RETENUE DE VEHICULE A MANDRIN INTEGRE AVEC TENDEUR DE PEDALE**
[72] HUCK, KENNETH W., US
[73] TRINITY RAIL GROUP, LLC, US
[86] (3041574)
[87] (3041574)
[22] 2019-04-29
[30] US (62/665,058) 2018-05-01

[11] **3,041,580**
[13] C
[51] **Int.Cl. B22D 11/00 (2006.01) B21B 3/00 (2006.01) B22D 11/12 (2006.01) C22C 21/06 (2006.01) C22C 21/08 (2006.01) C22C 21/10 (2006.01) C22F 1/047 (2006.01) C22F 1/053 (2006.01)**
[25] EN
[54] **HIGH STRENGTH 7XXX SERIES ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME**
[54] **ALLIAGES D'ALUMINIUM DE HAUTE RESISTANCE LA GAMME 7XXX ET PROCEDES POUR LEUR FABRICATION**
[72] FELBERBAUM, MILAN, US
[72] DAS, SAZOL KUMAR, US
[72] BENDZINSKI, DUANE E., US
[72] KAMAT, RAJEEV G., US
[72] PIROTEALA, TUDOR, US
[72] TALLA, RAJASEKHAR, US
[73] NOVELIS INC., US
[85] 2019-04-23
[86] 2017-09-27 (PCT/US2017/053737)
[87] (WO2018/080708)
[30] US (62/413,764) 2016-10-27
[30] US (62/413,591) 2016-10-27
[30] US (62/505,944) 2017-05-14
[30] US (62/529,028) 2017-07-06

[11] **3,042,497**
[13] C
[51] **Int.Cl. A61K 36/68 (2006.01) A23K 10/30 (2016.01)**
[25] EN
[54] **METHODS AND ANIMAL FEED FOR INCREASING URINE VOLUME AND REDUCING URINE PH IN NON-HUMAN ANIMALS**
[54] **METHODES ET NOURRITURE POUR ANIMAUX POUR ACCROITRE LE VOLUME D'URINE ET REDUIRE LE PH D'URINE CHEZ LES ANIMAUX NON HUMAINS**
[72] JUDSON, HOWARD GLENN, NZ
[72] EDWARDS, GRANT RAYMOND, NZ
[72] BARRELL, GRAHAM KEITH, NZ
[73] PGG WRIGHTSON SEEDS LIMITED, NZ
[85] 2019-05-01
[86] 2016-11-02 (PCT/NZ2016/050175)
[87] (WO2017/078544)
[30] NZ (713849) 2015-11-02

[11] **3,043,104**
[13] C
[51] **Int.Cl. H04L 1/00 (2006.01) H04L 1/08 (2006.01) H04L 1/20 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR TRANSMITTING DOMESTIC DATA**
[54] **PROCEDE ET DISPOSITIF D'EMISSION DE DONNEES DU BATIMENT**
[72] PETKOV, HRISTO, DE
[72] LAUTENBACHER, THOMAS, DE
[72] KAUPPERT, THOMAS, DE
[72] GOTTSCHALK, KLAUS, DE
[73] DIEHL METERING SYSTEMS GMBH, DE
[85] 2019-05-07
[86] 2017-10-24 (PCT/EP2017/001245)
[87] (WO2018/091126)
[30] DE (10 2016 013 653.7) 2016-11-16

[11] **3,043,229**
[13] C
[51] **Int.Cl. G21C 17/013 (2006.01) F22B 37/00 (2006.01)**
[25] EN
[54] **DRILLING APPARATUS FOR WORKING ON TUBES IN A RADIOACTIVE ENVIRONMENT**
[54] **APPAREIL DE PERCAGE POUR L'USINAGE DE TUBES DANS UN ENVIRONNEMENT RADIOACTIF**
[72] ZIEGELMEYER, FRITZ, DE
[73] WESTINGHOUSE ELECTRIC GERMANY GMBH, DE
[85] 2019-05-08
[86] 2017-11-07 (PCT/EP2017/001292)
[87] (WO2018/086734)
[30] DE (10 2016 013 245.0) 2016-11-08

[11] **3,043,336**
[13] C
[51] **Int.Cl. G05D 1/223 (2024.01) B64U 20/30 (2023.01) H02J 7/00 (2006.01) G05D 1/654 (2024.01) G05D 1/85 (2024.01)**
[25] EN
[54] **SAFETY SYSTEM FOR OPERATION OF AN UNMANNED AERIAL VEHICLE**
[54] **SYSTEME DE SECURITE POUR LE FONCTIONNEMENT D'UN VEHICULE AERIEN SANS PILOTE**
[72] MATUSZESKI, THADDEUS BENJAMIN, US
[72] LOTT, WILLIAM ARDEN, US
[72] LISOSKI, DEREK, US
[73] AEROVIRONMENT, INC., US
[85] 2019-05-08
[86] 2017-11-09 (PCT/US2017/060945)
[87] (WO2018/089694)
[30] US (62/421,163) 2016-11-11

[11] **3,043,632**
[13] C
[51] **Int.Cl. A01D 43/06 (2006.01) A01D 41/06 (2006.01) A01D 47/00 (2006.01) A01D 57/20 (2006.01) A01D 61/02 (2006.01) A01D 75/00 (2006.01)**
[25] EN
[54] **DRAPER CANVAS SEAL**
[54] **CACHET D'UN CONVOYEUR A TOILE**
[72] TALBOT, FRANCOIS R., CA
[72] COUDIERE, ROMAIN ETIENNE GUY, CA
[73] MACDON INDUSTRIES LTD., CA
[86] (3043632)
[87] (3043632)
[22] 2019-05-17
[30] US (16031051) 2018-07-10

[11] **3,044,218**
[13] C
[51] **Int.Cl. B64F 1/12 (2006.01) B64U 70/90 (2023.01) B64D 1/22 (2006.01) B64D 9/00 (2006.01) B64F 1/32 (2006.01)**
[25] EN
[54] **VEHICLE DOCKING SYSTEMS, PAYLOAD TRANSFER SYSTEMS, AND RELATED METHODS**
[54] **SYSTEMES D'AMARRAGE DES VEHICULES, SYSTEMES DE TRANSFERT DE LA CHARGE UTILE ET PROCEDES CONNEXES**
[72] MARTENS, ERIC JOHN, US
[73] THE BOEING COMPANY, US
[86] (3044218)
[87] (3044218)
[22] 2019-05-23
[30] US (16/047,966) 2018-07-27

[11] **3,046,032**
[13] C
[51] **Int.Cl. C08F 220/44 (2006.01) C08F 8/42 (2006.01)**
[25] EN
[54] **EXTRUDED POLYACRYLONITRILE COPOLYMER**
[54] **COPOLYMERE DE POLYACRYLONITRILE EXTRUDE**
[72] EBDON, NICHOLAS, AU
[72] KYRATZIS, ILIAS LOUIS, AU
[72] MAURDEV, GEORGE, AU
[72] O'SHEA, MIKE, AU
[72] GERAKIOS, MICHAEL, AU
[73] METIS TECHNOLOGIES PTY LTD, AU
[85] 2019-06-04
[86] 2017-11-30 (PCT/AU2017/000254)
[87] (WO2018/102848)
[30] AU (2016904999) 2016-12-05

[11] **3,046,057**
[13] C
[51] **Int.Cl. G01N 35/00 (2006.01) G01N 33/48 (2006.01) G01N 33/50 (2006.01) G01N 33/62 (2006.01) G01N 33/68 (2006.01) G01N 33/92 (2006.01)**
[25] EN
[54] **SPATIAL GENOMICS WITH CO-REGISTERED HISTOLOGY**
[54] **GENOMIQUE SPATIALE AVEC HISTOLOGIE CO-ENREGISTREE**
[72] MITRA, PARTHA P., US
[73] CLARAPATH, INC., US
[85] 2019-06-04
[86] 2016-12-07 (PCT/US2016/065461)
[87] (WO2017/100374)
[30] US (62/264,198) 2015-12-07
[30] US (15/130,785) 2016-04-15

[11] **3,046,439**
[13] C
[51] **Int.Cl. G01J 5/04 (2006.01) G01J 5/20 (2006.01)**
[25] FR
[54] **DETECTOR OF ELECTROMAGNETIC RADIATION AND IN PARTICULAR INFRARED RADIATION, AND PROCESS FOR PRODUCING SAID DETECTOR**
[54] **DETECTEUR DE RAYONNEMENT ELECTROMAGNETIQUE ET NOTAMMENT DE RAYONNEMENT INFRAROUGE ET PROCEDE POUR SA REALISATION**
[72] CORTIAL, SEBASTIEN, FR
[72] GUILLAUMONT, MARC, FR
[72] PELENC, DENIS, FR
[72] ZUCCHI, XAVIER, FR
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[73] ULIS, FR
[85] 2019-06-07
[86] 2017-12-29 (PCT/EP2017/084824)
[87] (WO2018/122382)
[30] FR (1663552) 2016-12-30

[11] **3,047,551**
[13] C
[51] **Int.Cl. G06F 21/51 (2013.01) G06F 21/57 (2013.01) G06F 21/12 (2013.01)**
[25] EN
[54] **SECURE PROVISIONING OF UNIQUE TIME-LIMITED CERTIFICATES TO VIRTUAL APPLICATION INSTANCES IN DYNAMIC AND ELASTIC SYSTEMS**
[54] **FOURNITURE SECURISEE DE CERTIFICATS LIMITES DANS LE TEMPS UNIQUES A DES INSTANCES D'APPLICATIONS VIRTUELLES DANS DES SYSTEMES DYNAMIQUES ET ELASTIQUES**
[72] PRICKETT, DAVID B., US
[72] MEDVINSKY, ALEXANDER, US
[73] ARRIS ENTERPRISES LLC, US
[85] 2019-06-18
[86] 2017-12-05 (PCT/US2017/064727)
[87] (WO2018/118418)
[30] US (15/384,256) 2016-12-19

[11] **3,047,615**
[13] C
[51] **Int.Cl. F16B 5/06 (2006.01) F41H 5/013 (2006.01) F16B 5/02 (2006.01) F16B 21/09 (2006.01)**
[25] FR
[54] **ANTI-PROJECTILE PROTECTION DEVICE FOR AN ATTACHMENT MEANS AND INSPECTION HATCH IMPLEMENTING SUCH A DEVICE**
[54] **DISPOSITIF DE PROTECTION ANTI PROJECTIONS POUR UN MOYEN DE FIXATION ET TRAPPE DE VISITE METTANT EN OEUVRE UN TEL DISPOSITIF**
[72] TANTY, FABIEN, FR
[72] MALLAT, DIDIER, FR
[72] LEBAILLIF, DAVID, FR
[73] NEXTER SYSTEMS, FR
[85] 2019-06-19
[86] 2017-12-18 (PCT/FR2017/053638)
[87] (WO2018/115671)
[30] FR (1601818) 2016-12-19

[11] **3,047,791**
[13] C
[51] **Int.Cl. A61B 17/12 (2006.01)**
[25] EN
[54] **MULTIBAND LIGATION DEVICE**
[54] **DISPOSITIF DE LIGATURE MULTIBANDE**
[72] TAFFA, MARK, AU
[72] PROFACA, MARK, AU
[72] CROSTON, THOMAS ROBERT, AU
[72] SHORES, DANIEL THOMAS, AU
[72] SOKOLOV, RICHARD, AU
[73] HORTEN MEDICAL PTY LTD, AU
[85] 2019-06-20
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[25] FR
[54] **METHOD FOR SUPPLYING AIR AT A CONTROLLED TEMPERATURE TO A CABIN OF A LAND VEHICLE, AND LAND VEHICLE**
[54] **PROCEDE D'ALIMENTATION EN AIR A TEMPERATURE CONTROLEE D'UNE CABINE DE VEHICULE TERRESTRE ET VEHICULE TERRESTRE**
[72] FRANKENBERGER, ANNEKATHRIN, FR
[72] KRAWANJA, ANDREAS, AT
[72] MENGELLE, THIERRY, FR
[73] LIEBHERR-AEROSPACE TOULOUSE SAS, FR
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[25] EN
[54] **REDUCING PARASITIC CAPACITANCE AND COUPLING TO INDUCTIVE COUPLER MODES**
[54] **REDUCTION DE CAPACITE PARASITE ET COUPLAGE A DES MODES DE COUPLEUR INDUCTIF**
[72] MEGRANT, ANTHONY EDWARD, US
[73] GOOGLE LLC, US
[85] 2019-07-02
[86] 2017-12-15 (PCT/US2017/066567)
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[54] **USER EQUIPMENTS, BASE STATIONS AND METHODS**
[54] **EQUIPEMENTS D'UTILISATEUR, STATIONS DE BASE ET PROCEDES**
[72] AIBA, TATSUSHI, US
[72] SHENG, JIA, US
[72] NOGAMI, TOSHIZO, US
[73] FG INNOVATION COMPANY LIMITED, CN
[73] SHARP KABUSHIKI KAISHA, JP
[85] 2019-07-02
[86] 2018-01-02 (PCT/US2018/012047)
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[25] EN
[54] **PREDICTIVE TUNING SYSTEM**
[54] **SYSTEME DE SYNTONISATION PREDICTIVE**
[72] FERNANDES FEITICEIRO SOARES DELICADO, NELSON, PT
[72] MARQUES VITAL, CATARINA ALEXANDRA, PT
[72] GARBACZ, BARBARA MARIA, PT
[72] SANTOS RODRIGUES, SONIA SOFIA, PT
[72] MAGALHAES SARAIVA, MARIO, PT
[72] RAMALHO DOS SANTOS ROSADO, ANDRE, PT
[72] DOS REIS FERNANDES GAMA, ANA RAQUEL, PT
[72] DE SOUSA ROSA DA CRUZ FERNANDES, BRUNO, PT
[73] NOS INOVACAO, S.A., PT
[85] 2019-07-24
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[25] EN
[54] **GLASS LED ASSEMBLY**
[54] **ENSEMBLE DE DEL EN VERRE**
[72] RAMAIAH, RAGHU, US
[72] WANG, ZHIYONG, CN
[72] XIAO, KUN, CN
[72] BAO, ZHIFENG, CN
[72] REN, XIAOJUN, CN
[73] SAVANT TECHNOLOGIES LLC, US
[85] 2019-07-29
[86] 2017-05-11 (PCT/CN2017/083937)
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[25] EN
[54] **VEHICLE STEERING ASSEMBLY**
[54] **ENSEMBLE DE DIRECTION DE VEHICULE**
[72] CARLSON, JASON, US
[73] GREAT PLAINS MANUFACTURING, INC., US
[86] (3051942)
[87] (3051942)
[22] 2019-08-14
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[25] EN
[54] **ANTI HUMAN ANNEXIN A1 ANTIBODY**
[54] **ANTICORPS ANTI-ANNEXINE A1 HUMAINE**
[72] HAYS, HENRY CHARLES WILSON, GB
[72] WOOD, CHRISTOPHER BARRY, GB
[72] FLATAU, TINA CAROLINE, GB
[73] MEDANNEX LTD., GB
[85] 2019-08-07
[86] 2018-02-08 (PCT/EP2018/053232)
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[25] EN
[54] **AUDIO-BASED LOAD CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DE CHARGE A BASE AUDIO**
[72] BAKER, RHODES B., US
[72] HARTE, MATTHEW V., US
[72] KARC, JEFFREY, US
[72] KNODE, GALEN E., US
[72] NILL, JOHN B., US
[72] SHUKLA, JAYKRISHNA A., US
[73] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2019-08-07
[86] 2018-02-07 (PCT/US2018/017268)
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[25] EN
[54] **FLOTATION ARRANGEMENT**
[54] **AGENCEMENT DE FLOTTAISON**
[72] RINNE, ANTTI, FI
[72] BOURKE, PETER, AU
[73] METSO OUTOTEC FINLAND OY, FI
[85] 2019-08-08
[86] 2018-02-14 (PCT/FI2018/050108)
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[30] FI (PCT/FI2017/050094) 2017-02-15

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[51] **Int.Cl. C07C 273/16 (2006.01) C07C 275/00 (2006.01)**
[25] EN
[54] **METHOD FOR GRANULATING UREA**
[54] **PROCEDE DE GRANULATION D'UREE**
[72] NAKAMURA, SHUHEI, JP
[72] USHIFUSA, AKIKO, JP
[72] SASAKI, KEIGO, JP
[73] TOYO ENGINEERING CORPORATION, JP
[85] 2019-08-29
[86] 2018-03-06 (PCT/JP2018/008574)
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[51] **Int.Cl. C07K 16/26 (2006.01) G01N 33/74 (2006.01)**
[25] EN
[54] **ANTIBODIES TO HUMAN ERYTHROFERRONE AND USES THEREOF**
[54] **ANTICORPS DIRIGES CONTRE L'ERYTHROFERRONE ET LEURS UTILISATIONS**
[72] WESTERMAN, MARK, US
[72] HAN, HUILING, US
[72] OSTLAND, VAUGHN, US
[73] INTRINSIC LIFESCIENCES LLC, US
[85] 2019-09-09
[86] 2018-03-13 (PCT/US2018/022238)
[87] (WO2018/169999)
[30] US (62/470,853) 2017-03-13
[30] US (62/471,195) 2017-03-14

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[13] C
[51] **Int.Cl. A01G 31/02 (2006.01)**
[25] EN
[54] **AUTOMATIC SYSTEM FOR CONTROL AND MANAGEMENT OF HYDROPONIC AND AEROPONIC CULTIVATION**
[54] **SYSTEME AUTOMATIQUE DE COMMANDE ET DE GESTION DE CULTURE HYDROPONIQUE ET AEROPONIQUE**
[72] CASELLI, GIULIO, IT
[72] CERVONE, CHRISTIAN, IT
[72] CARBONE, MASSIMILIANO, IT
[72] TEODORI, JACOPO, IT
[72] FERRIGNI, ARES, IT
[73] WALLFARM SRL, IT
[85] 2019-09-19
[86] 2018-03-21 (PCT/IB2018/051887)
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[25] EN
[54] **MOBILE CAGE SYSTEM FOR RESTORING MOTION KINEMATICS OF THE SPINE**
[54] **SYSTEME DE CAGE MOBILE POUR RESTAURER LA CINEMATIQUE DE MOUVEMENT DE LA COLONNE VERTEBRALE**
[72] DZIOBA, ROBERT B., US
[73] DZIOBA, ROBERT B., US
[85] 2019-09-23
[86] 2018-03-19 (PCT/US2018/023097)
[87] (WO2018/187021)
[30] US (62/481,258) 2017-04-04
[30] US (15/863,426) 2018-01-05

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[13] C
[51] **Int.Cl. B66F 7/28 (2006.01) B66F 7/14 (2006.01)**
[25] EN
[54] **DROP TABLE WITH MOTOR FEEDBACK**
[54] **PLATEFORME DE MONTAGE/DEMONTAGE AVEC DISPOSITIF DE RETROACTION POUR MOTEURS**
[72] POTTER, MARK RAYMOND, US
[72] SCHUMACHER, STEPHEN HAROLD, US
[73] NABHOLZ CONSTRUCTION CORPORATION, US
[86] (3059382)
[87] (3059382)
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[54] **SELF CLEANING DRILLING RIG FLUID CONTAINMENT**
[54] **APPAREIL DE CONFINEMENT AUTONETTOYANT DE FLUIDE D'INSTALLATION DE FORAGE**
[72] HOLTBY, QUINN A. J., CA
[73] KATCH KAN HOLDINGS LTD., CA
[86] (3060175)
[87] (3060175)
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[25] EN
[54] **EXHAUST GAS TREATMENT SYSTEM AND EXHAUST GAS PURIFICATION METHOD**
[54] **SYSTEME D'EPURATION DES GAZ D'ECHAPPEMENT ET PROCEDE DE PURIFICATION DESGAZ D'ECHAPPEMENT**
[72] SUZUKI, HIDENORI, JP
[72] OKA, KAZUKI, JP
[73] TOKYO ROKI CO., LTD., JP
[85] 2019-10-28
[86] 2019-04-22 (PCT/JP2019/016970)
[87] (WO2019/208478)
[30] JP (2018-084490) 2018-04-25

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[51] **Int.Cl. B61D 7/20 (2006.01)**
[25] EN
[54] **HOPPER CAR DISCHARGE GATES**
[54] **PORTES D'EVACUATION DE WAGON-TREMIE**
[72] REITZ, LEE A., US
[73] TRINITY RAIL GROUP, LLC, US
[85] 2019-10-16
[86] 2018-05-23 (PCT/US2018/034186)
[87] (WO2018/222468)
[30] US (62/514,486) 2017-06-02
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[25] EN
[54] **DISCONNECTING AND SUPPORTING QUICK RELEASE ELECTRICAL FIXTURES**
[54] **DECONNEXION ET SUPPORT D'APPAREILS ELECTRIQUES A LIBERATION RAPIDE**
[72] KOHEN, RAN ROLAND, US
[73] SKYX PLATFORMS CORP., US
[85] 2019-10-17
[86] 2018-04-17 (PCT/US2018/027956)
[87] (WO2018/195068)
[30] US (62/486,132) 2017-04-17

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[51] **Int.Cl. F17C 1/06 (2006.01)**
[25] EN
[54] **POLAR-CAP-REINFORCED PRESSURE VESSEL**
[54] **RESERVOIR SOUS PRESSION RENFORCE PAR DES CALOTTES POLAIRES**
[72] SONNEN, MICHAEL, DE
[72] OTREMBA, FRANK, DE
[72] BAUMER, THOMAS, DE
[72] MIDDENDORF, CHRISTIAN, DE
[72] BICKENDORF, HEINZ-WILLI, DE
[73] NPROXX B.V., NL
[85] 2019-11-04
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[87] (WO2018/210606)
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[25] EN
[54] **INJECTION HEAD FOR LIQUEFIED FIRE-EXTINGUISHING AGENT**
[54] **TETE DE PULVERISATION POUR AGENT D'EXTINCTION D'INCENDIE LIQUEFIE**
[72] INOUE, YASUFUMI, JP
[72] YABUSHITA, MASAHIRO, JP
[72] KAMO, MITSUNORI, JP
[73] KOATSU CO., LTD., JP
[85] 2019-11-19
[86] 2018-05-15 (PCT/JP2018/018699)
[87] (WO2018/212160)
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[25] EN
[54] **NON-HAZARDOUS AEROSOL DETERGENT COMPOSITION**
[54] **COMPOSITION DE DETERGENT EN AEROSOL NON DANGEREUX**
[72] MIYAOKA, MASANOBU, JP
[72] MIYAOKA, YUUJI, JP
[73] KOBEGOSEI CO.,LTD., JP
[85] 2019-11-26
[86] 2018-05-31 (PCT/JP2018/021096)
[87] (WO2018/221708)
[30] JP (2017-108838) 2017-05-31

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[51] **Int.Cl. E02D 5/28 (2006.01) E02D 5/52 (2006.01) E02D 5/74 (2006.01)**
[25] EN
[54] **MODULAR FOUNDATION SUPPORT SYSTEMS AND METHODS INCLUDING SHAFTS WITH INTERLOCKING, SELF-ALIGNING AND TORQUE TRANSMITTING COUPLINGS**
[54] **SYSTEMES ET METHODES DE SUPPORTS DE FONDATION MODULAIRES COMPRENANT DES ARBRES A COUPLAGES IMBRIQUES, AUTOCENTREURS ET TRANSMETTEURS DE COUPLE**
[72] KAUFMAN, KEVIN, US
[72] WILKIS, MICHAEL D., US
[73] PIER TECH SYSTEMS, LLC, US
[86] (3065170)
[87] (3065170)
[22] 2019-12-16
[30] US (16/229514) 2018-12-21

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[51] **Int.Cl. A61F 2/38 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **FEMORAL COMPONENT FOR A KNEE PROSTHESIS WITH IMPROVED ARTICULAR CHARACTERISTICS**
[54] **COMPOSANT FEMORAL POUR UNE PROTHESE DU GENOU AVEC CARACTERISTIQUES ARTICULAIRES AMELIOREES**
[72] PARISI, RAYMOND C., US
[72] DRURY, NICK, US
[72] BALDRIDGE, CHARLES A., US
[73] ZIMMER, INC., US
[86] (3065220)
[87] (3065220)
[22] 2012-04-27
[62] 2,839,432
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[30] US (61/561,658) 2011-11-18
[30] US (61/579,873) 2011-12-23
[30] US (61/592,575) 2012-01-30
[30] US (61/594,113) 2012-02-02
[30] US (61/621,372) 2012-04-06
[30] US (61/621,373) 2012-04-06
[30] US (61/621,370) 2012-04-06

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[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **DUAL-WIREFORM LIMITED EXPANSION HEART VALVES**
[54] **VALVULES CARDIAQUES A EXPANSION LIMITEE EN FORME DE DOUBLE FIL**
[72] JOHNSON, DERRICK, US
[72] MURAD, MICHAEL C., US
[72] FORD, STEVEN M., US
[72] RODRIGUEZ, RODOLFO, US
[73] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2019-11-27
[86] 2018-06-20 (PCT/US2018/038527)
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[30] US (62/523,157) 2017-06-21

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[13] C
[51] **Int.Cl. C07K 16/32 (2006.01) A61K 47/68 (2017.01)**
[25] EN
[54] **ENGINEERED ANTIBODY COMPOUNDS AND CONJUGATES THEREOF**
[54] **COMPOSES D'ANTICORPS MODIFIES ET CONJUGUES DE CEUX-CI**
[72] BACICA, MICHAEL JAMES, US
[72] FENG, YIQING, US
[72] LEUNG, DONMIENNE DOEN MUN, US
[72] LINNIK, MATTHEW D., US
[72] MEZO, ADAM ROBERT, US
[72] PARKER, JAMES THOMAS, US
[72] TRIVEDI, PURVA VIVEK, US
[72] VALENZUELA, FRANCISCO ALCIDES, US
[72] XU, JIANGHUAI, US
[73] ELI LILLY AND COMPANY, US
[85] 2019-12-10
[86] 2018-06-14 (PCT/US2018/037495)
[87] (WO2018/232088)
[30] US (62/520,855) 2017-06-16

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[13] C
[51] **Int.Cl. A61M 5/32 (2006.01)**
[25] EN
[54] **SAFETY SYRINGE WITH NEEDLE REDIRECTION DEVICE**
[54] **SERINGUE DE SECURITE DOTEE D'UN DISPOSITIF DE REDIRECTION D'AIGUILLE**
[72] SHAW, THOMAS J., US
[72] SMALL, MARK, US
[73] RETRACTABLE TECHNOLOGIES, INC., US
[73] SHAW, THOMAS J., US
[85] 2019-12-17
[86] 2018-06-08 (PCT/US2018/036687)
[87] (WO2019/005454)
[30] US (15/635,346) 2017-06-28

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[51] **Int.Cl. H04L 9/32 (2006.01) G06F 21/31 (2013.01) H04L 67/54 (2022.01)**
[25] EN
[54] **IDENTITY AUTHENTICATION**
[54] **AUTHENTIFICATION D'IDENTITE**
[72] ZHOU, TIANJI, CN
[73] 10353744 CANADA LTD., CA
[85] 2019-12-20
[86] 2017-12-29 (PCT/CN2017/119701)
[87] (WO2019/037373)
[30] CN (201710737863.0) 2017-08-24

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[13] C
[51] **Int.Cl. A61L 2/08 (2006.01)**
[25] EN
[54] **A LIGHT AND DISINFECTION SYSTEM AND A METHOD FOR DISINFECTING AN ILLUMINATED SURFACE BY THE SYSTEM**
[54] **LUMIERE ET SYSTEME DE DESINFECTION ET PROCEDE POUR DESINFECTER UNE SURFACE ECLAIREE PAR LE SYSTEME**
[72] LEI, MING, CN
[72] ZHOU, HUISHENG, CN
[73] SAVANT TECHNOLOGIES LLC, US
[86] (3068496)
[87] (3068496)
[22] 2020-01-17
[30] CN (201910113788.X) 2019-02-14

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[13] C
[51] **Int.Cl. A61K 8/87 (2006.01) A61K 8/37 (2006.01) A61K 8/81 (2006.01) A61Q 17/04 (2006.01)**
[25] EN
[54] **LIGHT AESTHETIC SUNSCREEN COMPOSITIONS**
[54] **COMPOSITIONS D'ECRAN SOLAIRE A ESTHETIQUE LEGERE**
[72] ZANATTA, CINTHIA, US
[72] MARTIN, JEFFREY DANIEL, US
[72] CONSUL DE MORAES, ALICE APAREDICA, BR
[73] JOHNSON & JOHNSON CONSUMER INC. (A DELAWARE CORPORATION), US
[85] 2020-01-06
[86] 2018-07-13 (PCT/US2018/042045)
[87] (WO2019/014568)
[30] US (15/648,494) 2017-07-13
[30] US (16/033,528) 2018-07-12

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[13] C
[51] **Int.Cl. A61M 5/168 (2006.01) G06F 21/70 (2013.01) G16H 10/00 (2018.01) A61M 5/142 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **ASSEMBLIES, SYSTEMS AND METHODS FOR PROGRAMMING MEDICAL DEVICES**
[54] **ENSEMBLES, SYSTEMES ET PROCEDES DE PROGRAMMATION DE DISPOSITIFS MEDICAUX**
[72] SLUGGETT, ANDREW, AU
[72] DJURASEVICH, DANNY, AU
[72] CROCKETT, PAUL, AU
[73] INFUSION INNOVATIONS PTY LTD, AU
[85] 2020-01-09
[86] 2018-07-12 (PCT/AU2018/050721)
[87] (WO2019/010537)
[30] AU (2017902740) 2017-07-12

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[13] C
[51] **Int.Cl. B01F 27/2123 (2022.01) B01F 27/113 (2022.01)**
[25] EN
[54] **STIRRER DEVICE**
[54] **AGITATEUR**
[72] WOLFGANG, LAST, DE
[72] BIRD, DENNIS, DE
[73] EKATO RUEHR-UND MISCHTECHNIK GMBH, DE
[86] (3069944)
[87] (3069944)
[22] 2020-01-24

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[51] **Int.Cl. B23K 9/095 (2006.01) B23K 9/10 (2006.01) B23K 9/12 (2006.01) B23K 9/167 (2006.01) B23K 9/173 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHOD FOR ADAPTIVE CONTROL OF WIRE PREHEATING**
[54] **SYSTEMES ET PROCEDE DE COMMANDE ADAPTATIVE DE PRECHAUFFAGE DE FIL**
[72] DOYLE, BRIAN, US
[72] LIU, SHUANG, US
[72] MILLER, ERIK, US
[72] ANDERS, ADAM E., US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2020-01-17
[86] 2018-08-22 (PCT/US2018/047465)
[87] (WO2019/046058)
[30] US (15/690,563) 2017-08-30

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[13] C
[51] **Int.Cl. A47C 23/00 (2006.01) A47C 17/02 (2006.01) A47C 17/86 (2006.01)**
[25] EN
[54] **UNITARY COMPONENT FOR SECTIONAL SEATING APPARATUS**
[54] **COMPOSANT UNITAIRE POUR DISPOSITIF DE SIEGE SECTIONNEL**
[72] POLICICCHIO, BRUNO, US
[72] SILVER, JOSHUA, US
[73] MAX HOME, LLC, US
[86] (3070584)
[87] (3070584)
[22] 2020-01-31
[30] US (62/799,733) 2019-01-31

[11] **3,071,095**
[13] C
[51] **Int.Cl. H04L 27/26 (2006.01)**
[25] EN
[54] **TRANSMITTING APPARATUS, RECEIVING APPARATUS AND RADIO COMMUNICATION METHOD**
[54] **DISPOSITIF DE TRANSMISSION, DISPOSITIF DE RECEPTION, ET PROCEDE DE COMMUNICATION SANS FIL**
[72] SAITO, KEISUKE, JP
[72] TAKEDA, KAZUAKI, JP
[72] TAKEDA, KAZUKI, JP
[72] NAGATA, SATOSHI, JP
[72] WANG, LIHUI, CN
[72] HOU, XIAOLIN, CN
[73] NTT DOCOMO, INC., JP
[85] 2020-01-24
[86] 2017-07-28 (PCT/JP2017/027521)
[87] (WO2019/021474)

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[51] **Int.Cl. F21S 8/02 (2006.01) F21V 17/16 (2006.01) F21V 21/04 (2006.01)**
[25] EN
[54] **BAFFLE TRIM MASK SYSTEM**
[54] **SYSTEME DE MASQUE DE COMPENSATION DE DEFLECTEUR**
[72] STANGE, JULIE, US
[72] SINGH, ESHANK, US
[73] BROAN-NUTONE LLC, US
[86] (3071323)
[87] (3071323)
[22] 2020-02-05
[30] US (16/274,365) 2019-02-13

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[51] **Int.Cl. C09J 7/29 (2018.01) C09J 7/35 (2018.01) C09J 7/38 (2018.01) B32B 7/04 (2019.01) B32B 7/12 (2006.01) B32B 37/12 (2006.01)**
[25] EN
[54] **ADHESIVE PROPAGATION CONTROL USING BLOCKING SUB-LAYERS**
[54] **COMMANDE DE PROPAGATION D'ADHESIF A L'AIDE DE SOUS-COUCHES DE BLOCAGE**
[72] ZAFIROGLU, DIMITRI, US
[72] REES, JOHN JOSEPH MATTHEWS, US
[72] TSIARKEZOS, STEPHEN, US
[73] ENGINEERED FLOORS LLC, US
[85] 2020-01-28
[86] 2018-07-19 (PCT/US2018/042856)
[87] (WO2019/027689)
[30] US (15/664,876) 2017-07-31

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[13] C
[51] **Int.Cl. A01D 57/02 (2006.01)**
[25] EN
[54] **CROP HARVESTING HEADER WITH CAM CONTROLLED MOVEMENT OF THE REEL FINGERS**
[54] **TABLIER DE COUPE ET MOUVEMENT DES DOIGTS DE RABATTEUR COMMANDE PAR CAME**
[72] SHEARER, BRUCE ROBERT, CA
[73] MACDON INDUSTRIES LTD., CA
[85] 2020-02-12
[86] 2018-08-29 (PCT/CA2018/051040)
[87] (WO2019/046930)
[30] US (62/554,092) 2017-09-05

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[51] **Int.Cl. G05D 16/20 (2006.01) F04B 49/06 (2006.01)**
[25] EN
[54] **AUTOMATED PRESSURE CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DE PRESSION AUTOMATISE**
[72] CHRETIEN, ALEXANDER SIMON, US
[72] HUNTER, TIMOTHY HOLIMAN, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-02-13
[86] 2017-11-29 (PCT/US2017/063697)
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[51] **Int.Cl. B29B 7/32 (2006.01) B29B 7/60 (2006.01) B29B 7/72 (2006.01) D01D 1/00 (2006.01) D01F 1/00 (2006.01) D01F 6/00 (2006.01) B29B 7/74 (2006.01) B29B 7/88 (2006.01) B29B 17/00 (2006.01)**
[25] EN
[54] **POLYETHYLENE TEREPHTHALATE COLORING METHOD AND SYSTEM FOR MANUFACTURING A BULKED CONTINUOUS CARPET FILAMENT**
[54] **PROCEDE ET SYSTEME DE COLORATION DE POLYETHYLENE TEREPHTALATE POUR FABRIQUER UN FILAMENT DE TAPIS CONTINU GONFLANT**
[72] CLARK, THOMAS R., US
[73] ALADDIN MANUFACTURING CORPORATION, US
[85] 2020-02-19
[86] 2018-09-14 (PCT/US2018/051043)
[87] (WO2019/055762)
[30] US (62/559,443) 2017-09-15

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[51] **Int.Cl. H04W 4/029 (2018.01) H04W 4/38 (2018.01) H04Q 9/00 (2006.01)**
[25] EN
[54] **TELEMATICS ROAD READY SYSTEM INCLUDING A BRIDGE INTEGRATOR UNIT**
[54] **SYSTEME TELEMATIQUE PRET POUR LA ROUTE COMPRENANT UNE UNITE D'INTEGRATION DE PONT**
[72] TROUTMAN, SCOTT, US
[72] ELMER, ROGER, US
[72] JACKSON, BRETT, US
[72] KING, ANDREW, US
[73] TRUCK-LITE CO., LLC, US
[86] (3074847)
[87] (3074847)
[22] 2020-03-05
[30] US (16/293,578) 2019-03-05

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[25] EN
[54] **LAND CLEARING ATTACHMENT AND ROTOR FOR THE SAME**
[54] **ACCESSOIRE DE DEGAGEMENT DE TERRAIN ET ROTOR ASSOCIE**
[72] BOWLING, MARK G., US
[73] BOWLING, MARK G., US
[85] 2020-03-04
[86] 2018-09-21 (PCT/US2018/052155)
[87] (WO2019/060674)
[30] US (62/562,092) 2017-09-22
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[51] **Int.Cl. A01G 9/14 (2006.01) A01G 9/22 (2006.01) A01G 13/02 (2006.01) B32B 7/02 (2019.01) B32B 27/08 (2006.01) B32B 27/16 (2006.01) B32B 27/18 (2006.01) B32B 27/36 (2006.01)**
[25] EN
[54] **GREENHOUSE SCREEN**
[54] **ECRAN POUR SERRE**
[72] HOLGERSON, PER, SE
[72] ASPLUND, DANIEL, SE
[73] AB LUDVIG SVENSSON, SE
[85] 2020-03-06
[86] 2018-09-13 (PCT/EP2018/074773)
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[30] SE (1751124-7) 2017-09-14

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[51] **Int.Cl. A01G 9/02 (2018.01)**
[25] EN
[54] **PLANT GROWING TRAY SYSTEM**
[54] **SYSTEME DE PLATEAU DE CROISSANCE DE PLANTES**
[72] PHILIBERT, CARL, CA
[72] PHELAN, PARAIC ANTHONY, CA
[72] PLITT, RANDALL CLIFFORD, CA
[72] O'GORMAN. GREG JOHN, CA
[73] METHOD INNOVATION PARTNERS INC., CA
[86] (3075576)
[87] (3075576)
[22] 2020-03-13
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[25] EN
[54] **COMPOUNDS SUITABLE FOR PERSONAL CARE AND COSMETIC USES**
[54] **COMPOSES ADAPTES AUX SOINS PERSONNELS ET AUX PRODUITS DE BEAUTE**
[72] GUNDERMAN, ERIK, US
[72] SAPORITO, PAUL JOSEPH, US
[72] MATT, JOSEPH NICHOLAS, US
[72] PEREIRA, ABEL GONCALVES, US
[73] CRODA, INC., US
[85] 2020-03-19
[86] 2018-10-10 (PCT/US2018/055178)
[87] (WO2019/089202)
[30] US (62/579,991) 2017-11-01

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[25] EN
[54] **SYSTEM AND METHOD FOR RECONFIGURING AN AUTORACK**
[54] **SYSTEME ET PROCEDE SERVANT A RECONFIGURER UN WAGON PORTE-AUTOMOBILES**
[72] COSTON, KYLE R., US
[72] TURNER, GARY V., US
[72] HIGGINBOTHAM, DAVID W., US
[72] DEGROOT, ROBERT J., US
[73] TRINITY RAIL GROUP, LLC, US
[85] 2020-03-20
[86] 2018-11-08 (PCT/US2018/059824)
[87] (WO2019/094590)
[30] US (62/585,358) 2017-11-13
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[51] **Int.Cl. F23N 5/24 (2006.01) F23D 14/82 (2006.01) F24D 5/02 (2006.01) F24D 19/10 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR VENTED ROLLOUT SWITCH**
[54] **PROCEDE ET SYSTEME POUR COMMUTATEUR DE DEPLOIEMENT A EVENT**
[72] JOYNER, GEORGE LEE, JR., US
[72] MOODY, RANDALL, US
[72] BUTLER, JEFF, US
[73] ALLIED AIR ENTERPRISES INC., US
[86] (3076658)
[87] (3076658)
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[25] EN
[54] **REACTOR SYSTEMS**
[54] **SYSTEMES DE REACTEUR**
[72] RUDOLPH, ERIC, US
[72] SILVERBERG, PETE, US
[72] REISS, BARRY, US
[72] MURRAT, SARAH, US
[72] MITCHELL, COLTON, US
[73] ABEC, INC., US
[85] 2020-03-31
[86] 2018-10-02 (PCT/US2018/053880)
[87] (WO2019/070648)
[30] US (62/567,567) 2017-10-03
[30] US (62/633,844) 2018-02-22
[30] US (62,640,210) 2018-03-08
[30] US (62/675,935) 2018-05-24
[30] US (62/690,281) 2018-06-26

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[51] **Int.Cl. G02B 27/01 (2006.01) H04R 1/10 (2006.01)**
[25] EN
[54] **MIXED REALITY SPATIAL AUDIO**
[54] **AUDIO SPATIAL A REALITE MIXTE**
[72] SCHMIDT, BRIAN LLOYD, US
[72] TAJIK, JEHANGIR, US
[72] JOT, JEAN-MARC, US
[73] MAGIC LEAP, INC., US
[85] 2020-04-02
[86] 2018-10-17 (PCT/US2018/056385)
[87] (WO2019/079523)
[30] US (62/573,448) 2017-10-17
[30] US (62/631,418) 2018-02-15

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[51] **Int.Cl. E21B 33/12 (2006.01) C09K 8/42 (2006.01) E21B 33/13 (2006.01)**
[25] EN
[54] **P&A SETTING WITH EXOTHERMIC MATERIAL**
[54] **REGLAGE P&A AVEC MATERIAU EXOTHERMIQUE**
[72] SHAFER, RANDALL S., US
[73] CONOCOPHILLIPS COMPANY, US
[85] 2020-04-03
[86] 2018-12-13 (PCT/US2018/065446)
[87] (WO2019/118724)
[30] US (62/598,680) 2017-12-14
[30] US (16/219,010) 2018-12-13

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[51] **Int.Cl. A63F 9/24 (2006.01)**
[25] EN
[54] **LIVE ACTION CRAPS TABLE WITH MIRRORED REMOTE PLAYER STATION**
[54] **TABLE DE CRAPS A ACTION EN DIRECT AVEC STATION DE JOUEURS A DISTANCE EN MIROIR**
[72] FINK, TOMAZ, SI
[72] PECECNIK, JOZE, SI
[73] INTERBLOCK D.O.O., SI
[85] 2020-04-06
[86] 2018-10-05 (PCT/US2018/054752)
[87] (WO2019/071228)
[30] US (62/569,135) 2017-10-06

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[51] **Int.Cl. H04W 12/0431 (2021.01) H04W 12/041 (2021.01) G09C 1/00 (2006.01)**
[25] EN
[54] **SECURITY ESTABLISHMENT METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**
[54] **PROCEDE D'ETABLISSEMENT DE SECURITE, DISPOSITIF TERMINAL, ET DISPOSITIF DE RESEAU**
[72] AONO, HIROSHI, JP
[72] ZUGENMAIER, ALF, DE
[73] NTT DOCOMO, INC., JP
[85] 2020-04-08
[86] 2018-10-10 (PCT/JP2018/037791)
[87] (WO2019/074014)
[30] JP (2017-197108) 2017-10-10

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[51] **Int.Cl. H04B 1/40 (2015.01) G08C 17/02 (2006.01) H03L 7/08 (2006.01) H04B 1/59 (2006.01)**
[25] EN
[54] **WIRELESS SENSOR READER**
[54] **LECTEUR-DETECTEUR SANS FIL**
[72] ROWLAND, HARRY, US
[72] WATKINS, ROGER, US
[72] SUNDARAM, BALAMURUGAN, US
[72] PAUL, BRYAN, US
[72] AHN, IN SOO, US
[72] NAGY, MICHAEL, US
[73] ENDOTRONIX, INC., US
[86] (3080312)
[87] (3080312)
[22] 2010-03-19
[62] 2,967,730
[30] US (12/419,326) 2009-04-07

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[13] C
[51] **Int.Cl. G06N 20/00 (2019.01) G06F 40/56 (2020.01) G06N 3/02 (2006.01)**
[25] EN
[54] **METHOD OF AND SYSTEM FOR TRAINING MACHINE LEARNING ALGORITHM TO GENERATE TEXT SUMMARY**
[54] **PROCEDE ET SYSTEME POUR FORMER L'ALGORITHME D'APPRENTISSAGE AUTOMATIQUE POUR GENERER DES RESUMES DE TEXTE**
[72] SUBRAMANIAN, SANDEEP, CA
[72] LI, RAYMOND, CA
[72] PILAULT, JONATHAN, CA
[72] PAL, CHRISTOPHER, CA
[73] SERVICENOW CANADA INC., CA
[86] (3081222)
[87] (3081222)
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[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/966 (2013.01) A61M 25/01 (2006.01)**
[25] EN
[54] **PROSTHETIC HEART VALVE DELIVERY SYSTEM**
[54] **SYSTEME DE POSE DE VALVULE CARDIAQUE PROTHETIQUE**
[72] WALSH, BRANDON G., US
[72] ZHANG, JI, CA
[72] YANG, CHENG YONG, US
[73] JC MEDICAL, INC., US
[85] 2020-04-30
[86] 2019-01-04 (PCT/US2019/012408)
[87] (WO2019/136294)
[30] US (62/614,488) 2018-01-07

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[51] **Int.Cl. H03K 17/567 (2006.01) F24F 11/56 (2018.01) H05B 45/10 (2020.01) H05B 47/19 (2020.01) G05F 1/66 (2006.01) H05B 39/04 (2006.01)**
[25] EN
[54] **DUMMY LOAD CIRCUIT AND ELECTRICAL LOAD FOR SINGLE LIVE WIRE SWITCH**
[54] **CIRCUIT DE CHARGE FICTIVE ET CHARGE ELECTRIQUE POUR COMMUTATEUR UNIQUE DE FIL SOUS TENSION**
[72] CHEN, WEIHU, CN
[72] XING, DONG, CN
[72] WANG, AIJUN, CN
[72] WANG, ZHIYONG, CN
[72] HU, JINPENG, CN
[73] SAVANT TECHNOLOGIES LLC, US
[86] (3081418)
[87] (3081418)
[22] 2020-05-28
[30] CN (2019107068987) 2019-07-31

[11] **3,082,736**
[13] C
[51] **Int.Cl. H04B 1/713 (2011.01)**
[25] EN
[54] **USER TERMINAL AND RADIO COMMUNICATION METHOD**
[54] **TERMINAL D'UTILISATEUR ET PROCEDE DE COMMUNICATION SANS FIL**
[72] MATSUMURA, YUKI, JP
[72] TAKEDA, KAZUKI, JP
[72] NAGATA, SATOSHI, JP
[72] WANG, LIHUI, CN
[73] NTT DOCOMO, INC., JP
[85] 2020-05-14
[86] 2017-11-16 (PCT/JP2017/041378)
[87] (WO2019/097659)

[11] **3,083,010**
[13] C
[51] **Int.Cl. H04W 52/14 (2009.01)**
[25] EN
[54] **SIGNAL TRANSMISSION METHOD, TERMINAL DEVICE AND NETWORK DEVICE**
[54] **PROCEDE D'EMISSION DE SIGNAL, DISPOSITIF TERMINAL ET DISPOSITIF RESEAU**
[72] CHEN, WENHONG, CN
[72] SHI, ZHIHUA, CN
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP
[85] 2020-05-20
[86] 2017-11-23 (PCT/CN2017/112718)
[87] (WO2019/100296)

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[51] **Int.Cl. B62D 1/02 (2006.01)**
[25] EN
[54] **CONTROL APPARATUS FOR HYDRAULICALLY STEERED WHEELS OF A TRAILING VEHICLE OPERABLE IN LOCKED AND SELF STEERING CONFIGURATIONS**
[54] **APPAREIL DE COMMANDE DES ROUES DIRECTRICES HYDRAULIQUES D'UN VEHICULE TRACTEUR POUVANT FONCTIONNER DANS DES CONFIGURATIONS DE BLOCAGE ET D'AUTODIRECTION**
[72] FROESE, MATTHEW P., CA
[72] BOILEAU, RHEAL M., CA
[72] CAIL, OWEN R., CA
[73] ELMER'S WELDING & MANUFACTURING LTD., CA
[86] (3084783)
[87] (3084783)
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[51] **Int.Cl. B08B 17/02 (2006.01) B63B 59/04 (2006.01) E02B 17/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PREVENTION AND TREATMENT OF MARINE BIOFOULING**
[54] **APPAREIL ET PROCEDE DE PREVENTION ET DE TRAITEMENT DE SALISSURES BIOLOGIQUES MARINES**
[72] BIRKIN, PETER ROBERT, GB
[72] LEIGHTON, TIMOTHY GRANT, GB
[72] OFFIN, DOUGLAS G., GB
[73] SLOAN WATER TECHNOLOGY LIMITED, GB
[85] 2020-06-05
[86] 2018-12-06 (PCT/EP2018/083892)
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[30] GB (1720342.3) 2017-12-06

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[51] **Int.Cl. A61M 25/10 (2013.01)**
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[54] **INFLATABLE MEDICAL BALLOON WITH FLEX POINTS DUE TO INTERRUPTED FIBERS**
[54] **BALLONNET MEDICAL GONFLABLE A POINTS DE FLEXION DUS A DES FIBRES INTERROMPUES**
[72] HALL, JUSTIN, US
[72] BOOZE, MICHAEL, US
[73] C.R. BARD, INC., US
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[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING A STORYLINE SELECTION INTERFACE**
[54] **SYSTEMES ET PROCEDES DE FOURNITURE D'INTERFACE DE SELECTION DE SCENARIO**
[72] YOUNG, ROWENA, US
[72] KIM, SANG MO, US
[72] LIN, EDISON, US
[72] PATEL, MILAN, US
[73] ROVI GUIDES, INC., US
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[25] EN
[54] **SINGLE OPTIC FOR LOW LIGHT AND HIGH LIGHT LEVEL IMAGING**
[54] **OPTIQUE UNIQUE POUR IMAGERIE DE BAS NIVEAU DE LUMIERE ET DE HAUT NIVEAU DE LUMIERE**
[72] HERMALYN, BRENDAN, US
[73] WAYMO LLC, US
[85] 2020-06-23
[86] 2018-12-18 (PCT/US2018/066335)
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[25] EN
[54] **CONVEYANCE MODELING**
[54] **MODELISATION DE TRANSPORT**
[72] HRADECKY, JASON A., US
[72] HAMILTON, FRASER, AE
[73] IMPACT SELECTOR INTERNATIONAL, LLC, US
[85] 2020-06-24
[86] 2018-12-28 (PCT/US2018/067956)
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[51] **Int.Cl. E04C 3/293 (2006.01) E04B 5/10 (2006.01) E04C 3/08 (2006.01)**
[25] EN
[54] **CONCRETE FILLABLE STEEL JOIST**
[54] **POUTRELLE EN ACIER POUVANT ETRE REMPLIE DE BETON**
[72] STRICKLAND, MICHAEL R., CA
[73] INVENT TO BUILD INC., CA
[86] (3086976)
[87] (3086976)
[22] 2020-07-16
[30] CA (3050000) 2019-07-16

[11] **3,089,133**
[13] C
[51] **Int.Cl. B61L 15/00 (2006.01)**
[25] EN
[54] **DISCHARGE GATE SENSING METHOD, SYSTEM AND ASSEMBLY**
[54] **PROCEDE, SYSTEME ET ENSEMBLE DE DETECTION DE TRAPPE DE DECHARGEMENT**
[72] LIDGETT, JUSTIN MERRILL, US
[72] MARTIN, ANDREW H., US
[73] AMSTED RAIL COMPANY, INC., US
[85] 2020-07-20
[86] 2019-01-24 (PCT/US2019/014997)
[87] (WO2019/164629)
[30] US (62/621,212) 2018-01-24

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[13] C
[51] **Int.Cl. G01F 1/667 (2022.01)**
[25] EN
[54] **SENSOR MOUNT**
[54] **SUPPORT DE CAPTEUR**
[72] MESS, FRANK MCCARTHY, US
[72] ALMIRALL, JORGE CARLOS, US
[72] HAMMOND, MICHAEL PAUL, US
[72] RYCROFT, ALEXANDER NEAL, US
[72] VIDANELAGE, TIMUTHU WERAGODA, US
[73] STREAMLABS, INC., US
[85] 2020-07-30
[86] 2018-02-01 (PCT/US2018/016486)
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[51] **Int.Cl. A01C 5/06 (2006.01) A01B 63/111 (2006.01) A01B 63/12 (2006.01) A01B 63/20 (2006.01) A01B 63/30 (2006.01) A01B 71/02 (2006.01) A01C 7/04 (2006.01)**
[25] EN
[54] **AGRICULTURAL TRENCH DEPTH SYSTEMS, METHODS, AND APPARATUS**
[54] **SYSTEMES ET APPAREIL DE PROFONDEUR DE TRANCHEE AGRICOLE**
[72] SLONEKER, DILLON, US
[72] HODEL, JEREMY, US
[73] PRECISION PLANTING LLC, US
[85] 2020-08-17
[86] 2019-03-05 (PCT/US2019/020829)
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[72] KARADIMITRIS, ANASTASIOS, GB
[72] ROTOLO, ANTONIA, GB
[73] IMPERIAL COLLEGE INNOVATIONS LIMITED, GB
[85] 2020-08-31
[86] 2019-02-28 (PCT/GB2019/050570)
[87] (WO2019/166817)
[30] GB (1803376.1) 2018-03-01

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[54] **VASCULAR REPAIR PATCH**
[54] **TIMBRE DE REPARATION VASCULAIRE**
[72] LOPEZ, JORDI MARTORELL, ES
[72] GOMEZ, SALVADOR BORROS, ES
[72] PALASI, NOEMI BALA, ES
[72] CAMPS, MERCEDES BALCELLS, ES
[73] INSTITUT QUIMIC DE SARRIA CETS FUNDACIO PRIVADA, ES
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[51] **Int.Cl. H04W 56/00 (2009.01)**
[25] EN
[54] **METHOD AND DEVICE FOR TRANSMITTING SYNCHRONIZATION SIGNAL BLOCK, AND STORAGE MEDIUM**
[54] **PROCEDE ET DISPOSITIF DE TRANSMISSION D'UN BLOC DE SIGNAUX DE SYNCHRONISATION, ET SUPPORT D'INFORMATIONS**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-09-15
[86] 2018-03-27 (PCT/CN2018/080625)
[87] (WO2019/183791)

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[51] **Int.Cl. H01Q 3/08 (2006.01) H04B 17/318 (2015.01) H04B 7/19 (2006.01)**
[25] EN
[54] **NON-TLE-BASED POINTING ACQUISITION OF A SATELLITE ON A GEOSYNCHRONOUS INCLINED ORBIT**
[54] **ACQUISITION D'UN SATELLITE EN ORBITE INCLINEE GEOSYNCHRONE PAR POINTAGE NON A BASE DE PARAMETRES ORBITAUX A DEUX LIGNES**
[72] KANG, CHRISTOPHER, US
[72] KIANI, TALAT, US
[73] THINKOM SOLUTIONS, INC., US
[86] (3094631)
[87] (3094631)
[22] 2020-09-23
[30] US (16/600,833) 2019-10-14

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[25] EN
[54] **METHOD FOR STABILIZING HEMOGLOBIN AND REAGENTS FOR PERFORMING THE SAME**
[54] **PROCEDE DE STABILISATION D'HEMOGLOBINE ET REACTIFS POUR SA MISE EN OEUVRE**
[72] FOURRIER, KEITH D., US
[72] HENNEK, JACQUELYN T., US
[72] DOMANICO, MICHAEL J., US
[72] WEISBURG, WILLIAM G., US
[72] LIDGARD, GRAHAM P., US
[72] HARINGS, KATHLEEN S., US
[72] SIMPSON, DANIEL J., US
[73] EXACT SCIENCES CORPORATION, US
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[30] US (62/648,874) 2018-03-27
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[51] **Int.Cl. H04N 23/80 (2023.01)**
[25] EN
[54] **VIDEO RECORDING METHOD AND ELECTRONIC DEVICE**
[54] **PROCEDE ET DISPOSITIF ELECTRONIQUE POUR DES ENREGISTREMENTS VIDEO**
[72] LI, YUANYOU, CN
[72] WANG, MIAOFENG, CN
[72] LUO, WEI, CN
[73] BEIJING KUNSHI INTELLECTUAL PROPERTY MANAGEMENT CO., LTD., CN
[85] 2020-09-23
[86] 2018-03-26 (PCT/CN2018/080575)
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[54] **TRAILER STABILIZER AND RESTRAINT**
[54] **DISPOSITIF STABILISATEUR ET LIMITATEUR DE REMORQUE**
[72] KIMENER, THOMAS TERRENCE, US
[73] STABILOCK, LLC, US
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[25] EN
[54] **METHOD FOR THE MANUFACTURE OF MINERAL WOOL PRODUCTS**
[54] **PROCEDE DE FABRICATION DE PRODUITS DE LAINE MINERALE**
[72] MOLINERO ARENAS, ALEJANDRO, ES
[72] AZNAR ECIJA, ANA ISABEL, ES
[72] QUEROL PINOT, MIREIA, ES
[72] CASADO DOMINGUEZ, ARTURO LUIS, ES
[73] URSA INSULATION, S.A., ES
[85] 2020-10-02
[86] 2019-04-26 (PCT/EP2019/060748)
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[25] EN
[54] **COMPOSITIONS AND METHODS FOR ENHANCING ION TRANSPORTER ACTIVITY AND USES THEREOF**
[54] **COMPOSITIONS ET METHODES POUR AMELIORER L'ACTIVITE DE TRANSPORTEUR D'IONS ET LEURS UTILISATIONS**
[72] RADZIOCH, DANUTA, CA
[72] HANRAHAN, JOHN, CA
[72] ABU-ARISH, ASMAHAN, CA
[72] GARIC, DUSAN, CA
[73] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA
[85] 2020-10-06
[86] 2018-07-09 (PCT/CA2018/050832)
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[25] EN
[54] **ACCESS AND VAPOR CONTAINMENT SYSTEM FOR A DRUG VIAL AND METHOD OF MAKING AND USING SAME**
[54] **SYSTEME D'ACCES ET DE CONFINEMENT DE VAPEUR POUR FLACON DE MEDICAMENT ET SON PROCEDE DE FABRICATION ET D'UTILISATION**
[72] CHUDEK, CHRISTOPHER WILLIAM, US
[72] FOSHEE, DAVID LEE, US
[72] HENSON, ROBERT WILLIAM, US
[72] RUSH, BENJAMIN L., US
[72] FULGHUM III, JESSE CARL, US
[72] TREVES, AMICHAI, US
[72] ZIGNEGO, JAY COLTON, US
[72] BROWKA, EDWARD PAUL, US
[72] MOSLER, THEODORE J., US
[73] HOSPIRA, INC., US
[85] 2020-10-06
[86] 2019-04-23 (PCT/IB2019/053346)
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[25] EN
[54] **NETWORKED MICROPHONE DEVICE CONTROL**
[54] **COMMANDE DE DISPOSITIF DE MICROPHONE EN RESEAU**
[72] KUSANO, MIEKO, US
[72] WILBERDING, DAYN, US
[72] WENOCUR, JONATHAN, US
[72] LANG, JONATHAN, US
[73] SONOS, INC., US
[86] (3096442)
[87] (3096442)
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[25] EN
[54] **METHODS, SYSTEMS, AND DEVICES FOR CALIBRATION AND OPTIMIZATION OF GLUCOSE SENSORS AND SENSOR OUTPUT**
[54] **PROCEDES, SYSTEMES ET DISPOSITIFS D'ETALONNAGE ET D'OPTIMISATION DE CAP EURS DE GLUCOSE ET DE SORTIE DE CAPTEURS**
[72] AJEMBA, PETER, US
[72] JACKS, STEVEN C., US
[72] KANNARD, BRIAN T., US
[72] MILLER, MICHAEL E., US
[72] NOGUEIRA, KEITH, US
[72] TSAI, ANDY Y., US
[72] VARSAVSKY, ANDREA, US
[72] NISHIDA, JEFFERY, US
[73] MEDTRONIC MINIMED, INC., US
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[87] (3098327)
[22] 2018-08-31
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[30] US (62/558,248) 2017-09-13
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[13] C
[51] **Int.Cl. G06F 16/835 (2019.01)**
[25] EN
[54] **MANAGING DATA OBJECTS FOR GRAPH-BASED DATA STRUCTURES**
[54] **GESTION D'OBJETS DE DONNEES POUR DES STRUCTURES DE DONNEES ORIENTEES GRAPHES**
[72] KORPMAN, RALPH A., US
[72] HILADO, RUDY R., US
[72] CLEGG, W. RANDAL, US
[72] POST, CINDY A., US
[73] UNITEDHEALTH GROUP INCORPORATED, US
[85] 2020-10-30
[86] 2020-03-30 (PCT/US2020/025831)
[87] (WO2020/205798)
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[30] US (62/845,084) 2019-05-08
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[30] US (62/845,089) 2019-05-08
[30] US (62/845,109) 2019-05-08
[30] US (62/860,031) 2019-06-11
[30] US (62/860,047) 2019-06-11
[30] US (62/860,050) 2019-06-11
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[30] US (62/874,638) 2019-07-16
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[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12N 15/11 (2006.01)**
[25] EN
[54] **TUMOR MARKER, METHYLATION DETECTION REAGENT, KIT AND USE THEREOF**
[54] **MARQUEUR TUMORAL, REACTIF DE DETECTION DE METHYLATION, KIT ET UTILISATION ASSOCIEE**
[72] LIU, XIANGLIN, CN
[72] ZHAO, RONGSONG, CN
[72] ZOU, HONGZHI, CN
[73] CREATIVE BIOSCIENCES (GUANGZHOU) CO., LTD., CN
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[51] **Int.Cl. E04B 9/06 (2006.01)**
[25] EN
[54] **SUSPENDED CEILING SYSTEM INCORPORATING KEY AND KEYHOLE COMBINATIONS AND METHOD OF INSTALLING SAME**
[54] **SYSTEME DE PLAFOND SUSPENDU COMPREND UNE COMBINAISON DE CLE ET DE TROU DE SERRURE ET METHODE DE SON INSTALLATION**
[72] MARC-AURELE, ANDRE, CA
[73] MARC-AURELE, ANDRE, CA
[86] (3101872)
[87] (3101872)
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[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATICALLY OPENING AND CLOSING A DOOR USING EXTERNAL MOMENTUM**
[54] **SYSTEMES ET PROCEDES POUR OUVRIR ET FERMER AUTOMATIQUEMENT UNE PORTE A L'AIDE D'UN MOMENT CINETIQUE EXTERNE**
[72] AZLANI, KYA, CA
[73] AZLANI, KYA, CA
[85] 2020-12-07
[86] 2019-06-11 (PCT/CA2019/050819)
[87] (WO2019/237190)
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[54] **MINERAL WOOL BOARD WITH FILLERS**
[54] **PANNEAU DE LAINE MINERALE COMPRENANT DES CHARGES**
[72] DOHRING, DIETER, DE
[73] LIGNUM TECHNOLOGIES AG, CH
[85] 2020-12-14
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[51] **Int.Cl. E21B 34/08 (2006.01) E21B 43/12 (2006.01) F16K 17/34 (2006.01)**
[25] EN
[54] **DOWNHOLE FLOW CONTROL DEVICES AND METHODS**
[54] **DISPOSITIFS ET PROCEDES DE REGULATION DE DEBIT DE FOND DE PUITS**
[72] ANDERSON, JAMES, GB
[72] GREEN, ANNABEL, GB
[73] SWELLFIX UK LIMITED, GB
[85] 2020-12-17
[86] 2019-06-19 (PCT/GB2019/051721)
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[30] GB (1810080.0) 2018-06-19

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[54] **BONE PLATE SYSTEM**
[54] **SYSTEME DE PLAQUE OSSEUSE**
[72] GEPHART, MATTHEW P., US
[73] PIONEER SURGICAL TECHNOLOGY, INC., US
[85] 2020-12-18
[86] 2019-06-26 (PCT/US2019/039263)
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[51] **Int.Cl. G05D 1/69 (2024.01) A01B 69/00 (2006.01) A01B 79/00 (2006.01) G05D 1/224 (2024.01) G05D 1/646 (2024.01) G05D 1/648 (2024.01)**
[25] EN
[54] **AGRICULTURAL CONTROL AND INTERFACE SYSTEM**
[54] **SYSTEME AGRICOLE D'INTERFACE ET DE COMMANDE**
[72] KOCER, JARED ERNEST, US
[72] WALKES, DOMINIC, US
[72] MUNDT, CLINTON HOWARD, CA
[72] THOMPSON, BRUCE, CA
[72] TIBOUT, MARC ROGER, CA
[72] BARROWS, AMY, US
[72] SKANDERUP, JOSHUA JAMES, US
[72] WELBIG, PAUL, US
[73] RAVEN INDUSTRIES, INC., US
[85] 2021-01-05
[86] 2019-07-11 (PCT/US2019/041477)
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[25] EN
[54] **AUTOMATED CHICKEN DEBONER SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE DESOSSEMENT A VOLAILLES AUTOMATISES**
[72] ESTES, ANDREW C., US
[72] ESTES, JEREMY B., US
[73] ACE SPECIALTIES, INC., US
[86] (3105914)
[87] (3105914)
[22] 2021-01-18
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[51] **Int.Cl. A24B 15/00 (2006.01)**
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[54] **AEROSOL GENERATION**
[54] **GENERATION D'AEROSOL**
[72] GHANOUNI, KAV, GB
[72] BENNING, JOCELYN, GB
[72] AOUN, WALID ABI, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2021-01-21
[86] 2019-07-31 (PCT/EP2019/070716)
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[51] **Int.Cl. B01L 3/00 (2006.01) G01N 21/07 (2006.01)**
[25] EN
[54] **MICROFLUIDIC ROTOR DEVICE**
[54] **DISPOSITIF DE ROTOR MICROFLUIDIQUE**
[72] SHARTLE, ROBERT JUSTICE, US
[72] TRIGUB, GREGORY, US
[73] ZOETIS SERVICES LLC, US
[85] 2021-01-22
[86] 2019-08-22 (PCT/US2019/047626)
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[25] FR
[54] **ANHYDROUS COSMETIC COMPOSITION COMPRISING VEGETABLE OIL**
[54] **COMPOSITION COSMETIQUE ANHYDRE COMPRENANT DE L'HUILE VEGETALE**
[72] FOUCAULT, SOPHIE, FR
[72] OPEL, CAROLINE, FR
[73] LABORATOIRES CLARINS, FR
[85] 2021-02-01
[86] 2019-07-09 (PCT/EP2019/068446)
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[25] EN
[54] **PISTON ARRANGEMENT AND INTERNAL COMBUSTION ENGINE**
[54] **AGENCEMENT DE PISTON ET MOTEUR A COMBUSTION INTERNE**
[72] BOWEN, RYAN, GB
[73] NEWLENOIR LIMITED, GB
[86] (3108957)
[87] (3108957)
[22] 2014-08-27
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[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING CLEVIDIPINE AND METHODS FOR PRODUCING LOW IMPURITY CONCENTRATIONS OF THE SAME**
[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT DE LA CLEVIDIPINE ET PROCEDES POUR PRODUIRE DE FAIBLES CONCENTRATIONS D'IMPURETE DE CELLES-CI**
[72] DING, MIN, US
[72] FLOOD, KEITH, US
[72] KRISHNA, GOPAL, US
[72] MOTHERAM, RAJESHWAR, US
[72] RAMAKRISHNA, KORNEPATI, US
[73] HOSPIRA, INC., US
[73] CHIESI FARMACEUTICI S.P.A., IL
[86] (3108961)
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[22] 2009-07-29
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[30] US (61/085,597) 2008-08-01
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[51] **Int.Cl. B01D 61/58 (2006.01) B01D 61/02 (2006.01) B01D 61/08 (2006.01) B01D 61/10 (2006.01) C02F 1/44 (2006.01)**
[25] EN
[54] **LIQUID SOLUTION CONCENTRATION SYSTEM COMPRISING ISOLATED SUBSYSTEM AND RELATED METHODS**
[54] **SYSTEME DE CONCENTRATION DE SOLUTION LIQUIDE COMPRENANT UN SOUS-SYSTEME ISOLE ET PROCEDES ASSOCIES**
[72] STOVER, RICHARD, US
[72] CHOONG, LOOH TCHUIN, SG
[72] ST. JOHN, MAXIMUS G., SG
[72] GOVINDAN, PRAKASH NARAYAN, SG
[73] GRADIANT CORPORATION, US
[85] 2021-02-09
[86] 2019-08-22 (PCT/US2019/047609)
[87] (WO2020/041542)
[30] US (62/721,015) 2018-08-22

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[13] C
[51] **Int.Cl. B60C 11/03 (2006.01) B60C 11/12 (2006.01) B60C 11/13 (2006.01)**
[25] EN
[54] **TREAD FOR A WINTER PNEUMATIC TYRE AND A WINTER PNEUMATIC TYRE**
[54] **BANDE DE ROULEMENT POUR ENVELOPPE PNEUMATIQUE D'HIVER, ET ENVELOPPE PNEUMATIQUE D'HIVER**
[72] AMENTA, ALESSANDRO, IT
[72] PACIULLI, EMANUELA, IT
[72] MANFRE', LUCA, IT
[72] TRIBOULET, PIERFRANCESCO, IT
[73] BRIDGESTONE EUROPE NV/SA, BE
[85] 2021-03-01
[86] 2019-10-04 (PCT/EP2019/076925)
[87] (WO2020/078742)
[30] IT (102018000009473) 2018-10-16

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[25] EN
[54] **GRAB-TYPE LIFTER WITH VACUUM-ASSISTED LIFT PADS**
[54] **DISPOSITIF DE LEVAGE DE TYPE BENNE DOTE DE PATINS DE LEVAGE ASSISTES PAR DEPRESSION**
[72] SOLOMON, WILLIAM J., US
[72] HENDRICKS, JUSTIN, US
[72] GUSELLA, FEDERICO, NL
[72] SLIKKER, ROB, NL
[73] VACUWORX GLOBAL, LLC, US
[73] BAKKER SPECIAL GRABS BV, NL
[85] 2021-03-04
[86] 2019-09-05 (PCT/US2019/049754)
[87] (WO2020/051336)
[30] US (62/727,249) 2018-09-05

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[51] **Int.Cl. E21B 17/10 (2006.01)**
[25] EN
[54] **HELICAL HARDBANDING**
[54] **RENFORCEMENT HELICOIDAL**
[72] ALLEN, JAMES, US
[72] STEFANCIC, STEVE, US
[72] MILLER, ROBERT R. (DECEASED), XX
[73] GARLAND INDUSTRIES, INC., US
[85] 2021-03-17
[86] 2019-09-18 (PCT/US2019/051683)
[87] (WO2020/061165)
[30] US (62/734,415) 2018-09-21

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[13] C
[51] **Int.Cl. H04B 1/3827 (2015.01) H01Q 1/38 (2006.01)**
[25] EN
[54] **ANTENNA ASSEMBLY FOR A VEHICLE**
[54] **ENSEMBLE ANTENNE POUR UN VEHICULE**
[72] THILL, KEVIN, US
[72] NOON, CALLUM, US
[72] GREENSTEIN, LARRY, US
[73] AIRGAIN, INC., US
[85] 2021-03-18
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[30] US (16/414,717) 2019-05-16
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[54] **MEDIA BISTREAM HAVING BACKWARDS COMPATIBILITY**
[54] **FLUX BINAIRE MULTIMEDIA AVEC RETROCOMPATIBILITE**
[72] PETTERSSON, MARTIN, SE
[72] DAMGHANIAN, MITRA, SE
[72] SJOBERG, RICKARD, SE
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2021-03-22
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[30] US (62/736,002) 2018-09-25

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[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/517 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **CRYSTAL FORM OF MORPHOLINO QUINAZOLINE COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **FORME CRISTALLINE D'UN COMPOSE MORPHOLINO QUINAZOLINE, PROCEDE DE PREPARATION ASSOCIE ET UTILISATION CORRESPONDANTE**
[72] XU, ZUSHENG, CN
[72] LOU, YANGTONG, CN
[73] SHANGHAI YINGLI PHARMACEUTICAL CO., LTD, CN
[85] 2021-03-25
[86] 2019-09-12 (PCT/CN2019/105688)
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[30] CN (201811131702.8) 2018-09-27

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[25] EN
[54] **ELECTRICAL POWER DISTRIBUTION SYSTEM AND ALLOCATION METHOD FOR DISTRIBUTING ELECTRICAL POWER**
[54] **SYSTEME DE DISTRIBUTION D'ELECTRICITE ET METHODE DE REPARTITION POUR LA DISTRIBUTION D'ELECTRICITE**
[72] DONNIG, UWE, DE
[72] BREY, JENS, DE
[72] ZACHAUS, MATTHIAS, DE
[73] KID-SYSTEME GMBH, DE
[86] (3114684)
[87] (3114684)
[22] 2021-04-09
[30] DE (102020206023.1) 2020-05-13

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[25] EN
[54] **METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE**
[54] **PROCEDE ET APPAREIL DE CODAGE/DECODAGE D'IMAGE**
[72] MIN, JUNG-HYE, KR
[72] PARK, MIN-WOO, KR
[72] JIN, BO-RA, KR
[72] KIM, CHAN-YUL, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[86] (3114825)
[87] (3114825)
[22] 2016-10-10
[62] 3,039,663

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[51] **Int.Cl. G09G 5/377 (2006.01) G06T 19/00 (2011.01) H04N 21/4725 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR REPRESENTING USER INTERACTIONS IN MULTI-USER AUGMENTED REALITY**
[54] **SYSTEMES ET METHODES POUR REPRESENTER LES INTERACTIONS D'UTILISATEURS DANS UNE REALITE AUGMENTEE A UTILISATEURS MULTIPLES**
[72] HAAPOJA, JUHO MIKKO, CA
[72] DELGADO, BYRON LEONEL, CA
[72] LEROUX, STEPHAN, CA
[72] BEAUCHAMP, DANIEL, CA
[73] SHOPIFY INC., CA
[86] (3117878)
[87] (3117878)
[22] 2021-05-10
[30] US (16/939280) 2020-07-27
[30] EP (21168734.8) 2021-04-15

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[51] **Int.Cl. G06Q 20/38 (2012.01) G06F 21/62 (2013.01) H04L 9/06 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **APPARATUSES, METHODS AND SYSTEMS FOR COMPUTER-BASED SECURE TRANSACTIONS**
[54] **APPAREILS, PROCEDES ET SYSTEMES POUR TRANSACTIONS SECURISEES AUTOMATISEES**
[72] IGNATCHENKO, SERGEY, AT
[72] IVANCHYKHIN, DMYTRO, UA
[73] OLOGN TECHNOLOGIES AG, LI
[86] (3118235)
[87] (3118235)
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[30] US (61/623,702) 2012-04-13
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[25] EN
[54] **FOREST STAND TARGET ATTRIBUTE PREDICTION**
[54] **PREDICTION D'ATTRIBUT CIBLE DE PEUPLEMENT FORESTIER**
[72] DANZL, CHRISTOF, DE
[72] LIPPONEN, JARKKO, FI
[72] VISANKO, TUOMO, FI
[73] COLLECTIVECRUNCH OY, FI
[85] 2021-04-30
[86] 2019-10-28 (PCT/FI2019/050767)
[87] (WO2020/089524)
[30] FI (20185930) 2018-11-02

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[51] **Int.Cl. H04N 21/458 (2011.01) H04N 21/4402 (2011.01)**
[25] EN
[54] **SERVER AND METHOD FOR PROVIDING STREAMING EVENT EFFECT ADJUSTMENT FUNCTION**
[54] **SERVEUR ET METHODE POUR FOURNIR UNE FONCTION D'AJUSTEMENT D'EFFET D'EVENEMENT DE DIFFUSION**
[72] CHOO, YUN SUNG, KR
[72] HONG, WON PYO, KR
[72] KIM, JOO WON, KR
[73] TOOTHLIFE CO., LTD., KR
[86] (3118636)
[87] (3118636)
[22] 2021-05-14
[30] KR (10-2021-0004001) 2021-01-12

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[51] **Int.Cl. B61D 7/18 (2006.01) B61D 7/02 (2006.01)**
[25] EN
[54] **RAILROAD HOPPER CAR AND DOOR MECHANISM THEREFOR**
[54] **WAGON-TREMIE DE CHEMIN DE FER ET MECANISME DE PORTE CORRESPONDANT**
[72] BIS, TOMASZ, CA
[72] FORBES, JAMES WILFRED, CA
[73] NATIONAL STEEL CAR LIMITED, CA
[86] (3119137)
[87] (3119137)
[22] 2013-03-22
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[30] US (13/841,321) 2013-03-15
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[25] EN
[54] **SYSTEM AND METHOD FOR MICRODOSE INJECTION**
[54] **SYSTEME ET PROCEDE POUR L'INJECTION DE MICRODOSES**
[72] DIAZ, STEPHEN H., US
[72] SHLUZAS, ALAN E., US
[73] CREDENCE MEDSYSTEMS, INC., US
[85] 2021-05-07
[86] 2019-11-13 (PCT/US2019/061310)
[87] (WO2020/102444)
[30] US (62/760,273) 2018-11-13

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[13] C
[51] **Int.Cl. G16B 20/50 (2019.01) G16B 40/20 (2019.01)**
[25] EN
[54] **CANCER TISSUE SOURCE OF ORIGIN PREDICTION WITH MULTI-TIER ANALYSIS OF SMALL VARIANTS IN CELL-FREE DNA SAMPLES**
[54] **PREDICTION DE SOURCE D'ORIGINE DE TISSU CANCEREUX AVEC ANALYSE A PLUSIEURS NIVEAUX DE PETITES VARIANTES DANS DES ECHANTILLONS D'ADN EXEMPTS DE CELLULES**
[72] HUBBELL, EARL, US
[72] LIU, QINWEN, US
[73] GRAIL, LLC, US
[85] 2021-05-07
[86] 2019-12-18 (PCT/US2019/067297)
[87] (WO2020/132151)
[30] US (62/782,087) 2018-12-19

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[51] **Int.Cl. A61K 31/519 (2006.01) A61K 31/553 (2006.01) A61K 31/704 (2006.01) A61K 31/706 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **COMBINATION OF A MCL-1 INHIBITOR AND MIDOSTAURIN, USES AND PHARMACEUTICAL COMPOSITIONS THEREOF**
[54] **COMBINAISON D'UN INHIBITEUR DE MCL-1 ET DE MIDOSTAURINE, UTILISATIONS ET COMPOSITIONS PHARMACEUTIQUES ASSOCIEES**
[72] HALILOVIC, ENSAR, US
[72] WANG, YOUZHEN, US
[72] MORRIS, ERICK, US
[72] KONOPLEVA, MARINA, US
[72] SKWARSKA, ANNA, US
[73] LES LABORATOIRES SERVIER, FR
[73] NOVARTIS AG, CH
[85] 2021-05-10
[86] 2019-11-14 (PCT/EP2019/081291)
[87] (WO2020/099542)
[30] US (62/767,007) 2018-11-14
[30] US (62/824,515) 2019-03-27
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[51] **Int.Cl. B25J 11/00 (2006.01) A61F 2/60 (2006.01) A61F 2/70 (2006.01)**
[25] EN
[54] **LOAD REDUCTION DEVICE, LOAD REDUCTION METHOD, AND STORAGE MEDIUM STORING PROGRAM**
[54] **DISPOSITIF DE REDUCTION DE CHARGE, PROCEDE DE REDUCTION DE CHARGE ET SUPPORT DE STOCKAGE STOCKANT UN PROGRAMME**
[72] OOKOBA, TADASHI, JP
[72] ISHIDA, HISASHI, JP
[73] NEC CORPORATION, JP
[85] 2021-05-10
[86] 2019-11-08 (PCT/JP2019/043820)
[87] (WO2020/100730)
[30] JP (2018-211993) 2018-11-12

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[13] C
[51] **Int.Cl. A61M 5/315 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MULTIPLE SITE INJECTION**
[54] **SYSTEME ET PROCEDE D'INJECTION DE SITE MULTIPLE**
[72] SHANLEY, CONOR EDWARD, US
[72] SHLUZAS, ALAN E., US
[72] LEUNG, MINA M., US
[72] DIAZ, STEPHEN H., US
[73] CREDENCE MEDSYSTEMS, INC., US
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[86] 2019-11-13 (PCT/US2019/061313)
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[51] **Int.Cl. G06Q 10/02 (2012.01)**
[25] EN
[54] **CHECKINS FOR SERVICES FROM A MESSENGER CHATBOT**
[54] **CONTROLES DESTINES A DES SERVICES A PARTIR D'UN AGENT CONVERSATIONNEL DE MESSAGERIE**
[72] KAPADIA, CHAITANYA, US
[73] SOHAM INC, US
[85] 2021-05-20
[86] 2019-12-20 (PCT/US2019/068003)
[87] (WO2020/132538)
[30] US (62/784,048) 2018-12-21
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[13] C
[51] **Int.Cl. G06Q 10/02 (2012.01)**
[25] EN
[54] **VOICE CHECK-IN PLATFORM WITH SERVERLESS COMPUTING ARCHITECTURE**
[54] **PLATEFORME DE VERIFICATION VOCALE AVEC ARCHITECTURE DE CALCUL SANS SERVEUR**
[72] KAPADIA, CHAITANYA, US
[73] SOHAM INC, US
[85] 2021-05-20
[86] 2019-12-20 (PCT/US2019/067982)
[87] (WO2020/132524)
[30] US (62/784,048) 2018-12-21
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[25] EN
[54] **BINDER SELECTION USING CAPILLARY ELECTROPHORESIS**
[54] **SELECTION DE LIANT A L'AIDE D'UNE ELECTROPHORESE CAPILLAIRE**
[72] KRYLOV, SERGEY N., CA
[73] KRYLOV, SERGEY N., CA
[85] 2021-05-25
[86] 2019-12-16 (PCT/CA2019/051820)
[87] (WO2020/124213)
[30] US (62/782,720) 2018-12-20

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[51] **Int.Cl. B65G 1/00 (2006.01) B65G 1/06 (2006.01)**
[25] EN
[54] **A METHOD, A COMPUTER PROGRAM AND A DEVICE FOR TRANSPORTING PALLETS**
[54] **PROCEDE, PROGRAMME INFORMATIQUE ET DISPOSITIF DE TRANSPORT DE PALETTES**
[72] LARSSON, CHRISTER, SE
[72] KJELLSTROM, STEFAN, SE
[73] EAB AB, SE
[85] 2021-05-25
[86] 2019-11-21 (PCT/EP2019/082126)
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[25] EN
[54] **PLIER HEAD WITH GOOD ADAPTABILITY AND PLIER**
[54] **TETE DE PINCE A BONNE ADAPTABILITE ET PINCE**
[72] SHEN, YUEJUAN, CN
[73] ZHUJI ITOP HARDWARE TOOLS CO., LTD., CN
[73] ZHEJIANG IWISS ELECTRIC CO., LTD., CN
[86] (3121093)
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[25] EN
[54] **METHODS RELATED TO OPIOID THERAPEUTICS**
[54] **METHODES ASSOCIEES A DES AGENTS THERAPEUTIQUES OPIOIDES**
[72] MARTEMYANOV, KIRILL, US
[72] GRILL, BROCK, US
[73] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US
[85] 2021-05-26
[86] 2019-10-15 (PCT/US2019/056284)
[87] (WO2020/081538)
[30] US (62/746,343) 2018-10-16

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[51] **Int.Cl. A61K 47/60 (2017.01) A61K 47/54 (2017.01) A61K 47/58 (2017.01) A61K 47/69 (2017.01) A61K 8/60 (2006.01) A61K 8/81 (2006.01) A61K 8/86 (2006.01) A61K 31/713 (2006.01) A61P 17/14 (2006.01)**
[25] EN
[54] **DOUBLE STRANDED OLIGONUCLEOTIDE CONSTRUCT COMPRISING ANDROGEN RECEPTOR SPECIFIC SEQUENCE, AND COMPOSITION FOR PREVENTING HAIR LOSS AND PROMOTING HAIR GROWTH COMPRISING SAME**
[54] **CONSTRUCTION D'OLIGONUCLEOTIDE DOUBLE BRIN COMPORTANT UNE SEQUENCE SPECIFIQUE DU RECEPTEUR AUX ANDROGENES, ET COMPOSITION LA COMPORTANT POUR PREVENIR LA PERTE DES CHEVEUX ET STIMU LER LA POUSSE DES CHEVEUX**
[72] PARK, HAN-OH, KR
[72] YUN, SUNG IL, KR
[72] BYUN, SANG-JIN, KR
[72] LEE, MYEONG-MI, KR
[72] YANG, SEUNG YA, KR
[73] BIONEER CORPORATION, KR
[85] 2021-05-28
[86] 2019-11-18 (PCT/KR2019/015723)
[87] (WO2020/111614)
[30] KR (10-2018-0149562) 2018-11-28

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[51] **Int.Cl. B65G 47/92 (2006.01) B25J 15/06 (2006.01)**
[25] EN
[54] **MAGNETICALLY CONTROLLED SMART SORTING DEVICE FOR CONTAINER LOCKPINS, AND CONTROL METHOD THEREFOR**
[54] **DISPOSITIF DE TRI INTELLIGENT A COMMANDE MAGNETIQUE POUR GOUPILLES DE VERROUILLAGE DE RECIPIENT ET PROCEDE DE COMMANDE ASSOCIE**
[72] WU, CHENGJI, CN
[72] FANG, HONGXING, CN
[72] LV, KAI, CN
[72] CHENG, KENG, CN
[72] WANG, YONG, CN
[73] SHANGHAI CHENGYE INTELLIGENT TECHNOLOGY CO., LTD., CN
[85] 2021-05-31
[86] 2019-07-26 (PCT/CN2019/097825)
[87] (WO2020/107914)
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[51] **Int.Cl. B29D 24/00 (2006.01) B29D 99/00 (2010.01) B29C 65/00 (2006.01) B29C 70/08 (2006.01)**
[25] EN
[54] **METHOD FOR THE PREPARATION OF COMPOSITE MATERIAL IN SANDWICH FORM**
[54] **PROCEDE DE PREPARATION D'UN MATERIAU COMPOSITE SOUS FORME DE SANDWICH**
[72] MAO, GAETAN, FR
[72] DUMONT, NICOLAS, FR
[73] SAINT-GOBAIN PERFORMANCE PLASTICS FRANCE, FR
[85] 2021-06-03
[86] 2019-12-16 (PCT/EP2019/085359)
[87] (WO2020/127057)
[30] FR (1873207) 2018-12-18

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[51] **Int.Cl. A01K 15/02 (2006.01) A01K 5/00 (2006.01) A01K 29/00 (2006.01)**
[25] EN
[54] **ANIMAL FEEDER, COMBINATION FEEDER AND TOY, AND METHOD OF ENTERTAINING AN ANIMAL**
[54] **DISPOSITIF D'ALIMENTATION POUR ANIMAUX, DISPOSITIF D'ALIMENTATION ET JOUET COMBINES, ET PROCEDE DE DIVERTISSEMENT D'UN ANIMAL**
[72] MARKHAM, JOSEPH P., US
[73] BOUNCE ENTERPRISES LLC, US
[85] 2021-06-07
[86] 2019-12-09 (PCT/US2019/065205)
[87] (WO2020/118294)
[30] US (16/213,223) 2018-12-07

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[51] **Int.Cl. C07K 16/22 (2006.01) C07K 16/24 (2006.01) C07K 16/46 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **ANTIBODY THAT BINDS TO VEGF AND IL-1BETA AND METHODS OF USE**
[54] **ANTICORPS SE LIANT A VEGF ET IL-1 BETA ET PROCEDES D'UTILISATION**
[72] BECKMANN, ROLAND, DE
[72] BENZ, JOERG, CH
[72] DENGL, STEFAN, DE
[72] GASSNER, CHRISTIAN, DE
[72] HARTMANN, GUIDO, CH
[72] HUELSMANN, PETER MICHAEL, DE
[72] IMHOF-JUNG, SABINE, DE
[72] JENSEN, KRISTIAN HOBOLT, DE
[72] KETTENBERGER, HUBERT, DE
[72] LORENZ, STEFAN, DE
[72] MOELLEKEN, JOERG, DE
[72] MUNDIGL, OLAF, DE
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-06-15
[86] 2019-12-20 (PCT/EP2019/086529)
[87] (WO2020/127873)
[30] EP (18215023.5) 2018-12-21

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[13] C
[51] **Int.Cl. H04L 12/44 (2006.01) H04L 45/745 (2022.01) H04L 67/12 (2022.01)**
[25] EN
[54] **ADAPTIVE ROUTE, BI-DIRECTIONAL NETWORK COMMUNICATION**
[54] **ROUTAGE ADAPTATIF, COMMUNICATION EN RESEAU BIDIRECTIONNEL**
[72] SNODGRASS, DAVID L., US
[73] ECOLAB USA INC., US
[85] 2021-06-16
[86] 2019-12-20 (PCT/US2019/067983)
[87] (WO2020/132525)
[30] US (62/782,991) 2018-12-20

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[51] **Int.Cl. C25B 9/23 (2021.01) C25B 3/25 (2021.01) C25B 3/26 (2021.01) C25B 13/08 (2006.01)**
[25] EN
[54] **REACTOR WITH ADVANCED ARCHITECTURE FOR THE ELECTROCHEMICAL REACTION OF CO2, CO, AND OTHER CHEMICAL COMPOUNDS**
[54] **REACTEUR A ARCHITECTURE AVANCEE DESTINE A LA REACTION ELECTROCHIMIQUE DE CO2, DE CO, ET D'AUTRES COMPOSES CHIMIQUES**
[72] KUHL, KENDRA P., US
[72] CAVE, ETOSHA R., US
[72] LEONARD, GEORGE, US
[73] TWELVE BENEFIT CORPORATION, US
[86] (3124239)
[87] (3124239)
[22] 2017-05-03
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[30] US (62/331,387) 2016-05-03

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[51] **Int.Cl. A22C 17/00 (2006.01) B02C 18/30 (2006.01)**
[25] EN
[54] **A FOOD PROCESSING DEVICE AND A METHOD OF PROCESSING FOOD**
[54] **DISPOSITIF DE TRANSFORMATION D'ALIMENTS ET PROCEDE DE TRANSFORMATION D'ALIMENTS**
[72] LIND, CHRISTIAN BROCHNER, DK
[73] MAREL SALMON A/S, DK
[85] 2021-06-21
[86] 2019-12-20 (PCT/EP2019/086684)
[87] (WO2020/127976)
[30] EP (18215575.4) 2018-12-21

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[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5025 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 471/20 (2006.01)**
[25] EN
[54] **AZA-HETEROBICYCLIC INHIBITORS OF MAT2A AND METHODS OF USE FOR TREATING CANCER**
[54] **INHIBITEURS AZA-HETEROBICYCLIQUES DE MAT2A ET PROCEDES D'UTILISATION POUR LE TRAITEMENT DU CANCER**
[72] KONTEATIS, ZENON D., US
[72] LI, MINGZONG, US
[72] REZNIK, SAMUEL K., US
[72] SUI, ZHIHUA, US
[73] LES LABORATOIRES SERVIER, FR
[85] 2021-06-24
[86] 2019-12-27 (PCT/US2019/068652)
[87] (WO2020/139991)
[30] US (62/785,519) 2018-12-27

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[13] C
[51] **Int.Cl. H02M 7/49 (2007.01) H02M 7/5395 (2006.01)**
[25] EN
[54] **REDUCING INPUT HARMONIC DISTORTION IN A POWER SUPPLY**
[54] **REDUCTION DE DISTORSION HARMONIQUE D'ENTREE DANS UNE ALIMENTATION ELECTRIQUE**
[72] FUKUTA, YUSUKE, US
[72] RASTOGI, MUKUL, US
[72] OSMAN, RICHARD H., US
[73] INNOMOTICS GMBH, DE
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[54] **METHOD AND APPARATUS FOR DETERMINING CHANNEL ACCESS SCHEME, TERMINAL DEVICE, AND NETWORK DEVICE**
[54] **PROCEDE ET APPAREIL DE DETERMINATION DE SCHEMA D'ACCES A UN CANAL, DISPOSITIF TERMINAL, ET DISPOSITIF DE RESEAU**
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[72] LIN, YANAN, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
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[54] **BLOCS D'ALIMENTATION ET ENCEINTES AYANT UN DEBIT D'AIR DE REFROIDISSEMENT AMELIORE**
[72] NELSON, JONATHON, US
[73] ILLINOIS TOOL WORKS INC., US
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[54] **PROVIDING COMMUNICATION SERVICES USING SETS OF I/O DEVICES**
[54] **FOURNITURE DE SERVICES DE COMMUNICATION A L'AIDE D'ENSEMBLES DE DISPOSITIFS D'E/S**
[72] HANNU, HANS, SE
[72] WANSTEDT, STEFAN, SE
[72] ARNGREN, TOMMY, SE
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[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
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[54] **PAIRING A REMOTE CONTROL DEVICE TO A VEHICLE**
[54] **APPAIRAGE D'UN DISPOSITIF DE TELECOMMANDE A UN VEHICULE**
[72] WOODRUFF, VERN I., US
[72] LUTHMAN, TRISHA M., US
[72] SCHLOEMER, JAMES F., US
[72] PULSKAMP, STEVEN R., US
[72] MEIRING, DONALD T., US
[72] SHINEW, MATTHEW T., US
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[54] **SYSTEMS AND METHODS FOR A TELESCOPING SUCTION GRIPPER ASSEMBLY**
[54] **SYSTEMES ET PROCEDES POUR ENSEMBLE PINCE A ASPIRATION TELESCOPIQUE**
[72] SCHULTZ, CARTER J., US
[72] LEACH, BRIAN J., US
[72] KEE, ALEXANDER C., US
[72] HOROWITZ, MATANYA B., US
[72] BAYBUTT, MARK, US
[73] AMP ROBOTICS CORPORATION, US
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[54] **PROCESS FOR PREPARING POLYMERIC SECURITY ARTICLES**
[54] **PROCEDE DE PREPARATION D'ARTICLES DE SECURITE POLYMERES**
[72] BLESOVSKY, MICHAEL, GB
[72] SCHAEDE, JOHANNES, DE
[72] STEWART, ROBERT, CH
[73] KOENIG & BAUER BANKNOTE SOLUTIONS SA, CH
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[54] **HELMINTHOSPORIUM TURCICUM-RESISTANT PLANT**
[54] **VEGETAL RESISTANT AU HELMINTHOSPORIUM TURCICUM**
[72] OUZUNOVA, MILENA, DE
[72] SCHEUERMANN, DANIELA, DE
[72] KRATTINGER, SIMON, DE
[72] WICKER, THOMAS, DE
[72] HERREN, GERHARD, DE
[72] HURNI, SEVERINE, DE
[72] KESSEL, BETTINA, DE
[72] PRESTERL, THOMAS, DE
[72] KNAAK, CARSTEN, DE
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[54] **COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR IN-STORE ROUTE RECOMMENDATIONS**
[54] **SYSTEMES ET METHODES INFORMATIQUES POUR DES RECOMMANDATIONS DE TRACES EN MAGASIN**
[72] HAAPOJA, JUHO MIKKO, CA
[72] DELGADO, BYRON LEONEL, CA
[72] LEROUX, STEPHAN, CA
[72] BEAUCHAMP, DANIEL, CA
[72] LALANI, MAAS MANSOOR ALI, CA
[73] SHOPIFY INC., CA
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[54] **METERING DEVICE FOR GRANULAR MATERIAL AND DISTRIBUTION MACHINE HAVING METERING DEVICE**
[54] **DISPOSITIF DE DOSAGE POUR UN PRODUIT SOUS FORME DE GRAINS ET MACHINE DE REPARTITION POURVUE DU DISPOSITIF DE DOSAGE**
[72] RADEKE, JAN PHILIPP, DE
[72] WIEN, THOMAS, DE
[73] AMAZONEN-WERKE H. DREYER SE & CO. KG, DE
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[54] **METHODS, DEVICES, AND SYSTEMS FOR ANALYTE DETECTION AND ANALYSIS**
[54] **PROCEDES, DISPOSITIFS ET SYSTEMES DE DETECTION ET D'ANALYSE D'ANALYTE**
[72] BECKETT, NATHAN, US
[72] ALMOGY, GILAD, US
[72] CASWELL, NATHAN, US
[72] WOLF, JACOB A., US
[72] BARBEE, KRISTOPHER, US
[72] PRISTINSKI, DENIS, US
[72] PRATT, MARK, US
[72] POLOVY, GENE, US
[72] SCHWARTZ, OSIP, US
[72] KUBECKA, STEPHANIE, US
[72] MENCHEN, STEVEN, US
[72] ANTHONY, JOSEPH, US
[72] SOSA, JOSE MARTIN, US
[72] LEE, PHILLIP YOU FAI, US
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[54] **TRANSFORMATEUR POUR RESEAU SOUTERRAIN EN BOUCLE RADIALE**
[72] SENG, NICHOLAS, US
[72] MARONEY, MICHAEL R., US
[72] MONTENEGRO, ALEJANDRO, US
[72] DJOGO, GORAN, US
[73] S & C ELECTRIC COMPANY, US
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[54] **SYSTEMS FOR SIMULATING JOINING OPERATIONS USING MOBILE DEVICES**
[54] **SYSTEMES POUR SIMULER DES OPERATIONS D'ASSEMBLAGE A L'AIDE DE DISPOSITIFS MOBILES**
[72] MARQUINEZ TORRECILLA, PEDRO GERARDO, US
[72] BECKER, WILLIAM JOSHUA, US
[72] BLOUNT, JUSTIN MONROE, US
[72] MARHEFKE, JESSICA MARIE, US
[72] GUNIA, PAVEL, US
[73] ILLINOIS TOOL WORKS INC., US
[73] SEABERY NORTH AMERICA INC., US
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[54] **SYSTEM AND METHOD FOR MONITORING, ANALYZING AND CONTROLLING EMISSIONS IN A PLANT**
[54] **SYSTEME ET METHODE DE SURVEILLANCE, D'ANALYSE ET DE CONTROLE DES EMISSIONS DANS UNE USINE**
[72] BURT, DANIEL MARTIN, CA
[72] LASKOWSKI, THOMAS CHRISTOPHER, CA
[72] DEWITT, MICHAEL ALLEN, CA
[73] SUNCOR ENERGY INC., CA
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[54] **REVETEMENT DE THERMOSOUDAGE PAR INDUCTION ET PROCEDE DE FABRICATION**
[72] SHI, GUANGDA, US
[72] BOURGEOIS, PHILIP, US
[73] TEKNI-PLEX, INC., US
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[54] **POIGNEE DE ROBINET ENCLIQUETABLE**
[72] TANG, YILIN, CN
[72] DEVRIES, ADAM M., US
[72] THOMAS, KURT JUDSON, US
[73] DELTA FAUCET COMPANY, US
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[54] **SYSTEME DE POSE DE PROTHESE RECUPERABLE**
[72] JACKSON, KEITH ALAN, US
[72] WONG, KAREN TSOEK-JI, CA
[72] BRODEUR, CHRISTOPHER, US
[72] FUNG, ERIC SOUN-SANG, CA
[72] BODELL, KELLEN, US
[72] COLEN, FREDERICUS ANTONIUS, US
[72] BANAI, SHMUEL, IL
[72] BANATWALA, JUZER, CA
[73] NEOVASC TIARA INC., CA
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[54] **METHOD AND APPARATUS FOR CONTROLLING DEVICE, SMART PHONE DEVICE, SYSTEM, AND STORAGE MEDIUM**
[54] **METHODE ET APPAREIL POUR CONTROLER UN DISPOSITIF, TELEPHONE INTELLIGENT, SYSTEME ET SUPPORT DE STOCKAGE**
[72] CHEN, WEIHU, CN
[72] GUO, GUANGTING, CN
[72] ZHAO, HONG, CN
[72] SOMMERS, MATHEW, US
[72] HU, JINPENG, US
[73] SAVANT TECHNOLOGIES LLC, US
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[54] **ARTICLE SOLIDE SOLUBLE MULTICOUCHE ET PROCEDE DE FABRICATION ASSOCIE**
[72] TAN, HONGSING, CN
[72] GLENN, JR. ROBERT WAYNE, SG
[72] MAC NAMARA, CARL DAVID, CN
[72] TANG, MING, CN
[72] OKADA, TOSHIYUKI, SG
[72] CHEN, HONGLING, CN
[72] HUANG, XU, CN
[72] NOGUEIRA MEZA, GABRIELLE ALEJANDRO, US
[72] JIANG, MIN, CN
[73] THE PROCTER & GAMBLE COMPANY, US
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[54] **EXTRACTION LIQUIDE-LIQUIDE D'ALCALOIDES PSYCHOACTIFS PURIFIES**
[72] MOSS, RYAN, CA
[72] LIGHTBURN, BENJAMIN, CA
[72] RANKEN, LISA, CA
[73] PSILO SCIENTIFIC LTD., CA
[86] (3133547)
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[54] **BRD4 INHIBITOR COMPOUND IN SOLID FORM AND PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **COMPOSE INHIBITEUR DE BRD4 SOUS FORME SOLIDE, SON PROCEDE DE PREPARATION ET SON APPLICATION**
[72] SHEN, CHUNLI, CN
[72] LIU, YONG, CN
[72] BIAN, HUANYU, CN
[72] WU, CHENGDE, CN
[72] WU, JIAHU, CN
[73] CSPC ZHONGQI PHARMACEUTICAL TECHNOLOGY (SHIJIAZHUANG) CO., LTD., CN
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[54] **UNITE DE DISTRIBUTION DE BILLETS DE LOTERIE COMPRENANT UN ROULEAU FREINANT**
[72] MEJENBORG, STEN HALLUNDBAEK, US
[72] HOLBROOK, JAMES JONATHAN, US
[72] SCOTT, IAN ROBERT, US
[73] SCIENTIFIC GAMES, LLC, US
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[54] **UTILISATION COMBINEE D'UN MEDICAMENT COMPOSE A-NOR-5A ANDROSTANE ET D'UN MEDICAMENT ANTI-CANCEREUX**
[72] CHEN, YAJUN, CN
[72] CHEN, ZHIHUA, CN
[72] ZHENG, YIJUN, CN
[73] SHANGHAI AO QI MEDICAL TECHNOLOGY CO., LTD., CN
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[54] **METHODS AND SYSTEMS FOR DETECTING ANTIBODIES BY SURFACE PLASMON RESONANCE**
[54] **PROCEDES ET SYSTEMES DE DETECTION D'ANTICORPS PAR RESONANCE PLASMONIQUE DE SURFACE**
[72] KELEMEN, MARY KATHERINE MORR, US
[72] HOLMQUIST, BRETT, US
[73] LABORATORY CORPORATION OF AMERICA HOLDINGS, US
[85] 2021-10-04
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[54] **MOTOR-DRIVEN MEDICAL SUCTION PUMP AND METHOD FOR CONNECTING SUCH A SUCTION PUMP TO A POWER SOURCE**
[54] **POMPE D'ASPIRATION MEDICALE MOTORISEE ET PROCEDE DE RACCORDEMENT D'UNE TELLE POMPE D'ASPIRATION A UNE SOURCE D'ALIMENTATION**
[72] HONEGGER, ADRIAN, CH
[72] GIEZENDANNER, CHARLES, CH
[73] MEDELA HOLDING AG, CH
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[54] **FIREARM DISCHARGE LOCATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE LOCALISATION DE DECHARGE D'ARME A FEU**
[72] SINKOV, ANTON S., US
[72] GONZALEZ, ERIC G., US
[72] HUGHES, MICHAEL S., US
[73] BATTELLE MEMORIAL INSTITUTE, US
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[54] **MULTI-PART VEHICLE FLOOR COVER WITH LAP JOINT**
[54] **COUVERTURE DE PLANCHER DE VEHICULE MULTIPIECE COMPRENANT UN JOINT A RECOUVREMENT**
[72] MASANEK, FREDERICK W., JR., US
[72] NOWAK, RADOSLAW, US
[72] MACNEIL, DAVID F., US
[73] MACNEIL IP LLC, US
[86] (3136511)
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[25] EN
[54] **SYSTEMS AND METHODS FOR MAINTAINING VACUUM HOSE LIFE IN HOSE ROUTING SYSTEMS IN PROGRAMMABLE MOTION SYSTEMS**
[54] **SYSTEMES ET PROCEDES POUR MAINTENIR LA DUREE DE VIE D'UN TUYAU DE VIDE DANS DES SYSTEMES D'ACHEMINEMENT DE TUYAU DANS DES SYSTEMES A MOUVEMENTS PROGRAMMABLES**
[72] TOOTHAKER, CALVIN, US
[72] AMEND, JOHN RICHARD JR., US
[72] COHEN, BENJAMIN, US
[72] GEYER, CHRISTOPHER, US
[72] MASON, MATTHEW T., US
[72] WAGNER, THOMAS, US
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US
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[54] **TRANSFORM FOR MATRIX-BASED INTRA-PREDICTION IN IMAGE CODING**
[54] **TRANSFORMATION POUR UNE INTRA-PREDICTION BASEE SUR UNE MATRICE DANS UN CODAGE D'IMAGE**
[72] NAM, JUNGHAK, KR
[72] LIM, JAEHYUN, KR
[72] KOO, MOONMO, KR
[72] KIM, SEUNGHWAN, KR
[73] LG ELECTRONICS INC., KR
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[54] **PIED DETACHABLE A CINQ ETOILES**
[72] YU, JINQIAN, CN
[73] ANJI JINTAI FASTENER CO., LTD., CN
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[54] **CELLULOSE-BASED STRUCTURAL FLOORING PANEL ASSEMBLY**
[54] **ENSEMBLE DALLE DE PLANCHER STRUCTURELLE A BASE DE CELLULOSE**
[72] WU, THOMAS, CA
[72] KHACHI, DARIA, CA
[72] APPLEGATH, CRAIG, CA
[73] DIALOG IP CORP., CA
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[25] EN
[54] **REFRACTORY RING AND REFRACTORY RING SYSTEM AND METHODS FOR ASSEMBLING THE SAME**
[54] **BAGUE REFRACTAIRE ET SYSTEME ET METHODES DE BAGUE REFRACTAIRE AUX FINS D'ASSEMBLAGEE**
[72] FRIEBEL, MICHAEL, US
[72] SHIVARAM, PAVAN, US
[73] REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, AT
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[87] (3139176)
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[25] EN
[54] **HOCKEY STICK WITH VARIABLE GEOMETRY SHAFT AND PADDLE**
[54] **BATON DE HOCKEY COMPRENANT UN BATON ET UNE PALETTE A GEOMETRIE VARIABLE**
[72] PLANTE, DOMINIQUE, CA
[72] POITRAS, MATHIEU, CA
[72] ROUZIER, EDOUARD, CA
[73] BAUER HOCKEY LTD., CA
[86] (3139488)
[87] (3139488)
[22] 2021-11-17
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[51] **Int.Cl. H01M 8/0208 (2016.01) H01M 8/0228 (2016.01) H01M 8/1018 (2016.01)**
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[54] **LAYER SYSTEM FOR COATING A BIPOLAR PLATE, BIPOLAR PLATE, AND FUEL CELL**
[54] **SYSTEME DE COUCHE SERVANT A RECOUVRIR UNE PLAQUE BIPOLAIRE, AINSI QUE PLAQUE BIPOLAIRE ET PILE A COMBUSTIBLE**
[72] VIVEKANANTHAN, JEEVANTHI, DE
[72] BAGCIVAN, NAZLIM, DE
[72] BRUGNARA, RICARDO HENRIQUE, DE
[73] SCHAEFFLER TECHNOLOGIES AG & CO. KG, DE
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[25] EN
[54] **DOUBLE ACTING FLUID END**
[54] **EXTREMITE POUR FLUIDE A DOUBLE EFFET**
[72] STRATULATE, GARY WARREN, US
[72] PENDLETON, GARY, GB
[73] GARTECH, LLC, US
[86] (3140313)
[87] (3140313)
[22] 2021-11-24
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[54] **A SCAFFOLD RACK**
[54] **RATELIER D'ECHAFAUDAGE**
[72] LEDFORD, CHRIS, US
[72] WAGNER, MARK, US
[73] BIL-JAX, INC., US
[86] (3140879)
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[25] EN
[54] **SYSTEMS AND METHODS FOR GENERATING ACCOUNT PERMISSIONS BASED ON APPLICATION PROGRAMMING INTERFACE INTERACTIONS**
[54] **SYSTEMES ET METHODES DE GENERATION DE PERMISSIONS DE COMPTE EN FONCTION DES INTERACTIONS D'INTERFACE DE PROGRAMMATION D'APPLICATIONS**
[72] KULAI, SANDESH KINI, CA
[72] SWAN, BRIAN, CA
[73] SHOPIFY INC., CA
[86] (3141858)
[87] (3141858)
[22] 2021-12-10
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[54] **KNEE ARTHROPLASTY VALIDATION AND GAP BALANCING INSTRUMENTATION**
[54] **VALIDATION D'ARTHROPLASTIE DU GENOU ET INSTRUMENT D'EQUILIBRAGE DE L'ECART**
[72] GOGARTY, EMILY, CA
[72] COUTURE, PIERRE, CA
[72] SANFORD, ADAM H., US
[72] DESBIENS BLAIS, FREDERIQUE, CA
[72] DUFOUR, MARC-ANTOINE, CA
[73] ORTHOSOFT ULC, CA
[86] (3142761)
[87] (3142761)
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[54] **THERMAL ISOLATION IN AN AEROSOL GENERATING DEVICE**
[54] **ISOLATION THERMIQUE DANS UN DISPOSITIF DE GENERATION D'AEROSOL**
[72] LOPEZ, VICTOR CLAVEZ, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2021-12-06
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[25] EN
[54] **DRUM UNIT, DRIVE TRANSMISSION UNIT, CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS**
[54] **UNITE DE TAMBOUR, UNITE DE TRANSMISSION D'ENTRAINEMENT, CARTOUCHE ET DISPOSITIF DE FORMATION D'IMAGE PHOTOGRAPHIQUE ELECTRONIQUE**
[72] FUJIWARA, AKIHIRO, JP
[72] MURAKAMI, RYUTA, JP
[73] CANON KABUSHIKI KAISHA, JP
[85] 2021-12-06
[86] 2020-06-09 (PCT/JP2020/023319)
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[25] EN
[54] **METHODS FOR DEPLOYING BIOSENTINELS TO AGRICULTURAL FIELDS AND MONITORING BIOTIC AND ABIOTIC STRESSES IN CROPS REMOTELY**
[54] **PROCEDES DE DEPLOIEMENT DE BIOSENTINELLES DANS DES CHAMPS AGRICOLES ET DE SURVEILLANCE A DISTANCE DE STRESS BIOTIQUES ET ABIOTIQUES DANS DES CULTURES**
[72] ARONOV, SHELY, US
[72] KUMIMOTO, RODERICK, US
[72] KORNFELD, ARI, US
[73] INNERPLANT, INC., US
[85] 2021-12-16
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[54] **COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING OCULAR INFECTIONS WITH FILOCICLOVIR**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT OU DE PREVENTION D'INFECTIONS OCULAIRES AVEC DU FILOCICLOVIR**
[72] HUSSEIN, ISLAM, US
[72] BOWLIN, TERRY L., US
[72] GAUTHIER, RICHARD, CA
[73] MICROBIOTIX, INC., US
[85] 2021-12-22
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[25] EN
[54] **MIXING SYSTEM FOR PRODUCING AQUEOUS COATING AGENTS WITH A LOW VOC**
[54] **SYSTEME MELANGEUR POUR LA PRODUCTION D'AGENTS DE REVETEMENT AQUEUX A FAIBLE TENEUR EN COV**
[72] STEFFENS, ALEXANDRA, DE
[72] LETTMANN, BERNHARD, DE
[72] RADEMACHER, JOSEF, DE
[72] HOFFMANN, PETER, DE
[73] BASF COATINGS GMBH, DE
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[25] EN
[54] **COMBINATIONS OF AN ANTI-HER2 ANTIBODY-DRUG CONJUGATE AND CHEMOTHERAPEUTIC AGENTS, AND METHODS OF USE**
[54] **COMBINAISONS DE CONJUGUES ANTICORPS ANTI-HER2-MEDICAMENT ET D'AGENTS CHIMIOTHERAPIQUES, ET PROCEDES D'UTILISATION**
[72] BERRY, LEANNE, US
[72] PHILLIPS, GAIL LEWIS, US
[72] SLIWKOWSKI, MARK X., US
[73] GENENTECH, INC., US
[86] (3146422)
[87] (3146422)
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[25] EN
[54] **DOUBLE ACTING BOOST ARRANGEMENT**
[54] **AGENCEMENT DE SURALIMENTATION A DOUBLE EFFET**
[72] REID, MICHAEL ADAM, GB
[73] HALLIBURTON ENERGY SERVICES, INC., US
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[54] **METHODS AND SYSTEMS FOR DETERMINING PART WEAR USING A BOUNDING MODEL**
[54] **PROCEDES ET SYSTEMES PERMETTANT DE DETERMINER L'USURE D'UNE PIECE A L'AIDE D'UN MODELE DE DELIMITATION**
[72] CAMPOMANES, PATRICK S., US
[72] HARTOONIAN, GRAHAM R., US
[72] MCCAFFREY, BRANDON H., US
[73] CATERPILLAR INC., US
[85] 2022-02-03
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[25] EN
[54] **ANTIMICROBIAL COMPOSITION COMPRISING ALKYLATED POLYVINYLPYRROLIDONE POLYMER**
[54] **COMPOSITION ANTIMICROBIENNE COMPRENANT UN POLYMERE DE POLYVINYLPYRROLIDONE ALKYLEE**
[72] SHERRY, ALAN EDWARD, US
[72] POLICICCHIO, NICOLA JOHN, US
[72] WANG, YUEXI, US
[72] FORD, FRANCIS CORNELIO, US
[73] THE PROCTER & GAMBLE COMPANY, US
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[54] **BRASSIERE WITH FLEXIBLE FIT CUPS**
[54] **SOUTIEN-GORGE A BONNETS A AJUSTEMENT FLEXIBLE**
[72] TODARO, URSULA GIOVANNA, US
[72] MARTINET, NATHALIE, XX
[72] OSTROSKI. JENNIFER, US
[73] MAST INDUSTRIES (FAR EAST) LIMITED, CN
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[87] (3148041)
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[54] **WALK-BEHIND SELF-PROPELLED WORKING MACHINE**
[54] **MACHINE DE TRAVAIL AUTOPROPULSEE A DEPLACEMENT ARRIERE**
[72] REN, YUFEI, CN
[72] LI, YANG, CN
[72] ZHU, RONGGEN, CN
[72] XU, HAISHEN, CN
[72] ZHANG, RUI, CN
[73] NANJING CHERVON INDUSTRY CO., LTD., CN
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[54] **SHORT-RANGE WIRELESS CONNECTABLE GLASSES**
[54] **LUNETTES A CONNECTABILITE SANS FIL DE COURTE PORTEE**
[72] CHENG, HSI-CHOU, TW
[72] HUANG, SHUE-YU, TW
[73] CHENG, HSI-CHOU, TW
[73] HUANG, SHUE-YU, TW
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[54] **VEHICLE ACCESS SEATING**
[54] **SIEGE D'ACCES DE VEHICULE**
[72] SLUNGARE, HANS BERTIL, SE
[73] AUTOADAPT AB, SE
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[54] **CONDENSING BOILER CONDENSATE DISCHARGE DEVICE**
[54] **DISPOSITIF DE DECHARGE DE CONDENSAT DE CHAUDIERE A CONDENSATION**
[72] TELIAN, MARKUS WALTER, AT
[73] HOVAL AKTIENGESELLSCHAFT, LI
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[87] (3149468)
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[54] **WIRES OF NICKEL-TITANIUM ALLOY AND METHODS OF FORMING THE SAME**
[54] **FILS EN ALLIAGE NICKEL-TITANE ET LEURS PROCEDES DE FORMATION**
[72] BORN, DEBRA K., US
[72] KUMAR, PARIKSHITH K., US
[72] MAJOLAGBE, KEHINDE A., US
[72] NELSON, JARED S., US
[72] SILVERMAN, JAMES D., US
[73] W. L. GORE & ASSOCIATES, INC., US
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[54] **N,N-DIHYDROCARBYL AMINO CARBOXYLIC ACID, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **ACIDE CARBOXYLIQUE AMINE N,N-DIHYDROCARBYL, METHODE DE PREPARATION ET UTILISATION CONNEXE**
[72] WANG, YANLIANG, CN
[72] XIAO, WENTAO, CN
[72] WU, YUYUAN, CN
[72] LIN, JINCHI, CN
[73] FUJIAN GOLDEN DRAGON RARE-EARTH CO., LTD., CN
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[54] **DISPOSITIF D'OUTIL DE PUITS PERMETTANT DE FORMER UNE BARRIERE PERMANENTE DANS UN PUITS**
[72] TONDEL, STIAN, NO
[73] INTERWELL P&A AS, NO
[85] 2022-03-07
[86] 2020-09-21 (PCT/EP2020/076250)
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[54] **ONBOARDING AND TOTAL DAILY INSULIN ADAPTIVITY**
[54] **INTEGRATION ET ADAPTABILITE D'INSULINE QUOTIDIENNE TOTALE**
[72] LEE, JOON BOK, US
[72] ZHENG, YIBIN, US
[72] O'CONNOR, JASON, US
[72] LY, TRANG, US
[72] BENJAMIN, ERIC, US
[73] INSULET CORPORATION, US
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[54] **SYSTEMS AND METHODS FOR NAVIGATING A MEDIA GUIDANCE APPLICATION WITH MULTIPLE PERSPECTIVE VIEWS**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE NAVIGUER DANS UNE APPLICATION DE GUIDAGE MULTIMEDIA AVEC DE MULTIPLES VUES EN PERSPECTIVE**
[72] BAUDER, CHRISTOPHER, DE
[72] CONNESS, JASON, US
[72] WOODS, THOMAS STEVEN, US
[73] ROVI GUIDES, INC., US
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[54] **METHODS AND MEANS FOR AZIMUTHAL NEUTRON POROSITY IMAGING OF FORMATION AND CEMENT VOLUMES SURROUNDING A BOREHOLE**
[54] **PROCEDES ET MOYENS D'IMAGERIE DE LA POROSITE NEUTRON AZIMUTALE DES VOLUMES DE FORMATION ET DE CIMENT ENTOURANT UN TROU DE FORAGE**
[72] STEWART, ALEX, US
[72] TEAGUE, PHILIP, US
[73] TEAGUE, PHILIP, US
[73] STEWART, ALEX, US
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[54] **SYSTEM AND TOOLS FOR ENHANCED 3D AUDIO AUTHORING AND RENDERING**
[54] **SYSTEME ET OUTILS POUR LA CREATION ET LE RENDU DE SON MULTICANAUX AMELIORE**
[72] ROBINSON, CHARLES Q., US
[72] SCHARPF, JURGEN W., US
[72] TSINGOS, NICOLAS R., US
[73] DOLBY LABORATORIES LICENSING CORPORATION, US
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[87] (3151342)
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[54] **APPARATUS FOR LOCKING A TRUCK COVER AGAINST UNAUTHORIZED RELEASE**
[54] **APPAREIL POUR VERROUILLER UN COUVRE-CAISSE CONTRE UNE LIBERATION NON AUTORISEE**
[72] KEDING, MARTIN, CA
[73] KEDING, MARTIN, CA
[86] (3152439)
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[54] **PRINCIPES ACTIFS VEGETAUX ET LEURS EFFETS ANTI-POLLUTION**
[72] MAJEED, MUHAMMED, IN
[72] NAGABHUSHANAM, KALYANAM, US
[72] MUNDKUR, LAKSHMI, IN
[73] SAMI-SABINSA GROUP LIMITED, IN
[85] 2022-02-25
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[54] **SYSTEM AND METHOD FOR ESTIMATING CONVECTIVE STEAM BOUNDARIES DURING BITUMEN PRODUCTION**
[54] **SYSTEME ET METHODE POUR ESTIMER LES LIMITES DE CONVECTION DE VAPEUR PENDANT LA PRODUCTION DE BITUME**
[72] HEMATILLAKE, DYLAN SANDESH, CA
[72] NGUYEN, ANTHONY HUAN, CA
[72] ALTENHOF, ALLISON JANE, CA
[73] SUNCOR ENERGY INC., CA
[86] (3152964)
[87] (3152964)
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[54] **DOOR-ILLUMINATING HANDLE**
[54] **POIGNEE D'ECLAIRAGE DE PORTE**
[72] WATSON, AIDA K. N., US
[72] RYALS, MADELINE, US
[72] UPTON, NICHOLAS, US
[72] SNIDER, CHRIS R., US
[73] SCHLAGE LOCK COMPANY LLC, US
[85] 2022-02-28
[86] 2020-08-27 (PCT/US2020/048209)
[87] (WO2021/041682)
[30] US (16/552,573) 2019-08-27

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[51] **Int.Cl. E21B 23/10 (2006.01)**
[25] EN
[54] **ALL MECHANICAL COUNTER DART, SYSTEM, AND METHOD**
[54] **CONTRE-FLECHETTE ENTIEREMENT MECANIQUE, SYSTEME ET METHODE**
[72] STOLBOUSHKIN, EUGENE, US
[73] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[86] (3153440)
[87] (3153440)
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[30] US (17/225,348) 2021-04-08

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[51] **Int.Cl. A61K 31/353 (2006.01) A61P 1/00 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION CONTAINING B-LAPACHONE AS ACTIVE INGREDIENT FOR PREVENTION OR TREATMENT OF CHOLESTATIC LIVER DISEASE**
[54] **COMPOSITION PHARMACEUTIQUE CONTENANT B-LAPACHONE COMME INGREDIENT ACTIF POUR LA PREVENTION OU LE TRAITEMENT DE LA MALADIE DU FOIE CHOLOSTATIQUE**
[72] YOON, JOO SEOG, KR
[72] SEO, KANG SIK, KR
[72] HAN, JEONG SU, KR
[72] MOON, SUNG JE, KR
[72] LEE, JUNG HOON, KR
[72] YOON, SOO BIN, KR
[73] CUROME BIOSCIENCES CO., LTD., KR
[85] 2022-04-01
[86] 2021-10-06 (PCT/KR2021/013732)
[87] (WO2022/075756)
[30] KR (10-2020-0130028) 2020-10-08

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[51] **Int.Cl. H05B 47/105 (2020.01) H05B 45/40 (2020.01) H05B 47/16 (2020.01) H01H 35/02 (2006.01) H05K 1/16 (2006.01)**
[25] EN
[54] **REMOTE LOAD CONTROL DEVICE CAPABLE OF ORIENTATION DETECTION**
[54] **DISPOSITIF DE COMMANDE DE CHARGE A DISTANCE CAPABLE DE DETECTION D'ORIENTATION**
[72] DIMBERG, CHRIS, US
[72] GAGE, ALEXANDER WADE, US
[72] HARTE, MATTHEW V., US
[72] KILLO, JASON C., US
[72] KRESCHOLLEK, BRAD MICHAEL, US
[72] MCDONALD, MATTHEW PHILIP, US
[72] TWADDELL, DANIEL L., US
[73] LUTRON TECHNOLOGY COMPANY LLC, US
[86] (3154267)
[87] (3154267)
[22] 2017-03-24
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[30] US (62/312,863) 2016-03-24
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[30] US (62/345,449) 2016-06-03
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[51] **Int.Cl. B21D 22/02 (2006.01) B21D 26/047 (2011.01) B21D 53/88 (2006.01) B62D 25/08 (2006.01)**
[25] EN
[54] **FLANGED MEMBER**
[54] **ELEMENT A BRIDE**
[72] SHIMIZU, SATOSHI, JP
[72] ISHIZUKA, MASAYUKI, JP
[72] SAIKA, MASAYUKI, JP
[72] UENO, NORIEDA, JP
[73] SUMITOMO HEAVY INDUSTRIES, LTD., JP
[85] 2022-03-11
[86] 2020-12-09 (PCT/JP2020/045851)
[87] (WO2021/149387)
[30] JP (2020-006717) 2020-01-20

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[13] C
[51] **Int.Cl. H04N 21/6377 (2011.01) H04W 48/16 (2009.01) H04L 65/40 (2022.01)**
[25] EN
[54] **SYSTEM AND APPARATUS FOR PROVIDING NETWORK ASSISTANCE FOR TRAFFIC HANDLING IN DOWNLINK STREAMING**
[54] **SYSTEME ET APPAREIL DE FOURNITURE D'UNE ASSISTANCE DE RESEAU DESTINEE A LA GESTION DE TRAFIC DANS UNE DIFFUSION EN CONTINU DE LIAISON DESCENDANTE**
[72] BOUAZIZI, IMED, US
[72] STOCKHAMMER, THOMAS, US
[73] QUALCOMM INCORPORATED, US
[85] 2022-03-17
[86] 2020-10-07 (PCT/US2020/054530)
[87] (WO2021/071912)
[30] US (62/912,335) 2019-10-08
[30] US (17/064,529) 2020-10-06

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[51] **Int.Cl. H05B 47/12 (2020.01) F24F 11/50 (2018.01) H04W 4/30 (2018.01) H05B 47/19 (2020.01) G10L 15/22 (2006.01)**
[25] EN
[54] **AUDIO-BASED LOAD CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DE CHARGE A BASE AUDIO**
[72] BAKER, RHODES B., US
[72] HARTE. MATTHEW V., US
[72] KARC, JEFFREY, US
[72] KNODE, GALEN E., US
[72] NILL, JOHN B., US
[72] SHUKLA, JAYKRISHNA A., US
[73] LUTRON TECHNOLOGY COMPANY LLC, US
[86] (3155434)
[87] (3155434)
[22] 2018-02-07
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[51] **Int.Cl. A61K 33/16 (2006.01) A61K 8/9789 (2017.01) A61K 8/19 (2006.01) A61K 8/21 (2006.01) A61K 8/24 (2006.01) A61K 8/27 (2006.01) A61K 8/35 (2006.01) A61K 8/44 (2006.01) A61K 31/122 (2006.01) A61K 31/198 (2006.01) A61K 36/185 (2006.01) A61P 1/02 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS COMPRISING HOPS BETA ACID AND FLUORIDE**
[54] **COMPOSITIONS DE SOIN BUCCODENTAIRE COMPRENANT DE L'ACIDE BETA DE HOUBLON ET DU FLUORURE**
[72] BAIG, ARIF ALI, US
[72] BAKER, TAMMY, US
[72] BIESBROCK, AARON REED, US
[72] ST. JOHN, SAMUEL JAMES, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-03-21
[86] 2020-09-30 (PCT/US2020/070597)
[87] (WO2021/067993)
[30] US (62/907,733) 2019-09-30
[30] US (62/907,735) 2019-09-30
[30] US (62/907,736) 2019-09-30
[30] US (62/972,109) 2020-02-10
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[13] C
[51] **Int.Cl. C08J 3/075 (2006.01) H01M 10/0561 (2010.01) C08F 16/02 (2006.01) C08G 14/10 (2006.01) C08G 14/12 (2006.01)**
[25] EN
[54] **TRANSPARENT TRIAZINE COPOLYMER BASED GEL-POLYMER ELECTROLYTES WITH IMPROVED CONDUCTIVITY**
[54] **ELECTROLYTES TRANSPARENTS EN GELS POLYMERES A BASE DE COPOLYMERES DE TRIAZONE**
[72] MESHCHERYAKOV, VLADIMIR IGOREVICH, RU
[73] COMBERRY, LLC, RU
[85] 2022-04-22
[86] 2020-10-23 (PCT/RU2020/050293)
[87] (WO2021/080472)
[30] RU (2019134226) 2019-10-25

[11] **3,155,781**
[13] C
[51] **Int.Cl. B60B 3/00 (2006.01) B60B 3/02 (2006.01)**
[25] EN
[54] **VEHICLE WHEELS AND METHODS OF MAKING VEHICLE WHEELS**
[54] **ROUES DE VEHICULE ET PROCEDES DE FABRICATION DE ROUES DE VEHICULE**
[72] WALLACE, SPENCER, US
[73] HOWMET AEROSPACE INC., US
[85] 2022-04-22
[86] 2020-12-08 (PCT/US2020/063757)
[87] (WO2021/118984)
[30] US (62/945,703) 2019-12-09

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[13] C
[51] **Int.Cl. G06Q 10/087 (2023.01) H04W 4/021 (2018.01) H04W 4/029 (2018.01) H04W 4/35 (2018.01) G06Q 10/0836 (2023.01) G06Q 10/109 (2023.01)**
[25] EN
[54] **GEOFENCING TO REDUCE WAIT TIMES FOR ORDER PICKUPS**
[54] **GEOREPERAGE POUR REDUIRE LES TEMPS D'ATTENTE DES RETRAITS DE COMMANDE**
[72] HSIAO, DANIEL, US
[72] SCOTT, JASON, US
[72] JABLONSKI, MICHAEL, US
[72] ZAHEDI, NIMA, US
[73] MAPLEBEAR INC. (DBA INSTACART), US
[85] 2022-04-22
[86] 2020-10-26 (PCT/US2020/057391)
[87] (WO2021/086790)
[30] US (16/670,447) 2019-10-31

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[13] C
[51] **Int.Cl. G01N 1/28 (2006.01) C09K 15/04 (2006.01) G01N 33/24 (2006.01)**
[25] FR
[54] **METHOD FOR INERTING EXCAVATION SLUDGE**
[54] **PROCEDE D'INERTAGE DES BOUES D'EXCAVATION**
[72] BOULANGE, LAURENCE, FR
[72] DOOM, FLORIAN, FR
[72] DA CRUZ GOMES, MARINA, FR
[73] EIFFAGE GC INFRA LINEAIRES, FR
[86] (3155957)
[87] (3155957)
[22] 2022-04-13
[30] FR (21 04054) 2021-04-19

[11] **3,156,365**
[13] C
[51] **Int.Cl. F16B 1/00 (2006.01) F16M 7/00 (2006.01) H01B 17/56 (2006.01) E04B 1/38 (2006.01)**
[25] EN
[54] **ANCHORING UNIT, METHOD FOR FASTENING A SYSTEM TO AN ANCHORING UNIT, AND SYSTEM UNIT WITH ANCHORING UNIT**
[54] **UNITE D'ANCRAGE, PROCEDE DE FIXATION D'UN SYSTEME A UNE UNITE D'ANCRAGE ET UNITE DE SYSTEME DOTEE D'UNE UNITE D'ANCRAGE**
[72] SPIES, ALEXANDER, DE
[72] PLOBNER, ROLAND, DE
[72] UTZ, PETER, DE
[73] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2022-03-31
[86] 2020-09-07 (PCT/EP2020/074925)
[87] (WO2021/063633)
[30] EP (19201068.4) 2019-10-02

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[13] C
[51] **Int.Cl. G07C 11/00 (2006.01) H04W 12/084 (2021.01) G07C 9/29 (2020.01)**
[25] EN
[54] **SYSTEM, METHOD, AND PROGRAM FOR CONTROLLING ACCESS TO A MACHINE OR EQUIPMENT**
[54] **SYSTEME, METHODE ET PROGRAMME POUR CONTROLER L'ACCES A UNE MACHINE OU A UN EQUIPEMENT**
[72] PERES, TAMIR, US
[72] GUPTA, SUNIL, US
[72] LAYSON, VANESSA, US
[72] PANDYA, SURAJ, US
[73] HERC RENTALS INC., US
[86] (3156398)
[87] (3156398)
[22] 2022-04-25
[30] US (63/299,868) 2022-01-14
[30] US (17/683,459) 2022-03-01

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[13] C
[51] **Int.Cl. B05B 1/14 (2006.01) B65B 39/00 (2006.01) B67C 3/02 (2006.01)**
[25] EN
[54] **LIQUID DISPENSING SYSTEM COMPRISING AN UNITARY DISPENSING NOZZLE**
[54] **SYSTEME DE DISTRIBUTION DE LIQUIDE COMPRENANT UNE BUSE DE DISTRIBUTION UNITAIRE**
[72] CACCIATORE, JUSTIN THOMAS, US
[72] GU, CHONG, CN
[72] CAPECI, SCOTT WILLIAM, US
[72] D'HAESELEER, ILSE MARIA CYRILLA, BE
[72] GUIDA, VINCENZO, BE
[72] NG, BOON HO, CN
[72] ZHANG, QI, CN
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-04-27
[86] 2019-12-16 (PCT/CN2019/125654)
[87] (WO2021/119921)

[11] **3,156,504**
[13] C
[51] **Int.Cl. A61F 2/46 (2006.01) A61B 17/16 (2006.01) A61F 2/30 (2006.01) A61F 2/44 (2006.01)**
[25] EN
[54] **INSTRUMENTATION FOR FUSING A SACROILIAC JOINT**
[54] **INSTRUMENTATION POUR LA FUSION D'UNE ARTICULATION SACRO-ILIAQUE**
[72] LANEVE, SEAN, US
[72] GIRSCH, CHARLES, US
[72] GIRSCH, CHRIS, US
[73] PTL OPCO LLC, US
[85] 2022-03-31
[86] 2020-10-05 (PCT/US2020/054299)
[87] (WO2021/067956)
[30] US (62/910,913) 2019-10-04
[30] US (16/851,840) 2020-04-17

[11] **3,156,524**
[13] C
[51] **Int.Cl. E21B 36/04 (2006.01) E21B 36/00 (2006.01) E21B 43/24 (2006.01) E21B 43/26 (2006.01) H01B 12/04 (2006.01) H01B 12/16 (2006.01) H05B 3/40 (2006.01)**
[25] EN
[54] **HIGH POWER DENSE DOWN-HOLE HEATING DEVICE FOR ENHANCED OIL, NATURAL GAS, HYDROCARBON, AND RELATED COMMODITY RECOVERY AND METHODS THEREOF**
[54] **DISPOSITIF DE CHAUFFAGE DE FOND DE TROU DENSE A PUISSANCE ELEVEE POUR LA RECUPERATION AMELIOREE DE PETROLE, GAZ NATUREL, HYDROCARBURE ET AUTRE PRODUIT ASSOCIE ET METHODES CONNEXES**
[72] REY, CHRISTOPHER M., US
[73] REY, CHRISTOPHER M., US
[86] (3156524)
[87] (3156524)
[22] 2015-08-06
[62] 2,899,784
[30] US (62/040,061) 2014-08-21
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[13] C
[51] **Int.Cl. G06Q 40/04 (2012.01) G06F 3/0481 (2022.01)**
[25] EN
[54] **TRADING TOOLS FOR ELECTRONIC TRADING**
[54] **OUTILS DE NEGOCIATION POUR NEGOCIATION ELECTRONIQUE**
[72] KEMP, GARY ALLEN II, US
[72] SCHLUETTER, JENS-UWE, US
[72] BRUMFIELD, HARRIS, US
[72] BURNS, MICHAEL, US
[72] WEST, ROBERT A., US
[72] SINGER, SCOTT, US
[73] TRADING TECHNOLOGIES INTERNATIONAL, INC., US
[86] (3156995)
[87] (3156995)
[22] 2003-04-17
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[30] US (10/125,894) 2002-04-19
[30] US (10/403,757) 2003-03-31

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[13] C
[51] **Int.Cl. B25J 15/06 (2006.01) B07C 5/36 (2006.01) B25J 15/00 (2006.01)**
[25] EN
[54] **AN ACTUATED AIR CONVEYOR DEVICE FOR MATERIAL SORTING AND OTHER APPLICATIONS**
[54] **DISPOSITIF TRANSPORTEUR D'AIR ACTIONNE POUR LE TRI DE MATERIAUX ET D'AUTRES APPLICATIONS**
[72] DOUGLAS, CAMERON D., US
[72] BAYBUTT, MARK, US
[72] HOROWITZ, MATANYA B., US
[73] AMP ROBOTICS CORPORATION, US
[85] 2022-04-05
[86] 2020-12-15 (PCT/US2020/065153)
[87] (WO2021/126878)
[30] US (62/948,404) 2019-12-16

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[13] C
[51] **Int.Cl. H04B 7/185 (2006.01) H04L 1/00 (2006.01) H04L 25/00 (2006.01)**
[25] EN
[54] **NEAR-CAPACITY ITERATIVE DETECTION OF CO-CHANNEL INTERFERENCE FOR A HIGH-EFFICIENCY MULTIBEAM SATELLITE SYSTEM**
[54] **DETECTION ITERATIVE DE BROUILLAGE DANS UN MEME CANAL AU VOISINAGE DE LA PLEINE CAPACITE POUR UN SYSTEME DE SATELLITE MULTIFAISCEAUX A HAUT RENDEMENT**
[72] BEIDAS, BASSEL F., US
[72] SESHADRI, ROHIT LYER, US
[73] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2022-05-05
[86] 2020-11-12 (PCT/US2020/060143)
[87] (WO2021/108139)
[30] US (62/939,928) 2019-11-25
[30] US (16/784,207) 2020-02-06

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[13] C
[51] **Int.Cl. H04W 76/19 (2018.01) H04W 56/00 (2009.01) H04W 88/06 (2009.01) H04W 76/15 (2018.01) H04W 76/27 (2018.01)**
[25] EN
[54] **CELL CONFIGURATION PARAMETERS**
[54] **PARAMETRES DE CONFIGURATION DES CELLULES**
[72] KIM, TAEHUN, US
[72] DINAN, ESMAEL, US
[72] PARK, KYUNGMIN, US
[72] RYU, JINSOOK, US
[73] OFINNO, LLC, US
[85] 2022-04-25
[86] 2020-11-09 (PCT/US2020/059685)
[87] (WO2021/092563)
[30] US (62/931,952) 2019-11-07

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[13] C
[51] **Int.Cl. E21B 43/26 (2006.01) C09K 8/62 (2006.01) C09K 8/80 (2006.01)**
[25] EN
[54] **METHODS OF LOW-RATE HYDRAULIC FRACTURING TREATMENTS**
[54] **PROCEDES DE TRAITEMENTS DE FRACTURATION HYDRAULIQUE A FAIBLE DEBIT**
[72] NGUYEN, PHILIP D., US
[72] DUSTERHOFT, RONALD GLEN, US
[72] STEPHENSON, STANLEY V., US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-05-19
[86] 2020-01-09 (PCT/US2020/012832)
[87] (WO2021/141583)
[30] US (16/737,138) 2020-01-08

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[13] C
[51] **Int.Cl. G06V 20/40 (2022.01) G06V 10/762 (2022.01) G11B 27/031 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR AUTOMATICALLY EXTRACTING COMPELLING PORTIONS OF A MEDIA CONTENT ITEM**
[54] **TECHNIQUES D'EXTRACTION AUTOMATIQUE DE PARTIES CONVAINCANTES D'UN ELEMENT DE CONTENU MULTIMEDIA**
[72] KANSARA, APURVAKUMAR DILIPKUMAR, US
[73] NETFLIX, INC., US
[85] 2022-04-26
[86] 2020-11-17 (PCT/US2020/060855)
[87] (WO2021/101872)
[30] US (16/689,019) 2019-11-19

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[13] C
[51] **Int.Cl. B01D 21/01 (2006.01) C02F 1/52 (2006.01) C02F 11/14 (2019.01) C10G 1/04 (2006.01)**
[25] EN
[54] **PROCESS FOR TREATING TAILINGS USING LOW SAND-TO-FINES RATIO, FLOCCULATION AND DEWATERING**
[54] **PROCEDE DE TRAITEMENT DE RESIDUS SELON UN FAIBLE RAPPORT SABLE-FINES, FLOCULATION ET DESHYDRATATION**
[72] REVINGTON, ADRIAN PETER, CA
[72] SANCHEZ, ANA CRISTINA, CA
[72] BUGG, TREVOR, CA
[72] OMOTOSO, OLADIPO, CA
[73] SUNCOR ENERGY INC., CA
[86] (3159264)
[87] (3159264)
[22] 2013-06-21
[62] 3,070,623
[30] US (61/662,726) 2012-06-21

[11] **3,160,026**
[13] C
[51] **Int.Cl. B04B 1/08 (2006.01) B04B 7/14 (2006.01)**
[25] EN
[54] **METHOD FOR MOUNTING A STACK OF SEPARATING DISCS IN A CENTRIFUGAL SEPARATOR BOWL AND A TOOL**
[54] **PROCEDE DE MONTAGE D'UN EMPILEMENT DE DISQUES DE SEPARATION DANS UNE CUVE DE SEPARATEUR CENTRIFUGE, ET OUTIL**
[72] PITKAMAKI, JOUKO, SE
[73] ALFA LAVAL CORPORATE AB, SE
[85] 2022-05-03
[86] 2020-11-09 (PCT/EP2020/081474)
[87] (WO2021/099162)
[30] EP (19211006.2) 2019-11-22

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[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/24 (2021.01) A61B 5/11 (2006.01) H04W 80/06 (2009.01) H04L 67/12 (2022.01)**
[25] EN
[54] **WEARABLE SENSOR DEVICE**
[54] **DISPOSITIF DE CAPTEUR PORTABLE**
[72] KUWABARA, KEI, JP
[72] TOKURA, AKIO, JP
[72] MATSUOKA, HIROTO, JP
[72] ISHIHARA, TAKAKO, JP
[72] OGASAWARA, TAKAYUKI, JP
[72] HASHIMOTO, YUKI, JP
[72] MATSUNAGA, KENICHI, JP
[72] WADA, TOSHIKI, JP
[72] TOGO, HIROYOSHI, JP
[73] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP
[85] 2022-05-04
[86] 2019-11-06 (PCT/JP2019/043410)
[87] (WO2021/090385)

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[13] C
[51] **Int.Cl. C10M 137/10 (2006.01)**
[25] EN
[54] **LUBRICATING COMPOSITIONS COMPRISING ZINC DIALKYL DITHIOPHOSPHATE IN HYBRID ENGINES**
[54] **COMPOSITIONS DE LUBRIFICATION COMPRENANT UN DIALKYLDITHIOPHOSPHATE DE ZINC DANS LES MOTEURS HYBRIDES**
[72] SHAO, HUIFANG, US
[72] DEVLIN, MARK, US
[72] CARPENTER, GUILLAUME, GB
[72] RANSOM, PAUL, GB
[73] AFTON CHEMICAL CORPORATION, US
[86] (3160494)
[87] (3160494)
[22] 2022-05-26
[30] US (63/197171) 2021-06-04

[11] **3,160,630**
[13] C
[51] **Int.Cl. E04B 2/92 (2006.01) E04B 1/66 (2006.01) E04C 2/292 (2006.01) E04C 2/32 (2006.01) E04C 2/38 (2006.01)**
[25] EN
[54] **FACADE ELEMENT, BUILDING FACADE AND PROCESS FOR THE ASSEMBLING OF SUCH A BUILDING FACADE**
[54] **ELEMENT DE FACADE, FACADE DE BATIMENT ET PROCEDE D'ASSEMBLAGE D'UNE TELLE FACADE DE BATIMENT**
[72] DELCUVE, FREDERIC, BE
[72] SCHOULLER, PEGGY, FR
[73] ARCELORMITTAL, LU
[85] 2022-05-06
[86] 2020-11-26 (PCT/IB2020/061167)
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[30] IB (PCT/IB2019/060236) 2019-11-27

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[54] **SNOW GROOMER OR OTHER TRACKED VEHICLE AND SYSTEMS THEREFOR**
[54] **DAMEUSE A NEIGE OU AUTRE VEHICULE CHENILLE ET SYSTEMES ASSOCIES**
[72] THIBAULT, JONATHAN, CA
[72] KIRCHMAIR, MARTIN, CA
[72] PELLETIER, MICHEL, CA
[72] HEBERT, PATRICK, CA
[72] GENDRON, FRANCIS, CA
[72] AUTHIER, ARIANE, CA
[72] BERGERON, STEPHANE, CA
[72] PAQUET, FRANCOIS, CA
[73] PRINOTH LTD., CA
[86] (3161210)
[87] (3161210)
[22] 2014-11-18
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[25] EN
[54] **A BILAYER HYDROGEN ELECTRODE FOR A SOLID-OXIDE ELECTROCHEMICAL CELL**
[54] **ELECTRODE A HYDROGENE BICOUCHE POUR UNE CELLULE ELECTROCHIMIQUE A OXYDES SOLIDES**
[72] OSADA, NORIKAZU, JP
[72] KAMEDA, TSUNEJI, JP
[73] TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION, JP
[86] (3161426)
[87] (3161426)
[22] 2022-06-02
[30] JP (2021-095732) 2021-06-08
[30] JP (2022-081464) 2022-05-18

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[51] **Int.Cl. B60K 11/08 (2006.01)**
[25] EN
[54] **MODULAR AERO DEVICE ACTUATOR AND A MODULAR ACTIVE GRILLE SHUTTER SYSTEM HAVING A REDUCED NUMBER OF VANES**
[54] **ACTIONNEUR DE DISPOSITIF AERONAUTIQUE MODULAIRE ET SYSTEME D'OBTURATEUR A GRILLE ACTIVE MODULAIRE AYANT UN NOMBRE REDUIT D'AUBES**
[72] LINDBERG, BRAENDON R., US
[72] PETERSON, TED E., US
[72] SHINTRE, SOHAN, US
[73] MAGNA EXTERIORS INC., CA
[85] 2022-06-10
[86] 2020-12-23 (PCT/US2020/066803)
[87] (WO2021/133890)
[30] US (62/954,157) 2019-12-27

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[25] EN
[54] **FIRE RESISTANT FIBRE CEMENT COMPOSITIONS**
[54] **COMPOSITIONS DE FIBROCIMENT RESISTANTES AU FEU**
[72] RINDER, TASSILO FOLKER, CH
[72] ZANDERS, CARSTEN, CH
[72] MILLON, OLIVER PETER GUNTER, CH
[73] SWISSPEARL GROUP AG, CH
[85] 2022-06-13
[86] 2022-06-01 (PCT/EP2022/064888)
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[25] EN
[54] **INFORMATION PROVIDING DEVICE AND DETERMINATION SYSTEM**
[54] **DISPOSITIF DE FOURNITURE D'INFORMATIONS ET SYSTEME DE DETERMINATION**
[72] ISHIZUKA, MASAYUKI, JP
[72] UENO, NORIEDA, JP
[73] SUMITOMO HEAVY INDUSTRIES, LTD., JP
[85] 2022-05-27
[86] 2021-01-13 (PCT/JP2021/000874)
[87] (WO2021/176851)
[30] JP (2020-034940) 2020-03-02

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[25] EN
[54] **ANNULAR PRESSURE CAP DRILLING METHOD**
[54] **PROCEDE DE FORAGE A COIFFE DE PRESSION ANNULAIRE**
[72] HUGHES, WILLIAM JAMES, US
[73] HUGHES TOOL COMPANY LLC, US
[85] 2022-06-07
[86] 2020-12-06 (PCT/US2020/063522)
[87] (WO2021/118895)
[30] US (62/945,210) 2019-12-08
[30] US (17/113,005) 2020-12-05

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[25] EN
[54] **DUAL-SENSOR DETECTION OF REFLECTANCE SIGNALS FOR THIN-FILM BASED ASSAYS**
[54] **DETECTION A DOUBLE CAPTEUR DE SIGNAUX DE REFLECTANCE POUR DOSAGES A BASE DE FILM MINCE**
[72] SUN, QI, US
[72] ZHENG, JIAN, US
[72] DAGGETT, STEPHEN, US
[73] ORTHO-CLINICAL DIAGNOSTICS, INC., US
[85] 2022-06-10
[86] 2020-12-18 (PCT/US2020/066026)
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[25] EN
[54] **MAGNETIC FLUX BIAS FOR PULSE SHAPING OF MICROWAVE SIGNALS**
[54] **POLARISATION DE FLUX MAGNETIQUE PERMETTANT LA MISE EN FORME D'IMPULSIONS DE SIGNAUX HYPERFREQUENCE**
[72] ABDO, BALEEGH, US
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-18
[86] 2021-03-04 (PCT/EP2021/055527)
[87] (WO2021/185595)
[30] US (16/819,234) 2020-03-16

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[51] **Int.Cl. G07D 7/20 (2016.01) B42D 25/30 (2014.01) G07D 7/12 (2016.01)**
[25] EN
[54] **MECHANICALLY STAMPED UNIQUE FEATURES FOR AUTHENTICITY AND PROVENANCE TRACKING**
[54] **CARACTERISTIQUES UNIQUES ESTAMPILLEES MECANIQUEMENT POUR TRACER L'AUTHENTICITE ET LA PROVENANCE**
[72] LOVCHIK, ROBERT DEAN, CH
[72] WEISS, JONAS, CH
[72] TEMIZ, YUKSEL, CH
[72] DELAMARCHE, EMMANUEL, CH
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-20
[86] 2021-02-15 (PCT/IB2021/051235)
[87] (WO2021/191698)
[30] US (16/826,601) 2020-03-23

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[25] EN
[54] **HYBRID READOUT PACKAGE FOR QUANTUM MULTICHIP BONDING**
[54] **PROGICIEL DE LECTURE HYBRIDE POUR LIAISON MULTIPUCES QUANTIQUE**
[72] SHAO, DONGBING, US
[72] LEWANDOWSKI, ERIC, US
[72] BRONN, NICHOLAS, US
[72] BRINK, MARKUS, US
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-20
[86] 2021-03-10 (PCT/EP2021/056078)
[87] (WO2021/197781)
[30] US (16/835,862) 2020-03-31

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[13] C
[51] **Int.Cl. C10L 10/18 (2006.01)**
[25] EN
[54] **FUEL STABILIZER**
[54] **STABILISATEUR DE CARBURANT**
[72] SAROUKHANIAN, SHANT, US
[72] POLIGNONE, DONATO, US
[72] UTSCHIG-SAMUELS, STEPHEN, US
[73] HAPPYFUEL, LLC, US
[86] (3166804)
[87] (3166804)
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[25] EN
[54] **MODULAR SMART IMPLEMENT FOR PRECISION AGRICULTURE**
[54] **INSTRUMENT INTELLIGENT MODULAIRE POUR L'AGRICULTURE DE PRECISION**
[72] ANTLE, JEFFREY L., US
[72] SNYDER, STEVEN T., US
[72] LARICK, AUSTIN J., US
[73] STOUT INDUSTRIAL TECHNOLOGY, INC., US
[85] 2022-08-05
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[30] US (62/971,991) 2020-02-09
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[25] EN
[54] **YIELD-RATIO-CONTROLLED STEEL AND MANUFACTURING METHOD THEREFOR**
[54] **ACIER A COEFFICIENT D'ELASTICITE REGULE ET SON PROCEDE DE FABRICATION**
[72] ZHAO, SIXIN, CN
[72] HUANG, ZONGZE, CN
[72] GAO, JIAQIANG, CN
[72] ZHANG, JUN, CN
[73] BAOSHAN IRON & STEEL CO., LTD., CN
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[86] 2021-02-07 (PCT/CN2021/075734)
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[25] EN
[54] **CARBON-NEUTRAL PROCESS FOR GENERATING ELECTRICITY**
[54] **PROCEDE NEUTRE EN CARBONE DE PRODUCTION D'ELECTRICITE**
[72] ALLINSON, PAUL A., US
[72] HOHMANN, ROBERT P., US
[72] MUNSON, CURTIS L., US
[72] O'REAR, DENNIS, US
[72] SCIAMANNA, STEVEN F., US
[72] SCHINSKI, WILLIAM L., US
[72] WILSON, CHARLES R., US
[72] KLAASSEN, ALAN W., US
[73] THE CLAIRE TECHNOLOGIES CORPORATION, US
[85] 2022-08-24
[86] 2021-09-29 (PCT/US2021/052553)
[87] (WO2022/076219)
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[51] **Int.Cl. G01F 1/66 (2022.01) B33Y 10/00 (2015.01) B33Y 70/00 (2020.01) G01F 1/667 (2022.01)**
[25] EN
[54] **TRANSDUCER MINI-HORN ARRAY FOR ULTRASONIC FLOW METER**
[54] **RESEAU DE MINI-PAVILLONS DE TRANSDUCTEURS POUR DEBITMETRE ULTRASONORE**
[72] MEZHERITSKY, ALEX, US
[73] MICRO MOTION, INC., US
[86] (3169332)
[87] (3169332)
[22] 2016-03-09
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[25] EN
[54] **MEDICAL TUBE CLEARANCE DEVICE**
[54] **DISPOSITIF DE DESOBSTRUCTION DE TUBE MEDICAL**
[72] O'KEEFE, KATHRYN BERNADINE, US
[72] MCDANIEL, STEPHEN RIDDLE, US
[72] BOYLE, EDWARD M., JR., US
[72] BERES, KENNETH ALLAN, US
[72] BARRA, MATTHEW CHRISTOPHER, US
[72] URBANIK, THOMAS, US
[72] GAMMON, CHELSEA ANN, US
[72] CHESNIN, KENNETH J., US
[73] CLEARFLOW, INC., US
[86] (3172960)
[87] (3172960)
[22] 2015-02-17
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[25] EN
[54] **HIGHLY REINFORCED IONOMER MEMBRANES FOR HIGH SELECTIVITY AND HIGH STRENGTH**
[54] **MEMBRANES IONOMERES HAUTEMENT RENFORCEES POUR UNE SELECTIVITE ELEVEE ET UNE RESISTANCE ELEVEE**
[72] SUZUKI, TAKEYUKI, JP
[72] AGAPOV, ALEXANDER, US
[72] EDMUNDSON, MARK, US
[73] W. L. GORE & ASSOCIATES, INC., US
[73] W. L. GORE & ASSOCIATES G.K., JP
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[87] (3172974)
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[25] EN
[54] **METHOD FOR PRODUCING MIXED METAL SOLUTION AND METHOD FOR PRODUCING MIXED METAL SALT**
[54] **METHODE DE PRODUCTION D'UNE SOLUTION DE MELANGE DE METAUX ET METHODE DE PRODUCTION D'UN SEL METALLIQUE MIXTE**
[72] ARAKAWA, JUNICHI, JP
[72] TAJIRI, KAZUNORI, JP
[73] JX METALS CORPORATION, JP
[85] 2022-09-26
[86] 2021-04-22 (PCT/JP2021/016380)
[87] (WO2021/215520)
[30] JP (2020-076946) 2020-04-23

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[13] C
[51] **Int.Cl. G05B 19/418 (2006.01)**
[25] EN
[54] **OPTIMIZING CONTROL ACTIONS OF A CONTROL SYSTEM VIA AUTOMATIC DIMENSIONALITY REDUCTION OF A MATHEMATICAL REPRESENTATION OF THE CONTROL SYSTEM**
[54] **OPTIMISATION D'ACTIONS DE COMMANDE D'UN SYSTEME DE COMMANDE PAR REDUCTION DE DIMENSIONNALITE AUTOMATIQUE DE REPRESENTATION MATHEMATIQUE DU SYSTEME DE COMMANDE**
[72] ZADOROJNIY, ALEXANDER, IL
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-10-05
[86] 2021-04-21 (PCT/IB2021/053270)
[87] (WO2021/229325)
[30] US (16/871,903) 2020-05-11

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[51] **Int.Cl. A01C 21/00 (2006.01) A01C 15/00 (2006.01) A01C 23/04 (2006.01)**
[25] EN
[54] **METHOD AND VEHICLE FOR APPLYING AN AGROCHEMICAL MIXTURE TO A WORKING AREA OF A FIELD**
[54] **PROCEDE ET VEHICULE POUR APPLIQUER UN MELANGE AGROCHIMIQUE SUR UNE ZONE DE TRAVAIL DANS UN CHAMP**
[72] ZERULLA, WOLFRAM, DE
[72] SCHMID, MARKUS, DE
[72] PASDA, GREGOR, DE
[73] BASF SE, DE
[86] (3174846)
[87] (3174846)
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[62] 2,978,033
[30] EP (15161117.5) 2015-03-26
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[51] **Int.Cl. H04N 19/12 (2014.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CONFIGURING TRANSFORM FOR VIDEO COMPRESSION**
[54] **PROCEDE ET APPAREIL DE CONFIGURATION DE TRANSFORMEE POUR UNE COMPRESSION VIDEO**
[72] KOO, MOONMO, KR
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[86] (3175176)
[87] (3175176)
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[25] EN
[54] **MATERIAL TRANSFER SYSTEM FOR A BODY OF WATER**
[54] **SYSTEME DE TRANSFERT DU MATERIEL POUR UN PLAN D'EAU**
[72] SZOKE, SIMON, CA
[72] MACDONALD, SAM, CA
[72] PACZEK, LUCAS, CA
[72] ZELL, GRAHAM, CA
[72] HALLIDAY, DAVID, CA
[72] ZELL, PETER, CA
[72] ROBINSON, BRETT, CA
[73] SEA TO SKY ENERGY SOLUTIONS CORP., CA
[86] (3175346)
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[62] 3,082,546
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[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/745 (2015.01) A23L 33/135 (2016.01) A61K 9/00 (2006.01) A61P 1/00 (2006.01)**
[25] EN
[54] **PROBIOTIC FOR INFANTILE EXCESSIVE CRYING**
[54] **PROBIOTIQUES POUR DES CAS DE PLEURS INFANTILS EXCESSIFS**
[72] CUNE CASTELLANA, JORDI, ES
[72] LAZARO MALLEN, ELISABET, ES
[72] ESPADALER MAZO, JORDI, ES
[73] AB-BIOTICS, S.A., ES
[86] (3176938)
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[25] EN
[54] **MECHANICAL PROPERTY MEASURING APPARATUS, MECHANICAL PROPERTY MEASURING METHOD, SUBSTANCE MANUFACTURING EQUIPMENT, SUBSTANCE MANAGEMENT METHOD, AND SUBSTANCE MANUFACTURING METHOD**
[54] **DISPOSITIF DE MESURE DE PROPRIETE MECANIQUE, PROCEDE DE MESURE DE PROPRIETE MECANIQUE, INSTALLATION DE FABRICATION DE MATERIAU, PROCEDE DE GESTION DE MATERIAU ET PROCEDE DE FABRICATION DE MATERIAU**
[72] MATSUI, YUTAKA, JP
[72] OZEKI, TAKAFUMI, JP
[72] TERADA, KAZUKI, JP
[72] ADACHI, KENJI, JP
[72] IMANAKA, HIROKI, JP
[72] IZUMI, DAICHI, JP
[72] SHIMAMURA, JUNJI, JP
[73] JFE STEEL CORPORATION, JP
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[86] 2021-06-14 (PCT/JP2021/022594)
[87] (WO2021/256443)
[30] JP (2020-103336) 2020-06-15

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[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/15 (2006.01) A61B 5/151 (2006.01) A61B 5/157 (2006.01)**
[25] EN
[54] **ANALYTE SENSOR DEVICES, CONNECTIONS, AND METHODS**
[54] **DISPOSITIFS DETECTEURS D'ANALYTES, CONNEXIONS, ET PROCEDES**
[72] PACE, LOUIS, US
[72] ROBINSON, PETER G., US
[72] HOSS, UDO, US
[72] CURRY, SAMUEL MASON, US
[72] CARTER, PHLLIP WILLIAM, US
[72] DIO-ALMA, VINCENT MICHAEL, US
[72] MHATRE, AMIT, US
[72] OLSON, JENNIFER, US
[72] DONNAY, MANUEL LUIS MIGUEL, US
[72] TAUB, MARC BARRY, US
[73] ABBOTT DIABETES CARE INC, US
[86] (3182961)
[87] (3182961)
[22] 2012-12-11
[62] 3,118,828
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[25] EN
[54] **REFRIGERATION SYSTEMS FOR RAPIDLY COOLING FOOD AND DRINKS**
[54] **SYSTEMES DE REFRIGERATION POUR REFROIDIR RAPIDEMENT DES ALIMENTS ET DES BOISSONS**
[72] FONTE, MATTHEW, US
[72] FICHERA, BENJAMIN, US
[73] COLDSNAP, CORP., US
[85] 2022-11-30
[86] 2021-06-01 (PCT/US2021/035260)
[87] (WO2021/247585)
[30] US (63/033,059) 2020-06-01

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[13] C
[51] **Int.Cl. G06F 13/00 (2006.01)**
[25] EN
[54] **TRI-COLOR BITMAP ARRAY FOR GARBAGE COLLECTION**
[54] **RESEAU DE TABLE DE BITS A TROIS COULEURS PERMETTANT LA RECUPERATION DE L'ESPACE MEMOIRE**
[72] HORIE, MICHIHIRO, JP
[72] OGATA, KAZUNORI, JP
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2023-01-11
[86] 2021-09-02 (PCT/IB2021/058008)
[87] (WO2022/053914)
[30] US (17/015,324) 2020-09-09

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[51] **Int.Cl. A61B 10/00 (2006.01)**
[25] EN
[54] **LIQUID COLLECTION DEVICE**
[54] **DISPOSITIF DE COLLECTE DE LIQUIDE**
[72] ROBBINS, AVI, US
[72] CARPIO, ROBERT III, US
[72] CHANG, YUAN, US
[72] FITZPATRICK, KATHLEEN, US
[72] MAHARSIA, RAHUL, US
[72] SHAHIDANI, SAMAN MAHDAVI, US
[72] SHELLY, HAYDEN, US
[72] STREIFF, MICAH, US
[73] POREX CORPORATION, US
[85] 2023-02-14
[86] 2021-08-27 (PCT/US2021/048010)
[87] (WO2022/047195)
[30] US (63/071,870) 2020-08-28
[30] US (63/089,409) 2020-10-08
[30] US (63/132,819) 2020-12-31

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[13] C
[51] **Int.Cl. C10L 1/04 (2006.01) C10G 2/00 (2006.01) C10L 1/08 (2006.01)**
[25] EN
[54] **DIESEL FUEL BLENDS WITH IMPROVED PERFORMANCE CHARACTERISTICS**
[54] **MELANGES DE CARBURANTS DIESEL A CARACTERISTIQUES DE RENDEMENT AMELIOREES**
[72] SCHUETZLE, ROBERT, US
[72] SCHUETZLE, DENNIS, US
[73] PLATINUM FUELS, LLC, US
[86] (3190262)
[87] (3190262)
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[62] 3,125,720
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[25] EN
[54] **LOW-ENERGY-CONSUMPTION GRADING AND POSITIONING METHOD FOR COAL MINE AUXILIARY TRANSPORTATION VEHICLE AND SYSTEM THEREOF**
[54] **METHODE DE CLASSEMENT ET DE POSITIONNEMENT ECOENERGETIQUE POUR UN VEHICULE DE TRANSPORT AUXILIAIRE DE MINE DE CHARBON ET SYSTEME CONNEXE**
[72] JIANG, FAN, CN
[72] ZHU, ZHENCAI, CN
[72] HUANG, XINGTAO, CN
[72] ZHOU, GONGBO, CN
[72] LIU, NIANSHENG, CN
[72] WANG, LIBING, CN
[72] ZHANG, CHUANSHENG, CN
[72] GUO, JUNFENG, CN
[72] SHEN, GANG, CN
[72] CHENG, SHUMAN, CN
[72] MA, JINLEI, CN
[72] ZHANG, CHAOFAN, CN
[72] YI, WENWEN, CN
[73] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN
[73] XUZHOU KERUI MINING TECHNOLOGY CO., LTD., CN
[85] 2023-03-17
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[87] (3193304)
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[54] **FLUSH FRONT LANDSCAPE EDGING SYSTEM**
[54] **SYSTEME DE BORDURE PAYSAGERE A FRONT AFFLEURANT**
[72] MERANI, MARK CHRISTOPHER, US
[72] ORGERON, KEITH J., US
[72] KASYANENKO, VALERIY, US
[72] ALLEN, ROBERT GLEN, US
[73] COLMET LLC, US
[85] 2023-03-27
[86] 2021-09-24 (PCT/US2021/052096)
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[25] EN
[54] **ELECTRIC FIREPLACE WITH HEAT RADIATING, FAUX MATERIALS**
[54] **FOYER ELECTRIQUE AVEC MATERIAU SYNTHETIQUE A RAYONNEMENT THERMIQUE**
[72] WARDROP, WALTER, CA
[73] HYBRID ENERGIES ALTERNATIVE TECHNOLOGIES INC., CA
[86] (3198612)
[87] (3198612)
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[54] **MODULAR STACKABLE WEAR-RESISTANT PANEL SYSTEM**
[54] **SYSTEME DE PANNEAU EMPILABLE RESISTANT A L'USURE MODULAIRE**
[72] BARIC, ZDENKO (DANNY), AU
[73] FLSMIDTH A/S, DK
[85] 2023-04-14
[86] 2021-10-14 (PCT/IB2021/059444)
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[25] EN
[54] **RING-MODIFIED PROLINE SHORT PEPTIDE COMPOUND AND USE THEREOF**
[54] **COMPOSE DE PEPTIDE COURT DE PROLINE A CYCLE MODIFIE ET SON UTILISATION**
[72] CHEN, SHUHUI, CN
[72] YANG, YAXUN, CN
[72] ZHANG, JIANCHEN, CN
[72] LI, PENG, CN
[72] HE, HAIYING, CN
[72] WANG, ZHENG, CN
[72] LI, JIAN, CN
[73] FUJIAN AKEYLINK BIOTECHNOLOGY CO., LTD., CN
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[25] EN
[54] **AUDIO DECODING WITH SELECTIVE POST FILTERING**
[54] **DECODAGE AUDIO AVEC POST-FILTRAGE SELECTIF**
[72] RESCH, BARBARA, SE
[72] KJORLING, KRISTOFER, SE
[72] VILLEMOES, LARS, SE
[73] DOLBY INTERNATIONAL AB, IE
[86] (3207181)
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[25] EN
[54] **AUTONOMOUS VEHICLE COMPUTING SYSTEM WITH PROCESSING ASSURANCE**
[54] **SYSTEME INFORMATIQUE DE VEHICULE AUTONOME AVEC ASSURANCE DE TRAITEMENT**
[72] HYDE, SEAN, US
[72] MOLINARI, JOSE FRANCISCO, US
[72] THOMAS, STEPHEN LUKE, US
[73] AURORA OPERATIONS, INC., US
[86] (3207403)
[87] (3207403)
[22] 2021-02-26
[62] 3,174,273
[30] US (63/002,675) 2020-03-31
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[25] EN
[54] **SYSTEM AND METHOD FOR SYRINGE FLUID FILL VERIFICATION AND IMAGE RECOGNITION OF POWER INJECTOR SYSTEM FEATURES**
[54] **SYSTEME ET PROCEDE POUR LA VERIFICATION DU REMPLISSAGE PAR UN FLUIDE D'UNE SERINGUE ET DE RECONNAISSANCE D'IMAGE DE CARACTERISTIQUES D'UN SYSTEME D'INJECTEUR DE PUISSANCE**
[72] COWAN, KEVIN P., US
[72] SPOHN, MICHAEL A., US
[72] MCDERMOTT, MICHAEL, US
[72] GRUBIC, HERBERT M., US
[73] BAYER HEALTHCARE LLC, US
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[25] EN
[54] **MODULE FOR USE IN PREPARING A PREFABRICATED STRUCTURE, METHOD FOR MANUFACTURING SAME AND TRANSPORT FRAME**
[54] **MODULE DESTINE A ETRE UTILISE DANS LA PREPARATION D'UNE STRUCTURE PREFABRIQUEE, SON PROCEDE DE FABRICATION ET CADRE DE TRANSPORT**
[72] SEARLES, DARRELL ALBERT, CA
[72] BRADFIELD, JEFFREY RAE NEWELL, CA
[73] LODESTAR STRUCTURES INC., CA
[85] 2023-08-11
[86] 2022-02-10 (PCT/CA2022/050192)
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[25] EN
[54] **CONNECTABLE CONTACT LENS PACKAGES FOR RECYCLING**
[54] **EMBALLAGES DE LENTILLES DE CONTACT POUVANT ETRE RACCORDES POUR RECYCLAGE**
[72] RIVERA VELEZ, JESUS JAVIER, US
[72] ALAYON RIVERA, JAVIER E., US
[72] BURGOS CRUZ, JOSE A., US
[72] SIEVENS FIGUEROA, LUCAS, US
[73] COOPERVISION INTERNATIONAL LIMITED, GB
[85] 2023-08-15
[86] 2022-07-20 (PCT/GB2022/051871)
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[25] EN
[54] **MULTI-ACTOR TRANSACTION SIMULATION IN A BLOCKCHAIN NETWORK**
[54] **SIMULATION DE TRANSACTIONS A ACTEURS MULTIPLES DANS UN RESEAU SUR LA CHAINE DE BLOCS**
[72] ABOU DAYA, ABBAS, CA
[73] GEARLAY TECHNOLOGIES INC., CA
[86] (3211773)
[87] (3211773)
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[13] C
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[25] EN
[54] **DRUG DELIVERY DEVICE**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**
[72] BUCHI, ADRIAN, CH
[72] PERRIER, ALEXANDRE, CH
[72] HUBER, CHRISTIAN, CH
[73] SENSILE MEDICAL AG, CH
[85] 2023-09-12
[86] 2022-03-08 (PCT/EP2022/055833)
[87] (WO2022/194610)
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[25] EN
[54] **MULTIPATH SUPPRESSION DEVICE AND MULTIPATH SUPPRESSION METHOD**
[54] **DISPOSITIF DE SUPPRESSION DE CHEMINS MULTIPLES ET PROCEDE DE SUPPRESSION DE CHEMINS MULTIPLES**
[72] TERADA, TSUBASA, JP
[72] TAKAHASHI, YOSHIKI, JP
[72] TAKAHASHI, RYUHEI, JP
[73] MITSUBISHI ELECTRIC CORPORATION, JP
[85] 2023-11-01
[86] 2021-07-02 (PCT/JP2021/025110)
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[11] **3,219,050**
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[51] **Int.Cl. C12M 1/12 (2006.01) C12N 5/07 (2010.01) C12M 1/00 (2006.01) C12M 1/34 (2006.01)**
[25] EN
[54] **FILTER CAKE-BASED SYSTEMS AND METHODS FOR THE CULTIVATION OF CELLS AND CELL BIOMASS**
[54] **SYSTEMES ET PROCEDES FONDES SUR LES GATEAUX DE FILTRATION POUR LA CULTURE CELLULAIRE ET DE BIOMASSE CELLULAIRE**
[72] MUELLER-AUFFERMANN, KONRAD, US
[73] UPSIDE FOODS, INC., US
[85] 2023-11-02
[86] 2022-03-29 (PCT/US2022/071418)
[87] (WO2023/049537)
[30] US (17/481,176) 2021-09-21

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[25] EN
[54] **RECOVERY OF NICKEL AND COBALT FROM LI-ION BATTERIES OR THEIR WASTE**
[54] **RECUPERATION DE NICKEL ET DE COBALT A PARTIR DE BATTERIES LI-ION OU DE LEURS DECHETS**
[72] YAGI, RYOHEI, BE
[72] SCHEUNIS, LENNART, BE
[73] UMICORE, BE
[85] 2023-11-10
[86] 2022-05-13 (PCT/EP2022/063010)
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[51] **Int.Cl. G10L 19/022 (2013.01)**
[25] EN
[54] **CROSS PRODUCT ENHANCED SUBBAND BLOCK BASED HARMONIC TRANSPOSITION**
[54] **TRANSPOSITION HARMONIQUE A BASE DE BLOC DE SOUS-BANDE A PRODUIT D'INTERMODULATION AMELIORE**
[72] VILLEMOES, LARS, SE
[73] DOLBY INTERNATIONAL AB, IE
[86] (3220202)
[87] (3220202)
[22] 2011-09-05
[62] 3,191,597
[30] US (61/383441) 2010-09-16
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[51] **Int.Cl. F16G 11/12 (2006.01)**
[25] EN
[54] **SELF-LOCKING CABLE SECURING DEVICE WITH CARTRIDGE AND LOCKING ELEMENT**
[54] **DISPOSITIF DE FIXATION DE CABLE AUTOBLOQUANT AVEC CARTOUCHE ET ELEMENT BLOQUANT**
[72] DIAS, LIBARDO OCHOA, US
[72] BOUCHARD, HERBERT J., US
[72] CROMPTON, DAVID B., US
[73] QUICK FITTING HOLDING COMPANY, LLC, US
[85] 2023-12-18
[86] 2022-07-07 (PCT/US2022/036330)
[87] (WO2023/283318)
[30] US (17/371,268) 2021-07-09

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[25] EN
[54] **E-CIGARETTE AND AUTHENTICATION SYSTEM AND AUTHENTICATION METHOD FOR E-CIGARETTE**
[54] **CIGARETTE ELECTRONIQUE ET SYSTEME D'AUTHENTIFICATION ET PROCEDE D'AUTHENTIFICATION DE LA CIGARETTE ELECTRONIQUE**
[72] GUO, XINGCHEN, US
[72] FU, YONG, CN
[73] RED CORAL IP HOLDING COMPANY, INC., US
[85] 2023-12-12
[86] 2021-06-14 (PCT/US2021/037289)
[87] (WO2022/265622)

[11] **3,225,026**
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[25] EN
[54] **METHOD AND SYSTEM FOR SIDELOBE SUPPRESSION IN PHASE ENCODED DOPPLER LIDAR**
[54] **PROCEDE ET SYSTEME DE SUPPRESSION DE LOBE LATERAL DANS UN LIDAR A EFFET DOPPLER CODE EN PHASE**
[72] BARBER, ZEB WILLIAM, US
[72] CROUCH, STEPHEN C., US
[72] KADLEC, EMIL A., US
[73] AURORA OPERATIONS, INC., US
[86] (3225026)
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[22] 2020-07-14
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[51] **Int.Cl. A61K 9/00 (2006.01) A61K 47/58 (2017.01) A61K 9/70 (2006.01) A61K 47/10 (2017.01) A61M 37/00 (2006.01)**
[25] EN
[54] **MICRONEEDLE PATCH**
[54] **TIMBRE A MICRO-AIGUILLES**
[72] KUWAHARA, TETSUJI, JP
[72] TSURUSHIMA, KEIICHIRO, JP
[72] ONO, MASAFUMI, JP
[72] WAKAMATSU, MASATO, JP
[72] TATEISHI, TETSURO, JP
[73] HISAMITSU PHARMACEUTICAL CO., INC., JP
[85] 2023-12-28
[86] 2022-08-19 (PCT/JP2022/031373)
[87] (WO2023/022228)
[30] JP (2021-133878) 2021-08-19

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[51] **Int.Cl. G01L 19/06 (2006.01) G01D 21/02 (2006.01) G01F 1/34 (2006.01) G01F 15/00 (2006.01) G01K 13/02 (2021.01) G01L 19/00 (2006.01) G01L 19/08 (2006.01) G05D 7/06 (2006.01)**
[25] EN
[54] **APPARATUS FOR MEASURING THE PRESSURE AND FLOW RATE OF A HIGH TEMPERATURE CORROSIVE LIQUID**
[54] **APPAREIL POUR MESURER LA PRESSION ET LE DEBIT D'UN LIQUIDE CORROSIF A HAUTE TEMPERATURE**
[72] PARISH, PAUL JEFFREY, US
[72] NELSON, MICHAEL P., US
[73] FLOWSERVE PTE. LTD., SG
[85] 2024-03-25
[86] 2022-09-13 (PCT/US2022/043345)
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Canadian Applications Open to Public Inspection

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[51] **Int.Cl. B60C 11/02 (2006.01)**
[25] EN
[54] **EASILY ATTACHABLE AND DETACHABLE TREAD BELT AND TIRE**
[54] **BANDE DE ROULEMENT ET PNEU FACILEMENT ATTACHES ET DETACHABLES**
[72] PATEL, NACHIKET KAMLESHKUMAR, CA
[71] PATEL, NACHIKET KAMLESHKUMAR, CA
[22] 2022-12-16
[41] 2024-06-16

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[13] A1
[51] **Int.Cl. E21B 3/02 (2006.01)**
[25] EN
[54] **DRIVE ASSEMBLY FOR A WELL SITE**
[54] **MECANISME D'ENTRAINEMENT POUR UN SITE DE PUITS**
[72] HULT, VERN, CA
[72] GAGNON, BENJAMIN, CA
[72] STOESSER, EMERY, CA
[72] LUMORI, BERNARD, CA
[71] EVOLUTION OIL TOOLS INC., CA
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[51] **Int.Cl. A01G 25/02 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR IRRIGATION USING TWO SEQUENTIAL NOZZLES AT DIFFERENT RATES FOR REDUCED WATER VOLUME**
[54] **APPAREIL ET METHODE D~IRRIGATION UTILISANT DEUX BUSES SEQUENTIELLES A DIFFERENTS DEBITS POUR UN VOLUME D'EAU REDUIT**
[72] WALDNER, MATTHEW, CA
[71] CASCADE MANUFACTURING LTD., CA
[22] 2022-12-19
[41] 2024-06-19

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[51] **Int.Cl. B43L 7/02 (2006.01)**
[25] EN
[54] **RUBBER GRIP T-SQUARE**
[54] **TE AVEC POIGNEE EN CAOUTCHOUC**
[72] BARNBROOK, RHYCE, CA
[71] BARNBROOK, RHYCE, CA
[22] 2022-12-20
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[13] A1
[51] **Int.Cl. A47B 25/00 (2006.01) A47B 1/00 (2006.01) A47B 3/00 (2006.01) A47B 3/10 (2006.01)**
[25] EN
[54] **MOTHERBOARD CONVERTIBLE SELF-ASSISTED MODULAR TABLETOP BOARD GAME GAMESPACE EXPANDABLE, COLLAPSIBLE, STORABLE, TRANSPORTABLE GAME TABLE" HEREIN REFERRED TO AS MOTHERBOARD, GAME TABLE, AND OR THE MECHANISM**
[54] **TABLE DE JEU POUVANT ETRE DEPLOYEE, REPLIEE, RANGEE ET TRANSPORTEE POUR UN ESPACE DE JEU DE TABLE MODULAIRE AUTONOME ET CONVERTIBLE, APPELEE CI-APRES MOTHERBOARD, TABLE DE JEU OU LE MECANISME**
[72] FACEY, GAYTON, CA
[71] FACEY, GAYTON, CA
[22] 2022-12-20
[41] 2024-06-20

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[51] **Int.Cl. B24C 7/00 (2006.01) B24C 5/00 (2006.01)**
[25] EN
[54] **WET AND DRY ABRASIVE MEDIA BLASTING SYSTEM**
[54] **SYSTEME DE SABLAGE AUX ABRASIFS MOUILLES ET SECS**
[72] MCINTYRE, JOHN WALTER, CA
[71] 2623223 ONTARIO INC., CA
[22] 2022-12-21
[41] 2024-06-21

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[13] A1
[51] **Int.Cl. A47J 43/18 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR A RACK FOR COOKING AND SUPPORTING MEAT**
[54] **DISPOSITIFS ET METHODES POUR UN RATELIER DE CUISSON ET DE SUPPORT DE VIANDE**
[72] LUND, BRENT ALEXANDER, CA
[71] LUND, BRENT ALEXANDER, CA
[22] 2022-12-21
[41] 2024-06-21
[30] US (18/069,516) 2022-12-21

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[13] A1
[51] **Int.Cl. C08B 15/08 (2006.01) C08J 3/12 (2006.01) C08J 11/10 (2006.01)**
[25] EN
[54] **PROCESS FOR MANUFACTURING OF NANOCRYSTALLINE CELLULOSE (NCC)**
[54] **PROCEDE DE FABRICATION D~UNE CELLULOSE NANOCRISTALLINE**
[72] ADBELFATAH, ELSAYED, CA
[72] ENRIQUEZ, ALEJANDRA, CA
[72] WEISSENBERGER, MARKUS, CA
[71] SIXRING INC., CA
[22] 2022-12-22
[41] 2024-06-22

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[13] A1
[51] **Int.Cl. G09B 5/00 (2006.01) G16H 20/70 (2018.01) G16Z 99/00 (2019.01)**
[25] EN
[54] **SOFTWARE APPLICATION FACILITATING A METHOD OF SELF-DEVELOPMENT**
[54] **APPLICATION LOGICIELLE FACILITANT UNE METHODE DE PERFECTIONNEMENT PERSONNEL**
[72] SHEWFELT, TANYA, CA
[71] SHEWFELT, TANYA, CA
[22] 2022-12-22
[41] 2024-06-21
[30] US (18/069,493) 2022-12-21

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[13] A1
[51] **Int.Cl. C08J 11/10 (2006.01) C08H 8/00 (2010.01) C12P 7/10 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN BIOMASS DELIGNIFICATION**
[54] **AMELIORATIONS A LA DELIGNIFICATION DE BIOMASSE**
[72] WYNNYK, KYLE G., CA
[72] WEISSENBERGER, MARKUS, CA
[71] SIXRING INC., CA
[22] 2022-12-22
[41] 2024-06-22

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[13] A1
[51] **Int.Cl. A61F 13/38 (2006.01) A61F 13/40 (2006.01)**
[25] EN
[54] **HYGIENE DEVICE AND METHODS OF USE**
[54] **DISPOSITIF HYGIENIQUE ET METHODES D~UTILISATION**
[72] MOSS, STEVEN MARK, CA
[71] MOSS, STEVEN MARK, CA
[22] 2022-12-22
[41] 2024-06-22

[21] **3,184,793**
[13] A1
[51] **Int.Cl. B65D 81/18 (2006.01) A61B 50/30 (2016.01) A61M 5/00 (2006.01) B65D 81/05 (2006.01) B65D 85/20 (2006.01)**
[25] FR
[54] **DEVICE FOR TEMPERATURE-CONTROLLED TRANSPORTATION OF SYRINGES**
[54] **DISPOSITIF DE TRANSPORT DE SERINGUES AVEC ENVIRONMENT A TEMPERATURE CONTROLEE**
[72] LALANDE, ERIC, CA
[71] LALANDE, ERIC, CA
[22] 2022-12-22
[41] 2024-06-22

[21] **3,185,492**
[13] A1
[51] **Int.Cl. F15C 3/02 (2006.01)**
[25] EN
[54] **HYDRAULIC PRESSURE CONTROL VALVE WITH PNEUMATIC ACTUATION**
[54] **SOUPAPE REGULATRICE DE PRESSION HYDRAULIQUE A ACTIONNEMENT PNEUMATIQUE**
[72] HEESE, MARVIN, DE
[72] DE WAARD, FRANKLIN, CA
[72] DE WAARD, BOYD, CA
[72] KISSNER, MATTHIAS, DE
[72] HANH, HARALD, DE
[71] ROBERT BOSCH GMBH, DE
[22] 2022-12-20
[41] 2024-06-20

[21] **3,185,559**
[13] A1
[51] **Int.Cl. F17C 13/04 (2006.01) F16K 17/04 (2006.01)**
[25] EN
[54] **VALVE ASSEMBLY FOR GAS VESSEL**
[54] **ASSEMBLAGE DE SOUPAPE POUR UN RECIPIENT A GAZ**
[72] LEE, KWANG HO, KR
[71] YOUNGDO IND. CO., LTD., KR
[22] 2022-12-21
[41] 2024-06-21

[21] **3,185,783**
[13] A1
[51] **Int.Cl. F04B 53/10 (2006.01) F04B 9/08 (2006.01)**
[25] EN
[54] **COMPRESSER FOR PUMPING FLUID HAVING CHECK VALVES ALIGNED WITH FLUID PORTS**
[54] **COMPRESSEUR POUR LE POMPAGE DE FLUIDE COMPRENANT DES CLAPETS DE NON-RETOUR ALIGNES SUR DES ORIFICES DE PASSAGE DE FLUIDE**
[72] MCCARTHY, DAN, CA
[71] I-JACK TECHNOLOGIES INCORPORATED, CA
[22] 2022-12-22
[41] 2024-06-22

[21] **3,185,785**
[13] A1
[51] **Int.Cl. B27M 1/02 (2006.01) B27N 7/00 (2006.01)**
[25] EN
[54] **EMBOSSED WOOD PRODUCTS**
[54] **PRODUITS DE BOIS ESTAMPE**
[72] WANG, JACK, CN
[72] BOURSIER, THOMAS, CA
[71] CANWEL BUILDING MATERIALS LTD., CA
[22] 2022-12-22
[41] 2024-06-20
[30] US (18/068/664) 2022-12-20

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[21] **3,186,183**
[13] A1
[51] **Int.Cl. A41F 1/00 (2006.01) A41D 27/00 (2006.01) A41F 17/00 (2006.01) A44B 6/00 (2006.01) B65D 33/28 (2006.01) B29C 45/00 (2006.01)**
[25] EN
[54] **DRAWSTRING CLASP WITH ENCLOSED CLUTCH**
[54] **FERMETURE A CORDON COMPRENANT UN EMBRAYAGE**
[72] KING, LAUNI, US
[71] CREATIVE PLAY, LLC, US
[22] 2022-12-19
[41] 2024-06-19

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[21] **3,186,209**
[13] A1
[51] **Int.Cl. F01C 1/00 (2006.01) F01B 23/10 (2006.01) F01B 29/08 (2006.01)**
[25] FR
[54] **RELATIVE RECTILINEAR IMPULSE MOTORS**
[54] **MACHINES MOTRICES EN IMPULSIONS A RECTILIGNE RELATIVE**
[72] BEAUDOIN, NORMAND, CA
[71] BEAUDOIN, NORMAND, CA
[22] 2022-12-20
[41] 2024-06-20

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[21] **3,188,322**
[13] A1
[51] **Int.Cl. B60P 1/04 (2006.01) B60P 1/28 (2006.01) B62D 33/03 (2006.01)**
[25] EN
[54] **DUMP TRUCK**
[54] **CAMION A BENNE**
[72] LIU, ZHIJUN, CN
[71] QINGDAO HUATIAN HAND TRUCK CO., LTD., CN
[22] 2023-02-02
[41] 2024-06-20
[30] CN (202211642270.3) 2022-12-20

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[21] **3,190,118**
[13] A1
[51] **Int.Cl. A61K 8/9783 (2017.01) A61K 8/60 (2006.01) A61Q 19/00 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **METHOD AND COMPOSITION FOR IMPROVING THE APPEARANCE OF SKIN**
[54] **METHODE ET COMPOSITION POUR AMELIORER L~APPARENCE DE LA PEAU**
[72] FANG DEYER, BIN, US
[72] HAKOZAKI, TOMOHIRO, US
[71] THE PROCTER & GAMBLE COMPANY, US
[22] 2023-02-16
[41] 2024-06-17

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[21] **3,195,092**
[13] A1
[51] **Int.Cl. H04L 9/32 (2006.01) H04W 12/69 (2021.01) H04L 41/28 (2022.01) H04L 67/125 (2022.01)**
[25] EN
[54] **ENHANCED SECURITY OF PROCESS CONTROL INSTRUMENTS**
[54] **SECURITE AMELIOREE DES INSTRUMENTS DE CONTROLE DE PROCEDE**
[72] MALAYANUR, PAVANKUMAR, IN
[72] BEADLE, STEPHEN RICHARD OWEN, GB
[72] RITCHIE, BRIANE, US
[72] DRIAS, ZAKARYA, US
[71] SCHNEIDER ELECTRIC SYSTEMS USA, INC., US
[22] 2023-04-04
[41] 2024-06-22
[30] IN (202211074558) 2022-12-22

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[21] **3,195,953**
[13] A1
[51] **Int.Cl. B65C 9/00 (2006.01) B65C 1/02 (2006.01)**
[25] EN
[54] **DEVICE FOR APPLYING A LABEL TO A PRODUCT**
[54] **DISPOSITIF POUR APPLIQUER UNE ETIQUETTE SUR UN PRODUIT**
[72] VAN TASSEL, PAUL WAYNE, CA
[71] PRECISION DYNAMIC FABRICATION LTD., CA
[22] 2023-04-13
[41] 2024-06-20
[30] US (63/433,912) 2022-12-20

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[21] **3,198,213**
[13] A1
[51] **Int.Cl. B25C 1/00 (2006.01)**
[25] EN
[54] **NAIL GUN WITH HIDDEN NAIL HEAD STRUCTURE**
[54] **CLOUEUSE COMPRENANT UNE STRUCTURE DE TETE DE CLOU CACHEE**
[72] ZHENXING, YIN, CN
[72] WEI, JUNPENG, CN
[72] CHEN, ZHENHUI, CN
[72] LI, XIAORONG, CN
[72] YANG, FAZHENG, CN
[71] ZHEJIANG RONGPENG AIR TOOLS CO., LTD., CN
[22] 2023-04-28
[41] 2024-06-21
[30] CN (202223426736.4) 2022-12-21

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[21] **3,200,010**
[13] A1
[51] **Int.Cl. E04D 13/18 (2018.01) H02S 20/23 (2014.01) E04D 1/30 (2006.01) E04D 1/34 (2006.01)**
[25] EN
[54] **BASE OF TRESTLE, TRESTLE PROVIDED WITH BASE, AND MANUFACTURING METHOD FOR BASE OF TRESTLE**
[54] **BASE DE TRETEAU, TRETEAU COMPRENANT LA BASE ET METHODE DE FABRICATION DE LA BASE DE TRETEAU**
[72] KOBAYASHI, SHUICHI, US
[71] SUNSTACK, LLC, US
[71] ROOF AND SOLAR TECHNOLOGIES INC. DBA INTEGRITY SOLAR MOUNTS, US
[22] 2023-05-23
[41] 2024-06-16
[30] JP (JP2022-201037) 2022-12-16

[21] **3,207,334**
[13] A1
[51] **Int.Cl. B62B 5/08 (2006.01) B62B 3/14 (2006.01) B62B 7/04 (2006.01) B62B 9/28 (2006.01)**
[25] EN
[54] **MULTI FUNCTION, MULTIPLE CHILD NESTING SHOPPING CART EXTENSION AND METHOD OF USE**
[54] **RALLONGE DE CHARIOT POLYVALENT POUR DE MULTIPLES ENFANTS ET METHODE D~UTILISATION**
[72] MCINTOSH, JEANINE, CA
[71] MCINTOSH, JEANINE, CA
[22] 2023-07-21
[41] 2024-06-19
[30] US (18/084,037) 2022-12-19

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[21] **3,207,465**
[13] A1
[51] **Int.Cl. C09D 183/00 (2006.01) C09D 7/20 (2018.01) C09D 7/61 (2018.01) C09D 5/08 (2006.01) C21D 7/13 (2006.01)**
[25] EN
[54] **STEEL PROTECTIVE COATING COMPOSITIONS, METHODS OF THEIR MANUFACTURE, AND METHODS OF THEIR USE**
[54] **COMPOSITIONS DE REVETEMENT PROTECTEUR POUR ACIER, METHODES DE FABRICATION ET METHODES D~UTILISATION**
[72] WINTERS, JONATHAN KERRY, US
[71] THOR CUSTOM STEEL COATINGS LLC, US
[22] 2023-07-24
[41] 2024-06-19
[30] US (18/084,533) 2022-12-19

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[21] **3,209,668**
[13] A1
[51] **Int.Cl. F17C 1/12 (2006.01) F17C 1/14 (2006.01) F17C 5/00 (2006.01) F17C 13/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BACKHAUL TRANSPORTATION OF LIQUEFIED GAS AND CO2 USING LIQUEFIED GAS CARRIERS**
[54] **SYSTEMES ET METHODES POUR LE TRANSPORT DE RETOUR DE GAZ LIQUEFIE ET DE CO2 AU MOYEN DE TRANSPORTEURS DE GAZ LIQUEFIE**
[72] THOBE, ZACHARY D., US
[71] MARATHON PETROLEUM COMPANY LP, US
[22] 2023-08-18
[41] 2024-06-16
[30] US (18/082.656) 2022-12-16
[30] US (18/093.741) 2023-01-05
[30] US (18/093.747) 2023-01-05
[30] US (18/093.756) 2023-01-05
[30] US (18/207.722) 2023-06-09
[30] US (18/217.270) 2023-06-30
[30] US (18/227.472) 2023-07-28
[30] US (18/234.800) 2023-08-16

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[21] **3,209,967**
[13] A1
[51] **Int.Cl. E04D 13/17 (2006.01)**
[25] EN
[54] **BUILDING RIDGE VENT SYSTEM**
[54] **SYSTEME D~EVENT DE FAITAGE DE BATIMENT**
[72] THOMPSON, LEON W., US
[72] THOMPSON, JACOB M., US
[71] AMERICAN FLASHINGS AND ACCESSORIES, LLC, US
[22] 2023-08-23
[41] 2024-06-21
[30] US (18/086,113) 2022-12-21

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[21] **3,209,970**
[13] A1
[51] **Int.Cl. E04D 13/17 (2006.01) B01D 46/54 (2006.01) F24F 7/02 (2006.01) F24F 13/28 (2006.01)**
[25] EN
[54] **BUILDING RIDGE VENT SYSTEM**
[54] **SYSTEME D~EVENT DE FAITAGE DE BATIMENT**
[72] THOMPSON, LEON W., US
[72] THOMPSON, JACOB M., US
[71] AMERICAN FLASHINGS AND ACCESSORIES, LLC, US
[22] 2023-08-23
[41] 2024-06-21
[30] US (18/086,129) 2022-12-21

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[21] **3,210,416**
[13] A1
[51] **Int.Cl. F21V 21/096 (2006.01) F21S 4/20 (2016.01) F21S 8/00 (2006.01) F21V 21/00 (2006.01)**
[25] EN
[54] **MODULAR BAR LIGHT ASSEMBLY**
[54] **ASSEMBLAGE DE BARRE LUMINEUSE MODULAIRE**
[72] JACOBS, JUSTIN, US
[72] PLANER, MICHAEL, US
[72] NAPOLI, MATTHEW, US
[71] SOLTEC SOLUTIONS, LLC, US
[22] 2023-08-29
[41] 2024-06-16
[30] US (18/082,675) 2022-12-16

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[21] **3,214,451**
[13] A1
[51] **Int.Cl. H02J 3/38 (2006.01) G06Q 50/06 (2012.01) H02S 10/00 (2014.01) H02S 50/00 (2014.01) H02J 3/00 (2006.01) H02J 13/00 (2006.01)**
[25] EN
[54] **ELECTRIC GRID LOAD FORECASTS WITH DISTRIBUTED PHOTOVOLTAIC GENERATION**
[54] **PREVISIONS DE CHARGE DE RESEAU ELECTRIQUE A GENERATION PHOTOVOLTAIQUE DISTRIBUEE**
[72] MONFORTE, FRANK ANTHONY, US
[71] ITRON, INC., US
[22] 2023-09-28
[41] 2024-06-22
[30] US (18/087,719) 2022-12-22

[21] **3,214,524**
[13] A1
[51] **Int.Cl. F16H 49/00 (2006.01) F16H 1/28 (2006.01)**
[25] EN
[54] **STRAIN WAVE GEARING SYSTEM**
[54] **SYSTEME D~ENGRENAGE A ONDES DE DEFORMATION**
[72] WHITFIELD, NEIL STUART RUSSELL, GB
[72] TIMMS, JACK WILLIAM, GB
[71] GOODRICH ACTUATION SYSTEMS LIMITED, GB
[22] 2023-09-27
[41] 2024-06-16
[30] EP (22214382.8) 2022-12-16

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[21] **3,216,554**
[13] A1
[51] **Int.Cl. G08G 5/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING RUNWAY ALERTS TO AIRCRAFT**
[54] **SYSTEMES ET METHODES POUR FOURNIR DES ALERTES DE PISTE A UN AERONEF**
[72] PYTEL, KRZYSZTOF, US
[72] KUC, DARIUSZ, US
[71] THE BOEING COMPANY, US
[22] 2023-10-12
[41] 2024-06-16
[30] US (18/067174) 2022-12-16

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[21] **3,216,578**
[13] A1
[51] **Int.Cl. A47H 1/10 (2006.01) A47H 1/14 (2006.01)**
[25] EN
[54] **EXTERNAL PUNCHING-FREE MOUNTING MECHANISM FOR CURTAIN**
[54] **MECANISME DE MONTAGE SANS PERFORATION EXTERNE POUR UN RIDEAU**
[72] TAN, BAOGUO, CN
[72] WEI, JIANHONG, CN
[72] DING, YI, CN
[71] NINGBO LIYANG NEW MATERIAL COMPANY LIMITED, CN
[22] 2023-10-16
[41] 2024-06-22
[30] CN (202223453419.1) 2022-12-22

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[21] **3,216,659**
[13] A1
[51] **Int.Cl. G06T 19/00 (2011.01) G06T 19/20 (2011.01)**
[25] EN
[54] **COMPACT AUGMENTED REALITY VIEW EXPERIENCE**
[54] **EXPERIENCE DE VUE COMPACTE EN REALITE AUGMENTEE**
[72] MCGAHAN, DEANE, US
[71] LOWE'S COMPANIES, INC., US
[22] 2023-10-16
[41] 2024-06-16
[30] US (18/082,952) 2022-12-16

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[21] **3,216,831**
[13] A1
[51] **Int.Cl. B25H 3/04 (2006.01) A47B 55/00 (2006.01)**
[25] EN
[54] **LOCKING SCREWDRIVER HOLDER**
[54] **SUPPORT A TOURNEVIS VERROUILLABLE**
[72] PANOSIAN, MICHAEL H., US
[72] KEELER, JOSHUA M., US
[71] PANOSIAN, MICHAEL H., US
[71] KEELER, JOSHUA M., US
[22] 2023-10-17
[41] 2024-06-18
[30] US (18/083,525) 2022-12-18

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[21] **3,218,599**
[13] A1
[51] **Int.Cl. H05B 47/00 (2020.01) G05B 19/00 (2006.01)**
[25] EN
[54] **WALL-MOUNTED CONTROLLER WITH ANTI-TAMPER FEATURE**
[54] **CONTROLEUR MURAL COMPRENANT UNE CARACTERISTIQUE ANTI-ALTERATION**
[72] WESTRICK, RICHARD L., US
[72] JOHNSON, JOHN R., US
[72] D'CRUZ, DYLAN A., US
[71] ABL IP HOLDING LLC, US
[22] 2023-11-02
[41] 2024-06-21
[30] US (18/085,890) 2022-12-21

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[21] **3,218,705**
[13] A1
[51] **Int.Cl. B64C 13/34 (2006.01) B64C 5/00 (2006.01) F16H 25/24 (2006.01)**
[25] EN
[54] **TRIMMABLE HORIZONTAL STABILISATION ACTUATOR**
[54] **ACTIONNEUR DE STABILISATION HORIZONTALE AJUSTABLE**
[72] ABDUL-BARI, ANH-VU, FR
[72] SERRAND, MAXIME JULIEN FLORENT, FR
[71] GOODRICH ACTUATION SYSTEMS SAS, FR
[22] 2023-11-02
[41] 2024-06-16
[30] EP (22306906.3) 2022-12-16

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[21] **3,218,958**
[13] A1
[51] **Int.Cl. F03D 1/00 (2006.01) F03D 80/40 (2016.01) F03D 7/02 (2006.01)**
[25] EN
[54] **A METHOD OF OPERATING AN ELECTRICAL HEATING ELEMENT**
[54] **METHODE D~EXPLOITATION D~UN ELEMENT CHAUFFANT ELECTRIQUE**
[72] SACHSE, KONRAD, DE
[71] NORDEX ENERGY SE & CO. KG, DE
[22] 2023-11-06
[41] 2024-06-16
[30] EP (22 214 184.8) 2022-12-16

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[21] **3,219,564**
[13] A1
[51] **Int.Cl. A24F 40/48 (2020.01) A24F 40/10 (2020.01) A24F 40/42 (2020.01) A24F 40/485 (2020.01)**
[25] EN
[54] **CERAMIC VAPE ASSEMBLY**
[54] **ASSEMBLAGE DE VAPOTAGE EN CERAMIQUE**
[72] LI, SAN, US
[72] SCATTERDAY, MARK A., US
[71] JUPITER RESEARCH, LLC, US
[22] 2023-11-10
[41] 2024-06-16
[30] US (18067273) 2022-12-16

[21] **3,220,111**
[13] A1
[51] **Int.Cl. A61K 31/7048 (2006.01) A61K 8/42 (2006.01) A61K 8/60 (2006.01) A61K 31/194 (2006.01) A61P 17/14 (2006.01) A61Q 7/00 (2006.01) A61K 8/9794 (2017.01) A61K 36/88 (2006.01)**
[25] EN
[54] **HAIR CARE COMPOSITION AND BANANA FLOWER EXTRACT AND METHOD FOR HAIR CARE USING THE SAME**
[54] **COMPOSITION DE SOINS POUR LES CHEVEUX ET EXTRAIT DE FLEUR DE BANANE ET METHODE DE SOINS DES CHEVEUX LES UTILISANT**
[72] LIN, YUNG-HSIANG, TW
[72] LIN, HUAN-YOU, TW
[71] TCI CO., LTD., TW
[22] 2023-11-15
[41] 2024-06-16
[30] TW (111148602) 2022-12-16

[21] **3,220,172**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G16Y 40/20 (2020.01) H04L 41/16 (2022.01) H04L 67/12 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR INCREMENTAL CENTROID CLUSTERING**
[54] **METHODE ET SYSTEME POUR LA MISE EN GRAPPES PROGRESSIVE A BASE DE CENTRES**
[72] HENKEL, STEVEN JOHN, CA
[71] BLACKBERRY LIMITED, CA
[22] 2023-11-15
[41] 2024-06-16
[30] US (18/083,102) 2022-12-16

[21] **3,220,204**
[13] A1
[51] **Int.Cl. B23P 9/00 (2006.01)**
[25] EN
[54] **FUEL INJECTOR SEAT REPAIR AND RECONDITIONING TOOL**
[54] **OUTIL DE REPARATION ET DE REMISE EN ETAT D~UN SIEGE D~INJECTEUR DE CARBURANT**
[72] DEL ROSSA, JEFFREY, US
[71] MILTON INDUSTRIES, INC., US
[22] 2023-11-16
[41] 2024-06-16
[30] US (18/067,423) 2022-12-16

[21] **3,220,912**
[13] A1
[51] **Int.Cl. A63F 3/06 (2006.01) G07C 15/00 (2006.01)**
[25] EN
[54] **LOTTERY TICKETS HAVING SYMBOL SETS AND SYSTEMS AND METHODS OF GENERATING SUCH LOTTERY TICKETS**
[54] **BILLETS DE LOTERIE COMPRENANT DES JEUX DE SYMBOLES ET SYSTEMES ET METHODES DE GENERATION DE TELS BILLETS DE LOTERIE**
[72] LUCCI, ANTHONY, US
[72] SCHERTZER, JEFFREY, US
[71] IGT GLOBAL SOLUTIONS CORPORATION, US
[22] 2023-11-22
[41] 2024-06-21
[30] US (18/085,860) 2022-12-21

[21] **3,220,918**
[13] A1
[51] **Int.Cl. A63F 3/06 (2006.01)**
[25] EN
[54] **LOTTERY TICKETS HAVING DIFFERENT SYMBOL SETS WITH ASSOCIATED DIFFERENT SEQUENTIAL PAYOUT AMOUNTS**
[54] **BILLETS DE LOTERIE COMPRENANT DIFFERENTS JEUX DE SYMBOLES ASSOCIES A DIFFERENTS MONTANTS DE PAIEMENT SEQUENTIELS**
[72] LUCCI, ANTHONY, US
[72] SCHERTZER, JEFFREY, US
[71] IGT GLOBAL SOLUTIONS CORPORATION, US
[22] 2023-11-22
[41] 2024-06-21
[30] US (18/085,848) 2022-12-21

[21] **3,221,062**
[13] A1
[51] **Int.Cl. B66F 9/14 (2006.01) B66F 9/20 (2006.01)**
[25] EN
[54] **ADJUSTABLE FORK FOR HEAVY LOADS**
[54] **FOURCHE AJUSTABLE POUR LES CHARGES LOURDES**
[72] IOTTI, MARCO, IT
[71] MANITOU ITALIA S.R.L., IT
[22] 2023-11-23
[41] 2024-06-20
[30] IT (102022000026055) 2022-12-20

[21] **3,221,135**
[13] A1
[51] **Int.Cl. B66F 9/00 (2006.01) B65G 67/02 (2006.01) B66F 11/00 (2006.01)**
[25] EN
[54] **WORKING EQUIPMENT WITH A LIFT FRAME ASSEMBLY**
[54] **EQUIPEMENT DE TRAVAIL COMPRENANT UN ASSEMBLAGE DE CHASSIS ELEVATEUR**
[72] VAHA-PIIKKIO, VILLE, FI
[72] NYSTROM, MIKKO, FI
[72] MATTILA, TOMMI, FI
[72] SIREN, PASI, FI
[71] HIAB AB, SE
[22] 2023-11-27
[41] 2024-06-21
[30] EP (22215293.6) 2022-12-21

[21] **3,221,327**
[13] A1
[51] **Int.Cl. B60P 1/48 (2006.01) B60P 1/64 (2006.01)**
[25] EN
[54] **WORKING EQUIPMENT WITH A LIFT FRAME ASSEMBLY WITH ALIGNMENT CAPABILITIES**
[54] **EQUIPEMENT DE TRAVAIL COMPRENANT UN ASSEMBLAGE DE CHASSIS ELEVATEUR A CAPACITES D~ALIGNEMENT**
[72] VAHA-PIIKKIO, VILLE, FI
[72] NYSTROM, MIKKO, FI
[72] MATTILA, TOMMI, FI
[72] SIREN, PASI, FI
[71] HIAB AB, SE
[22] 2023-11-28
[41] 2024-06-21
[30] EP (22215297.7) 2022-12-21

[21] **3,221,400**
[13] A1
[51] **Int.Cl. H04B 1/40 (2015.01) H04B 11/00 (2006.01)**
[25] EN
[54] **IMPROVED SIMULTANEOUS TRANSMIT SIGNALS AND RECEIVE SIGNALS**
[54] **AMELIORATION DES SIGNAUX DE TRANSMISSION ET SIGNAUX DE RECEPTION SIMULTANES**
[72] JUDELL, NEIL, US
[71] RAYTHEON BBN TECHNOLOGIES CORP., US
[22] 2023-11-28
[41] 2024-06-16
[30] US (63/433,200) 2022-12-16

[21] **3,221,603**
[13] A1
[51] **Int.Cl. G01R 21/06 (2006.01) G01R 27/16 (2006.01) G01R 35/00 (2006.01) G01R 19/32 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CALIBRATING A NON-CONTACT ENERGY METERING ASSEMBLY**
[54] **SYSTEME ET METHODE POUR ETALONNER UN ASSEMBLAGE DE MESURE D'ENERGIE SANS CONTACT**
[72] GUNN, COLIN N., US
[72] HARDING, STEWART JOHN, US
[72] HUBER, BENEDIKT THEODOR, US
[71] SCHNEIDER ELECTRIC USA, INC., US
[22] 2023-11-30
[41] 2024-06-22
[30] US (18/170,267) 2023-02-16
[30] US (63/476,728) 2022-12-22

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[21] **3,221,734**
[13] A1
[51] **Int.Cl. B60L 58/10 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COMMUNICATING MOTORING BATTERY INFORMATION WITHIN A GROUP OF ELECTRIC VEHICLES**
[54] **SYSTEME ET METHODE POUR COMMUNIQUER LES RENSEIGNEMENTS DE BATTERIE AUTOMOBILE DANS UN GROUPE DE VEHICULES ELECTRIQUES**
[72] GADOURY, DAVID-EMMANUEL, CA
[72] LANDRY, JEAN-PHILIPPE, CA
[72] ARRAMBIDE, RODRIGO, CA
[72] MURRAY, MACKENZIE, CA
[71] TAIGA MOTORS INC., CA
[22] 2023-11-30
[41] 2024-06-16
[30] US (63/433,127) 2022-12-16

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[21] **3,221,744**
[13] A1
[51] **Int.Cl. F16H 25/22 (2006.01) F16H 25/12 (2006.01)**
[25] EN
[54] **BALL SCREW DRIVE**
[54] **MECANISME D~ENTRAINEMENT DE VIS A BILLES**
[72] ZACH, MARIJO, CH
[72] HANSELMANN, JASMIN, CH
[72] STAUDIGL, ALEXANDER CHRISTOPH, AT
[72] SIEBER, RALPH, CH
[71] SFS GROUP INTERNATIONAL AG, CH
[22] 2023-12-04
[41] 2024-06-22
[30] EP (22216216.6) 2022-12-22

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[21] **3,221,846**
[13] A1
[51] **Int.Cl. B01D 35/30 (2006.01) F01D 25/18 (2006.01) F16N 39/06 (2006.01)**
[25] EN
[54] **LUBRICANT FILTER ASSEMBLY**
[54] **ASSEMBLAGE DE FILTRE A LUBRIFIANT**
[72] GIGNAC, STEPHANE, CA
[72] MORIN, EDITH, CA
[72] RADON, JOANNA, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-12-04
[41] 2024-06-16
[30] US (18/082,989) 2022-12-16

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[21] **3,221,970**
[13] A1
[51] **Int.Cl. E06B 5/00 (2006.01) F16J 15/00 (2006.01) H05K 5/00 (2006.01)**
[25] EN
[54] **PRESSURE TRANSDUCING GASKET SYSTEMS**
[54] **SYSTEMES DE JOINT DE TRANSDUCTION DE PRESSION**
[72] SATO, LESTER T., US
[71] ARCONIC TECHNOLOGIES LLC, US
[22] 2023-12-06
[41] 2024-06-22
[30] US (18/530,019) 2023-12-05
[30] US (63/476,863) 2022-12-22

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[21] **3,221,999**
[13] A1
[51] **Int.Cl. E06B 3/263 (2006.01) E06B 3/67 (2006.01)**
[25] EN
[54] **FENESTRATION THERMAL BREAK DESIGN**
[54] **CONCEPTION DE RUPTURE THERMIQUE DE FENESTRATION**
[72] WILCOX, LEONARD, US
[71] ARCONIC TECHNOLOGIES LLC, US
[22] 2023-12-04
[41] 2024-06-22
[30] US (18/527,000) 2023-12-01
[30] US (63/476,881) 2022-12-22

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[21] **3,222,039**
[13] A1
[51] **Int.Cl. F16B 43/00 (2006.01) F16B 37/00 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR LIMITER DEVICES**
[54] **SYSTEMES, DISPOSITIFS ET METHODES POUR DES DISPOSITIFS LIMITEURS**
[72] BUCHTA, THOMAS J., CA
[72] CAZABON, DAVID N., CA
[71] SPIROL INDUSTRIES LTD., CA
[22] 2023-12-05
[41] 2024-06-20
[30] US (63/433,819) 2022-12-20

[21] **3,222,099**
[13] A1
[51] **Int.Cl. B32B 1/00 (2006.01) B32B 37/06 (2006.01) B32B 37/10 (2006.01) B32B 37/12 (2006.01) B64C 3/00 (2006.01) B64C 3/20 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR MANUFACTURING COMPOSITE WING COVERS**
[54] **METHODE ET DISPOSITIF DE FABRICATION DE COUVERTURES D~AILE COMPOSITES**
[72] GARCIA MARTIN, DIEGO, ES
[72] MUNOZ AJENJO, FERNANDO, ES
[72] GALERA CORDOBA, GEORGINA, ES
[72] IBISATE GONZALEZ DE MATAUCO, ALEXANDER, ES
[72] ESQUIVIAS GARCIA, FERNANDO, ES
[71] AIRBUS OPERATIONS, S.L.U., ES
[22] 2023-12-04
[41] 2024-06-19
[30] EP (22383235.3) 2022-12-19

[21] **3,222,106**
[13] A1
[51] **Int.Cl. A61F 2/38 (2006.01) A61F 2/30 (2006.01)**
[25] EN
[54] **ANTI-LUXATION DEVICES FOR A CONSTRAINED PROSTHETIC KNEE**
[54] **DISPOSITIFS ANTI-LUXATION POUR UN GENOU PROTHESE CONTRAINT**
[72] YOKO, TIM, US
[72] VANDIEPENBOS, JEFFERY A., US
[72] BYRD, BRIAN D., US
[72] BARKER, JOSHUA, US
[72] MEADOWS, DAVID, US
[72] BLAYLOCK, JEFF, US
[72] REIDY, JOHN, US
[71] ZIMMER, INC., US
[22] 2023-12-06
[41] 2024-06-22
[30] US (63/434,580) 2022-12-22
[30] US (63/450,879) 2023-03-08

[21] **3,222,118**
[13] A1
[51] **Int.Cl. G06F 16/00 (2019.01) G06F 9/445 (2018.01) G06F 11/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DATA SERVER CHANGE MANAGEMENT**
[54] **SYSTEME ET METHODE POUR LA GESTION DE CHANGEMENT DE SERVEURS DE DONNEES**
[72] RELE, ARUN, CA
[72] MILLS, LUKAS, CA
[71] ABELHEALTH INC., CA
[22] 2023-12-06
[41] 2024-06-22
[30] US (63/434,840) 2022-12-22

[21] **3,222,153**
[13] A1
[51] **Int.Cl. H01M 8/04014 (2016.01) H01M 8/04119 (2016.01) H01M 8/04302 (2016.01) H01M 8/04701 (2016.01) H01M 8/2432 (2016.01)**
[25] EN
[54] **FUEL CELL SYSTEM CONFIGURED TO OPERATE IN COLD CONDITIONS AND METHOD OF OPERATING THE SAME**
[54] **SYSTEME DE PILE A COMBUSTIBLE CONFIGURE POUR FONCTIONNER DANS DES CONDITIONS A FROID ET METHODE D~EXPLOITATION**
[72] WEINGAERTNER, DAVID, US
[72] LEE, KAREN J., US
[72] EDMONSTON, DAVID, US
[72] MAHLER, JESSICA, US
[71] BLOOM ENERGY CORPORATION, US
[22] 2023-12-05
[41] 2024-06-19
[30] US (63/476,016) 2022-12-19

[21] **3,222,219**
[13] A1
[51] **Int.Cl. G06Q 10/1093 (2023.01) G06F 16/9035 (2019.01)**
[25] EN
[54] **DETERMINING ALTERNATE MEETING PARTICIPANTS BASED ON PURPOSE AND ROLE DETECTION**
[54] **DETERMINATION DE REMPLACANTS DE REUNION EN FONCTION DE LA DETECTION DE L'OBJET DE LA REUNION ET DES ROLES**
[72] PATEL, ASHVIN, US
[72] HIGGINS, MAURA, US
[71] MITEL NETWORKS CORPORATION, CA
[22] 2023-12-06
[41] 2024-06-19
[30] US (18/083962) 2022-12-19

[21] **3,222,230**
[13] A1
[51] **Int.Cl. B60L 58/14 (2019.01) B60K 1/00 (2006.01) B62M 27/02 (2006.01)**
[25] EN
[54] **ELECTRIC VEHICLE WITH REMOTE ACTIVATION**
[54] **VEHICULE ELECTRIQUE A ACTIVATION ELOIGNEE**
[72] LARSEN, CYRUS, CA
[72] GADOURY, DAVID-EMMANUEL, CA
[72] ARRAMBIDE, RODRIGO, CA
[72] MURRAY, MACKENZIE, CA
[72] LANDRY, JEAN-PHILIPPE, CA
[72] BERNATCHEZ, GABRIEL, CA
[71] TAIGA MOTORS INC., CA
[22] 2023-12-06
[41] 2024-06-19
[30] US (63/433,595) 2022-12-19

[21] **3,222,264**
[13] A1
[51] **Int.Cl. A61F 2/38 (2006.01)**
[25] EN
[54] **ANTI-LUXATION DEVICES FOR A CONSTRAINED PROSTHETIC KNEE**
[54] **DISPOSITIFS ANTI-LUXATION POUR UN GENOU PROTHESE CONTRAINT**
[72] YOKO, TIM, US
[72] VANDIEPENBOS, JEFFERY A., US
[72] BYRD, BRIAN D., US
[72] BARKER, JOSHUA, US
[72] BLAYLOCK, JEFF, US
[72] REIDY, JOHN, US
[71] ZIMMER, INC., US
[22] 2023-12-06
[41] 2024-06-22
[30] US (63/434,574) 2022-12-22
[30] US (63/450,878) 2023-03-08

[21] **3,222,299**
[13] A1
[51] **Int.Cl. G01S 19/21 (2010.01) G08G 5/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING INTERFERING GNSS SIGNAL SOURCE AND PROVIDING EVASIVE MANEUVER GUIDANCE FOR EVACUATING THE AFFECTED REGION**
[54] **SYSTEMES ET METHODES POUR DETERMINER UNE SOURCE DE SIGNAUX GNSS INTERFERENTS ET PRODUIRE UN GUIDAGE DE MANOEUVRE EVASIVE AUX FINS D'EVACUATION DE LA REGION TOUCHEE**
[72] WANG, GUOQING, US
[72] KEYZER, KARL ABRAHAM, US
[72] CHEN, XIAOQIANG, US
[72] LIANG, DANHUA, US
[72] ZHANG, MEI, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2023-12-07
[41] 2024-06-19
[30] US (18/068242) 2022-12-19

[21] **3,222,370**
[13] A1
[51] **Int.Cl. H04W 40/02 (2009.01) H04W 84/18 (2009.01) H04L 67/1095 (2022.01)**
[25] EN
[54] **FORCED FORWARDING ADDRESSING COMMUNICATIONS**
[54] **TRANSMISSION FORCEE DE L~ADRESSAGE DE COMMUNICATIONS**
[72] BARNES, KEITH WAYNE, US
[72] JAMIL, IMAD, US
[72] UHLING, THOMAS F., US
[71] ITRON, INC., US
[22] 2023-12-07
[41] 2024-06-20
[30] US (18/069,130) 2022-12-20

[21] **3,222,378**
[13] A1
[51] **Int.Cl. H04L 43/08 (2022.01) H04W 84/18 (2009.01) H04L 1/00 (2006.01)**
[25] EN
[54] **MANAGEMENT OF MESSAGE TRANSMISSION USING FORWARD ERROR CORRECTION**
[54] **GESTION DE LA TRANSMISSION DE MESSAGES AU MOYEN DE LA CORRECTION D'ERREURS SANS CIRCUIT DE RETOUR**
[72] UHLING, THOMAS F., US
[72] BARNES, KEITH WAYNE, US
[72] SEELY, DANNY RAY, US
[71] ITRON, INC., US
[22] 2023-12-07
[41] 2024-06-21
[30] US (18/069,575) 2022-12-21

[21] **3,222,408**
[13] A1
[51] **Int.Cl. C25D 1/04 (2006.01) C23C 22/00 (2006.01) C23F 17/00 (2006.01) C25D 1/20 (2006.01) C25D 3/38 (2006.01) C25D 5/04 (2006.01) H01M 4/66 (2006.01)**
[25] EN
[54] **COPPER FOIL, ELECTRODE COMPRISING THE SAME, SECONDARY BATTERY COMPRISING THE SAME, AND METHOD FOR MANUFACTURING THE SAME**
[54] **FEUILLE DE CUIVRE, ELECTRODE LA COMPRENANT, BATTERIE SECONDAIRE LA COMPRENANT ET METHODE DE FABRICATION**
[72] JIN, SHAN HUA, KR
[72] YOON, MIN SEOK, KR
[71] SK NEXILIS CO., LTD., KR
[22] 2023-12-08
[41] 2024-06-22
[30] KR (10-2022-0181691) 2022-12-22
[30] KR (10-2023-0132909) 2023-10-05

[21] **3,222,485**
[13] A1
[51] **Int.Cl. B60L 15/20 (2006.01) B60K 1/00 (2006.01) B62M 27/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR OPERATING AN ELECTRIC VEHICLE IN VARYING OPERATING CONDITIONS**
[54] **SYSTEME ET METHODE D~EXPLOITATION D~UN VEHICULE ELECTRIQUE DANS DIVERSES CONDITIONS DE FONCTIONNEMENT**
[72] CONNORS, SHAWN, CA
[72] BRUNEAU, SAMUEL, CA
[72] BERNATCHEZ, GABRIEL, CA
[72] LARSEN, CYRUS, CA
[72] PETITCLERC-DEMERS, CHRISTOPHE, CA
[71] TAIGA MOTORS INC., CA
[22] 2023-12-08
[41] 2024-06-22
[30] US (63/434,508) 2022-12-22

[21] **3,222,542**
[13] A1
[51] **Int.Cl. C25D 1/04 (2006.01) C23F 17/00 (2006.01) C25D 1/20 (2006.01) C25D 3/38 (2006.01) C25D 5/04 (2006.01) H01M 4/66 (2006.01)**
[25] EN
[54] **COPPER FOIL HAVING IMPROVED FLEXIBILITY, ELECTRODE COMPRISING THE SAME, SECONDARY BATTERY COMPRISING THE SAME, AND METHOD FOR MANUFACTURING THE SAME**
[54] **FEUILLE DE CUIVRE A SOUPLESSE ACCRUE, ELECTRODE LA COMPRENANT, BATTERIE SECONDAIRE LA COMPRENANT ET METHODE DE FABRICATION**
[72] JIN, SHAN HUA, KR
[72] YOON, MIN SEOK, KR
[71] SK NEXILIS CO., LTD., KR
[22] 2023-12-11
[41] 2024-06-22
[30] KR (10-2022-0181692) 2022-12-22
[30] KR (10-2023-0132911) 2023-10-05

[21] **3,222,583**
[13] A1
[51] **Int.Cl. E06B 9/326 (2006.01) E06B 9/58 (2006.01)**
[25] EN
[54] **A CHAIN PROTECTION SYSTEM**
[54] **SYSTEME DE PROTECTION DE CHAINE**
[72] CHAUHAN, OLIVER, AU
[71] ROLLEASE ACMEDA, INC., US
[22] 2023-12-08
[41] 2024-06-22
[30] AU (2022903958) 2022-12-22

[21] **3,222,636**
[13] A1
[51] **Int.Cl. H01B 9/00 (2006.01) H01B 3/02 (2006.01) H01B 7/14 (2006.01) H01B 7/20 (2006.01) H01B 7/282 (2006.01) H01B 13/22 (2006.01)**
[25] EN
[54] **POWER CABLE WITH METALLIC SHEATH JOINT**
[54] **CABLE D'ALIMENTATION COMPRENANT UN JOINT DE GAINE METALLIQUE**
[72] MATTSSON, ANDREAS, SE
[72] JADERBERG, JOHAN, SE
[72] WIKSTROM, JOAKIM, SE
[72] ERICSSON, JOHNNY, SE
[72] DANIELSSON, PONTUS, SE
[71] NKT HV CABLES AB, SE
[22] 2023-12-12
[41] 2024-06-16
[30] EP (22214228.3) 2022-12-16

[21] **3,222,696**
[13] A1
[51] **Int.Cl. A01D 34/00 (2006.01) B62D 6/00 (2006.01)**
[25] EN
[54] **GARDEN TOOL AND METHOD FOR CONTROL GARDEN TOOL**
[54] **OUTIL DE JARDINAGE ET METHODE POUR CONTROLER L~OUTIL DE JARDINAGE**
[72] WANG, CHAOQUN, CN
[72] WEI, QUNLI, CN
[72] XU, WENWEI, CN
[72] FAN, JUN, CN
[72] ZHAO, PENG, CN
[72] XUE, JIAFU, CN
[71] GREENWORKS (JIANGSU) CO., LTD, CN
[22] 2023-12-09
[41] 2024-06-20
[30] CN (202211641704.8) 2022-12-20
[30] CN (202223423687.9) 2022-12-20

[21] **3,222,754**
[13] A1
[51] **Int.Cl. G01V 13/00 (2006.01) G01V 3/12 (2006.01)**
[25] FR
[54] **METHOD FOR DETERMINING AN ELEVATION OF THE FREE SURFACE OF AN AREA OF WATER BY MEANS OF RADAR AND A DRONE**
[54] **PROCEDE DE DETERMINATION D'UNE ELEVATION DE LA SURFACE LIBRE D'UNE ETENDUE D'EAU AU MOYEN D'UN RADAR ET D'UN DRONE**
[72] MERIGAUD, ALEXIS, FR
[72] TONA, PAOLINO, FR
[71] IFP ENERGIES NOUVELLES, FR
[22] 2023-12-12
[41] 2024-06-16
[30] FR (2213588) 2022-12-16

[21] **3,222,784**
[13] A1
[51] **Int.Cl. A61F 2/38 (2006.01)**
[25] EN
[54] **TIBIAL COMPONENT FOR A CONSTRAINED PROSTHETIC KNEE**
[54] **COMPOSANT TIBIAL POUR UN GENOU PROTHESE CONTRAINT**
[72] YOKO, TIM, US
[72] BARKER, JOSHUA, US
[71] ZIMMER, INC., US
[22] 2023-12-12
[41] 2024-06-22
[30] US (63/434,573) 2022-12-22

[21] **3,222,785**
[13] A1
[51] **Int.Cl. B60N 2/75 (2018.01) B60N 2/90 (2018.01) A47C 7/54 (2006.01) F16C 11/10 (2006.01)**
[25] EN
[54] **ARMREST FOR A MODIFIED VEHICLE**
[54] **APPUIE-BRAS POUR UN VEHICULE MODIFIE**
[72] BETTCHER, ROBERT EARL, US
[72] BECK, JONATHAN PAUL, US
[72] MILLER, JORDAN, US
[71] THE BRAUN CORPORATION, US
[22] 2023-12-11
[41] 2024-06-20
[30] US (63/433,828) 2022-12-20

[21] **3,222,786**
[13] A1
[51] **Int.Cl. A61F 2/38 (2006.01)**
[25] EN
[54] **CONSTRAINED PROSTHETIC KNEE**
[54] **GENOU PROTHESE CONTRAINT**
[72] YOKO, TIM, US
[72] BARKER, JOSHUA, US
[72] DYKEMA, SCOTT E., US
[72] VERNON, DOUGLAS MURRAY, US
[72] BYRD, BRIAN D., US
[72] REIDY, JOHN, US
[71] ZIMMER, INC., US
[22] 2023-12-12
[41] 2024-06-22
[30] US (63/434,563) 2022-12-22
[30] US (18/526,693) 2023-12-01

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[21] **3,222,792**
[13] A1
[51] **Int.Cl. A61F 2/38 (2006.01)**
[25] EN
[54] **SEGMENTED KEEL FOR PROSTHETIC IMPLANT HAVING A STEM**
[54] **PIED SEGMENTE POUR UN IMPLANT PROTHETIQUE COMPRENANT UNE TIGE**
[72] YOKO, TIM, US
[72] BARKER, JOSHUA, US
[71] ZIMMER, INC., US
[22] 2023-12-12
[41] 2024-06-22
[30] US (63/434,566) 2022-12-22
[30] US (18/526,955) 2023-12-01

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[21] **3,222,794**
[13] A1
[51] **Int.Cl. A61F 2/38 (2006.01)**
[25] EN
[54] **ANTI-LUXATION VIA VARIOUS TECHNIQUES AND APPARATUSES**
[54] **ANTI-LUXATION REALISEE AU MOYEN DE DIVERS APPAREILS ET TECHNIQUES**
[72] YOKO, TIM, US
[72] BARKER, JOSHUA, US
[72] REIDY, JOHN, US
[72] VANDIEPENBOS, JEFFERY A., US
[72] BLAYLOCK, JEFF, US
[72] MEADOWS, DAVID, US
[72] BYRD, BRIAN D., US
[71] ZIMMER, INC., US
[22] 2023-12-12
[41] 2024-06-22
[30] US (63/434,584) 2022-12-22

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[21] **3,222,798**
[13] A1
[51] **Int.Cl. A61F 2/64 (2006.01)**
[25] EN
[54] **CONSTRAINED PROSTHETIC KNEE**
[54] **GENOU PROTHESE CONTRAINT**
[72] YOKO, TIM, US
[72] BYRD, BRIAN D., US
[71] ZIMMER, INC., US
[22] 2023-12-12
[41] 2024-06-22
[30] US (63/434,590) 2022-12-22
[30] US (18/526,737) 2023-12-01

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[21] **3,222,858**
[13] A1
[51] **Int.Cl. G08B 31/00 (2006.01) G01L 5/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PREDICTING A FALL**
[54] **SYSTEMES ET METHODES DE PREDICTION D'UNE CHUTE**
[72] CHENG, CHUN HING, CA
[72] MATIJEVICH, EMILY, CA
[71] ORPYX MEDICAL TECHNOLOGIES INC., CA
[22] 2023-12-13
[41] 2024-06-20
[30] US (63/476,192) 2022-12-20

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[21] **3,222,958**
[13] A1
[51] **Int.Cl. B65D 55/02 (2006.01) B65D 50/02 (2006.01)**
[25] EN
[54] **CHILD-RESISTANT LOCKING CONTAINER AND METHOD THEREOF**
[54] **CONTENANT VERROUILLABLE A L~EPREUVE DES ENFANTS ET METHODE CONNEXE**
[72] UBELL, EDWARD, US
[71] SUNSHINE ENCLOSURES LLC, US
[22] 2023-12-13
[41] 2024-06-17
[30] US (18/083504) 2022-12-17

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[21] **3,222,987**
[13] A1
[51] **Int.Cl. G01C 3/00 (2006.01) G01B 11/02 (2006.01) G01B 11/24 (2006.01)**
[25] EN
[54] **MEASUREMENT SYSTEM WITH AUTOMATIC TRACKING FOR CUSTOMIZING SWIMMING POOL COMPONENTS**
[54] **SYSTEME DE MESURE A SUIVI AUTOMATIQUE POUR PERSONNALISER LES ELEMENTS D'UNE PISCINE**
[72] CAPPIELLO, WILL, US
[71] LATHAM POOL PRODUCTS, INC., US
[22] 2023-12-13
[41] 2024-06-19
[30] US (63/433,697) 2022-12-19

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[21] **3,223,010**
[13] A1
[25] EN
[54] **A HOUSING FOR SCATTERED LIGHT DETECTION UNIT OF A SMOKE DETECTION DEVICE**
[54] **LOGEMENT POUR UNE UNITE DE DETECTION DE LUMIERE DIFFUSEE D~UN DETECTEUR DE FUMEE**
[72] HLUSHCHENKO, MYKHAILO, UA
[72] MAIOROV, VOLODYMYR, UA
[71] HLUSHCHENKO, MYKHAILO, UA
[71] MAIOROV, VOLODYMYR, UA
[22] 2023-12-13
[41] 2024-06-19
[30] UA (A202204859) 2022-12-19

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[21] **3,223,139**
[13] A1
[25] FR
[54] **METHOD FOR CONTROLLING AT LEAST ONE DRONE AND ASSOCIATED CONTROLLER**
[54] **PROCEDE DE CONTROLE D'AU MOINS UN DRONE ET CONTROLEUR ASSOCIE**
[72] KAZMIEROWSKI, ALEXANDRE, FR
[72] DUQUEROIE, BERTRAND, FR
[72] MOUNIER, JEAN-PHILIPPE, FR
[71] THALES, FR
[22] 2023-12-14
[41] 2024-06-19
[30] FR (FR2213738) 2022-12-19

[21] **3,223,142**
[13] A1
[51] **Int.Cl. E21B 7/18 (2006.01) B05B 9/00 (2006.01)**
[25] EN
[54] **HANDHELD WATER DRILL AND METHOD**
[54] **PERCEUSE A EAU PORTATIVE ET METHODE**
[72] ANDERSON, THOR, US
[72] PETERS, LOGAN, US
[71] VERMEER MANUFACTURING COMPANY, US
[22] 2023-12-14
[41] 2024-06-19
[30] US (18/535,958) 2023-12-11
[30] US (63/476,074) 2022-12-19

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[21] **3,223,156**
[13] A1
[51] **Int.Cl. H02M 7/5387 (2007.01) H02M 7/483 (2007.01) H02J 3/38 (2006.01) H02J 7/00 (2006.01) H02J 7/35 (2006.01) H02M 1/12 (2006.01)**
[25] EN
[54] **MULTI SWITCH INVERTER, PERSONAL POWER PLANT SYSTEM USING THEREOF AND METHOD TO GENERATE AC POWER SINE WAVE**
[54] **ONDULEUR A COMMUTATEURS MULTIPLES, SYSTEME DE CENTRALE ELECTRIQUE PERSONNELLE L~UTILISANT ET METHODE DE GENERATION D~UNE ONDE SINUSOIDALE D~ALIMENTATION C.A.**
[72] JELINEK, HOWARD JOHN, US
[71] EKERGY ENERGY, INC., US
[22] 2023-12-14
[41] 2024-06-21
[30] US (18/069,863) 2022-12-21

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[21] **3,223,174**
[13] A1
[51] **Int.Cl. A62D 1/00 (2006.01) H01M 10/613 (2014.01) H01M 10/6569 (2014.01) H01M 50/383 (2021.01) A62C 35/13 (2006.01)**
[25] EN
[54] **ORGANIC CHEMICAL FIRE SUPPRESSANT FOR A BATTERY PACK**
[54] **AGENT EXTINCTEUR CHIMIQUE ORGANIQUE POUR UN BLOC-BATTERIE**
[72] PORTERFIELD, JOHN W., US
[72] DUNSTER, ROBERT, GB
[72] ROUSE, ALBERT C., US
[72] BERNS, EUGEN, DE
[71] KIDDE TECHNOLOGIES INC., US
[22] 2023-12-14
[41] 2024-06-17
[30] US (18/083,517) 2022-12-17

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[21] **3,223,181**
[13] A1
[51] **Int.Cl. H01M 50/383 (2021.01) H01M 10/613 (2014.01) A62C 13/64 (2006.01) A62D 1/00 (2006.01)**
[25] EN
[54] **DRY CHEMICAL FIRE SUPPRESSANT FOR A BATTERY PACK**
[54] **AGENT EXTINCTEUR CHIMIQUE SEC POUR UN BLOC-BATTERIE**
[72] PORTERFIELD, JOHN W., US
[72] DUNSTER, ROBERT, GB
[72] ROUSE, ALBERT C., US
[72] BERNS, EUGEN, DE
[71] KIDDE TECHNOLOGIES INC., US
[22] 2023-12-14
[41] 2024-06-17
[30] US (18/083,516) 2022-12-17

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[21] **3,223,255**
[13] A1
[51] **Int.Cl. B60P 3/36 (2006.01) B60R 11/00 (2006.01)**
[25] EN
[54] **STORABLE FIXTURE ASSEMBLIES FOR RECREATIONAL VEHICLES**
[54] **ASSEMBLAGES D~APPAREIL D~ECLAIRAGE POUVANT ETRE RANGES POUR DES VEHICULES RECREATIFS**
[72] KAUFFMAN, JON, US
[72] BYERS, DARRELL, US
[71] MORRYDE INTERNATIONAL, INC., US
[22] 2023-12-15
[41] 2024-06-16
[30] US (63/433.182) 2022-12-16

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[21] **3,223,262**
[13] A1
[25] EN
[54] **POLYMER-SUPPORTED INFRARED SENSING APPARATUS AND METHOD**
[54] **APPAREIL ET METHODE DE DETECTION PAR INFRAROUGE ASSISTE PAR POLYMERE**
[72] SICILIANO, STEVEN, CA
[72] UNNI, BIPINLAL, CA
[72] DOOLIN, CALLUM, CA
[72] SENGER, CURTIS, CA
[72] BURGESS, IAN, CA
[71] ENVIRONMENTAL MATERIAL SCIENCE INC., CA
[22] 2023-12-15
[41] 2024-06-16
[30] US (63/433,313) 2022-12-16

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[21] **3,223,337**
[13] A1
[51] **Int.Cl. B60H 1/00 (2006.01) B60K 8/00 (2006.01)**
[25] EN
[54] **COMBINED MOTOR AND COMPRESSOR MOUNT FOR LIFT TRUCK**
[54] **SUPPORT COMBINE POUR MOTEUR ET COMPRESSEUR D~UN CHARIOT ELEVATEUR**
[72] MARTIN, JAMES C., US
[71] MARTIN SHEET METAL, INC., US
[22] 2023-12-15
[41] 2024-06-22
[30] US (18/145,039) 2022-12-22

[21] **3,223,342**
[13] A1
[25] FR
[54] **DIVISIBLE LOCKING FAIRING NOSE FOR NECK BIN**
[54] **COIFFE DE VERROUILLAGE SECABLE POUR RECIPIENT A COL**
[72] HAMADENE, SOFIEN, FR
[72] PELLET, STEPHANIE, FR
[71] A. RAYMOND ET CIE, FR
[22] 2023-12-15
[41] 2024-06-22
[30] FR (FR2214266) 2022-12-22

[21] **3,223,366**
[13] A1
[51] **Int.Cl. E21B 47/08 (2012.01) E21B 43/26 (2006.01) E21B 43/267 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR USING COLLOIDAL PARTICLES TO CHARACTERIZE FRACTURING TREATMENTS**
[54] **APPAREIL ET METHODES POUR UTILISER DES PARTICULES COLLOIDALES POUR CARACTERISER DES TRAITEMENTS DE FRACTURATION**
[72] MAAREF, SEPIDEH, CA
[72] BRYANT, STEVEN L., CA
[72] KANTZAS, APOSTOLOS, CA
[71] PERM INC., CA
[22] 2023-12-15
[41] 2024-06-22
[30] US (63/434,633) 2022-12-22

[21] **3,223,376**
[13] A1
[51] **Int.Cl. F04B 53/10 (2006.01) F04B 53/00 (2006.01) F04B 53/16 (2006.01)**
[25] EN
[54] **SYSTEMS, ASSEMBLIES, APPARATUSES, AND METHODS PROVIDING ENHANCED ENGAGEMENT BETWEEN VALVE BODIES AND VALVE SEALS**
[54] **SYSTEMES, ASSEMBLAGES, APPAREILS ET METHODES OFFRANT UN CONTACT AMELIORE ENTRE LES CORPS ET LES JOINTS DE VANNE**
[72] LEAKE, CHRIS, US
[72] FORD, TANNER, US
[72] DEARMAN, JOSH, US
[71] VULCAN INDUSTRIAL HOLDINGS, LLC, US
[22] 2023-12-15
[41] 2024-06-16
[30] US (18/539.014) 2023-12-13
[30] US (63/387.825) 2022-12-16

[21] **3,223,383**
[13] A1
[51] **Int.Cl. E21B 43/11 (2006.01) E21B 43/12 (2006.01) F04D 13/10 (2006.01)**
[25] EN
[54] **PENETRATOR SYSTEM FOR ELECTRICAL SUBMERSIBLE PUMPS**
[54] **SYSTEME DE PENETRATEUR POUR DES POMPES SUBMERSIBLES ELECTRIQUES**
[72] YINGST, BRADLEY, US
[72] WHITLEY, BRODY, US
[71] SONIC CONNECTORS LTD., US
[22] 2023-12-15
[41] 2024-06-21
[30] US (63/434,301) 2022-12-21

[21] **3,223,439**
[13] A1
[51] **Int.Cl. B25B 7/10 (2006.01) B25B 7/04 (2006.01) B25B 7/22 (2006.01)**
[25] EN
[54] **MULTI-POSITION PLIERS WITH ELONGATED RECESSES**
[54] **PINCES MULTIPOSITIONS A CAVITES ALLONGEES**
[72] EGGERT, DANIEL M., US
[71] SNAP-ON INCORPORATED, US
[22] 2023-12-15
[41] 2024-06-16
[30] US (63/433,424) 2022-12-16
[30] US (18/535,207) 2023-12-11

[21] **3,223,441**
[13] A1
[25] EN
[54] **RADIOLOGICAL SURVEY SYSTEM**
[54] **SYSTEME DE RECONNAISSANCE RADIOLOGIQUE**
[72] BANKS, KEVIN, US
[72] BANSAL, YUGANSH, US
[71] BANKS, KEVIN, US
[71] BANSAL, YUGANSH, US
[22] 2023-12-18
[41] 2024-06-16
[30] US (63433193) 2022-12-16

[21] **3,223,448**
[13] A1
[51] **Int.Cl. A61B 5/06 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **TOOL NAVIGATION IN MIXED REALITY COMPUTER-ASSISTED SURGERY**
[54] **NAVIGATION D~OUTIL DANS UNE CHIRURGIE ASSISTEE PAR ORDINATEUR EN REALITE MIXTE**
[72] COUTURE, PIERRE, CA
[72] CASAUBON, JEROME, CA
[72] AMIOT, LOUIS-PHILIPPE, CA
[72] MERETTE, JEAN-SEBASTIEN, CA
[71] ORTHOSOFT ULC, CA
[22] 2023-12-15
[41] 2024-06-20
[30] US (63/476,203) 2022-12-20

[21] **3,223,450**
[13] A1
[51] **Int.Cl. B65D 85/86 (2006.01) B65D 25/10 (2006.01) H05K 5/00 (2006.01) B25H 3/02 (2006.01)**
[25] EN
[54] **PORTABLE CONTAINER FOR AN INDUSTRIAL BATTERY CHARGER**
[54] **CONTENEUR PORTATIF POUR UN CHARGEUR DE BATTERIE INDUSTRIEL**
[72] STEWART, HAROLD, JR., US
[71] TOYOTA MATERIAL HANDLING, INC., US
[22] 2023-12-18
[41] 2024-06-19
[30] US (63/476,094) 2022-12-19

[21] **3,223,461**
[13] A1
[51] **Int.Cl. B01D 29/96 (2006.01) B05B 14/48 (2018.01) B01D 46/04 (2006.01)**
[25] EN
[54] **FILTER SYSTEM FOR SPRAY BOOTH**
[54] **SYSTEME DE FILTRE POUR UNE CABINE DE PEINTURE AU PISTOLET**
[72] SALAZAR, ABRAHAM, US
[72] MICHON, ERIK, US
[72] BALASZ, SAM, US
[71] GIFFIN, INC., US
[22] 2023-12-18
[41] 2024-06-16
[30] US (63/387782) 2022-12-16
[30] US (63/493901) 2023-04-03
[30] US (63/496729) 2023-04-18
[30] US (63/507668) 2023-06-12
[30] US (63/579687) 2023-08-30

[21] **3,223,465**
[13] A1
[51] **Int.Cl. E01H 1/02 (2006.01)**
[25] EN
[54] **SWEEPER MACHINE**
[54] **BALAYEUSE DE CHAUSSEE**
[72] GUARESCHI GEDDES DA FILICAIA, VINCENZO, IT
[71] TENAX INTERNATIONAL S.P.A., IT
[22] 2023-12-18
[41] 2024-06-22
[30] IT (102022000026487) 2022-12-22

[21] **3,223,523**
[13] A1
[51] **Int.Cl. B60K 13/02 (2006.01) B60K 13/06 (2006.01) F02M 35/10 (2006.01)**
[25] EN
[54] **AIR INTAKE ASSEMBLY AND VEHICLE HAVING AIR INTAKE ASSEMBLY**
[54] **ASSEMBLAGE DE PRISE D'AIR ET VEHICULE COMPRENANT UN ASSEMBLAGE DE PRISE D~AIR**
[72] COURCHESNE, MATHIEU, CA
[72] MATHIEU, PATRICK, CA
[72] COFFEY, MATTHEW, CA
[72] DEVIN, CHARLES, CA
[72] ANEZMAM, BRAHIM, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2023-12-18
[41] 2024-06-19
[30] US (63/433,558) 2022-12-19

[21] **3,223,533**
[13] A1
[51] **Int.Cl. B01D 29/96 (2006.01) B05B 14/48 (2018.01) B01D 46/04 (2006.01) B01D 46/44 (2006.01)**
[25] EN
[54] **FILTER SYSTEM FOR SPRAY BOOTH**
[54] **SYSTEME DE FILTRE POUR UNE CABINE DE PEINTURE AU PISTOLET**
[72] SALAZAR, ABRAHAM, US
[72] MICHON, ERIK, US
[72] BALASZ, SAM, US
[71] GIFFIN, INC., US
[22] 2023-12-18
[41] 2024-06-16
[30] US (63/387782) 2022-12-16
[30] US (63/493901) 2023-04-03
[30] US (63/496729) 2023-04-18
[30] US (63/507668) 2023-06-12
[30] US (63/579687) 2023-08-30

[21] **3,223,544**
[13] A1
[51] **Int.Cl. B63B 27/16 (2006.01) B63B 35/44 (2006.01)**
[25] EN
[54] **WORK PLATFORM FOR PERFORMING A CABLE OPERATION ON A VESSEL DECK**
[54] **PLATEFORME DE TRAVAIL POUR LA REALISATION D~UNE OPERATION DE CABLES SUR UN PONT DE NAVIRE**
[72] LUNDE, JOHANNES, NO
[72] YSTGAARD, OLA, NO
[71] NEXANS, FR
[22] 2023-12-18
[41] 2024-06-19
[30] EP (22306933.7) 2022-12-19

[21] **3,223,552**
[13] A1
[51] **Int.Cl. H01M 10/655 (2014.01) H01M 50/342 (2021.01) H01M 50/545 (2021.01) H01M 50/627 (2021.01)**
[25] EN
[54] **BATTERY WITH OPTIMIZED TEMPERATURE CONTROLLABILITY**
[54] **BATTERIE A CONTROLABILITE DE TEMPERATURE OPTIMISEE**
[72] BEDURFTIG, BENJAMIN, DE
[72] SCHAAR, BASTIAN, DE
[72] GAUSH, ANISH, DE
[72] CZECH, MARVIN, DE
[72] YURTSEVEN, MESUT, DE
[72] VON ASPERN, NATASCHA, DE
[71] VOLKSWAGEN AKTIENGESELLSCHAFT, DE
[22] 2023-12-18
[41] 2024-06-20
[30] DE (10 2022 134 057.0) 2022-12-20

[21] **3,223,553**
[13] A1
[51] **Int.Cl. F21V 29/70 (2015.01) B64F 1/20 (2006.01) F21S 8/00 (2006.01) F21V 15/01 (2006.01) F21V 31/00 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT AND COMPACT ELEVATED APPROACH LIGHT**
[54] **FEU D'APPROCHE ELEVE LEGER ET COMPACT**
[72] AHIRE, MOHAN SUKLAL, IN
[72] GUNDAVARAPU, PARAMESWARI V L, IN
[72] BIRJE, RAMESH NAGENDRA, IN
[72] MAKANDAR, ZAHIDALI MOHAMMADGOUS, IN
[71] EATON INTELLIGENT POWER LIMITED, IE
[22] 2023-12-18
[41] 2024-06-17
[30] IN (202211073289) 2022-12-17

[21] **3,223,556**
[13] A1
[51] **Int.Cl. B32B 11/02 (2006.01) C04B 22/06 (2006.01) C04B 24/04 (2006.01) C04B 24/08 (2006.01) C09D 195/00 (2006.01) E04D 1/20 (2006.01) E04D 1/26 (2006.01)**
[25] EN
[54] **MODIFIED FILLER PARTICLES FOR ASPHALT ROOFING PRODUCTS**
[54] **PARTICULES DE REMPLISSAGE MODIFIEES POUR PRODUITS DE COUVERTURE BITUMES**
[72] FU, HAI, US
[72] PRAMOUNMAT, NUTTANIT, US
[72] VERHOFF, JONATHAN, US
[72] HAGER, GREGORY T., US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[22] 2023-12-15
[41] 2024-06-16
[30] US (63/387,718) 2022-12-16

[21] **3,223,586**
[13] A1
[51] **Int.Cl. E06B 1/04 (2006.01) E06B 1/56 (2006.01) E06B 3/04 (2006.01)**
[25] EN
[54] **FENESTRATION PANEL AND TRIM RETENTION SYSTEM**
[54] **PANNEAU DE FENESTRAGE ET SYSTEME DE RETENUE DE GARNITURE**
[72] BRUCHU, TODD, US
[72] DEPEW, JUSTIN MICHAEL, US
[72] JOHNSON, CRAIG MICHAEL, US
[72] MORRIS, PAUL MICHAEL ALLAN, US
[72] SHANHOLTZER, JARED ASA, US
[71] ANDERSEN CORPORATION, US
[22] 2023-12-18
[41] 2024-06-20
[30] US (63/433984) 2022-12-20

[21] **3,223,656**
[13] A1
[51] **Int.Cl. A47K 10/38 (2006.01) B65H 49/18 (2006.01) B65H 75/18 (2006.01) B65H 75/24 (2006.01)**
[25] EN
[54] **ROLLED PRODUCT DISPENSER AND BUSHING FOR A ROLLED PRODUCT**
[54] **DISTRIBUTEUR DE PRODUIT LAMINE ET DOUILLE POUR UN PRODUIT LAMINE**
[72] LORTIE, MAUDE, CA
[72] PARE, RICHARD, CA
[71] CASCADES CANADA ULC, CA
[22] 2023-12-19
[41] 2024-06-19
[30] US (63/476.003) 2022-12-19

[21] **3,223,660**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TOMATO VARIETY NUN 08801 TOF**
[54] **TOMATE DE VARIETE NUN 08801 TOF**
[72] WANTEN, PASCAL, NL
[71] NUNHEMS B.V., NL
[22] 2023-12-19
[41] 2024-06-20
[30] US (63/476.311) 2022-12-20

[21] **3,223,661**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TOMATO VARIETY NUN 09399 TOF**
[54] **TOMATE DE VARIETE NUN 09399 TOF**
[72] WANTEN, PASCAL, NL
[71] NUNHEMS B.V., NL
[22] 2023-12-19
[41] 2024-06-20
[30] US (63/476.311) 2022-12-20

[21] **3,223,678**
[13] A1
[51] **Int.Cl. B64C 25/10 (2006.01) B64C 25/02 (2006.01) B64C 25/34 (2006.01) B64D 45/04 (2006.01) G01B 7/00 (2006.01)**
[25] EN
[54] **LANDING GEAR SYSTEMS AND METHODS OF TESTING**
[54] **SYSTEMES DE TRAIN D'ATTERRISSAGE ET METHODES D~ESSAI**
[72] KERR, SEAN, GB
[71] AIRBUS OPERATIONS LIMITED, GB
[22] 2023-12-19
[41] 2024-06-19
[30] GB (2219149.8) 2022-12-19

[21] **3,223,701**
[13] A1
[51] **Int.Cl. B65D 5/44 (2006.01) B65D 5/00 (2006.01) B65D 5/43 (2006.01) B65D 5/64 (2006.01)**
[25] EN
[54] **LID CORNER WITH INTERNAL LAYER CUTOUT SHAPE**
[54] **COIN DE COUVERCLE COMPRENANT UNE FORME DE DECOUPE DE COUCHE INTERNE**
[72] HOEFTE, PAULUS ANTONIUS AUGUSTINUS, BE
[71] THE PROCTER & GAMBLE COMPANY, US
[22] 2023-12-19
[41] 2024-06-19
[30] EP (22214415.6) 2022-12-19

[21] **3,223,788**
[13] A1
[51] **Int.Cl. C22B 7/00 (2006.01) C01D 15/02 (2006.01) C01G 1/02 (2006.01) C22B 1/00 (2006.01) C22B 3/08 (2006.01) C22B 3/44 (2006.01) H01M 10/54 (2006.01) H01M 4/139 (2010.01)**
[25] EN
[54] **METHOD FOR RECYCLING CATHODE ACTIVE MATERIAL**
[54] **METHODE DE RECYCLAGE D~UNE MATIERE ACTIVE DE CATHODE**
[72] AL RAYYES, ZAID, CA
[71] AL RAYYES, ZAID, CA
[22] 2023-12-14
[41] 2024-06-21
[30] US (63/434384) 2022-12-21

[21] **3,223,793**
[13] A1
[51] **Int.Cl. C22B 7/00 (2006.01) C22B 1/00 (2006.01) C22B 3/08 (2006.01) C22B 3/22 (2006.01) C22B 3/44 (2006.01) H01M 10/54 (2006.01) C22B 23/00 (2006.01) C22B 26/12 (2006.01) C22B 47/00 (2006.01)**
[25] EN
[54] **METHOD FOR SEPARATING CATHODE METAL OXIDES**
[54] **METHODE DE SEPARATION DES OXYDES METALLIQUES DE CATHODE**
[72] AL RAYYES, ZAID, CA
[71] AL RAYYES, ZAID, CA
[22] 2023-12-14
[41] 2024-06-21
[30] US (63/434392) 2022-12-21

[21] **3,223,794**
[13] A1
[51] **Int.Cl. G02B 6/00 (2006.01) G02B 6/44 (2006.01)**
[25] EN
[54] **MODULE COMPRISING DROP-IN ADAPTERS**
[54] **MODULE COMPRENANT DES ADAPTATEURS INSTANTANES**
[72] VIGNEAULT, SIMON, CA
[72] TABET, EDOUARD, CA
[71] THE LAN WIREWERKS RESEARCH LABORATORIES INC., CA
[22] 2023-12-19
[41] 2024-06-19
[30] US (63/433,640) 2022-12-19

[21] **3,223,807**
[13] A1
[51] **Int.Cl. A44B 19/40 (2006.01) A44B 19/10 (2006.01)**
[25] EN
[54] **ZIPPER ASSEMBLY OF A RESEALABLE ENCLOSURE**
[54] **ASSEMBLAGE DE FERMETURE A GLISSIERE POUR UNE ENVELOPPE REFERMABLE**
[72] JOHNSON, MARION, US
[72] WENC, ADRIAN, US
[72] PIEDRA, JUAN, US
[72] SEPTIEN ROJAS, JOSE MANUEL, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2023-12-19
[41] 2024-06-21
[30] US (63/434,151) 2022-12-21
[30] US (18/533,264) 2023-12-08

[21] **3,223,808**
[13] A1
[51] **Int.Cl. B05C 5/02 (2006.01) A61L 24/00 (2006.01) A61M 25/01 (2006.01) B05C 1/06 (2006.01)**
[25] EN
[54] **BRUSH/FOAM-BASED APPLICATOR FOR DISPENSING TISSUE ADHESIVE**
[54] **APPLICATEUR A BASE DE BROSSE/MOUSSE POUR LA DISTRIBUTION D~UN ADHESIF TISSULAIRE**
[72] KUMAR, MANISH, IN
[72] NALAWADE, PRAVEEN, IN
[72] PRASAD, SHISHIR, US
[72] SURYAVANSHI, AJAY, IN
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2023-12-19
[41] 2024-06-20
[30] US (18/084,644) 2022-12-20

[21] **3,223,819**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR CONFIGURING ADAPTIVE STREAMING OF CONTENT ITEMS BASED ON USER COMFORT LEVELS**
[54] **SYSTEMES ET METHODES POUR CONFIGURER LA DIFFUSION ADAPTATIVE D~ITEMS DE CONTENU FONDES SUR LES NIVEAUX DE CONFORT DE L~UTILISATEUR**
[72] LAI, DHANANJAY, US
[72] CHEN, TAO, US
[72] DOKEN, SERHAD, US
[71] ROVI GUIDES, INC., US
[22] 2023-12-19
[41] 2024-06-19
[30] US (18/083978) 2022-12-19

[21] **3,223,821**
[13] A1
[51] **Int.Cl. H04L 1/12 (2006.01) H04W 72/04 (2023.01) H04W 84/12 (2009.01)**
[25] EN
[54] **CROSS-LINK ACKNOWLEDGMENT**
[54] **RECONNAISSANCE DE LIAISON CROISEE**
[72] BAYKAS, TUNCER, US
[72] KIM, JEONGKI, US
[72] DINAN, ESMAEL HEJAZI, US
[72] LANANTE, LEONARDO ALISASIS, US
[72] HUQ, KAZI MOHAMMED SAIDUL, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-12-19
[41] 2024-06-19
[30] US (63/433,505) 2022-12-19

[21] **3,223,828**
[13] A1
[51] **Int.Cl. A01C 7/06 (2006.01) A01C 7/04 (2006.01)**
[25] EN
[54] **CONTROLLING IMAGE CAPTURE BASED ON EVENT TIMING DURING PLANTING OPERATION**
[54] **CONTROLE DE CAPTURE D~IMAGE FONDE SUR LA TEMPORISATION D~EVENEMENT PENDANT UNE OPERATION DE PLANTAGE**
[72] RAINS, GERALD E., US
[71] DEERE & COMPANY, US
[22] 2023-12-19
[41] 2024-06-20
[30] US (63/476,298) 2022-12-20
[30] US (18/535,673) 2023-12-11

[21] **3,223,832**
[13] A1
[51] **Int.Cl. B61D 19/00 (2006.01) E05C 7/04 (2006.01) E05C 9/10 (2006.01)**
[25] EN
[54] **BOXCAR DOOR MECHANISM**
[54] **MECANISME DE PORTE DE WAGON COUVERT**
[72] HUCK, KENNETH W., US
[71] TRINITY RAIL GROUP, LLC, US
[22] 2023-12-19
[41] 2024-06-20
[30] US (63/476,180) 2022-12-20

[21] **3,223,850**
[13] A1
[51] **Int.Cl. F16L 11/12 (2006.01) B65G 53/52 (2006.01) F16L 59/00 (2006.01)**
[25] EN
[54] **LOOSEFILL INSULATION HOSE CONNECTION MODULE WITH ROUGH INTERNAL SURFACE, LOOSEFILL INSUATION HOSE, AND LOOSEFILL INSULATION INSTALLATION SYSTEM**
[54] **MODULE DE RACCORD A BOYAU D~ISOLATION EN VRAC COMPRENANT UNE SURFACE INTERNE RUGUEUSE, BOYAU D~ISOLATION EN VRAC ET SYSTEME D~INSTALLATION D~ISOLATION EN VRAC**
[72] LUIS, DAVID, FR
[72] LOMBARD, PIERRE, US
[72] GOTO, PAULA, FR
[72] TOULEMON, DELPHINE, FR
[71] SAINT-GOBAIN ISOVER, FR
[22] 2023-12-20
[41] 2024-06-21
[30] EP (22306974.1) 2022-12-21

[21] **3,223,873**
[13] A1
[51] **Int.Cl. E06B 3/54 (2006.01)**
[25] EN
[54] **FIXED SASH RETAINER SYSTEM FOR FENESTRATION UNIT**
[54] **SYSTEME DE RETENUE D~UN CHASSIS FIXE POUR UNE UNITE DE FENESTRAGE**
[72] WILSON, ERIC JOHN, US
[72] CORDER, JOHN, US
[71] JELD-WEN, INC., US
[22] 2023-12-20
[41] 2024-06-20
[30] US (63/476,225) 2022-12-20
[30] US (18/545,400) 2023-12-19

[21] **3,223,892**
[13] A1
[51] **Int.Cl. E06B 9/52 (2006.01)**
[25] EN
[54] **MOTORIZED RETRACTABLE SCREEN SYSTEM**
[54] **SYSTEME D~ECRAN RETRACTABLE MOTORISE**
[72] MELNYCHUK, DEREK D., US
[72] CARRILHO, VIRGOLINO, US
[72] CAPUTO, STEVEN A., US
[72] COCHRAN, CRAIG J., US
[72] COHA, DUSTIN F., US
[72] GREEN, KEVIN B., US
[72] CHARLES, KIRK W., US
[71] FOUR SEASON INDUSTRIES, LLC, US
[22] 2023-12-20
[41] 2024-06-20
[30] US (63/433,806) 2022-12-20
[30] US (63/609,454) 2023-12-13

[21] **3,223,910**
[13] A1
[51] **Int.Cl. H02J 13/00 (2006.01) G05B 19/418 (2006.01) C25B 1/04 (2021.01) C25B 15/02 (2021.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MANAGEMENT OF POWER IN AN INDUSTRIAL GAS PRODUCTION FACILITY**
[54] **METHODE ET APPAREIL DE GESTION D~ALIMENTATION DANS UNE INSTALLATION DE PRODUCTION DE GAZ INDUSTRIELLE**
[72] ESPIE, DAVID M., US
[72] WILSON, GRAEME RICHARD, GB
[72] WRIGHT, KEVIN, GB
[72] HUGHES, DAVID, GB
[72] VAN LUIJK, NICOLAAS GILLES, NL
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2023-12-20
[41] 2024-06-21
[30] US (18/085,675) 2022-12-21

[21] **3,223,914**
[13] A1
[51] **Int.Cl. C25B 9/67 (2021.01) C01B 3/00 (2006.01) C01B 3/04 (2006.01)**
[25] EN
[54] **APPARATUS AND PROCESS TO PROVIDE COOLING WATER FOR AMMONIA AND/OR HYDROGEN PRODUCTION**
[54] **APPAREIL ET PROCEDE POUR FOURNIR UNE EAU DE REFROIDISSEMENT POUR LA PRODUCTION D~AMMONIAC ET/OU D~HYDROGENE**
[72] WILSON, GRAEME RICHARD, GB
[72] HARYETT, NICOLAS JOHN, GB
[72] AKHURST, MATTHEW WILLIAM, NL
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2023-12-20
[41] 2024-06-21
[30] US (18/085,690) 2022-12-21

[21] **3,223,915**
[13] A1
[51] **Int.Cl. H04L 47/24 (2022.01) H04L 41/16 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TRAFFIC FLOW CONTENT CLASSIFICATION AND CLASSIFICATION CONFIDENCE LEVEL**
[54] **SYSTEME ET METHODE DE CLASSIFICATION DE CONTENU DE L~ECOULEMENT DU TRAFIC ET DEGRE DE CONFIANCE DE CLASSIFICATION**
[72] PALANISAMY, ANURAM, IN
[72] HAVANG, ALEXANDER, SE
[72] KARANTH, PRADEEP, IN
[72] MITTAL, AMBUJ, IN
[72] VINAYAKA, JUJARE, IN
[72] KURUVILLA, OUSEF, IN
[72] MADHUSUDAN, MRIDULA, IN
[72] KULSHRESTHA, VISHAL, IN
[72] STOCKER, CHRISTOPHER, US
[71] SANDVINE CORPORATION, CA
[22] 2023-12-20
[41] 2024-06-20
[30] US (63/433,919) 2022-12-20
[30] US (63/476,811) 2022-12-22

[21] **3,223,919**
[13] A1
[51] **Int.Cl. H04L 43/026 (2022.01) H04L 47/2441 (2022.01) H04L 47/2475 (2022.01) H04L 47/2483 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TRAFFIC FLOW CLASSIFICATION**
[54] **SYSTEME ET METHODE DE CLASSIFICATION DE L~ECOULEMENT DU TRAFIC**
[72] PALANISAMY, ANURAM, IN
[72] HAVANG, ALEXANDER, SE
[72] MITTAL, AMBUJ, IN
[72] WALDENBORG, ANDERS, SE
[72] KULSHRESTHA, VISHAL, IN
[71] SANDVINE CORPORATION, CA
[22] 2023-12-20
[41] 2024-06-21
[30] IN (202211074371) 2022-12-21
[30] IN (202211074445) 2022-12-22

[21] **3,223,927**
[13] A1
[25] EN
[54] **ADVERTISEMENT PLACEMENT FOR STREAM MEDIA**
[54] **CRENEAUX PUBLICITAIRES POUR LES MEDIAS DIFFUSES**
[72] GROVER, MATTHEW, US
[71] ROKU, INC., US
[22] 2023-12-20
[41] 2024-06-20
[30] US (18/085058) 2022-12-20

[21] **3,223,982**
[13] A1
[25] EN
[54] **METHOD FOR ANNOTATING TRACKS OF INDIVIDUALS IN A SEQUENCE OF IMAGES**
[54] **METHODE D~ANNOTATION DES EMPREINTES D~INDIVIDUS DANS UNE SEQUENCE D~IMAGES**
[72] LAPOUGE, GUILLAUME, FR
[72] LUVISON, BERTRAND, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[22] 2023-12-20
[41] 2024-06-21
[30] FR (2214033) 2022-12-21

[21] **3,223,986**
[13] A1
[51] **Int.Cl. H01Q 21/06 (2006.01) H01Q 1/38 (2006.01) H01Q 9/04 (2006.01) H01Q 15/24 (2006.01) H01Q 21/29 (2006.01) H03H 7/38 (2006.01)**
[25] EN
[54] **WIDE-ANGLE IMPEDANCE-MATCHING DEVICE FOR RADIATING-ELEMENT ARRAY ANTENNA AND METHOD OF DESIGNING SUCH A DEVICE**
[54] **DISPOSITIF D~ADAPTATION D'IMPEDANCE A GRAND ANGLE POUR UNE ANTENNE RESEAU A ELEMENT RAYONNANT ET METHODE DE CONCEPTION D~UN TEL DISPOSITIF**
[72] GILLARD, RAPHAEL, FR
[72] GARCIA VIGUERAS, MARIA, FR
[72] BERMUDEZ-MARTIN, DIEGO, FR
[72] LEGAY, HERVE, FR
[71] THALES, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE DE RENNES 1, FR
[71] NANTES UNIVERSITE, FR
[71] INSA DE RENNES, FR
[71] CENTRALESUPELEC, FR
[22] 2023-12-20
[41] 2024-06-22
[30] FR (2214203) 2022-12-22

[21] **3,224,002**
[13] A1
[51] **Int.Cl. B08B 3/02 (2006.01) B05B 12/00 (2018.01)**
[25] EN
[54] **ADJUSTABLE UNLOADER CONTROL**
[54] **COMMANDE DE REDUCTEUR DE PUISSANCE AJUSTABLE**
[72] JANIK, PAUL, US
[72] GIACALONE, JOE, US
[71] J. D. NORTH AMERICA CORP., US
[22] 2023-12-20
[41] 2024-06-22
[30] US (63/434615) 2022-12-22

[21] **3,224,032**
[13] A1
[51] **Int.Cl. G01D 21/00 (2006.01)**
[25] EN
[54] **DETECTING A MALFUNCTION ASSOCIATED WITH AN IMPULSE LINE**
[54] **DETECTION D~UNE DEFAILLANCE ASSOCIEE A UNE LIGNE DE TRANSMISSION D~IMPULSIONS**
[72] VAJIHINEJAD, VAHID, CA
[72] PUPNEJA, SACHIN, CA
[71] CANADIAN NATURAL RESOURCES LIMITED, CA
[22] 2023-12-20
[41] 2024-06-22
[30] US (63/434,799) 2022-12-22

[21] **3,224,054**
[13] A1
[51] **Int.Cl. H02J 7/02 (2016.01) H02J 50/10 (2016.01) H02J 50/40 (2016.01) B25F 5/00 (2006.01) H01M 10/44 (2006.01)**
[25] EN
[54] **WIRELESS CHARGING AND POWERING OF TOOLS**
[54] **CHARGEMENT ET ALIMENTATION SANS FIL D~OUTILS**
[72] KUTER-ARNEBECK, OTTOLEO, US
[72] GABBEY, NICHOLAS, US
[72] ANDERSEN, JONATHAN I., US
[71] SNAP-ON INCORPORATED, US
[22] 2023-12-20
[41] 2024-06-21
[30] US (18/086535) 2022-12-21

[21] **3,224,060**
[13] A1
[51] **Int.Cl. G06T 9/20 (2006.01)**
[25] EN
[54] **MOTION COMPENSATION BASED NEIGHBORHOOD CONFIGURATION FOR TRISOUP VERTEX INFORMATION**
[54] **CONFIGURATION DE VOISINAGE AXEE SUR LA COMPENSATION DE MOUVEMENT POUR DES RENSEIGNEMENTS SUR LES VERTEX DE SOUPES DE TRIANGLES**
[72] LASSERRE, SEBASTIEN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-12-20
[41] 2024-06-20
[30] US (63/433,884) 2022-12-20

[21] **3,224,075**
[13] A1
[51] **Int.Cl. E21B 47/11 (2012.01) E21B 34/14 (2006.01)**
[25] EN
[54] **DOWNHOLE VALVE WITH TRACER INTEGRATION**
[54] **SOUPAPE DE FOND DE TROU COMPRENANT L~INTEGRATION D~UN TRACEUR**
[72] BORSCHNECK, SEAN, CA
[72] MENON, SANJAY, CA
[71] TORSCH INC., CA
[22] 2023-12-20
[41] 2024-06-20
[30] US (63/434,052) 2022-12-20

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[21] **3,224,084**
[13] A1
[25] EN
[54] **LARGE-AREA SEMICONDUCTOR DRIFT DETECTOR FOR RADIATION DETECTION**
[54] **DETECTEUR DU DEPLACEMENT DE SEMICONDUCTEUR DANS UNE GRANDE ZONE POUR LA DETECTION DE RAYONNEMENT**
[72] ADNANI, SAHAR, CA
[72] KARIM, KARIM S., CA
[71] ADNANI, SAHAR, CA
[71] KARIM, KARIM S., CA
[22] 2023-12-20
[41] 2024-06-22
[30] US (63/434,610) 2022-12-22

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[21] **3,224,234**
[13] A1
[51] **Int.Cl. A61F 13/49 (2006.01) A61F 5/44 (2006.01) A61F 13/15 (2006.01) A61F 13/496 (2006.01)**
[25] EN
[54] **ABSORBENT ARTICLE WITH ABSORBENT WAIST BARRIER**
[54] **ARTICLE ABSORBANT COMPRENANT UNE BARRIERE DE TAILLE ABSORBANTE**
[72] GLAUG, FRANK S., CA
[72] GREEN, JASON HARRY NED, CA
[72] SADEK, ALAA, CA
[71] IRVING CONSUMER PRODUCTS LIMITED, CA
[22] 2023-12-21
[41] 2024-06-22
[30] US (63/434,512) 2022-12-22

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[21] **3,224,274**
[13] A1
[51] **Int.Cl. E04B 1/12 (2006.01) B29C 48/16 (2019.01) B29C 70/50 (2006.01) C08J 5/04 (2006.01) C08K 7/02 (2006.01) C08L 27/06 (2006.01) E04B 1/14 (2006.01) E04B 1/28 (2006.01)**
[25] EN
[54] **CORE AND SHELL COMPOSITE STRUCTURAL MEMBER**
[54] **ELEMENT STRUCTURAL COMPOSITE COEUR-ECORCE**
[72] HEIKKILA, KURT, US
[71] TUNDRA COMPOSITES, LLC, US
[22] 2023-12-21
[41] 2024-06-22
[30] US (63/434,572) 2022-12-22

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[21] **3,224,282**
[13] A1
[51] **Int.Cl. G06Q 10/0639 (2023.01) G06Q 30/015 (2023.01)**
[25] EN
[54] **A SYSTEM AND METHOD FOR AUTOMATICALLY EVALUATING AND SCORING THE QUALITY OF AGENT-CUSTOMER INTERACTIONS**
[54] **SYSTEME ET METHODE POUR L~EVALUATION ET LA COTATION AUTOMATIQUES DE LA QUALITE DES INTERACTIONS AGENT-CLIENT**
[72] CATTANEO, LAURA, US
[72] CHAPLIN, BORIS, US
[72] SMAAGARD, KYLE, US
[72] VANCIU, CHRIS, US
[72] MORGAN, DYLAN, US
[72] BULLOCK, CATHERINE, US
[71] CALABRIO, INC., US
[22] 2023-12-21
[41] 2024-06-21
[30] US (18/069,983) 2022-12-21

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[21] **3,224,373**
[13] A1
[51] **Int.Cl. C08J 11/14 (2006.01) C08H 8/00 (2010.01) C08B 15/08 (2006.01) C30B 29/58 (2006.01)**
[25] EN
[54] **PROCESS FOR MANUFACTURING OF NANOCRYSTALLINE CELLULOSE (NCC)**
[54] **PROCEDE DE FABRICATION D~UNE CELLULOSE NANOCRISTALLINE**
[72] ADBELFATAH, ELSAYED, US
[72] ENRIQUEZ, ALEJANDRA, CA
[72] WEISSENBERGER, MARKUS, CA
[71] SIXRING INC., CA
[22] 2023-12-21
[41] 2024-06-22
[30] CA (3,184,540) 2022-12-22

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[21] **3,224,375**
[13] A1
[51] **Int.Cl. A63B 71/12 (2006.01) A41D 13/015 (2006.01)**
[25] EN
[54] **PROTECTIVE SHOULDER PADS WITH ADJUSTABLE FRONT PANEL**
[54] **EPAULIERES DE PROTECTION COMPRENANT UN PANNEAU AVANT AJUSTABLE**
[72] HANDFIELD, MARIE-JEANNE, CA
[72] BROWNRIDGE, RYAN, CA
[71] SPORT MASKA INC., CA
[22] 2023-12-21
[41] 2024-06-22
[30] US (63/476,779) 2022-12-22

[21] **3,224,377**
[13] A1
[51] **Int.Cl. G07C 13/00 (2006.01) G06F 17/10 (2006.01)**
[25] EN
[54] **ROBUST ELECTION LOGIC AND ACCURACY TESTING**
[54] **LOGIQUE ELECTORALE ROBUSTE ET TEST DE PRECISION**
[72] CRIMMINS, BRADEN L., US
[72] HALDERMAN, JOHN ALEXANDER, US
[72] STURT, BRADLEY, US
[71] REGENTS OF THE UNIVERSITY OF MICHIGAN, US
[71] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US
[22] 2023-12-21
[41] 2024-06-22
[30] US (63/434873) 2022-12-22

[21] **3,224,378**
[13] A1
[51] **Int.Cl. C08H 8/00 (2010.01) C08H 7/00 (2011.01) C08B 1/00 (2006.01) C08B 37/14 (2006.01) C08J 11/10 (2006.01) D21C 3/06 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN BIOMASS DELIGNIFICATION**
[54] **AMELIORATIONS A LA DELIGNIFICATION DE BIOMASSE**
[72] WYNNYK, KYLE G., CA
[72] ENRIQUEZ, ALEJANDRA, CA
[72] DEWIT, MATTHEW, CA
[72] WEISSENBERGER, MARKUS, CA
[71] SIXRING INC., CA
[22] 2023-12-21
[41] 2024-06-22
[30] CA (3,184,551) 2022-12-22

[21] **3,224,412**
[13] A1
[51] **Int.Cl. G16H 40/20 (2018.01) G06Q 10/109 (2023.01)**
[25] EN
[54] **HEALTHCARE FACILITY SCHEDULING**
[54] **GESTION DE CALENDRIER D~UN ETABLISSEMENT DE SOINS DE SANTE**
[72] DEGRANDPRE, JOHN, US
[72] MABEE, ALISON, US
[72] JAKOPIN, DANIEL, US
[72] BHURANI, DEEPAK, US
[72] BAPURI, RAJAT, US
[72] KUMAR, CHETHAN, US
[72] SINGH, SUMER, US
[71] TELETRACKING TECHNOLOGIES, INC., US
[22] 2023-12-21
[41] 2024-06-22
[30] US (18/145,089) 2022-12-22

[21] **3,224,422**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINING AN OPERATION STATE OF ACOUSTIC TRANSDUCERS**
[54] **METHODES ET SYSTEMES POUR LA DETERMINATION D~UN ETAT DE FONCTIONNEMENT DE TRANSDUCTEURS ACOUSTIQUES**
[72] MAHMOUDABADI, HODJATALLAH, CA
[72] MOSHAYEDI, HAMIDREZA, IR
[71] LENARD ENTERPRISES INC., CA
[22] 2023-12-21
[41] 2024-06-21
[30] US (63/476,541) 2022-12-21

[21] **3,224,430**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR TESTING ACOUSTIC TRANSDUCERS, AND ACOUSTIC TRANSDUCER ADAPTERS FOR THE SYSTEMS**
[54] **METHODES ET SYSTEMES POUR METTRE A L'ESSAI DES TRANSDUCTEURS ACOUSTIQUES ET ADAPTATEURS DE TRANSDUCTEURS ACOUSTIQUES POUR LES SYSTEMES**
[72] MAHMOUDABADI, HODJATALLAH, CA
[72] MOSHAYEDI, HAMIDREZA, IR
[71] LENARD ENTERPRISES INC., CA
[22] 2023-12-21
[41] 2024-06-21
[30] US (63/476,554) 2022-12-21

[21] **3,224,656**
[13] A1
[51] **Int.Cl. B25D 1/02 (2006.01) B25D 1/04 (2006.01) B25D 1/06 (2006.01)**
[25] EN
[54] **MAGNETIC HAMMER COVER**
[54] **COUVRE-MARTEAU MAGNETIQUE**
[72] RAYMOND, DANIEL J., US
[71] RAYMOND, DANIEL J., US
[22] 2023-12-20
[41] 2024-06-22
[30] US (63/434,747) 2022-12-22

[21] **3,224,745**
[13] A1
[51] **Int.Cl. E05F 11/54 (2006.01) B61D 19/02 (2006.01) E05D 15/06 (2006.01)**
[25] EN
[54] **VARIABLE RATIO RAILCAR DOOR MECHANISM**
[54] **MECANISME DE PORTE DE WAGON DE RAPPORT VARIABLE**
[72] HUCK, KENNETH W., US
[71] TRINITY NORTH AMERICAN FREIGHT CAR, INC., US
[22] 2023-12-20
[41] 2024-06-21
[30] US (63/476,482) 2022-12-21

[21] **3,224,763**
[13] A1
[51] **Int.Cl. G06T 9/20 (2006.01)**
[25] EN
[54] **MOTION COMPENSATION BASED NEIGHBORHOOD CONFIGURATION FOR TRISOUP CENTROID INFORMATION**
[54] **CONFIGURATION DE VOISINAGE AXEE SUR LA COMPENSATION DE MOUVEMENT POUR DES RENSEIGNEMENTS SUR LES CENTRES DE SOUPES DE TRIANGLES**
[72] LASSERRE, SEBASTIEN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-12-22
[41] 2024-06-22
[30] US (63/434,526) 2022-12-22

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[21] **3,224,781**
[13] A1
[51] **Int.Cl. F03D 3/00 (2006.01) F03D 5/00 (2006.01)**
[25] FR
[54] **SPHERICAL WIND TURBINE WITH VERTICAL CURVED BLADES**
[54] **EOLIENNE SPHERIQUE, A AUBES COURBES VERTICALES**
[72] DESSUREAULT, GABRIEL, CA
[71] DESSUREAULT, GABRIEL, CA
[22] 2023-12-20
[41] 2024-06-17

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[21] **3,226,072**
[13] A1
[25] EN
[54] **METHOD AND SYSTEM FOR HIGH THROUGHPUT LIVE AND OFFLINE MULTIMEDIA TRANSCODING**
[54] **METHODE ET SYSTEME POUR LE TRANSCODAGE MULTIMEDIA EN DIRECT ET HORS LIGNE A GRANDE CAPACITE**
[72] GIASSON, FREDERIC, CA
[71] 3649954 CANADA INC., CA
[22] 2023-12-21
[41] 2024-06-21
[30] US (63434448) 2022-12-21

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[21] **3,227,054**
[13] A1
[51] **Int.Cl. E21B 34/08 (2006.01) E21B 21/08 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **AICD**
[54] **DISPOSITIF DE CONTROLE DU DEBIT ENTRANT AUTONOME (AICD)**
[72] CHEN, YVONNE, US
[71] CONOVA LLC, US
[22] 2024-01-24
[41] 2024-06-16
[30] CN (2022116373389) 2022-12-16

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[13] A1
[51] **Int.Cl. E04F 13/21 (2006.01) E04C 2/42 (2006.01) E04F 13/24 (2006.01)**
[25] EN
[54] **WALL PANEL MOUNT SYSTEM INCLUDING A FRAME AND CLIP THEREOF, WALL PANEL ASSEMBLY INCLUDING A WALL PANEL THEREOF, AND VARIOUS METHODS RELATED THERETO**
[54] **SYSTEME DE MONTAGE DE PANNEAU MURAL COMPRENANT UN CADRE ET UNE PINCE CONNEXE, ASSEMBLAGE DE PANNEAU MURAL COMPRENANT UN TEL PANNEAU ET DIVERSES METHODES CONNEXES**
[72] MORLOCK, NATHAN, CA
[71] MORLOCK HOLDINGS LTD., CA
[22] 2024-03-27
[41] 2024-06-18
[30] US (63/597302) 2023-11-08

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[13] A1
[51] **Int.Cl. H04W 56/00 (2009.01) H04W 4/33 (2018.01) H04L 43/10 (2022.01)**
[25] EN
[54] **COMMUNICATION METHOD OF ELECTRONIC SHELF LABEL SYSTEM, SYSTEM, COMPUTER DEVICE AND STORAGE MEDIUM**
[54] **METHODE DE COMMUNICATION D~UN SYSTEME D~ETIQUETTES ELECTRONIQUES D~ETAGERE, SYSTEME, DISPOSITIF INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] LIANG, MIN, CN
[72] JI, YAPING, CN
[72] CHEN, GENGFENG, CN
[72] ZHANG, GUOFENG, CN
[72] WANG, YUJING, CN
[72] ZHANG, JU, CN
[72] JIANG, QI, CN
[71] HANSHOW TECHNOLOGY CO., LTD., CN
[22] 2024-04-11
[41] 2024-06-17
[30] CN (202311006499.2) 2023-08-10

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[51] **Int.Cl. G06Q 40/06 (2012.01) G06Q 20/06 (2012.01) G06Q 20/36 (2012.01) G06F 16/27 (2019.01) G06N 20/00 (2019.01) G06F 40/40 (2020.01)**
[25] EN
[54] **GAHNIC EQUINOX - A PARADIGM SHIFT IN ACTUARIAL JOBS, BENEFITS, PENSION MANAGEMENT TECHNOLOGY**
[54] **GAHNIC EQUINOX : UN CHANGEMENT DE PARADIGME DANS LES EMPLOIS ACTUARIELS ET LA TECHNOLOGIE DE GESTION DES AVANTAGES ET DES PENSIONS**
[72] VARELA, DANIELLE, CA
[71] VARELA, DANIELLE, CA
[22] 2024-04-14
[41] 2024-06-17

[21] **3,235,555**
[13] A1
[51] **Int.Cl. E21D 20/00 (2006.01) E21D 9/14 (2006.01)**
[25] EN
[54] **A TUNNEL DRILLING EQUIPMENT AND CONSTRUCTION METHOD THEREOF**
[54] **EQUIPEMENT DE PERCAGE DE GALERIE ET METHODE CONNEXE**
[72] YAN, WEITAO, CN
[72] WANG, WENLONG, CN
[72] TANG, KE, CN
[72] ZHU, JIANYONG, CN
[72] GAO, PENGFEI, CN
[72] HU, JIDONG, CN
[72] DENG, JIAWEI, CN
[72] YANG, LIN, CN
[72] BAI, LIN, CN
[72] WANG, JIANQING, CN
[72] ZHANG, WEI, CN
[72] SHEN, GONGZHAO, CN
[72] CHEN, JING, CN
[72] JIANG, PENG, CN
[72] CHEN, RUI, CN
[71] CHINA RAILWAY EIGHTH BUREAU GROUP ELECTRIC ENGINEERING CO., LTD, CN
[71] CHINA RAILWAY EIGHTH BUREAU GROUP CO., LTD, CN
[71] CHENGDU ZHITONG YONGDAO TECHNOLOGY CO., LTD, CN
[22] 2024-04-17
[41] 2024-06-17
[30] CN (2023104629933) 2023-04-26

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[13] A1
[51] **Int.Cl. B65B 11/50 (2006.01) B65B 35/10 (2006.01) B65B 47/02 (2006.01) B65D 65/46 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **PROCESS OF MAKING WATER-SOLUBLE UNIT DOSE ARTICLES**
[54] **PROCEDE DE FABRICATION D~ARTICLES DE DOSE UNITAIRE HYDROSOLUBLES**
[72] TANTAWY, HOSSAM HASSAN, GB
[71] THE PROCTER & GAMBLE COMPANY, US
[22] 2024-04-18
[41] 2024-06-17

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[13] A1
[51] **Int.Cl. A45C 11/00 (2006.01) H04W 88/02 (2009.01) A45F 5/00 (2006.01) H04M 1/72 (2021.01)**
[25] EN
[54] **APPARATUS AND METHOD**
[54] **APPAREIL ET METHODE**
[72] BIEBER, HAILEY RHODE, US
[72] STEED, HELEN, US
[72] SONNTAG, SAM, US
[71] HRBEAUTY INC., US
[22] 2024-04-18
[41] 2024-06-17

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[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE HYBRID X03T041**
[54] **MAIS HYBRIDE X03T041**
[72] PACE, JORDON MICHAEL, US
[72] THORSON, RYAN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2024-04-19
[41] 2024-06-19
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[51] **Int.Cl. C11D 17/04 (2006.01) C11D 3/16 (2006.01) C11D 3/386 (2006.01) C11D 3/60 (2006.01) C11D 1/00 (2006.01) C11D 3/37 (2006.01)**
[25] EN
[54] **DETERGENT TABLET**
[54] **COMPRIME DE DETERGENT**
[72] SUN, JIANFENG, CN
[72] LI, FENGLEI, CN
[72] SUN, MIN, CN
[72] ZENG, XIANGJIAN, CN
[72] LAN, NA, CN
[72] HUANG, YUMEI, CN
[71] GUANGZHOU JOYSON CLEANING PRODUCTS CO., LTD., CN
[85] 2023-02-14
[86] 2022-12-21 (PCT/CN2022/140598)
[87] (3189688)

[21] **3,194,407**
[13] A1
[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/38 (2012.01)**
[25] EN
[54] **A SYSTEM FOR SECURE TRANSACTION PROCESSING AND A METHOD THEREOF**
[54] **SYSTEME POUR LE TRAITEMENT DE TRANSACTIONS SECURISEES ET METHODE CONNEXE**
[72] AGASHE, MANDAR, IN
[71] AGASHE, MANDAR, IN
[85] 2023-03-30
[86] 2022-12-20 (PCT/IB2022/062520)
[87] (3194407)
[30] IN (202121060001) 2021-12-22

[21] **3,194,896**
[13] A1
[51] **Int.Cl. G01K 1/024 (2021.01) G01K 1/14 (2021.01) G01K 1/08 (2021.01)**
[25] EN
[54] **BLUETOOTH TEMPERATURE MEASURING PROBE**
[54] **SONDE A MESURER LA TEMPERATURE BLUETOOTH**
[72] ZHU, RONGYUAN, CN
[72] QIU, HENGSHOU, CN
[71] SHENZHEN KUKI ELECTRONIC CO., LTD., CN
[85] 2023-04-04
[86] 2023-01-09 (PCT/CN2023/071221)
[87] (3194896)
[30] CN (202211625359.9) 2022-12-16

[21] **3,214,322**
[13] A1
[51] **Int.Cl. B60K 25/00 (2006.01) B60K 17/28 (2006.01) B60K 25/06 (2006.01)**
[25] EN
[54] **A POWERTRAIN FOR A WORK MACHINE**
[54] **GROUPE MOTOPROPULSEUR POUR UNE MACHINE DE TRAVAIL**
[72] SAINI, DEEPAK, IN
[72] AYYASAMY, GOKILA, IN
[72] PRABHAKARAN, ARJUN, IN
[72] ARUMUGHAM, SIVAKUMAR, IN
[72] NATARAJAN, SARAVANAN, IN
[72] ABBAAS, MOHD ALI, IN
[72] SUNDARAM, PAVITHRA, IN
[71] MAHINDRA AND MAHINDRA LIMITED, IN
[85] 2023-10-03
[86] 2023-03-13 (PCT/IB2023/052395)
[87] (3214322)
[30] IN (202241074655) 2022-12-22

[21] **3,222,491**
[13] A1
[51] **Int.Cl. A61M 25/02 (2006.01)**
[25] EN
[54] **SECONDARY SECUREMENT DEVICE FOR VASCULAR ACCESS DEVICE**
[54] **DISPOSITIF DE FIXATION SECONDAIRE POUR DISPOSITIF D'ACCES VASCULAIRE**
[72] SHETYE, ATHARVA, IN
[72] MYLA, SRIMANNARAYANA, IN
[72] PRASAD, SHISHIR, US
[72] BHARGAVA, DIVIK, IN
[72] MALVIYA, RAHUL, CA
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-12-12
[86] 2022-12-20 (PCT/US2022/053451)
[87] (3222491)

[21] **3,233,558**
[13] A1
[51] **Int.Cl. F15B 13/02 (2006.01) F04B 53/10 (2006.01) F15B 11/16 (2006.01)**
[25] EN
[54] **FLOATING CONTROL SYSTEM FOR FIXED DISPLACEMENT PUMP SYSTEM**
[54]
[72] DU, CHANGHUI, CN
[72] ZHAO, JUNBO, CN
[72] LIU, GUOLIANG, CN
[72] ZHANG, YUXIAO, CN
[71] HUNAN SINOBOOM INTELLIGENT EQUIPMENT CO., LTD., CN
[85] 2024-03-29
[86] 2022-12-29 (PCT/CN2022/143606)
[87] (3233558)
[30] CN (202211653209.9) 2022-12-19

[21] **3,235,010**
[13] A1
[51] **Int.Cl. G02B 23/14 (2006.01) G02B 15/00 (2006.01)**
[25] EN
[54] **ZOOM SIGHT**
[54] **VISEUR A ZOOM**
[72] YU, GUOMIN, CN
[71] ZHUHAI RONGSHENG TECHNOLOGY CO. LTD, CN
[85] 2024-04-12
[86] 2023-04-28 (PCT/CN2023/091811)
[87] (3235010)
[30] CN (202211643627.X) 2022-12-20

[21] **3,236,746**
[13] A1
[51] **Int.Cl. G06Q 10/30 (2023.01) G06Q 20/22 (2012.01) G07F 7/06 (2006.01)**
[25] EN
[54] **CONTAINER LENDING MANAGEMENT SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE GESTION DES PRETS DE CONTENEURS**
[72] IRWIN, CODY, CA
[71] WEST COAST HEALTHY VENDING INC., CA
[85] 2024-04-30
[86] 2024-03-01 (PCT/CA2024/050264)
[87] (3236746)
[30] US (63/449,849) 2023-03-03

[21] **3,239,654**
[13] A1
[51] **Int.Cl. B60B 17/00 (2006.01)**
[25] EN
[54] **WHEEL FOR RAILWAY VEHICLE**
[54] **ROUE POUR VEHICULE FERROVIAIRE**
[72] UENISHI, AYUMI, JP
[72] KATO, TAKANORI, JP
[72] YAMAMURA, YOSHINARI, JP
[72] ABE, SHINGO, JP
[72] NOGUCHI, JUN, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2024-05-30
[86] 2022-09-06 (PCT/JP2022/033349)
[87] (WO2023/139835)
[30] JP (2022-007419) 2022-01-20

[21] **3,240,028**
[13] A1
[51] **Int.Cl. B09C 1/00 (2006.01)**
[25] EN
[54] **ADSORBENT MATERIALS FOR MINERAL SOILS**
[54] **MATERIAUX ADSORBANTS POUR SOLS MINERAUX**
[72] KISCHKEWITZ, JURGEN, DE
[72] SCHLEGEL, ANDREAS, DE
[72] SIEMENS, JAN, DE
[72] WAGNER, ANNE, DE
[72] KAUPENJOHANN, MARTIN, DE
[71] LANXESS DEUTSCHLAND GMBH, DE
[85] 2024-05-29
[86] 2022-11-25 (PCT/EP2022/083311)
[87] (WO2023/094608)
[30] EP (21210540.7) 2021-11-25

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[13] A1
[51] **Int.Cl. F24F 5/00 (2006.01) F25D 31/00 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **PARALLEL HEAT EXCHANGER FOR DATA CENTER COOLING**
[54] **ECHANGEUR DE CHALEUR PARALLELE POUR REFROIDISSEMENT DE CENTRE DE CALCUL**
[72] GE, GAOMING, CA
[72] GERBER, MANFRED, CA
[71] NORTEK AIR SOLUTIONS CANADA, INC., CA
[85] 2024-05-24
[86] 2021-11-24 (PCT/CA2021/051672)
[87] (WO2023/092213)

[21] **3,240,094**
[13] A1
[51] **Int.Cl. G01N 33/48 (2006.01) G01N 1/28 (2006.01) G01N 1/34 (2006.01) G01N 1/40 (2006.01)**
[25] EN
[54] **QUALITY CONTROL MATERIALS FOR CARDIAC TROPONIN TESTING**
[54] **SUBSTANCES DE CONTROLE QUALITE POUR CHAMP D'ANALYSE DE TROPONINE CARDIAQUE**
[72] KAVSAK, PETER, CA
[72] CLARK, LORNA, CA
[71] MCMASTER UNIVERSITY, CA
[85] 2024-05-24
[86] 2022-11-25 (PCT/CA2022/051733)
[87] (WO2023/092234)
[30] US (63/283,366) 2021-11-26

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[13] A1
[51] **Int.Cl. H01M 50/291 (2021.01) H01M 10/64 (2014.01) H01M 10/653 (2014.01) H01M 50/242 (2021.01)**
[25] EN
[54] **BATTERY ASSEMBLY AND METHOD FOR ASSEMBLING A BATTERY ASSEMBLY**
[54] **ENSEMBLE BATTERIE ET PROCEDE D'ASSEMBLAGE D'UN ENSEMBLE BATTERIE**
[72] MELANCON, STEPHANE, CA
[72] VEILLEUX, CATHERINE, CA
[72] DESCHENES, JEAN-MICHAEL, CA
[72] FRASER, ALEX, CA
[71] LASERAX INC., CA
[85] 2024-05-24
[86] 2022-11-29 (PCT/CA2022/051741)
[87] (WO2023/092240)
[30] US (63/283,680) 2021-11-29

[21] **3,240,099**
[13] A1
[51] **Int.Cl. H04B 7/10 (2017.01)**
[25] EN
[54] **POLARIZATION SYNTHESIS FOR WIRELESS COMMUNICATION SYSTEMS**
[54] **SYNTHESE DE POLARISATION POUR SYSTEMES DE COMMUNICATION SANS FIL**
[72] CAO, WEI, CN
[72] ZHANG, NAN, CN
[72] HU, LINXI, CN
[72] CUI, FANGYU, CN
[71] ZTE CORPORATION, CN
[85] 2024-05-24
[86] 2022-03-23 (PCT/CN2022/082469)
[87] (WO2023/178549)

[21] **3,240,101**
[13] A1
[51] **Int.Cl. A61K 31/5517 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NOVEL USE OF KINASE INHIBITOR**
[54] **NOUVELLE APPLICATION D'INHIBITEUR DE KINASE**
[72] PENG, PENG, CN
[72] SUN, CAIXIA, CN
[71] TRANSTHERA SCIENCES (NANJING), INC., CN
[85] 2024-05-24
[86] 2022-11-28 (PCT/CN2022/134614)
[87] (WO2023/093878)
[30] CN (202111426502.7) 2021-11-27

[21] **3,240,103**
[13] A1
[51] **Int.Cl. B60T 13/66 (2006.01) B60T 7/12 (2006.01) B60T 13/68 (2006.01) B60T 17/22 (2006.01) B60T 13/26 (2006.01) B60T 15/04 (2006.01)**
[25] EN
[54] **AN APPARATUS AND METHOD FOR CONTROLLING RELEASE OF A PARKING BRAKE**
[54] **APPAREIL ET PROCEDE POUR COMMANDER LA LIBERATION D'UN FREIN DE STATIONNEMENT**
[72] MENDIS, MEVILTAN, US
[72] HUTCHINS, CHRISTOPHER H., US
[72] JUNDI, KHALED, US
[72] MOKASHI, NIKET, US
[72] PARAKLAR, PINAK, US
[71] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US
[71] MENDIS, MEVILTAN, US
[71] HUTCHINS, CHRISTOPHER H., US
[71] JUNDI, KHALED, US
[71] MOKASHI, NIKET, US
[71] PARAKLAR, PINAK, US
[85] 2024-05-24
[86] 2022-07-08 (PCT/US2022/036440)
[87] (WO2023/101723)
[30] IN (202111055479) 2021-11-30

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[13] A1
[51] **Int.Cl. G08G 1/0968 (2006.01) G08G 1/01 (2006.01) G08G 1/0967 (2006.01)**
[25] EN
[54] **SYSTEM FOR OFFSITE NAVIGATION**
[54] **SYSTEME DE NAVIGATION HORS SITE**
[72] GUPTA, SOUMYA, US
[72] PANG, JOHN Z., SG
[72] KONCHENKO, ANDREY, US
[72] BURTON, ERIK, US
[72] BHUSARI, MUGDHA, US
[72] CELAYA GALVAN, JOSE R., US
[72] ALANIZ, IVAN JOEL, US
[72] CHATAR, CRISPIN, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-05-24
[86] 2022-11-17 (PCT/US2022/050178)
[87] (WO2023/096808)
[30] US (17/535,236) 2021-11-24

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[13] A1
[51] **Int.Cl. G08B 29/02 (2006.01) G08B 29/16 (2006.01) G08B 13/19 (2006.01) G08B 21/02 (2006.01)**
[25] EN
[54] **INTRUSION DETECTION SYSTEM**
[54] **SYSTEME DE DETECTION D'INTRUSION**
[72] BRANDFASS, ADAM, US
[72] KELLY, MICHAEL, US
[71] ALARM.COM INCORPORATED, US
[85] 2024-05-24
[86] 2022-11-17 (PCT/US2022/050233)
[87] (WO2023/101824)
[30] US (63/284,824) 2021-12-01
[30] US (17/988,166) 2022-11-16

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[13] A1
[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/395 (2006.01) A61K 31/40 (2006.01) A61K 31/407 (2006.01)**
[25] EN
[54] **POLYMORPHIC AND SALT FORMS OF (1S,3S)-N1-(5-(PENTAN-3-YL)PYRAZOLO[1,5-A]PYRIMIDIN-7-YL)CYCLOPENTANE-1,3-DIAMINE**
[54] **FORMES POLYMORPHES ET SALINES DE (1S,3S))-N1-(5-(PENTAN-3-YL)PYRAZOLO[1,5-A]PYRIMIDIN-7-YL)CYCLOPENTANE-1,3-DIAMINE**
[72] PHIASIVONGSA, PASIT, US
[72] ZHANG, XINNAN, US
[72] YEH, GEOFFREY, US
[72] STEENDAM, RENE, US
[72] FREEMAN, DAVID, US
[72] PRONIUK, STEFAN, US
[72] PAUL, BERNHARD, US
[71] KRONOS BIO, INC., US
[85] 2024-05-24
[86] 2022-11-22 (PCT/US2022/050763)
[87] (WO2023/096922)
[30] US (63/283,073) 2021-11-24

[21] **3,240,118**
[13] A1
[51] **Int.Cl. A01K 61/13 (2017.01)**
[25] EN
[54] **DEVICE FOR REDUCING EXTERIOR PARASITES ON FISH**
[54] **DISPOSITIF POUR REDUIRE LES PARASITES EXTERIEURS SUR LES POISSONS**
[72] JOHILDARSON, GUNNAR, DK
[71] SFI SYSTEM APS, DK
[85] 2024-05-24
[86] 2021-12-06 (PCT/EP2021/084403)
[87] (WO2023/104282)

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[13] A1
[51] **Int.Cl. C07C 67/08 (2006.01) C07C 67/54 (2006.01) C07C 69/54 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING 2-OCTYL (METH)ACRYLATE**
[54] **PROCEDE DE PRODUCTION DE (METH)ACRYLATE DE 2-OCTYLE**
[72] MISSKE, ANDREA, DE
[72] LANG, ORTMUND, DE
[72] DECKERT, PETRA, DE
[72] DE RUITER, CORNELIS HENDRICUS, DE
[72] AKIN, AYKAN, CN
[72] KORPJUHN, FRANK, DE
[72] FLECKENSTEIN, CHRISTOPH, DE
[72] FLEISCHHAKER, FRIEDERIKE, DE
[72] EICHHORN, SABINE, DE
[71] BASF SE, DE
[85] 2024-05-24
[86] 2022-11-14 (PCT/EP2022/081719)
[87] (WO2023/094190)
[30] EP (21210376.6) 2021-11-25

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[13] A1
[51] **Int.Cl. G06T 7/80 (2017.01) G06T 7/10 (2017.01)**
[25] EN
[54] **CALIBRATING A CAMERA FOR MAPPING IMAGE PIXELS TO GRID POINTS IN A STORAGE SYSTEM**
[54] **ETALONNAGE D'UNE CAMERA POUR LA MISE EN CORRESPONDANCE DE PIXELS D'IMAGE AVEC DES POINTS DE GRILLE DANS UN SYSTEME DE RANGEMENT**
[72] CUI, XIAOKAI, GB
[72] PEARMAN, CHRISTOPHER, GB
[72] SCHUCHART, JONATHAN, GB
[71] OCADO INNOVATION LIMITED, GB
[85] 2024-05-24
[86] 2022-11-25 (PCT/EP2022/083366)
[87] (WO2023/094635)
[30] GB (2117102.0) 2021-11-26

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[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/70 (2006.01) A61M 5/32 (2006.01) A61M 37/00 (2006.01)**
[25] EN
[54] **ORAL MICRONEEDLE PATCH**
[54] **TIMBRE ORAL A MICRO-AIGUILLES**
[72] MULLER, MARKUS, DE
[72] SCHLUTER, ANNA, DE
[72] LINN, MICHAEL, DE
[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE
[85] 2024-05-24
[86] 2022-11-25 (PCT/EP2022/083371)
[87] (WO2023/094637)
[30] DE (10 2021 130 954.9) 2021-11-25

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[13] A1
[51] **Int.Cl. C07H 15/12 (2006.01) A61P 25/28 (2006.01)**
[25] FR
[54] **INHIBITORS OF ABNORMAL PHOSPHORYLATION AND TAU PROTEIN AGGREGATION**
[54] **INHIBITEURS DE LA PHOSPHORYLATION ANORMALE ET DE L'AGREGATION DE LA PROTEINE TAU**
[72] WADOUACHI, ANNE, FR
[72] PAPY GARCIA, DULCE, FR
[72] POURCEAU, GWLADYS, FR
[72] CHANTEPIE, SANDRINE, FR
[71] UNIVERSITE DE PICARDIE JULES VERNE, FR
[71] UNIVERSITE PARIS EST CRETEIL VAL DE MARNE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
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[25] EN
[54] **A FORMULATION FOR AN EFFECTIVE ORAL ADMINISTRATION OF CICLOPIROX WITH NO ADVERSAL GASTEROINTESTINAL TOXICITY**
[54] **FORMULATION POUR UNE ADMINISTRATION ORALE EFFICACE DE CICLOPIROX SANS TOXICITE GASTRO-INTESTINALE INDESIRABLE**
[72] MILLET AGUILAR-GALINDO, OSCAR, ES
[72] CASTILLA CASTRILLON, JOAQUIN, ES
[72] BERNARDO-SEISDEDOS, GANEKO, ES
[72] MORENO CHARCO, JORGE, ES
[71] ATLAS MOLECULAR PHARMA, S.L., ES
[71] ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCIENCIAS-CIC BIOGUNE, ES
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[86] 2022-12-09 (PCT/EP2022/085126)
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[25] EN
[54] **COMMUNICATIONS FRAMEWORK FOR PROCESS OPERATIONS ENVIRONMENT**
[54] **STRUCTURE DE COMMUNICATION POUR ENVIRONNEMENT D'OPERATIONS DE PROCESSUS**
[72] KUMAR, KUNAL, US
[72] PODDAR, SNEHA, US
[72] ROSSI, MARCUS UNGARETTI, US
[72] BOOTH, RICHARD, US
[72] GANGU, VARSHA, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-05-24
[86] 2022-11-28 (PCT/US2022/051043)
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[51] **Int.Cl. G01N 9/36 (2006.01)**
[25] EN
[54] **HIGH-THROUGHPUT AND HIGH-PRECISION MEASUREMENT OF SINGLE-CELL DENSITY**
[54] **MESURE A HAUT DEBIT ET HAUTE PRECISION D'UNE DENSITE D'UNE MONOCELLULE**
[72] MANALIS, SCOTT R., US
[72] WU, WEIDA, US
[72] MIETTINEN, TEEMU PETTERI, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2024-05-24
[86] 2022-12-01 (PCT/US2022/051503)
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[25] EN
[54] **A SOLID FIREFIGHTING PREFORM, A METHOD IN AERIAL FIREFIGHTING, AND AN AERIAL FIREFIGHTING VEHICLE**
[54] **PREFORME SOLIDE DE LUTTE CONTRE LES INCENDIES, PROCEDE DE LUTTE CONTRE LES INCENDIES AERIEN ET VEHICULE DE LUTTE CONTRE LES INCENDIES AERIEN**
[72] LICHTENTHAL, VLAD STEFAN, FI
[72] SGOBBA, NICOLO, FI
[72] CARBONE, WILLIAM, FI
[71] THE ADJACENT POSSIBLE OY, FI
[85] 2024-05-24
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[25] EN
[54] **WATERCRAFT SYSTEM**
[54] **SYSTEME D'EMBARCATION**
[72] CLABBURN, LAWRENCE EDWARD, GB
[72] SCHOLES, DEREK FREDERICK (DECEASED), GB
[72] RITCHIE, DAVID CHARLES ALEXANDER, GB
[71] BAE SYSTEMS PLC, GB
[85] 2024-05-24
[86] 2022-11-23 (PCT/GB2022/052964)
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[30] GB (2117020.4) 2021-11-25

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[25] EN
[54] **NOVEL HDAC INHIBITORS AND THERAPEUTIC USE THEREOF**
[54] **NOUVEAUX INHIBITEURS DE HDAC ET LEUR UTILISATION THERAPEUTIQUE**
[72] MAXWELL, JOHN P., US
[72] WU, XINYUAN, US
[72] GUERIN, DAVID, US
[71] TANGO THERAPEUTICS, INC., US
[85] 2024-05-24
[86] 2022-12-02 (PCT/US2022/051616)
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[30] US (63/285,558) 2021-12-03

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[51] **Int.Cl. C12N 5/0789 (2010.01) A61K 35/28 (2015.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR GENERATING HUMAN ERYTHROID PROGENITOR CELLS**
[54] **PROCEDES ET COMPOSITIONS POUR GENERER DES CELLULES PROGENITRICES ERYTHROIDES HUMAINES**
[72] UELTSCHY, ANGELICA, US
[71] TRAILHEAD BIOSYSTEMS INC., US
[85] 2024-05-24
[86] 2022-12-06 (PCT/US2022/051992)
[87] (WO2023/107477)
[30] US (63/287,372) 2021-12-08

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[51] **Int.Cl. B05B 1/08 (2006.01) A61H 33/00 (2006.01)**
[25] EN
[54] **MULTI-STAGE FLUIDIC OSCILLATOR WITH VARIABLE FREQUENCY ASSEMBLY**
[54] **OSCILLATEUR FLUIDIQUE MULTI-ETAGES AVEC ENSEMBLE A FREQUENCE VARIABLE**
[72] BERNSTEIN, SAMUEL, US
[71] DLHBOWLES, INC., US
[85] 2024-05-24
[86] 2022-12-07 (PCT/US2022/052126)
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[54] **PROCESS AND APPARATUS FOR SHAPING A BOX BY WRAPPING AROUND**
[54] **APPAREIL ET PROCEDE DE MISE EN FORME D'UNE BOITE PAR ENVELOPPEMENT**
[72] BIONDI, ANDREA, IT
[72] CAVAZZA, LUCA, IT
[72] CAMPAGNOLI, ENRICO, IT
[71] R.A JONES & CO., US
[85] 2024-05-24
[86] 2022-11-22 (PCT/IB2022/061298)
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[25] EN
[54] **IMPLANTABLE ELECTRICAL LEADS AND ASSOCIATED DELIVERY AND CONTROL SYSTEMS**
[54] **FILS ELECTRIQUES IMPLANTABLES ET SYSTEMES D'ADMINISTRATION ET DE COMMANDE ASSOCIES**
[72] SANGHERA, RICK, US
[72] ROLLINS, MATTHEW, US
[72] VEETEKAT, RAHUL, US
[72] ERICKSON, STERLING, US
[72] FREUND, JONATHAN, US
[72] CADAVONA, BRENT, US
[71] ATACOR MEDICAL, INC., US
[85] 2024-05-24
[86] 2022-11-23 (PCT/IB2022/061358)
[87] (WO2023/095036)
[30] US (63/283,103) 2021-11-24
[30] US (63/395,281) 2022-08-04

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[25] EN
[54] **GENERATING AN ABOVE GROUND BIOMASS DENSITY PREDICTION MODEL**
[54] **GENERATION D'UN MODELE DE PREDICTION DE DENSITE DE BIOMASSE AERIENNE SELON LA DIVULGATION**
[72] SHENDRYK, YURI, AU
[71] DENDRA SYSTEMS LTD., GB
[85] 2024-05-24
[86] 2022-11-24 (PCT/IB2022/061362)
[87] (WO2023/095039)
[30] US (63/264,569) 2021-11-24
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[25] EN
[54] **GROWTH INHIBITOR OF METASTATIC HUMAN PROSTATE CANCER CELLS**
[54] **INHIBITEUR DE CROISSANCE DE CELLULES DU CANCER DE LA PROSTATE METASTATIQUE CHEZ L'HOMME**
[72] WATANABE, MITSUGU, JP
[71] WATANABE OYSTER LABORATORY, CO., LTD., JP
[85] 2024-05-24
[86] 2022-01-20 (PCT/JP2022/001971)
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[54] **NON-AQUEOUS ELECTROLYTE AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME**
[54] **ELECTROLYTE NON AQUEUX ET BATTERIE SECONDAIRE AU LITHIUM LE COMPRENANT**
[72] LEE, KYUNG MI, KR
[72] LEE, CHUL HAENG, KR
[72] LEE, JUNG MIN, KR
[72] JI, SU HYEON, KR
[72] YEOM, CHUL EUN, KR
[72] CHO, YOON GYO, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-05-24
[86] 2023-08-03 (PCT/KR2023/011447)
[87] (WO2024/029973)
[30] KR (10-2022-0097613) 2022-08-04
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[51] **Int.Cl. B60L 53/12 (2019.01) H02J 50/10 (2016.01) H02J 50/40 (2016.01) B60L 53/80 (2019.01)**
[25] EN
[54] **CONTACTLESS SWAPPABLE BATTERY SYSTEM**
[54] **SYSTEME DE BATTERIE POUVANT ETRE PERMUTEE SANS CONTACT**
[72] DAGA, ANDREW W., US
[72] MCMAHON, FRANCIS J., US
[72] WARD, MATTHEW L., US
[71] INDUCTEV, INC., US
[85] 2024-05-24
[86] 2022-12-07 (PCT/US2022/052189)
[87] (WO2023/107587)
[30] US (63/265,084) 2021-12-07

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[51] **Int.Cl. B60L 53/302 (2019.01) H02J 50/80 (2016.01) B60L 53/30 (2019.01)**
[25] EN
[54] **AIR COOLED SUBSURFACE VAULT FOR WIRELESS POWER TRANSFER SYSTEMS**
[54] **VOUTE SOUTERRAINE REFROIDIE PAR AIR POUR SYSTEMES DE TRANSFERT D'ENERGIE SANS FIL**
[72] DAGA, ANDREW W., US
[71] INDUCTEV, INC., US
[85] 2024-05-24
[86] 2022-12-14 (PCT/US2022/052901)
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[51] **Int.Cl. G06Q 10/30 (2023.01) G07F 7/06 (2006.01) G06Q 20/18 (2012.01) G06Q 20/20 (2012.01) G06Q 30/02 (2023.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR SOURCING AND PROCESSING RECYCLABLE MATERIALS**
[54] **SYSTEME ET PROCEDES D'APPROVISIONNEMENT ET DE TRAITEMENT DE MATERIAUX RECYCLABLES**
[72] SALTZMAN, JONAH E., US
[72] NARO, MARTIN L., US
[72] SADICK, SHAZAD, US
[71] EVTEK INC., US
[85] 2024-05-24
[86] 2022-12-20 (PCT/US2022/053461)
[87] (WO2023/122059)
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[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/05 (2006.01)**
[25] EN
[54] **OCCIPITAL NERVE STIMULATION FOR TREATMENT OF PAIN**
[54] **STIMULATION DU NERF OCCIPITAL POUR LE TRAITEMENT DE LA DOULEUR**
[72] BOGGS, JOSEPH W., II, US
[72] CROSBY, NATHAN D., US
[72] WONGSARNPIGOON, AMORN, US
[72] ZURN, CLAIRE, US
[72] DEBOCK, MATTHEW G., US
[72] MCGEE, MEREDITH J., US
[72] STROTHER, ROBERT B., US
[71] SPR THERAPEUTICS, INC., US
[85] 2024-05-24
[86] 2022-12-23 (PCT/US2022/053922)
[87] (WO2023/122324)
[30] US (63/293,123) 2021-12-23
[30] US (63/346,382) 2022-05-27
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[25] EN
[54] **COMPLEMENT FACTOR B-MODULATING COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS DE MODULATION DU FACTEUR B DU COMPLEMENT ET LEURS PROCEDES D'UTILISATION**
[72] LI, ZHEN, US
[72] ZHU, RUI, US
[72] ZHOU, ZHIQING (JOEL), US
[72] STUDER, SEAN, US
[72] FULTZ, KIMBERLY, US
[72] CORREIA, JEAN DA SILVA, US
[71] ADARX PHARMACEUTICALS, INC., US
[85] 2024-05-24
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[87] (WO2023/097291)
[30] US (63/283,177) 2021-11-24
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[25] EN
[54] **APPARATUSES AND METHODS FOR CYTOPATHOLOGICAL STAINING**
[54] **APPAREILS ET METHODES DE COLORATION CYTOPATHOLOGIQUE**
[72] CHU, WENJIANG, US
[72] WANG, DANHUA, US
[71] CYTOBAY INC., US
[85] 2024-05-24
[86] 2022-11-30 (PCT/US2022/080638)
[87] (WO2023/107839)
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[51] **Int.Cl. C04B 2/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR USING HEAT PRODUCED FROM ACID GENERATION**
[54] **SYSTEMES ET PROCEDES D'UTILISATION DE CHALEUR PRODUITE A PARTIR DE LA GENERATION D'ACIDE**
[72] BENCK, JESSE D., US
[72] CHIANG, YET-MING, US
[72] CORBETT, MICHAEL, US
[72] DOMINGUEZ, KYLE, US
[72] ELLIS, LEAH D., US
[72] JAFARI, KHASHAYAR, US
[72] LAYUROVA, MARIYA, US
[71] SUBLIME SYSTEMS, INC., US
[85] 2024-05-24
[86] 2022-12-08 (PCT/US2022/081160)
[87] (WO2023/108054)
[30] US (63/287,293) 2021-12-08

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[51] **Int.Cl. C08C 19/22 (2006.01) C08C 19/30 (2006.01)**
[25] EN
[54] **SILANE FUNCTIONAL AMINE COMPOSITIONS AND THEIR USE IN RUBBER**
[54] **COMPOSITIONS D'AMINE FONCTIONNELLE SILANE ET LEUR UTILISATION DANS DU CAOUTCHOUC**
[72] PINNOW, MATTHEW J., US
[72] ADEPETUN, ADEYEMI A., US
[72] CRUSE, RICHARD W., US
[72] HWANG, LESLEY, US
[72] WINCHESTER, NANCY, US
[72] VECERE, LINDA, US
[72] ZHU, YANJUN, US
[71] MOMENTIVE PERFORMANCE MATERIALS INC., US
[85] 2024-05-24
[86] 2022-12-09 (PCT/US2022/081281)
[87] (WO2023/108128)
[30] US (63/288,325) 2021-12-10

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[51] **Int.Cl. C12N 15/00 (2006.01) C12N 9/08 (2006.01) C12N 15/67 (2006.01)**
[25] EN
[54] **PRODUCTS AND METHODS FOR HETEROLOGOUS EXPRESSION OF PROTEINS IN A HOST CELL**
[54] **PRODUITS ET PROCEDES D'EXPRESSION HETEROLOGUE DE PROTEINES DANS UNE CELLULE HOTE**
[72] GANDER, MILES, US
[72] DOERNER, AMY E., US
[72] RISSO, CARLA, US
[72] HANNUM, GREGORY, US
[72] SCHWARTZ, ARIEL, US
[71] ABSCI CORPORATION, US
[85] 2024-05-24
[86] 2022-12-13 (PCT/US2022/081429)
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[51] **Int.Cl. G06Q 50/12 (2012.01) B67D 7/14 (2010.01) G06Q 20/18 (2012.01) G06Q 20/20 (2012.01) G06Q 30/06 (2023.01) H04M 1/72415 (2021.01) H04L 67/02 (2022.01) H04L 67/125 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DATA TUNNELING IN ORDER FULFILLMENT**
[54] **SYSTEME ET PROCEDE DE TUNNELLISATION DE DONNEES DANS LE TRAITEMENT D'UNE COMMANDE**
[72] GNIEWEK, GREG, US
[72] VOGT, DAVID, US
[71] THE COCA-COLA COMPANY, US
[85] 2024-05-24
[86] 2023-01-30 (PCT/US2023/011844)
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[51] **Int.Cl. E04D 1/12 (2006.01) E04D 1/14 (2006.01) E04D 1/20 (2006.01) E04D 1/34 (2006.01) E04D 12/00 (2006.01)**
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[54] **ROOFING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE TOITURE**
[72] WHITRIDGE, FREDERICK W., US
[72] PREHODA, PHILIP C., US
[72] COLLARD, THOMAS J., US
[72] WARD, CHARLES, US
[71] MILLENNIUM SLATE, LLC, US
[85] 2024-05-24
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[30] US (17/708,191) 2022-03-30

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[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 11/06 (2006.01)**
[25] EN
[54] **METHODS OF TREATING ASTHMA WITH ANTI-LIGHT ANTIBODIES**
[54] **METHODES DE TRAITEMENT DE L'ASTHME AVEC DES ANTICORPS ANTI-LIGHT**
[72] NEIL, GARRY A., US
[72] WILKINS, H. JEFFREY, US
[72] CARRINGTON, SHERIDAN J., US
[71] AVALO THERAPEUTICS, INC., US
[85] 2024-05-24
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[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] FR
[54] **METHOD FOR DETERMINING THE AMOUNT OF DIRT ON A ROADWAY**
[54] **PROCEDE DE DETERMINATION D'UN NIVEAU DE SALISSURE D'UNE CHAUSSEE**
[72] MAREUGE, LAURENT, FR
[72] TARALLE, FLORENT, FR
[72] SOMMERLAT, FREDERIC, FR
[71] UBY, FR
[71] WASSA, FR
[85] 2024-05-27
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[13] A1
[51] **Int.Cl. A01D 43/06 (2006.01) A01D 87/00 (2006.01)**
[25] EN
[54] **PICK-UP ATTACHMENT FOR A HARVESTING MACHINE**
[54] **ACCESSOIRE DE RAMASSAGE POUR UNE MOISSONNEUSE**
[72] HEMMESMANN, ANDRE, DE
[72] LEUDERALBERT-BOWE, ANDREAS, DE
[72] TIESSEN, REIMER UWE, DE
[72] STRUNK, HOLGER, DE
[72] SCHWARTZ, CRISTIANO, DE
[71] CARL GERINGHOFF GMBH & CO. KOMMANDITGESELLSCHAFT, DE
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[30] DE (10 2021 134 284.8) 2021-12-22

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[51] **Int.Cl. C09D 4/00 (2006.01) C09D 7/20 (2018.01) C09D 7/61 (2018.01) C09D 5/10 (2006.01) C08K 3/22 (2006.01) C08K 3/32 (2006.01)**
[25] FR
[54] **ANTI-CORROSION COATING**
[54] **REVETEMENT ANTICORROSION**
[72] VALEYRE, OLIVIER, FR
[72] FAYOLLE, MICHAEL, FR
[72] MILLET, BENOIT, FR
[72] MOREL, DAVID, FR
[72] NEUVY, MORGANE, FR
[72] KERVEILLANT, STEVEN, FR
[71] NOF METAL COATINGS EUROPE, FR
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[87] (WO2023/118042)
[30] FR (FR2114189) 2021-12-21

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[54] **PROCESS FOR PREPARING HYDRAZINE HYDRATE IN THE PRESENCE OF AN ANTI-FOAMING AGENT**
[54] **PROCEDE DE PREPARATION D'HYDRATE D'HYDRAZINE EN PRESENCE D'UN AGENT ANTI-MOUSSE**
[72] SAGE, JEAN-MARC, FR
[72] ACHARD, EMMANUEL, FR
[71] ARKEMA FRANCE, FR
[85] 2024-06-12
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[51] **Int.Cl. G01S 15/89 (2006.01) F16L 55/26 (2006.01) F16L 55/28 (2006.01)**
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[54] **APPARATUS, SYSTEMS AND METHODS FOR PIPELINE CONDITION ASSESSMENT**
[54] **APPAREIL, SYSTEMES ET PROCEDES D'EVALUATION DE L'ETAT D'UN PIPELINE**
[72] WU, ANGIE, CA
[72] ZHANG, HONGWEI, CA
[72] LIU, LEO, CA
[72] KWAN, JEFFREY CHAK-FAI, CA
[71] PURE TECHNOLOGIES LTD., CA
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[51] **Int.Cl. E02D 5/06 (2006.01) E02D 5/08 (2006.01)**
[25] EN
[54] **SHEET PILE MODULE AND SHEET PILE WALL MADE FROM SHEET PILE MODULES**
[54] **MODULE DE PALPLANCHE ET PAROI EN PALPLANCHE COMPRENANT DES MODULES DE PALPLANCHE**
[72] WENDT, ROBERTO REDONDO, ES
[71] PILEPRO GMBH, DE
[85] 2024-05-29
[86] 2022-05-04 (PCT/EP2022/062036)
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[30] DE (20 2021 106 555.9) 2021-12-01

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[25] EN
[54] **HIGH FREQUENCY WELDABLE POLYOLEFIN COMPOSITION**
[54] **COMPOSITION DE POLYOLEFINE SOUDABLE A HAUTE FREQUENCE**
[72] DEFOER, JOHAN, BE
[71] BOREALIS AG, AT
[85] 2024-05-29
[86] 2022-11-24 (PCT/EP2022/083080)
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[54] **(1,4,5-TRISUBSTITUTED 1H-PYRAZOLE-3-YL)OXY-2-ALKYLTHIOALKYL ACIDS AND -ALKYL ACID DERIVATIVES, SALTS THEREOF AND USE THEREOF AS ACTIVE HERBICIDAL INGREDIENTS**
[54] **ACIDES (1,4,5-TRISUBSTITUES-1H-PYRAZOLE-3-YL)OXY-2-ALCOXY ALKYLE ET LEURS DERIVES, LEURS SELS ET LEUR UTILISATION COMME AGENTS ACTIFS HERBICIDES**
[72] BUSCATO, ESTELLA, DE
[72] MULLER, THOMAS, DE
[72] JAKOBI, HARALD, DE
[72] HELMKE, HENDRIK, DE
[72] BOLLENBACH-WAHL, BIRGIT, DE
[72] BOJACK, GUIDO, DE
[72] GATZWEILER, ELMAR, DE
[72] ASMUS, ELISABETH, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
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[25] EN
[54] **CONTROLLING MULTICOMPUTER INTERACTION WITH DEEP LEARNING AND ARTIFICIAL INTELLIGENCE**
[54] **COMMANDE D'INTERACTION MULTIORDINATEUR AVEC APPRENTISSAGE PROFOND ET INTELLIGENCE ARTIFICIELLE**
[72] TATE, AARON M., US
[72] JOHNSON, MARIA T., US
[72] BOUGUYON, KAMIN L., US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
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[51] **Int.Cl. E01C 11/26 (2006.01)**
[25] EN
[54] **A TRANSPORT SURFACE REINFORCEMENT SYSTEM**
[54] **SYSTEME DE RENFORCEMENT DE SURFACE DE TRANSPORT**
[72] HANSEN, JACOB MOLDRUP, CH
[72] OLSEN, KLAVS, CH
[71] S&P CLEVER REINFORCEMENT COMPANY AG, CH
[85] 2024-05-29
[86] 2022-11-29 (PCT/EP2022/083702)
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[51] **Int.Cl. A61K 38/53 (2006.01) C07K 7/08 (2006.01)**
[25] EN
[54] **THERAPEUTICAL PEPTIDOMIMETIC**
[54] **PEPTIDOMIMETIQUE THERAPEUTIQUE**
[72] D'AMATI, GIULIA, IT
[72] MOREA, VERONICA, IT
[72] PISANO, ANNALINDA, IT
[72] PERLI, ELENA, IT
[72] PIGNATARO, MARIA GEMMA, IT
[71] UNIVERSITA' DEGLI STUDI DI ROMA "LA SAPIENZA", IT
[71] CONSIGLIO NAZIONALE DELLE RICERCHE, IT
[71] ASSOCIATION FRANCAISE CONTRE LES MYOPATHIES ? AFM-TELETHON, FR
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[86] 2022-12-16 (PCT/IB2022/062354)
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[51] **Int.Cl. C12P 7/10 (2006.01) C12P 19/02 (2006.01) C12P 19/14 (2006.01)**
[25] EN
[54] **PRODUCTION OF CLEAN STARCH HYDROLYSATES**
[54] **PRODUCTION D'HYDROLYSATS D'AMIDON PROPRES**
[72] CHRISTENSEN, ROBERT I., US
[72] SHETTY, JAYARAMA K., US
[71] DANISCO US INC., US
[85] 2024-06-13
[86] 2022-12-16 (PCT/US2022/081777)
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[25] EN
[54] **ANNULATED 2-AMINO-3-CYANO THIOPHENES AND DERIVATIVES FOR THE TREATMENT OF CANCER**
[54] **2-AMINO-3-CYANO THIOPHENES ANNELES ET LEURS DERIVES POUR LE TRAITEMENT DU CANCER**
[72] BROEKER, JOACHIM, DE
[72] ABBOTT, JASON, US
[72] CUI, JIANWEN, US
[72] FESIK, STEPHEN W., US
[72] FUCHS, JULIAN, DE
[72] GOLLNER, ANDREAS, DE
[72] HERDEIS, LORENZ, DE
[72] HODGES, TIM, US
[72] LITTLE, ANDREW, US
[72] MANTOULIDIS, ANDREAS, DE
[72] PHAN, JASON, US
[72] RAMHARTER, JUERGEN, DE
[72] SARKAR, DHRUBA, US
[72] STADTMUELLER, HEINZ, DE
[72] SUN, QI, US
[72] TREU, MATTHIAS, DE
[72] WATERSON, ALEX, US
[72] WILDING, BIRGIT, DE
[72] WUNBERG, TOBIAS, DE
[72] SMETHURST, CHRISTIAN ALAN PAUL (DECEASED), US
[72] SOKOL, KEVIN, DE
[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE
[71] VANDERBILT UNIVERSITY, US
[85] 2024-05-29
[86] 2022-11-30 (PCT/EP2022/083954)
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[30] US (63/284,754) 2021-12-01
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[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) C07K 7/02 (2006.01) C07K 7/08 (2006.01)**
[25] EN
[54] **PEPTIDE INHIBITORS OF INTERLEUKIN-23 RECEPTOR**
[54] **INHIBITEURS PEPTIDIQUES DU RECEPTEUR DE L'INTERLEUKINE-23**
[72] MUNCH, HENRIK FISCHER, DK
[72] HOLM, NIELS BJERRE, DK
[72] LETH, RASMUS, DK
[72] LARSEN, BJARNE DUE, DK
[72] MATHIESEN, JESPER MOSOLFF, DK
[72] CALDARARU, OCTAV, DK
[71] ZEALAND PHARMA A/S, DK
[85] 2024-05-29
[86] 2022-12-01 (PCT/EP2022/084077)
[87] (WO2023/099669)
[30] EP (21211815.2) 2021-12-01

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[13] A1
[51] **Int.Cl. B29D 11/00 (2006.01)**
[25] EN
[54] **METHODS OF MANUFACTURING AN OPHTHALMIC LENS INCLUDING ASYMMETRIC GRADIENT INDEX OPTICAL ELEMENTS**
[54] **PROCEDES DE FABRICATION D'UNE LENTILLE OPHTALMIQUE COMPRENANT DES ELEMENTS OPTIQUES A INDICE DE GRADIENT ASYMETRIQUE**
[72] CHAMBERLAIN, PAUL, US
[72] SAHA, SOURAV, US
[72] BRADLEY, ARTHUR, US
[71] COOPERVISION INTERNATIONAL LIMITED, GB
[85] 2024-06-13
[86] 2023-10-23 (PCT/GB2023/052763)
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[13] A1
[51] **Int.Cl. E02D 17/08 (2006.01)**
[25] EN
[54] **HYDRAULICALLY OPERABLE TRENCH SHORING APPARATUS AND ITS METHOD OF USE**
[54] **APPAREIL D'ETAYAGE DE TRANCHEE A FONCTIONNEMENT HYDRAULIQUE ET SON PROCEDE D'UTILISATION**
[72] MOLYNEUX, GLENN, GB
[71] AUTOSHORE LTD, GB
[85] 2024-05-29
[86] 2022-12-02 (PCT/GB2022/053061)
[87] (WO2023/099906)
[30] GB (2117532.8) 2021-12-03
[30] GB (2203400.3) 2022-03-11

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[13] A1
[51] **Int.Cl. C07D 333/70 (2006.01) A61K 31/343 (2006.01) A61K 31/352 (2006.01) A61K 31/381 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 9/04 (2006.01) A61P 13/12 (2006.01) C07D 307/85 (2006.01) C07D 409/04 (2006.01)**
[25] EN
[54] **3-PHENYL-1-BENZOTHIOPHENE-2-CARBOXYLIC ACID DERIVATIVES AS BRANCHED-CHAIN ALPHA KETO ACID DEHYDROGENASE KINASE INHIBITORS FOR THE TREATMENT OF DIABETES, KIDNEY DISEASES, NASH AND HEART FAILURE**
[54] **DERIVES D'ACIDE 3-PHENYL-1-BENZOTHIOPHENE-2-CARBOXYLIQUE UTILISES EN TANT QU'INHIBITEURS DE KINASE ALPHA-CETO-ACIDE A CHAINE RAMIFIEE POUR LE TRAITEMENT DU DIABETE, DE MALADIES RE NALES, DE LA SHNA ET DE L'INSUFFISANCE CARDIAQUE**
[72] BUZON, LEANNE MARIE, US
[72] CAMERON, KIMBERLY O'KEEFE, US
[72] DEBOYACE, KEVIN FRANCIS, US
[72] FILIPSKI, KEVIN JAMES, US
[72] GRIFFITH, DAVID ANDREW, US
[72] KORMOS, BETHANY LYN, US
[72] LIU, SHENPING, US
[72] MARTINEZ ALSINA, LUIS ANGEL, US
[72] REESE, MATTHEW RICHARD, US
[72] ROTH FLACH, RACHEL JANE, US
[72] ZHANG, YUAN, US
[71] PFIZER INC., US
[85] 2024-05-29
[86] 2022-11-28 (PCT/IB2022/061495)
[87] (WO2023/100061)
[30] US (63/284,797) 2021-12-01
[30] US (63/383,562) 2022-11-14

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[13] A1
[51] **Int.Cl. G01N 29/024 (2006.01) G01N 13/02 (2006.01) G01N 29/036 (2006.01)**
[25] EN
[54] **AN ANALYTICAL METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL D'ANALYSE**
[72] SHRIVASTAVA, SHAMIT, GB
[71] APOHA LIMITED, GB
[85] 2024-06-13
[86] 2022-12-21 (PCT/GB2022/053350)
[87] (WO2023/118870)

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[13] A1
[51] **Int.Cl. A61K 31/4196 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/565 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CDK4 INHIBITOR FOR THE TREATMENT OF CANCER**
[54] **INHIBITEUR DE CDK4 POUR LE TRAITEMENT DU CANCER**
[72] LIN, TUN TUN, US
[72] YANG, JING, US
[71] PFIZER INC, US
[85] 2024-05-29
[86] 2022-11-29 (PCT/IB2022/061525)
[87] (WO2023/100070)
[30] US (63/285,320) 2021-12-02
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[30] US (63/383,969) 2022-11-16

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[13] A1
[51] **Int.Cl. A01M 21/04 (2006.01) A61L 2/12 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR CONTROLLING PLANTS, PEST AND WEED POPULATIONS IN FROZEN SOIL**
[54] **PROCEDE ET DISPOSITIF DE LUTTE CONTRE LES PLANTES, LES ORGANISMES NUISIBLES ET LES POPULATIONS DE MAUVAISES HERBES DANS LE SOL CONGELE**
[72] ARNOLDUSSEN, CORNELIS, NO
[71] SOIL STEAM INTERNATIONAL AS, NO
[85] 2024-06-13
[86] 2022-12-16 (PCT/EP2022/086453)
[87] (WO2023/111312)
[30] NO (20211538) 2021-12-17

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[13] A1
[51] **Int.Cl. A61K 31/4155 (2006.01) A61K 31/506 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHODS AND DOSING REGIMENS COMPRISING A CDK2 INHIBITOR AND A CDK4 INHIBITOR FOR TREATING CANCER**
[54] **METHODES ET SCHEMAS POSOLOGIQUES COMPRENANT UN INHIBITEUR DE CDK2 ET UN INHIBITEUR DE CDK4 POUR LE TRAITEMENT DU CANCER**
[72] ANDERS, LARS, US
[72] LI, JERRY, US
[72] LIN, TUN TUN, US
[72] VANARSDALE, TODD LEE, US
[72] WEI, PING, US
[72] YANG, JING, US
[71] PFIZER INC, US
[85] 2024-05-29
[86] 2022-12-01 (PCT/IB2022/061652)
[87] (WO2023/100134)
[30] US (63/285,457) 2021-12-02

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[13] A1
[51] **Int.Cl. F03G 4/00 (2006.01) F24T 10/17 (2018.01) F24T 10/30 (2018.01) F24T 50/00 (2018.01)**
[25] EN
[54] **COAXIAL CIRCULATION-TYPE POWER GENERATION DEVICE AND COAXIAL CIRCULATION-TYPE POWER GENERATATION METHOD**
[54] **DISPOSITIF DE PRODUCTION D'ENERGIE A CIRCULATION COAXIALE ET PROCEDE DE PRODUCTION D'ENERGIE A CIRCULATION COAXIALE**
[72] ODAWARA OSAMU, JP
[72] MIYAZAWA YASUO, JP
[71] SCINET COMPANY LTD., JP
[85] 2024-05-29
[86] 2021-12-13 (PCT/JP2021/045816)
[87] (WO2023/112085)

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[13] A1
[51] **Int.Cl. C12N 15/62 (2006.01) A61K 47/68 (2017.01) A61K 31/4745 (2006.01) A61K 39/395 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07K 7/08 (2006.01) C07K 16/18 (2006.01) C07K 19/00 (2006.01) C12N 9/64 (2006.01) C12N 15/13 (2006.01) C12P 21/02 (2006.01) C40B 40/10 (2006.01)**
[25] EN
[54] **PROTEASE-CLEAVABLE MASKED ANTIBODIES**
[54] **ANTICORPS MASQUES CLIVABLES PAR PROTEASE**
[72] KUDO SHOTA, JP
[72] ISHIZUKA MIKIHIRO, JP
[72] KAMEI REIKO, JP
[72] TERAUCHI TOMOKO, JP
[72] SAEKI KAZUNORI, JP
[71] DAIICHI SANKYO COMPANY LIMITED, JP
[85] 2024-05-29
[86] 2022-11-29 (PCT/JP2022/043846)
[87] (WO2023/100829)
[30] JP (2021-194701) 2021-11-30

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[13] A1
[51] **Int.Cl. G01V 1/137 (2006.01)**
[25] EN
[54] **PRESSURE WAVE GENERATOR**
[54] **GENERATEUR D'ONDES DE PRESSION**
[72] RUEGG, HANS, CH
[71] P-WAVE AG, CH
[85] 2024-06-13
[86] 2022-01-13 (PCT/EP2022/050620)
[87] (WO2023/134852)

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[13] A1
[51] **Int.Cl. F01K 3/12 (2006.01) F22B 1/00 (2006.01) F28D 20/00 (2006.01)**
[25] EN
[54] **THERMAL ENERGY STORAGE SYSTEM WITH PARALLEL CONNECTED VESSELS**
[54] **SYSTEME DE STOCKAGE D'ENERGIE THERMIQUE AVEC RECIPIENTS CONNECTES EN PARALLELE**
[72] LYNCH, JONATHAN, US
[72] MCBRIDE, TROY, US
[72] STETTENHEIM, JOEL, US
[72] EDSTROM, PER ERIK KRISTOFFER, US
[72] JOHNSON, LEIF KILKENNY, US
[72] BRAMBLES, OLIVER JAMES, GB
[71] NORWICH TECHNOLOGIES, INC., US
[85] 2024-06-13
[86] 2022-11-07 (PCT/US2022/049161)
[87] (WO2023/113937)
[30] US (17/550,124) 2021-12-14
[30] US (17/550,137) 2021-12-14
[30] US (17/550,144) 2021-12-14
[30] US (17/550,152) 2021-12-14

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[13] A1
[51] **Int.Cl. A61K 47/64 (2017.01) A61B 1/04 (2006.01) A61B 1/05 (2006.01) A61K 49/00 (2006.01) A61N 1/30 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **TUMOR TARGETING PROBE FOR IMAGE GUIDED SURGICAL METHODS**
[54] **SONDE DE CIBLAGE DE TUMEUR POUR METHODES CHIRURGICALES GUIDEES PAR IMAGE**
[72] DAS GUPTA, TAPAS K., US
[72] YAMADA, TOHRU, US
[72] GOTO, MASAHIDE, US
[72] NAFFOUJE, SAMER, US
[71] THE BOARD OF TRUSTEES OF THE UNIVERSITIES OF ILLINOIS, US
[85] 2024-05-29
[86] 2022-11-30 (PCT/US2022/080631)
[87] (WO2023/102409)
[30] US (63/264,732) 2021-12-01

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[13] A1
[51] **Int.Cl. A61B 10/02 (2006.01)**
[25] EN
[54] **MULTI-FACETED BIOPSY NEEDLE TIPS AND NEEDLES, NEEDLE SETS, AND DEVICES INCORPORATING THE SAME**
[54] **POINTES D'AIGUILLE DE BIOPSIE A FACETTES MULTIPLES ET AIGUILLES, ENSEMBLES D'AIGUILLES ET DISPOSITIFS INCORPORANT CELLES-CI**
[72] ZHOU, YI, US
[72] BLOZNALIS, PETER, US
[71] HOLOGIC INC., US
[85] 2024-05-29
[86] 2022-11-30 (PCT/US2022/080633)
[87] (WO2023/102410)
[30] US (63/284,820) 2021-12-01

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[13] A1
[51] **Int.Cl. H02K 1/14 (2006.01) H02K 1/16 (2006.01)**
[25] EN
[54] **STRIP-SHAPED STATOR CORE STRUCTURE, STATOR ASSEMBLY AND ELECTRIC MOTOR**
[54] **STRUCTURE DE NOYAU DE STATOR EN FORME DE BANDE, ENSEMBLE STATOR ET MOTEUR ELECTRIQUE**
[72] MO, HONGWEI, CN
[72] PAN, MINGPAN, CN
[72] ZHAO, XU, CN
[71] ZHONGSHAN BROAD-OCEAN MOTOR CO., LTD, CN
[85] 2024-06-13
[86] 2022-03-09 (PCT/CN2022/079845)
[87] (WO2023/115712)
[30] CN (202123251531.2) 2021-12-22

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[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01) A61B 90/00 (2016.01)**
[25] EN
[54] **CARDIAC DEVICE TESTING**
[54] **TEST DE DISPOSITIF CARDIAQUE**
[72] CHEN, YUNQUAN, CA
[72] MCMAHEN, JOSEPH WESLEY, CA
[72] FRASER, ROBERT WILLIAM, CA
[72] BELL, LUKE DOUGLAS, CA
[72] CROUCH, BLAKE OLIVER, CA
[72] SCHOKKING, WILLEM MARKUS, CA
[72] WALSH, TAVIA, CA
[72] NGO, ADRIEL NISSI, CA
[72] HTUN, SU THIDA, CA
[72] BEWS, CONNOR RICHARD, CA
[72] TOMKA, BENJAMIN MICHAEL JAMES, CA
[71] VIVITRO LABS INC., CA
[85] 2024-05-30
[86] 2022-12-01 (PCT/CA2022/051762)
[87] (WO2023/097400)
[30] US (63/285,970) 2021-12-03
[30] US (63/375,526) 2022-09-13

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[13] A1
[51] **Int.Cl. B29B 7/40 (2006.01) B29C 48/30 (2019.01) B29C 48/395 (2019.01) B29C 48/47 (2019.01) B29C 48/86 (2019.01) B29C 48/92 (2019.01) A23L 7/10 (2016.01) A23L 7/117 (2016.01) A23P 30/20 (2016.01) A23P 30/25 (2016.01) A23P 30/34 (2016.01)**
[25] EN
[54] **TEMPERATURE CONTROL FOR A ROTARY HEAD EXTRUDER**
[54] **REGULATION DE TEMPERATURE POUR EXTRUDEUSE A TETE ROTATIVE**
[72] QUINTERO-FUENTES, XIMENA, US
[72] MANEPALLI, PAVAN, US
[72] EGNATCHIK, ROBERT, US
[71] FRITO-LAY NORTH AMERICA INC., US
[85] 2024-06-13
[86] 2022-12-09 (PCT/US2022/052387)
[87] (WO2023/114100)
[30] US (17/552,928) 2021-12-16

[21] **3,241,016**
[13] A1
[51] **Int.Cl. H03K 19/00 (2006.01)**
[25] EN
[54] **A MICROCHIP FOR DRIVING A RESONANT CIRCUIT**
[54] **MICROPUCE POUR COMMANDER CIRCUIT RESONANT**
[72] ALSHAIBA SALEH GHANNAM ALMAZROUEI, MOHAMMED, AE
[72] BHATTI, SAJID, AE
[72] MACHOVEC, JEFF, AE
[72] LAMOUREUX, CLEMENT, AE
[71] SHAHEEN INNOVATIONS HOLDING LIMITED, AE
[85] 2024-06-13
[86] 2021-12-15 (PCT/GB2021/053308)
[87] (WO2023/111495)

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[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61P 31/18 (2006.01) C07K 16/10 (2006.01)**
[25] EN
[54] **COMBINATION THERAPIES FOR HIV INFECTIONS AND USES THEREOF**
[54] **POLYTHERAPIES POUR INFECTIONS PAR VIH ET UTILISATIONS ASSOCIEES**
[72] FERRIS, ROBERT, US
[72] MADSEN, HEATHER, US
[72] QI, HANGFEI, US
[71] VIIV HEALTHCARE COMPANY, US
[85] 2024-06-13
[86] 2022-12-16 (PCT/US2022/081724)
[87] (WO2023/114951)
[30] US (63/290,758) 2021-12-17

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[13] A1
[51] **Int.Cl. G06N 10/70 (2022.01) G06N 10/00 (2022.01) G06N 10/40 (2022.01)**
[25] EN
[54] **TECHNIQUES FOR QUANTUM ERROR CORRECTION USING MULTIMODE GRID STATES AND RELATED SYSTEMS AND METHODS**
[54] **TECHNIQUES DE CORRECTION D'ERREURS QUANTIQUES A L'AIDE D'ETATS DE GRILLE MULTIMODES, ET SYSTEMES ET PROCEDES ASSOCIES**
[72] ROYER, BAPTISTE, US
[71] YALE UNIVERSITY, US
[85] 2024-06-13
[86] 2022-12-21 (PCT/US2022/053675)
[87] (WO2023/122187)
[30] US (63/292,608) 2021-12-22

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[13] A1
[51] **Int.Cl. B06B 1/02 (2006.01)**
[25] EN
[54] **AN APPARATUS FOR TRANSMITTING ULTRASONIC WAVES**
[54] **APPAREIL DE TRANSMISSION D'ONDES ULTRASONORES**
[72] ALSHAIBA SALEH GHANNAM ALMAZROUEI, MOHAMMED, AE
[72] BHATTI, SAJID, AE
[72] MACHOVEC, JEFF, AE
[72] LAMOUREUX, CLEMENT, AE
[71] SHAHEEN INNOVATIONS HOLDING LIMITED, AE
[85] 2024-06-13
[86] 2021-12-15 (PCT/GB2021/053310)
[87] (WO2023/111496)

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[51] **Int.Cl. A01N 43/16 (2006.01) A01G 22/15 (2018.01) A01G 22/20 (2018.01) A01G 22/35 (2018.01) A01G 22/40 (2018.01) C07D 309/02 (2006.01) C07H 15/04 (2006.01) C07H 15/10 (2006.01)**
[25] EN
[54] **METHODS OF SEED AND PLANT TREATMENT TO REDUCE FOODBORNE ILLNESS**
[54] **PROCEDES DE TRAITEMENT DE SEMENCE ET DE PLANTE POUR REDUIRE UNE MALADIE D'ORIGINE ALIMENTAIRE**
[72] MACOLINI, KIRK, US
[71] ASCRIBE BIOSCIENCE INC., US
[85] 2024-06-13
[86] 2022-12-17 (PCT/US2022/081895)
[87] (WO2023/115054)
[30] US (63/291,334) 2021-12-17
[30] US (63/306,827) 2022-02-04

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[13] A1
[51] **Int.Cl. H04N 1/54 (2006.01) H04N 1/60 (2006.01)**
[25] EN
[54] **DOSING INK FOR DIGITAL PRINTING ON REFLECTIVE SUBSTRATES**
[54] **DOSAGE D'ENCRE POUR IMPRESSION NUMERIQUE SUR DES SUBSTRATS REFLECHISSANTS**
[72] CERROS, GERARDO, LU
[71] COLORPORTAL EUROPE SA, LU
[85] 2024-06-13
[86] 2022-12-15 (PCT/EP2022/086181)
[87] (WO2023/111192)
[30] LU (LU501026) 2021-12-16
[30] US (17/553,152) 2021-12-16

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[13] A1
[51] **Int.Cl. C08K 5/1545 (2006.01) C09D 7/48 (2018.01) A23G 4/12 (2006.01) C09D 123/20 (2006.01) C09J 11/06 (2006.01) C09J 123/20 (2006.01)**
[25] EN
[54] **STABILISATION OF POLYISOBUTENE**
[54] **STABILISATION DE POLYISOBUTENE**
[72] MARKELJ, TOM, DE
[72] SCHREYER, PETER, DE
[72] MUSTONEN, TERO, DE
[72] LEDERHOSE, PAUL, DE
[72] SCHMIDT, DORIS, DE
[71] BASF SE, DE
[85] 2024-06-13
[86] 2022-12-07 (PCT/EP2022/084734)
[87] (WO2023/110570)
[30] EP (21214413.3) 2021-12-14

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[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) A61K 31/7105 (2006.01) A61K 48/00 (2006.01) C12N 15/11 (2006.01) C12N 15/64 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **CIRCULAR POLYRIBONUCLEOTIDES ENCODING ANTIFUSOGENIC POLYPEPTIDES**
[54] **POLYRIBONUCLEOTIDES CIRCULAIRES CODANT POUR DES POLYPEPTIDES ANTIFUSOGENES**
[72] MIRALLES, GINES DIEGO, US
[72] GROMADA, JESPER, US
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US
[85] 2024-06-13
[86] 2022-12-23 (PCT/US2022/082345)
[87] (WO2023/122789)
[30] US (63/293,495) 2021-12-23

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[13] A1
[51] **Int.Cl. G06N 10/40 (2022.01) H04B 10/70 (2013.01)**
[25] FR
[54] **SYSTEM FOR CONVERTING THE ENCODING OF DISCRETE QUBITS INTO CONTINUOUS QUBITS**
[54] **SYSTEME DE CONVERSION D'ENCODAGE DE QUBITS DISCRETS EN QUBITS CONTINUS**
[72] LAURAT, JULIEN, FR
[72] DARRAS, TOM, FR
[72] ASENBECK, BEATE ELISABETH, FR
[72] GUCCIONE, GIOVANNI, FR
[72] CAVAILLES, ADRIEN, FR
[71] SORBONNE UNIVERSITE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] ECOLE NORMALE SUPERIEURE, FR
[85] 2024-06-13
[86] 2022-12-16 (PCT/EP2022/086469)
[87] (WO2023/117797)
[30] FR (FR2114170) 2021-12-21

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[13] A1
[51] **Int.Cl. C07C 237/16 (2006.01) A61K 47/54 (2017.01) A61K 47/69 (2017.01) A61K 47/18 (2017.01) C07C 231/14 (2006.01)**
[25] EN
[54] **LIPIDS FOR DRUG DELIVERY, NANOPARTICLES COMPRISING SAME, AND COMPOSITION FOR DRUG DELIVERY COMPRISING NANOPARTICLES**
[54] **LIPIDES POUR ADMINISTRATION DE MEDICAMENTS, NANOPARTICULES LES COMPRENANT, ET COMPOSITION POUR ADMINISTRATION DE MEDICAMENTS COMPRENANT DES NANOPARTICULES**
[72] PARK, JONG MIN, KR
[72] NAM, JOUNG PYO, KR
[72] NAM, HYE YEONG, KR
[72] LEE, SO JIN, KR
[72] KYUNG, KYU JIN, KR
[72] YOON, YOO JEONG, KR
[71] SAMYANG HOLDINGS CORPORATION, KR
[85] 2024-06-13
[86] 2022-12-23 (PCT/KR2022/021160)
[87] (WO2023/121380)
[30] KR (10-2021-0185685) 2021-12-23

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[13] A1
[51] **Int.Cl. C01B 3/04 (2006.01)**
[25] EN
[54] **HYDROGEN PRODUCTION**
[54] **PRODUCTION D?HYDROGENE**
[72] JAFFREY, KAMAL, US
[71] BREAKTHROUGH TECHNOLOGIES, LLC, US
[85] 2024-06-13
[86] 2022-12-09 (PCT/US2022/052384)
[87] (WO2023/114099)
[30] US (63/289,920) 2021-12-15

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[13] A1
[51] **Int.Cl. A61K 31/4196 (2006.01) A61K 31/435 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 249/08 (2006.01) C07D 401/10 (2006.01)**
[25] EN
[54] **NEUTROPHIL EXOCYTOSIS INHIBITORS**
[54] **INHIBITEURS D'EXOCYTOSE DES NEUTROPHILES**
[72] DRUMMOND, DARYL C, US
[72] SALPETER, SETH JONAH, IL
[71] IMMUNYX PHARMA LTD., IL
[85] 2024-06-13
[86] 2022-12-15 (PCT/IL2022/051340)
[87] (WO2023/112038)
[30] US (63/289,771) 2021-12-15

[21] **3,241,031**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 39/12 (2006.01) A61K 47/00 (2006.01)**
[25] EN
[54] **STABILISED LIQUID VACCINES OF LIVE VIRUSES**
[54] **VACCINS LIQUIDES STABILISES DE VIRUS VIVANTS**
[72] KETS, EDWIN, NL
[72] PIEST, MARTIN, NL
[72] VERMEIJ, PAUL, NL
[71] INTERVET INTERNATIONAL B.V., NL
[85] 2024-06-13
[86] 2022-12-22 (PCT/EP2022/087464)
[87] (WO2023/118426)
[30] EP (21217481.7) 2021-12-23

[21] **3,241,032**
[13] A1
[51] **Int.Cl. G05B 19/409 (2006.01)**
[25] EN
[54] **SYSTEM FOR TEACHING A ROBOTIC ARM**
[54] **SYSTEME D'APPRENTISSAGE D'UN BRAS ROBOTISE**
[72] BERGERON, MATHIEUX, CA
[72] DUBREUIL, ANDRE, CA
[72] MOINEAU-DIONNE, MATHIEW, CA
[72] AUDET, JEAN-MICHEL, CA
[72] FERRON-FORGET, SIMON, CA
[72] KHOMKO, VITALIY, CA
[71] KINOVA INC., CA
[85] 2024-05-30
[86] 2023-01-20 (PCT/CA2023/050063)
[87] (WO2023/137552)
[30] US (63/301,756) 2022-01-21

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[13] A1
[51] **Int.Cl. B60P 7/08 (2006.01) B65D 71/00 (2006.01)**
[25] EN
[54] **WINDING ASSEMBLY WITH INTUITIVE HANDLE ACTUATION**
[54] **ENSEMBLE D'ENROULEMENT AYANT UN DISPOSITIF DE RETENUE**
[72] MCCABE, ALLAN, GB
[72] BAKER, MARTIN, GB
[71] LOADHOG LIMITED, GB
[85] 2024-06-13
[86] 2022-12-22 (PCT/IB2022/062660)
[87] (WO2023/119212)
[30] GB (2118869.3) 2021-12-23
[30] GB (2207960.2) 2022-05-30
[30] GB (2219327.0) 2022-12-21

[21] **3,241,035**
[13] A1
[51] **Int.Cl. C09J 11/04 (2006.01) C09J 11/06 (2006.01)**
[25] EN
[54] **UNDERWATER BONDING WITH A BIOBASED ADHESIVE**
[54] **LIAISON SOUS-MARINE AVEC UN ADHESIF D'ORIGINE BIOLOGIQUE**
[72] WILKER, JONATHAN J., US
[72] SCHMIDT, GUDRUN, US
[72] MILES, LOGAN JOSEPH, US
[71] PURDUE RESEARCH FOUNDATION, US
[85] 2024-06-13
[86] 2022-12-14 (PCT/US2022/052880)
[87] (WO2023/114321)
[30] US (63/290,087) 2021-12-16

[21] **3,241,036**
[13] A1
[51] **Int.Cl. F16F 15/03 (2006.01) F16D 35/00 (2006.01) F16F 15/22 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROL OF REVERSAL EVENTS USING MAGNETORHEOLOGICAL FLUID**
[54] **SYSTEME ET PROCEDE DE COMMANDE D'EVENEMENTS D'INVERSION A L'AIDE D'UN FLUIDE MAGNETORHEOLOGIQUE**
[72] CHOUINARD, PATRICK, CA
[72] LAROSE, PASCAL, CA
[72] PLANTE, JEAN-SEBASTIEN, CA
[71] EXONETIK INC., CA
[85] 2024-05-30
[86] 2023-05-15 (PCT/CA2023/050663)
[87] (WO2023/240335)
[30] US (63/341,501) 2022-05-13

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[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01)**
[25] EN
[54] **TRICYCLIC FUSED HETEROCYCLIC PDE3/4 DUAL INHIBITOR AND USE THEREOF**
[54] **INHIBITEUR DOUBLE DE PDE3/4 HETEROCYCLIQUE FUSIONNE TRICYCLIQUE ET SON UTILISATION**
[72] LI, YAO, CN
[72] ZHANG, GUOBIAO, CN
[72] ZHANG, XIAOBO, CN
[72] ZHANG, YAMING, CN
[72] YAN, LINJIE, CN
[72] TANG, PINGMING, CN
[72] YU, YAN, CN
[72] ZHANG, CHEN, CN
[72] YAN, PANGKE, CN
[71] XIZANG HAISCO PHARMACEUTICAL CO., LTD., CN
[85] 2024-06-13
[86] 2022-12-13 (PCT/CN2022/138629)
[87] (WO2023/109802)
[30] CN (202111527081.7) 2021-12-14
[30] CN (202210121834.2) 2022-02-09

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[13] A1
[51] **Int.Cl. A61K 51/08 (2006.01)**
[25] EN
[54] **UROKINASE-TYPE PLASMINOGEN ACTIVATOR RECEPTOR (UPAR)-PET/CT IN NEUROENDOCRINE NEOPLAMS**
[54] **PET/CT DU RECEPTEUR DE L'ACTIVATEUR DU PLASMINOGENE DE TYPE UROKINASE (UPAR) DANS DES NEOPLASIES NEUROENDOCRINES**
[72] KJAR, ANDREAS, DK
[71] CURASIGHT A/S, DK
[85] 2024-06-13
[86] 2022-12-15 (PCT/EP2022/086147)
[87] (WO2023/111176)
[30] EP (21214757.3) 2021-12-15

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[13] A1
[51] **Int.Cl. A23K 20/179 (2016.01) A23L 5/46 (2016.01) A61K 8/49 (2006.01) C07D 491/048 (2006.01)**
[25] EN
[54] **ATROROSIN BASED LAKE**
[54] **LAC A BASE D'ATROROSINE**
[72] ODUM, ANDERS SEBASTIAN ROSENKRANS, DK
[72] THODBERG, SARA, DK
[71] CHROMOLOGICS APS, DK
[85] 2024-06-13
[86] 2023-01-05 (PCT/EP2023/050143)
[87] (WO2023/131632)
[30] DK (PA202270003) 2022-01-05

[21] **3,241,040**
[13] A1
[51] **Int.Cl. A61K 8/365 (2006.01) A61K 8/88 (2006.01)**
[25] EN
[54] **ORAL CARE COMPLEXES AND COMPOSITIONS**
[54] **COMPLEXES ET COMPOSITIONS DE SOINS BUCCAUX**
[72] RUAN, QICHAO, US
[72] LAVENDER, STACEY, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2024-06-13
[86] 2022-12-19 (PCT/US2022/053412)
[87] (WO2023/122040)
[30] US (63/293,342) 2021-12-23

[21] **3,241,041**
[13] A1
[51] **Int.Cl. A61M 25/01 (2006.01) A61M 25/09 (2006.01)**
[25] EN
[54] **TORQUE DEVICE APPARATUS AND METHOD OF USE**
[54] **APPAREIL A DISPOSITIF DE COUPLE ET PROCEDE D'UTILISATION**
[72] PLECHA, EDWARD, US
[72] FISHER, MATTHEW T., US
[71] PLECHA, EDWARD, US
[85] 2024-06-13
[86] 2022-12-13 (PCT/US2022/052758)
[87] (WO2023/114243)
[30] US (63/265,330) 2021-12-13

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[13] A1
[51] **Int.Cl. A61K 31/80 (2006.01) A61P 13/12 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING A CHEMOKINE RECEPTOR PATHWAY INHIBITOR**
[54] **COMPOSITIONS COMPRENANT UN INHIBITEUR DE LA VOIE DU RECEPTEUR DE LA CHIMIOKINE**
[72] POLLOCK, BRONWYN JANE, AU
[72] SHEPHERD, ROBERT, AU
[72] WEBSTER, NINA, AU
[71] DIMERIX BIOSCIENCE PTY LTD, AU
[85] 2024-06-13
[86] 2022-01-14 (PCT/AU2022/050013)
[87] (WO2023/133607)

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[13] A1
[51] **Int.Cl. C07D 251/38 (2006.01) A01N 43/66 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **TRIAZINE HERBICIDAL COMPOUNDS**
[54] **COMPOSES HERBICIDES DE TYPE TRIAZINE**
[72] WHITTINGHAM, WILLIAM GUY, GB
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2024-06-13
[86] 2022-12-15 (PCT/EP2022/086095)
[87] (WO2023/117670)
[30] EP (21216845.4) 2021-12-22
[30] EP (22151241.1) 2022-01-12

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[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/01 (2006.01) A61B 5/145 (2006.01)**
[25] EN
[54] **BODY WEARABLE ANALYTE SENSOR SYSTEM WITH INFRARED TEMPERATURE SENSOR DEVICE**
[54] **SYSTEME DE CAPTEUR D'ANALYTE POUVANT ETRE PORTE SUR LE CORPS AVEC DISPOSITIF CAPTEUR DE TEMPERATURE INFRAROUGE**
[72] THOES, BRUNO, DE
[72] BAUMANN, EDGAR, DE
[72] WETTENGEL, KLAUS, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2024-06-13
[86] 2022-12-20 (PCT/EP2022/086988)
[87] (WO2023/118139)
[30] EP (21216887.6) 2021-12-22

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[13] A1
[51] **Int.Cl. B01J 21/02 (2006.01) B01J 21/06 (2006.01) B01J 23/00 (2006.01) B01J 23/02 (2006.01) B01J 23/10 (2006.01) B01J 23/755 (2006.01) B01J 37/02 (2006.01) B01J 37/08 (2006.01) C01B 3/40 (2006.01)**
[25] EN
[54] **METHANE-REFORMING CATALYST AND PREPARATION METHOD THEREFOR**
[54] **CATALYSEUR DE REFORMAGE DE METHANE ET SON PROCEDE DE PREPARATION**
[72] KIM, YONGSEON, KR
[72] CHO, JUN YEON, KR
[72] CHOI, JAE SOON, KR
[72] CHOI, JUN SEON, KR
[72] KIM, SANGJIN, KR
[72] KIM, SOJIN, KR
[72] KIM, SUJI, KR
[72] CHOI, HYUN A, KR
[71] LG CHEM, LTD., KR
[85] 2024-06-13
[86] 2023-09-12 (PCT/KR2023/013633)
[87] (WO2024/085448)
[30] KR (10-2022-0134974) 2022-10-19

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[13] A1
[51] **Int.Cl. B60K 13/02 (2006.01) F02M 35/024 (2006.01) F02M 35/08 (2006.01) F02M 35/16 (2006.01)**
[25] EN
[54] **AUTOMOTIVE SNORKEL INCORPORATING AN AIR FILTRATION SYSTEM**
[54] **TUBA D'AUTOMOBILE INCORPORANT UN SYSTEME DE FILTRATION D'AIR**
[72] KNOWLES, GREGORY, AU
[71] WORK AIR TECHNOLOGIES PTY LTD, AU
[85] 2024-06-13
[86] 2022-12-12 (PCT/AU2022/051493)
[87] (WO2023/108203)
[30] AU (2021904033) 2021-12-13

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[13] A1
[51] **Int.Cl. H02J 50/10 (2016.01) H04B 1/3888 (2015.01) H02J 50/90 (2016.01)**
[25] EN
[54] **WIRELESS CHARGER ASSEMBLY FOR A CELLPHONE**
[54] **ENSEMBLE CHARGEUR SANS FIL POUR TELEPHONE CELLULAIRE**
[72] PETERS, CHRISTOPHER L., AU
[72] SEBASTIANI, MARCO, AU
[71] ANNEX PRODUCTS PTY. LTD., AU
[85] 2024-06-13
[86] 2022-12-14 (PCT/IB2022/062249)
[87] (WO2023/111915)
[30] US (63/290,799) 2021-12-17
[30] US (17/859,528) 2022-07-07

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[13] A1
[51] **Int.Cl. H01F 21/08 (2006.01) H01F 21/06 (2006.01)**
[25] EN
[54] **SYSTEM FOR PARAMETRIC RESONANT VARYING INDUCTANCE**
[54] **SYSTEME D'INDUCTANCE VARIABLE A RESONANCE PARAMETRIQUE**
[72] GUAY, BENOIT, CA
[72] MALO, JEROME-OLIVIER, CA
[71] ELAN RESEARCH - 9456-4424 QUEBEC INC., CA
[85] 2024-06-13
[86] 2022-12-13 (PCT/IB2022/062161)
[87] (WO2023/111860)
[30] US (63/290,764) 2021-12-17

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[13] A1
[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/22 (2006.01) A61K 8/73 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS COMPRISING A FLAVOR SYSTEM**
[54] **COMPOSITIONS DE SOINS BUCCODENTAIRES COMPRENANT UN SYSTEME D'AROME**
[72] MIGUELINO, MICHELLE, US
[72] SUN, FUSONG, US
[72] SEMEGHINI, VERONICA, US
[72] BANKOVA, MANIA, US
[72] YEUNG, VICTORIA, US
[72] BARIEXCA, TRACY, US
[72] MONROY, CATALINA, US
[72] DOGO-ISONAGIE, CAJETAN, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2024-06-13
[86] 2022-12-30 (PCT/US2022/054377)
[87] (WO2023/129736)
[30] US (63/295,148) 2021-12-30

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[13] A1
[51] **Int.Cl. F16L 55/027 (2006.01) F15D 1/04 (2006.01) F15D 1/06 (2006.01)**
[25] EN
[54] **FLEXIBLE FLUID FLOW MODIFYING DEVICE**
[54] **DISPOSITIF DE MODIFICATION D'ECOULEMENT DE FLUIDE SOUPLE**
[72] SCHMIDT, PAUL WAYNE, US
[72] GHOSH, AVIJIT, US
[71] VORTEX PIPE SYSTEMS LLC, US
[85] 2024-06-13
[86] 2022-11-15 (PCT/US2022/049964)
[87] (WO2023/132893)
[30] US (17/569,365) 2022-01-05
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[51] **Int.Cl. H04L 69/323 (2022.01)**
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[54] **SIGNAL PROCESSING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE TRAITEMENT DE SIGNAUX**
[72] DU, RUI, CN
[72] ZHOU, ZHENGCHUN, CN
[72] SHEN, BINGSHENG, CN
[72] TANG, XIAOHU, CN
[72] LIU, CHENCHEN, CN
[72] HAN, XIAO, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-06-13
[86] 2022-12-12 (PCT/CN2022/138442)
[87] (WO2023/109773)
[30] CN (202111521474.7) 2021-12-13

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[51] **Int.Cl. G06F 30/10 (2020.01) G06F 30/20 (2020.01)**
[25] EN
[54] **CORE DESIGN APPARATUS, CORE DESIGN METHOD, AND PROGRAM**
[54] **DISPOSITIF DE CONCEPTION DE NOYAU, PROCEDE DE CONCEPTION DE NOYAU, ET PROGRAMME**
[72] HONMA, REI, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2024-06-13
[86] 2023-02-21 (PCT/JP2023/006141)
[87] (WO2023/167050)
[30] JP (2022-031019) 2022-03-01

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[51] **Int.Cl. B01L 9/00 (2006.01)**
[25] EN
[54] **BIOCHIP COUPLING SYSTEM DEVICE**
[54] **DISPOSITIF DE SYSTEME DE COUPLAGE DE BIOPUCE**
[72] CARASA RUIZ, PABLO, ES
[72] BAJO ORTIZ, EDUARDO, ES
[71] OVERTURE LIFE, INC., US
[85] 2024-06-13
[86] 2022-12-21 (PCT/IB2022/062626)
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[30] US (63/292,812) 2021-12-22
[30] EP (22162547.8) 2022-03-16

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[13] A1
[51] **Int.Cl. C08L 23/08 (2006.01) C08K 5/14 (2006.01) C08K 5/54 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING CABLE WITH INSULATION LAYER**
[54] **PROCEDE DE PRODUCTION D?UN CABLE POSSEDANT UNE COUCHE D?ISOLATION**
[72] SUN, YABIN, CN
[72] WU, GAOXIANG, US
[72] LI PI SHAN, COLIN, US
[72] PERSON, TIMOTHY J., US
[72] ZHANG, WENXIN, CN
[72] ZHANG, KAINAN, CN
[72] JI, JIE, CN
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[71] DOW SILICONES CORPORATION, US
[85] 2024-06-13
[86] 2021-12-17 (PCT/CN2021/139003)
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[51] **Int.Cl. A61K 31/404 (2006.01) A61K 47/64 (2017.01) A61K 31/7088 (2006.01) A61K 31/7105 (2006.01) A61K 31/713 (2006.01) A61K 39/395 (2006.01) A61P 25/24 (2006.01)**
[25] EN
[54] **A GLUN2D INHIBITOR FOR USE IN THE TREATMENT OR RELAPSE PREVENTION OF A DEPRESSIVE EPISODE**
[54] **INHIBITEUR DE GLUN2D DESTINE A ETRE UTILISE LE TRAITEMENT OU LA PREVENTION DE LA RECHUTE D'UN EPISODE DEPRESSIF**
[72] NORMANN, CLAUS, DE
[72] VESTRING, STEFAN, DE
[71] ALBERT-LUDWIGS-UNIVERSITAT FREIBURG, DE
[85] 2024-06-13
[86] 2023-01-25 (PCT/EP2023/051726)
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[25] EN
[54] **CASCADE ACTIVATION METHOD AND MECHATRONIC SYSTEM**
[54] **METHODE D'ACTIVATION EN CASCADE ET SYSTEME MECATRONIQUE**
[72] SOLOZABAL IBARRA, MIKEL, ES
[72] ZABALA ZABALETA, JON, ES
[72] ELICES RUIZ, AKETZA, ES
[71] OJMAR, S.A., ES
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[51] **Int.Cl. D01D 5/02 (2006.01) D01F 1/10 (2006.01) D01F 8/14 (2006.01)**
[25] EN
[54] **ULTRA-FINE DENIER UHMW PE FIBER**
[54] **FIBRE DE PE UHMW A DENIER ULTRA-FIN**
[72] BOONE, MARK BENJAMIN, US
[72] HERMES, JOHN, US
[71] HONEYWELL INTERNATIONAL INC., US
[85] 2024-06-13
[86] 2022-12-15 (PCT/US2022/081680)
[87] (WO2023/114922)
[30] US (63/291,308) 2021-12-17
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[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/36 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS AND METHODS FOR THE SAME**
[54] **COMPOSITIONS DE SOINS BUCCODENTAIRES ET PROCEDES ASSOCIES**
[72] CHEN, YUWEI, CN
[72] XU, SHAOPENG, CN
[72] GAO, XU QIANG, CN
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2024-06-13
[86] 2022-12-21 (PCT/US2022/053666)
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[51] **Int.Cl. F16M 13/02 (2006.01) H02J 50/00 (2016.01) H02J 50/10 (2016.01) G06F 1/16 (2006.01) H02J 7/00 (2006.01) H05K 5/00 (2006.01) H05K 5/02 (2006.01)**
[25] EN
[54] **WIRELESS CHARGER MOUNTING SYSTEM**
[54] **SYSTEME DE MONTAGE DE CHARGEUR SANS FIL**
[72] PETERS, CHRISTOPHER L., AU
[72] SEBASTIANI, MARCO, AU
[71] ANNEX PRODUCTS PTY.LTD., AU
[85] 2024-06-13
[86] 2022-12-14 (PCT/IB2022/062252)
[87] (WO2023/111917)
[30] US (63/290,799) 2021-12-17
[30] US (17/859,512) 2022-07-07

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[13] A1
[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/6806 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR PURIFYING POLYRIBONUCLEOTIDES**
[54] **COMPOSITIONS ET PROCEDES DE PURIFICATION DE POLYRIBONUCLEOTIDES**
[72] DE BOER, ALEXANDRA SOPHIE, US
[72] PLUGIS, NICHOLAS MCCARTNEY, US
[72] CIFUENTES-ROJAS, CATHERINE, US
[72] PAEK, KI YOUNG, US
[72] HOBERT, ELISSA MAGDALENE, US
[72] FARB, JOSHUA NATHAN, US
[72] DUDKIN, VADIM, US
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US
[85] 2024-06-13
[86] 2022-12-22 (PCT/US2022/082265)
[87] (WO2023/122745)
[30] US (63/292,557) 2021-12-22

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[51] **Int.Cl. C10G 31/06 (2006.01) C10G 9/24 (2006.01)**
[25] EN
[54] **SYSTEMS AND PROCESSES FOR IMPROVING HYDROCARBON UPGRADING**
[54] **SYSTEMES ET PROCEDES PERMETTANT D'AMELIORER LA VALORISATION DES HYDROCARBURES**
[72] KAMPERMAN, WIM, NL
[72] BIESHEUVEL, CORNELIS, NL
[72] CORRIPIO, BERNARDO M., US
[72] JOHNSON, RYAN C., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-06-13
[86] 2022-12-15 (PCT/US2022/081615)
[87] (WO2023/114883)
[30] US (63/290,692) 2021-12-17

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[51] **Int.Cl. H01R 9/05 (2006.01) H01R 24/44 (2011.01)**
[25] EN
[54] **HIGH FREQUENCY PERFORMANCE HARDLINE CONNECTOR**
[54] **RACCORD DE CABLE RIGIDE A PERFORMANCES A HAUTE FREQUENCE**
[72] PURDY, ERIC, US
[72] CAVINESS, JORDAN, US
[71] PPC BROADBAND, INC., US
[85] 2024-06-13
[86] 2022-12-14 (PCT/US2022/052892)
[87] (WO2023/114328)
[30] US (63/289,625) 2021-12-14
[30] US (63/361,391) 2021-12-15

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[51] **Int.Cl. G01N 21/88 (2006.01) H01M 10/04 (2006.01) H01M 10/42 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INSPECTING OUTER APPEARANCE**
[54] **SYSTEME ET METHODE POUR INSPECTER L'APPARENCE EXTERNE**
[72] KIM, GEUN TAE, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-06-13
[86] 2022-12-19 (PCT/KR2022/020735)
[87] (WO2023/121188)
[30] KR (10-2021-0183208) 2021-12-20

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[51] **Int.Cl. B01J 23/34 (2006.01) B01J 21/06 (2006.01) B01J 23/889 (2006.01) B01J 37/02 (2006.01) B01J 37/18 (2006.01)**
[25] EN
[54] **MANGANESE TITANATE-CONTAINING FISCHER-TROPSCH CATALYST AND METHODS FOR MAKING AND USING SAME**
[54] **CATALYSEUR DE FISCHER-TROPSCH CONTENANT DU TITANATE DE MANGANESE ET SES PROCEDES DE FABRICATION ET D'UTILISATION**
[72] PATERSON, ALEXANDER JAMES, GB
[71] BP P.L.C., GB
[85] 2024-06-13
[86] 2022-12-22 (PCT/IB2022/062706)
[87] (WO2023/119238)
[30] EP (21217611.9) 2021-12-23

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[13] A1
[51] **Int.Cl. A61M 60/17 (2021.01) A61M 60/237 (2021.01) A61M 60/515 (2021.01) A61M 60/531 (2021.01) A61M 60/569 (2021.01) A61M 60/806 (2021.01) A61M 60/861 (2021.01)**
[25] EN
[54] **A SYSTEM TO TREAT HEART FAILURE WITH PRESERVED EJECTION FRACTION (HFPEF)**
[54] **SYSTEME POUR TRAITER UNE INSUFFISANCE CARDIAQUE AVEC UNE FRACTION D'EJECTION PRESERVEE (HFPEF)**
[72] HAMEED, AAMIR, IE
[72] MALONE, ANDREW, IE
[72] MALONE, GRAINNE, IE
[71] ROYAL COLLEGE OF SURGEONS IN IRELAND, IE
[85] 2024-06-13
[86] 2022-12-21 (PCT/EP2022/087380)
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[30] EP (21217170.6) 2021-12-22

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[13] A1
[51] **Int.Cl. A61B 90/50 (2016.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TISSUE INTERVENTION VIA IMAGE-GUIDED BOILING HISTOTRIPSY**
[54] **SYSTEME ET PROCEDE D'INTERVENTION TISSULAIRE PAR HISTOTRIPSIE D'EBULLITION GUIDEE PAR IMAGE**
[72] CHOPRA, PRASHANT, US
[71] PETAL SURGICAL, INC., US
[85] 2024-06-13
[86] 2022-12-16 (PCT/US2022/081891)
[87] (WO2023/115052)
[30] US (63/290,647) 2021-12-16
[30] US (63/308,051) 2022-02-08
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[13] A1
[51] **Int.Cl. C12N 9/20 (2006.01) A61P 3/02 (2006.01)**
[25] EN
[54] **LIPASE FORMULATIONS AND METHODS THEREOF**
[54] **FORMULATIONS DE LIPASE ET METHODES ASSOCIEES**
[72] SRINIVASAN, DINESH, US
[72] STOVER, TED, US
[71] FIRST WAVE BIOPHARMA, INC., US
[85] 2024-06-13
[86] 2022-12-15 (PCT/US2022/052997)
[87] (WO2023/114390)
[30] US (63/290,321) 2021-12-16

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[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **MACROCYCLIC BTK INHIBITORS**
[54] **INHIBITEURS MACROCYCLIQUES DE BTK**
[72] DE MAN, ADRIANUS PETRUS ANTONIUS, NL
[72] BUIJSMAN, ROGIER CHRISTIAN, NL
[72] STERRENBURG, JAN GERARD, NL
[72] DE WIT, JOERI JOHANNES PETRUS, NL
[72] VAN CAUTER, FREEK, NL
[72] VAN GEMERT, SANDER PETRUS WILHELMUS, NL
[72] PRINSEN, MARTINE BERENDINA WILHEMINA, NL
[72] MULDER, WINFRIED ROBERT, NL
[72] MULLER, MICHELLE, NL
[72] VU-PHAM, DIEP, NL
[72] GROBBEN, YVONNE, NL
[72] SIMONS-VAN RIEL, WILHELMINA ELISABETH, NL
[72] VAN MIL, YVONNE GERTRUDA THEODORA HENDRIKA, NL
[71] CROSSFIRE ONCOLOGY HOLDING B.V., NL
[85] 2024-06-13
[86] 2022-12-14 (PCT/EP2022/085765)
[87] (WO2023/110970)
[30] EP (PCT/EP2021/085641) 2021-12-14
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[51] **Int.Cl. C25B 1/044 (2021.01) C25B 9/70 (2021.01) C25B 9/75 (2021.01) C25B 15/023 (2021.01) C01B 3/02 (2006.01)**
[25] EN
[54] **METHOD FOR ELECTROLYTICALLY PROVIDING AN OXYGEN-CONTAINING AND HYDROGEN-CONTAINING GAS MIXTURE**
[54] **PROCEDE DE FOURNITURE ELECTROLYTIQUE D'UN MELANGE GAZEUX CONTENANT DE L'OXYGENE ET CONTENANT DE L'HYDROGENE**
[72] BAUMGARTEN, GUNTHER, AT
[72] BAUEREGGER, OTTO, AT
[71] KEY ENERGY ANLAGENBAU GMBH, AT
[85] 2024-06-13
[86] 2022-12-28 (PCT/AT2022/060464)
[87] (WO2023/122812)
[30] AT (A 51051/2021) 2021-12-30

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[13] A1
[51] **Int.Cl. A61K 35/74 (2015.01) A23L 33/135 (2016.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MODIFYING BILE ACIDS TO REGULATE LIPID AND STEROID METABOLISM**
[54] **COMPOSITIONS ET METHODES POUR MODIFIER DES ACIDES BILIAIRES AFIN DE REGULER LE METABOLISME DES LIPIDES ET DES STEROIDES**
[72] LYNCH, JONATHAN, US
[72] HSIAO, ELAINE, US
[72] GONZALEZ, ERIKA L., US
[72] CHOY, KAYLI, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-06-13
[86] 2022-12-13 (PCT/US2022/052657)
[87] (WO2023/114180)
[30] US (63/288,980) 2021-12-13
[30] US (63/289,412) 2021-12-14
[30] US (63/355,381) 2022-06-24

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[51] **Int.Cl. A61J 1/05 (2006.01) A61J 1/14 (2006.01) A61J 1/20 (2006.01) A61M 39/00 (2006.01) B65D 5/06 (2006.01) B65D 41/20 (2006.01) B65D 41/34 (2006.01) B65D 41/50 (2006.01) B65D 47/32 (2006.01) B65D 47/36 (2006.01) B65D 47/38 (2006.01)**
[25] EN
[54] **OPENING DEVICE FOR ASEPTIC CARTON PACKAGING USED FOR ENTERAL NUTRITION THROUGH CLOSED SYSTEM**
[54] **COUVERCLE FIXE POUR EMBALLAGE A LONGUE DUREE DE VIE AVEC ACCES POUR EQUIPEMENT DE NUTRITION ENTERALE EN VUE D'UNE UTILISATION PAR SYSTEME FERME**
[72] SANTOS LEITE, RONALDO, BR
[71] SANTOS LEITE, RONALDO, BR
[85] 2024-06-13
[86] 2022-11-11 (PCT/BR2022/050434)
[87] (WO2023/081991)
[30] BR (1020210229144) 2021-11-13

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[51] **Int.Cl. B65D 5/74 (2006.01) A61J 1/05 (2006.01) A61J 1/14 (2006.01) A61M 39/00 (2006.01) B65D 41/20 (2006.01) B65D 41/50 (2006.01) B65D 43/00 (2006.01) B65D 47/32 (2006.01) B65D 47/36 (2006.01) B65D 47/38 (2006.01) B65D 51/22 (2006.01)**
[25] EN
[54] **OPENING DEVICE FOR ASEPTIC CARTON PACKAGING USED FOR ENTERAL NUTRITION THROUGH CLOSED SYSTEM OR OPEN SYSTEM**
[54] **COUVERCLE FIXE POUR EMBALLAGE A LONGUEDUREE DE VIE AVEC ACCES POUR EQUIPEMENT DE NUTRITION ENTERALE EN VUE D'UNE UTILISATION PAR SYSTEME OUVERT OU FERME**
[72] SANTOS LEITE, RONALDO, BR
[71] SANTOS LEITE, RONALDO, BR
[85] 2024-06-13
[86] 2022-11-11 (PCT/BR2022/050435)
[87] (WO2023/081992)
[30] BR (1020210229241) 2021-11-15

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[13] A1
[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **HEATING ELEMENTS FOR AN AEROSOL DELIVERY SYSTEM**
[54] **ELEMENTS CHAUFFANTS POUR UN SYSTEME DE DISTRIBUTION D'AEROSOL**
[72] SHERIDAN, JAMES, GB
[72] SUTTON, JOSEPH PETER, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-13
[86] 2022-12-09 (PCT/GB2022/053154)
[87] (WO2023/118791)
[30] GB (2118851.1) 2021-12-22

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[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **AEROSOL DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION D'AEROSOL**
[72] SHERIDAN, JAMES, GB
[72] SUTTON, JOSEPH PETER, GB
[72] WOODMAN, TOM, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-13
[86] 2022-12-09 (PCT/GB2022/053155)
[87] (WO2023/118792)
[30] GB (2118829.7) 2021-12-22

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[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/44 (2020.01)**
[25] EN
[54] **AEROSOL GENERATING SYSTEM**
[54] **SYSTEME DE GENERATION D'AEROSOL**
[72] ROTHWELL, HOWARD, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-13
[86] 2022-12-09 (PCT/GB2022/053156)
[87] (WO2023/118793)
[30] GB (2118833.9) 2021-12-22

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[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/44 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **AEROSOL DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION D'AEROSOL**
[72] SUTTON, JOSEPH PETER, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-13
[86] 2022-12-09 (PCT/GB2022/053161)
[87] (WO2023/118798)
[30] GB (2118830.5) 2021-12-22

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[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01)**
[25] EN
[54] **PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE**
[72] ROTHWELL, HOWARD, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-13
[86] 2022-12-09 (PCT/GB2022/053160)
[87] (WO2023/118797)
[30] GB (2118836.2) 2021-12-22

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[13] A1
[51] **Int.Cl. B01J 19/00 (2006.01) B01J 38/04 (2006.01) B08B 9/032 (2006.01)**
[25] EN
[54] **CATALYST DECONTAMINATION PROCESS**
[54] **PROCEDE DE DECONTAMINATION DE CATALYSEUR**
[72] KELLY, RICHARD M., US
[72] ZACHARIAH, ASHLEY, US
[72] PACOULOUTE, PERRY R., US
[71] PRAXAIR TECHNOLOGY, INC., US
[85] 2024-06-14
[86] 2022-12-15 (PCT/US2022/081662)
[87] (WO2023/114913)
[30] US (63/290,952) 2021-12-17
[30] US (18/065,805) 2022-12-14

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[13] A1
[51] **Int.Cl. B65G 57/00 (2006.01) B65G 59/02 (2006.01) B65G 59/06 (2006.01) B66F 9/07 (2006.01)**
[25] EN
[54] **SHELF DE-STACKER**
[54] **DISPOSITIF DE DESEMPILAGE D'ETAGERES**
[72] KIRBY, OLIVER FREDERICK, GB
[72] WYNN, LESLIE, GB
[71] OCADO INNOVATION LIMITED, GB
[85] 2024-05-30
[86] 2022-11-30 (PCT/EP2022/083805)
[87] (WO2023/099541)
[30] GB (2117495.8) 2021-12-03

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[13] A1
[51] **Int.Cl. C07C 29/80 (2006.01) C07C 29/88 (2006.01) C07C 31/20 (2006.01)**
[25] EN
[54] **1,3-BUTANEDIOL PURIFIED FROM A MIXTURE OF DIOLS**
[54] **1,3-BUTANEDIOL PURIFIE A PARTIR D'UN MELANGE DE DIOLS**
[72] COTTI COMETTINI, MARCO, IT
[72] ALBERTI, VIRGINIA, IT
[71] NOVAMONT S.P.A., IT
[85] 2024-05-30
[86] 2022-12-01 (PCT/EP2022/084013)
[87] (WO2023/099650)
[30] IT (102021000030572) 2021-12-02

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[13] A1
[51] **Int.Cl. C08K 3/26 (2006.01) C09D 7/61 (2018.01) C09D 5/02 (2006.01) C09D 5/16 (2006.01)**
[25] EN
[54] **COATING COMPOSITION WITH CERIUM(III) CARBONATE AND A PHOTOINITIATOR**
[54] **COMPOSITION DE REVETEMENT AVEC DU CARBONATE DE CERIUM(III) ET UN PHOTO-INITIATEUR**
[72] ALDERFER, KEITH A., US
[72] MONEYPENNY, TIMOTHY P., US
[72] BOHLING, JAMES C., US
[72] CALLEJAS, JUAN F., US
[72] BORTKO, STEPHANIE M., US
[72] BLUDER, DAVID J., US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-06-14
[86] 2022-12-06 (PCT/US2022/051909)
[87] (WO2023/114043)
[30] US (63/290,686) 2021-12-17

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[13] A1
[51] **Int.Cl. B05B 7/20 (2006.01)**
[25] EN
[54] **STRUCTURALLY ENHANCED ROUGHENED FEATURES FOR IMPROVED THERMAL SPRAY DEVICE AND METHOD OF USE FOR PRODUCING UNIFORM COATING PROPERTIES**
[54] **ELEMENTS RENDUS RUGUEUX STRUCTURELLEMENT AMELIORES POUR DISPOSITIF DE PULVERISATION THERMIQUE AMELIORE ET PROCEDE D'UTILISATION POUR LA PRODUCTION DE PROPRIETES DE REVETEMENT UNIFORME**
[72] SOMERVILLE, DAVID A., US
[71] PRAXAIR S.T. TECHNOLOGY, INC., US
[85] 2024-06-14
[86] 2021-12-17 (PCT/US2021/063971)
[87] (WO2023/113811)

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[13] A1
[51] **Int.Cl. G06Q 50/02 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PREDICTING ENVIRONMENTAL EMISSIONS BASED ON ANIMAL NUTRITION**
[54] **SYSTEMES ET PROCEDES DE PREDICTION D'EMISSIONS ENVIRONNEMENTALES SUR LA BASE D'UNE NUTRITION ANIMALE**
[72] CHRISTENSEN, KETIL, NO
[72] HETLAND, KIM, NO
[72] RUOHONEN, KARI JUHANI, FI
[71] CAN TECHNOLOGIES, INC., US
[85] 2024-06-14
[86] 2022-12-15 (PCT/US2022/081643)
[87] (WO2023/114903)
[30] US (63/265,624) 2021-12-17

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[13] A1
[51] **Int.Cl. B65D 1/42 (2006.01) B65D 6/00 (2006.01) B65D 83/00 (2006.01) B65G 1/04 (2006.01) B65G 1/07 (2006.01) B65G 1/137 (2006.01) B65G 65/00 (2006.01)**
[25] EN
[54] **TRAY FOR TRANSPORTING A LOAD IN AN ORDER-PICKING SYSTEM, UNLOADING DEVICE AND LOADING DEVICE**
[54] **PLATEAU DESTINE AU TRANSPORT D'UNE MARCHANDISE DANS UN SYSTEME DE PREPARATION DE COMMANDES, DISPOSITIF DE DECHARGEMENT ET DISPOSITIF DE CHARGEMENT**
[72] HOLZNER, STEFAN, DE
[72] KROPF, MATTHIAS, DE
[71] TGW LOGISTICS GROUP GMBH, AT
[85] 2024-05-30
[86] 2022-12-02 (PCT/AT2022/060425)
[87] (WO2023/097351)
[30] AT (A50965/2021) 2021-12-02

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[13] A1
[51] **Int.Cl. B60L 58/10 (2019.01) E02F 9/20 (2006.01) G05D 1/00 (2024.01) G06F 3/048 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IDENTIFYING MODIFICATIONS TO TERRAIN CHARACTERISTICS OF A WORKSITE FOR BATTERY PERFORMANCE**
[54] **SYSTEMES ET PROCEDES D'IDENTIFICATION DE MODIFICATIONS DE CARACTERISTIQUES DE TERRAIN D'UN SITE DE TRAVAIL POUR DES PERFORMANCES DE BATTERIE**
[72] BRAUNSTEIN, MICHAEL D., US
[71] CATERPILLAR INC., US
[85] 2024-06-14
[86] 2022-12-05 (PCT/US2022/080906)
[87] (WO2023/114654)
[30] US (17/553,894) 2021-12-17

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[13] A1
[51] **Int.Cl. G05B 19/418 (2006.01) G06Q 50/04 (2012.01) G06F 30/20 (2020.01) G05B 17/02 (2006.01)**
[25] EN
[54] **OPERATOR ASSISTANCE IN AN AUTOMATION SYSTEM**
[54] **ASSISTANCE D'OPERATEUR DANS UN SYSTEME D'AUTOMATISATION**
[72] AZHAR, SAAD, SE
[72] LE, DUY, VN
[71] ABB SCHWEIZ AG, CH
[85] 2024-06-14
[86] 2022-01-04 (PCT/EP2022/050049)
[87] (WO2023/131391)

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[13] A1
[51] **Int.Cl. C07K 16/24 (2006.01) C12N 5/07 (2010.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **ANTI-TSLP MONOCLONAL ANTIBODY, ANTIGEN-BINDING FRAGMENT THEREOF AND USE THEREOF**
[54] **ANTICORPS MONOCLONAL ANTI-TSLP, FRAGMENT DE LIAISON A L'ANTIGENE DE CELUI-CI ET SON UTILISATION**
[72] BAI, YI, CN
[72] PEI, SHUANG, CN
[72] LIU, SI, CN
[71] BEIJING DONGFANG BIOTECH CO., LTD., CN
[85] 2024-05-30
[86] 2022-11-18 (PCT/CN2022/132848)
[87] (WO2023/098491)
[30] CN (202111461974.6) 2021-12-02

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[13] A1
[51] **Int.Cl. C10M 169/06 (2006.01) C10M 135/10 (2006.01)**
[25] FR
[54] **CONDUCTIVE LUBRICATING GREASES**
[54] **GRAISSES LUBRIFIANTES CONDUCTRICES**
[72] BOSCO, LIONEL, FR
[71] TOTALENERGIES ONETECH, FR
[85] 2024-05-30
[86] 2022-12-05 (PCT/EP2022/084478)
[87] (WO2023/104742)

[21] **3,241,091**
[13] A1
[51] **Int.Cl. G16H 40/20 (2018.01) H04W 4/029 (2018.01) H04B 10/114 (2013.01)**
[25] EN
[54] **BADGE AND PATIENT SUPPORT APPARATUS COMMUNICATION SYSTEM**
[54] **BADGE ET SYSTEME DE COMMUNICATION D'APPAREIL DE SUPPORT DE PATIENT**
[72] THOTA, MADHU SANDEEP, US
[72] BHIMAVARAPU, KRISHNA SANDEEP, US
[72] PEREIRA, CELSO HENRIQUE FARNESE PIRES, US
[72] NEIHOUSER, KIRBY M., US
[72] TREPANIER, JERALD A., US
[72] THOMAS, MADHU, CA
[72] ALVAREZ, CHRISTOPHER P., US
[72] PAUL, ANISH, US
[72] GRAVES, MICHAEL W., US
[72] GRAVES, BRIANNA R., US
[71] STRYKER CORPORATION, US
[85] 2024-06-14
[86] 2023-06-28 (PCT/US2023/026418)
[87] (WO2024/006332)
[30] US (63/356,061) 2022-06-28
[30] US (63/356,065) 2022-06-28
[30] US (63/356,238) 2022-06-28
[30] US (63/357,363) 2022-06-30

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[13] A1
[51] **Int.Cl. H04N 19/136 (2014.01)**
[25] EN
[54] **IMAGE ENCODING AND DECODING METHOD AND APPARATUS**
[54] **PROCEDE ET DISPOSITIF DE CODAGE ET DE DECODAGE D'IMAGE**
[72] GUO, TIANSHENG, CN
[72] WANG, JING, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-05-30
[86] 2022-11-30 (PCT/CN2022/135204)
[87] (WO2023/098688)
[30] CN (202111470979.5) 2021-12-03

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[13] A1
[51] **Int.Cl. C10M 129/44 (2006.01) C10M 169/06 (2006.01)**
[25] FR
[54] **CONDUCTIVE LUBRICATING GREASES**
[54] **GRAISSES LUBRIFIANTES CONDUCTRICES**
[72] BOSCO, LIONEL, FR
[71] TOTALENERGIES ONETECH, FR
[85] 2024-05-30
[86] 2022-12-05 (PCT/EP2022/084479)
[87] (WO2023/104743)

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[13] A1
[51] **Int.Cl. C11D 3/386 (2006.01) C12N 9/26 (2006.01)**
[25] EN
[54] **VARIANT MALTOPENTAOSE/MALTOHEXAOSE-FORMING ALPHA-AMYLASES**
[54] **ALPHA-AMYLASES FORMANT DES VARIANTS DE MALTOPENTAOSE/MALTOHEXAOSE**
[72] LASSILA, JONATHAN, US
[72] BHATE, MANASI, US
[72] CHAN, AMANDA, US
[72] CHAN, HON KIT, US
[72] LEEFLANG, CHRIS, NL
[72] RAMER, SANDRA W., US
[72] TRAN, PATRICIA, US
[71] DANISCO US INC., US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/081780)
[87] (WO2023/114988)
[30] US (63/290,085) 2021-12-16

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[13] A1
[51] **Int.Cl. E21B 7/06 (2006.01) E21B 17/20 (2006.01)**
[25] EN
[54] **DEPTH ACTIVATED DOWNHOLE ADJUSTABLE BEND ASSEMBLIES**
[54] **ENSEMBLES CINTRES REGLABLES DE FOND DE TROU ACTIVES EN PROFONDEUR**
[72] CLAUSEN, JEFFERY RONALD, US
[72] MARCHAND, NICHOLAS RYAN, CA
[71] NATIONAL OILWELL VARCO, L.P., US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/053199)
[87] (WO2023/114488)
[30] US (63/290,426) 2021-12-16

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[13] A1
[51] **Int.Cl. C07C 215/30 (2006.01) C07D 295/027 (2006.01)**
[25] EN
[54] **METHODS OF SYNTHESIS OF CHIRAL 3,5-DISUBSTITUTED MORPHOLINE COMPOUNDS A ND INTERMEDIATES USEFUL THEREIN**
[54] **PROCEDES DE SYNTHESE DE COMPOSES DE MORPHOLINE 3,5-DISUBSTITUEE CHIRAUX ET INTERMEDIAIRES UTILES DANS CEUX-CI**
[72] SUN, YUANMING, CN
[72] ZHANG, QIN, CN
[72] YANG, JIANZHANG, CN
[72] XU, ZHONGMIN, CN
[72] LAI, XINZHONG, CN
[72] DEERBERG, JOERG, CN
[71] BEIGENE SWITZERLAND GMBH, CH
[85] 2024-05-30
[86] 2022-12-02 (PCT/CN2022/136254)
[87] (WO2023/098882)
[30] CN (PCT/CN2021/135094) 2021-12-02
[30] CN (PCT/CN2021/136466) 2021-12-08

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[13] A1
[51] **Int.Cl. G16H 40/20 (2018.01) H04W 4/029 (2018.01) H04B 10/114 (2013.01)**
[25] EN
[54] **BADGE AND PATIENT SUPPORT APPARATUS COMMUNICATION SYSTEM**
[54] **BADGE ET SYSTEME DE COMMUNICATION D'APPAREIL DE GILET**
[72] TREPANIER, JERALD A., US
[72] NEIHOUSER, KIRBY M., US
[72] BHIMAVARAPU, KRISHNA SANDEEP, US
[72] THOTA, MADHU SANDEEP, US
[72] PEREIRA, CELSO HENRIQUE FARNESE PIRES, US
[72] ALVAREZ, CHRISTOPHER P., US
[72] PAUL, ANISH, US
[72] ETHEN, TYLER JOSEPH, US
[72] BRAJAK, NICHOLAS S., US
[72] THOMAS, MADHU, CA
[71] STRYKER CORPORATION, US
[85] 2024-06-14
[86] 2023-06-28 (PCT/US2023/026440)
[87] (WO2024/006347)
[30] US (63/356,061) 2022-06-28
[30] US (63/356,065) 2022-06-28
[30] US (63/356,238) 2022-06-28
[30] US (63/357,363) 2022-06-30

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[13] A1
[51] **Int.Cl. C04B 28/08 (2006.01) C04B 28/10 (2006.01) C22B 3/04 (2006.01) C22B 7/00 (2006.01)**
[25] EN
[54] **METHOD OF STABILIZING LEACHABLE COMPOUNDS IN A CARBONATE BONDED MATRIX**
[54] **PROCEDE DE STABILISATION DE COMPOSES LIXIVIABLES DANS UNE MATRICE LIEE PAR CARBONATES**
[72] NIELSEN, PETER, BE
[72] SNELLINGS, RUBEN, BE
[72] QUAGHEBEUR, MIEKE, BE
[72] SUMIT, SRIVASTAVA, BE
[72] COOL, PEGIE, BE
[71] VITO NV, BE
[85] 2024-05-30
[86] 2022-12-29 (PCT/EP2022/088035)
[87] (WO2023/126495)
[30] EP (21218314.9) 2021-12-30

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[13] A1
[51] **Int.Cl. C09D 167/08 (2006.01) C08K 5/00 (2006.01) C08K 5/095 (2006.01) C08K 5/098 (2006.01) C08K 5/13 (2006.01) C09D 167/06 (2006.01) C09F 9/00 (2006.01)**
[25] EN
[54] **LIQUID COBALT RESINATE COMPOSITIONS AND METHODS OF PREPARING THE SAME**
[54] **COMPOSITIONS LIQUIDES DE RESINATE DE COBALT ET LEURS PROCEDES DE PREPARATION**
[72] VERCAEMST, CARL, BE
[72] DE VREESE, ROB, BE
[72] DECAT, JAN, BE
[71] UMICORE SPECIALTY MATERIALS BRUGGE, BE
[85] 2024-05-30
[86] 2022-12-05 (PCT/EP2022/084425)
[87] (WO2023/099784)
[30] EP (21212234.5) 2021-12-03

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[13] A1
[51] **Int.Cl. B29C 64/129 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 80/00 (2015.01) B29C 64/259 (2017.01) B29C 64/291 (2017.01) A61C 7/00 (2006.01)**
[25] EN
[54] **ADDITIVE MANUFACTURING APPARATUS WITH OPTICAL MEANS FOR DIFFUSING/SCATTERING PROJECTED UV LIGHT TOWARDS PHOTOCURABLE RESIN**
[54] **APPAREIL DE FABRICATION ADDITIVE A MOYEN OPTIQUE POUR DIFFUSER UNE LUMIERE UV PROJETEE VERS UNE RESINE PHOTODURCISSABLE**
[72] SAUL, SEBASTIAN, DE
[72] BRANDES, CHRISTOPH, DE
[71] DENTSPLY SIRONA INC., US
[71] SIRONA DENTAL SYSTEMS GMBH, DE
[85] 2024-05-30
[86] 2023-01-24 (PCT/EP2023/051633)
[87] (WO2023/156154)
[30] EP (22156974.2) 2022-02-16

[21] **3,241,101**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/021 (2006.01) A61B 5/11 (2006.01)**
[25] EN
[54] **BED HAVING FEATURES TO PASSIVELY MONITOR BLOOD PRESSURE**
[54] **LIT AVEC DES CARACTERISTIQUES POUR SURVEILLER PASSIVEMENT LA PRESSION ARTERIELLE**
[72] GARCIA MOLINA, GARY N., US
[71] SLEEP NUMBER CORPORATION, US
[85] 2024-06-14
[86] 2022-12-20 (PCT/US2022/053483)
[87] (WO2023/122074)
[30] US (63/292,928) 2021-12-22
[30] US (63/352,394) 2022-06-15

[21] **3,241,102**
[13] A1
[51] **Int.Cl. B60L 53/64 (2019.01) B60L 58/12 (2019.01) B60L 58/16 (2019.01)**
[25] EN
[54] **ENERGY CONSUMPTION PREDICTION FOR MACHINE**
[54] **PREDICTION DE CONSOMMATION D'ENERGIE POUR MACHINE**
[72] LANE, CAMERON THOMAS, US
[72] BRAUNSTEIN, MICHAEL DENNIS, US
[71] CATERPILLAR INC., US
[85] 2024-06-14
[86] 2022-12-05 (PCT/US2022/051792)
[87] (WO2023/114033)
[30] US (17/554,810) 2021-12-17

[21] **3,241,103**
[13] A1
[51] **Int.Cl. H03K 17/687 (2006.01)**
[25] EN
[54] **POWER ELECTRONIC DEVICE WITH PARALLELED TRANSISTORS AND A MULTILAYER CERAMIC POWER MODULE**
[54] **DISPOSITIF ELECTRONIQUE DE PUISSANCE AVEC DES TRANSISTORS MONTES EN PARALLELE ET MODULE DE PUISSANCE CERAMIQUE MULTICOUCHE**
[72] LEMBERG, NICHOLAS A., US
[72] VOVOS, ROBERT J., US
[71] BAE SYSTEMS CONTROLS INC., US
[85] 2024-05-30
[86] 2022-11-14 (PCT/US2022/049785)
[87] (WO2023/101803)
[30] US (17/538,777) 2021-11-30

[21] **3,241,104**
[13] A1
[51] **Int.Cl. A61L 2/10 (2006.01) H10N 52/00 (2023.01) C02F 1/00 (2006.01) C02F 1/28 (2006.01) C02F 1/32 (2006.01)**
[25] EN
[54] **WATER TREATMENT PITCHER**
[54] **PICHET DE TRAITEMENT DE L'EAU**
[72] RING, ALLAN, IL
[72] COHEN, AVRAHAM, IL
[72] WAISMAN, ALON, IL
[72] GUR, VLADISLAV, IL
[71] SODASTREAM INDUSTRIES LTD., IL
[85] 2024-06-14
[86] 2022-12-13 (PCT/IL2022/051313)
[87] (WO2023/139572)
[30] US (17/578,454) 2022-01-19

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[13] A1
[51] **Int.Cl. H04N 21/262 (2011.01) H04N 21/41 (2011.01) H04N 21/431 (2011.01) H04N 21/472 (2011.01) H04N 21/4722 (2011.01)**
[25] EN
[54] **AUGMENTED REALITY DISPLAY FOR CONTENT CONSUMPTION BASED ON FIELD OF VIEW**
[54] **AFFICHAGE DE REALITE AUGMENTEE POUR LA CONSOMMATION DE CONTENU BASEE SUR LE CHAMP DE VISION**
[72] SHARMA, SALONI, IN
[72] ALAPATI, GREESHMA JAGADHA PHANI LAKSHMI, IN
[72] SREEKANTH, HARSHITH KUMAR GEJJEGONDANAHALLY, IN
[72] BHADULA, ISHAN, IN
[72] GILL, SIMRANJEET, IN
[72] KUMAR, SOURABH, IN
[72] CHANNAPRAGADA, SRIKANTH, IN
[72] SEHGAL, VIVEK, IN
[72] HARB, REDA, US
[71] ROVI GUIDES, INC., US
[85] 2024-05-30
[86] 2022-11-23 (PCT/US2022/050927)
[87] (WO2023/101882)
[30] US (17/539,620) 2021-12-01
[30] US (17/539,623) 2021-12-01

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[13] A1
[51] **Int.Cl. C04B 14/04 (2006.01) C04B 14/08 (2006.01) C04B 14/30 (2006.01) C04B 14/28 (2006.01)**
[25] EN
[54] **A CEMENTITIOUS MATERIAL BINDER AND METHODS AND SYSTEMS FOR PRODUCING THE SAME WHICH DO NOT RELY ON A SURFACE-ALONE REACTION**
[54] **LIANT POUR MATERIAU CIMENTAIRE ET PROCEDES ET SYSTEMES POUR SA PRODUCTION NE DEPENDANT PAS SUR UNE REACTION DE SURFACE SEULE**
[72] ZIMMERMAN, BRITTANY L., US
[72] COGSWELL, CHRISTOPHER F., US
[72] MACDONALD, KEVIN A., US
[71] YUMMET LLC, US
[85] 2024-05-30
[86] 2022-11-30 (PCT/US2022/051456)
[87] (WO2023/102080)
[30] US (63/284,399) 2021-11-30

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[13] A1
[51] **Int.Cl. B29C 48/21 (2019.01) B32B 3/26 (2006.01) E02D 3/00 (2006.01)**
[25] EN
[54] **EXPANDED MULTILAYER INTEGRAL GEOGRIDS AND METHODS OF MAKING AND USING SAME**
[54] **GEOGRILLES INTEGREES MULTICOUCHES EXPANSEES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] CURSON, ANDREW, GB
[72] JENKINS, TOM-ROSS, GB
[72] WALLER, ANDREW EDWARD, GB
[72] GALLAGHER, DANIEL JOHN, GB
[72] BAKER, DANIEL MARK, US
[72] TYAGI, MANOJ KUMAR, US
[72] CAVANAUGH, JOSEPH, US
[71] TENSAR INTERNATIONAL CORPORATION, US
[85] 2024-06-14
[86] 2022-12-19 (PCT/US2022/081913)
[87] (WO2023/122524)
[30] US (63/291,624) 2021-12-20

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[13] A1
[51] **Int.Cl. A61K 35/19 (2015.01) A61K 8/11 (2006.01) A61K 8/14 (2006.01) A61K 8/98 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR REPAIRING DAMAGE TO SKELETAL MUSCLE**
[54] **COMPOSITIONS ET PROCEDES DE REPARATION DE DOMMAGE AU MUSCLE SQUELETTIQUE**
[72] BEHFAR, ATTA, US
[72] TRABUCO, EMANUEL C., US
[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US
[85] 2024-05-30
[86] 2022-12-01 (PCT/US2022/051527)
[87] (WO2023/121844)
[30] US (63/284,989) 2021-12-01

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[13] A1
[51] **Int.Cl. G01C 9/00 (2006.01) G06T 7/73 (2017.01) G06V 20/50 (2022.01)**
[25] EN
[54] **MACHINE VISION MARKER, SYSTEM AND METHOD FOR IDENTIFYING AND DETERMINING A POSE OF A TARGET OBJECT USING A MACHINE VISION MARKER, AND METHOD OF MANUFACTURING A MACHINE VISION MARKER**
[54] **MARQUEUR DE VISION ARTIFICIELLE, SYSTEME ET PROCEDE D'IDENTIFICATION ET DE DETERMINATION D'UNE POSE D'UN OBJET CIBLE A L'AIDE D'UN MARQUEUR DE VISION ARTIFICIELLE ET PROCEDE DE FABRICATION D'UN MARQUEUR DE VISION ARTIFICIELLE**
[72] BONDY, MICHEL, CA
[72] JASIOBEDZKI, PIOTR, CA
[72] SPRAWSON, GEOFF, CA
[72] FISHER, STEVE, CA
[72] NOVICIC, DRAGISA, CA
[71] MACDONALD, DETTWILER AND ASSOCIATES INC., CA
[85] 2024-06-14
[86] 2022-12-19 (PCT/CA2022/051860)
[87] (WO2023/108304)
[30] US (63/290,931) 2021-12-17

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[13] A1
[51] **Int.Cl. F16C 11/04 (2006.01) F16C 11/10 (2006.01)**
[25] EN
[54] **ROTARY LOCKING DEVICE OR MECHANISM**
[54] **DISPOSITIF OU MECANISME DE VERROUILLAGE ROTATIF**
[72] LI, JIANFENG, CN
[71] SHANGHAI SMELTING SUCCEEDER INTERNATIONAL TRADE CO., LTD., CN
[85] 2024-06-14
[86] 2022-12-12 (PCT/CN2022/138286)
[87] (WO2023/109727)
[30] CN (202111527498.3) 2021-12-14

[21] **3,241,111**
[13] A1
[51] **Int.Cl. C07D 471/14 (2006.01)**
[25] EN
[54] **METHODS OF TREATING NEOPLASTIC DISEASES**
[54] **METHODES DE TRAITEMENT DE MALADIES NEOPLASIQUES**
[72] LANE, HEIDI, CH
[72] BACHMANN, FELIX, CH
[72] LITHERLAND, KARINE, CH
[72] ZAMAN, GUIDO, NL
[71] SILLAJEN, INC., KR
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[54] **SINGLE-DOMAIN HIGH AFFINITY ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS A HAUTE AFFINITE A DOMAINE UNIQUE ET LEURS METHODES D'UTILISATION**
[72] HATEFI, ARASH, US
[72] NIKKHOI, SHAHRYAR KHOSHTINAT, US
[71] RUTGER, THE STATE UNIVERSITY OF NEW JERSEY, US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/081806)
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[54] **ANEURYSM MODELING AND RISK PREDICTION**
[54] **MODELISATION D'ANEVRYSME ET PREDICTION DE RISQUE**
[72] CHUNG, TIMOTHY K., US
[72] VORP, DAVID A., US
[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2024-05-30
[86] 2022-12-02 (PCT/US2022/051718)
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[51] **Int.Cl. B21D 5/04 (2006.01) B30B 15/00 (2006.01)**
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[54] **MODULAR PRESS BRAKE HAVING IMPROVED COMPONENTS AND ACCESSORIES**
[54] **PRESSE-PLIEUSE MODULAIRE AYANT DES COMPOSANTS ET DES ACCESSOIRES AMELIORES**
[72] CLOUTIER, ALEXANDRE, CA
[72] DUMAS, ALEXANDRE, CA
[72] BELANGER, SIMON, CA
[72] BRENNAN, GABRIEL, CA
[71] 2446914 ONTARIO INC., CA
[85] 2024-06-14
[86] 2022-12-15 (PCT/CA2022/051831)
[87] (WO2023/108285)
[30] US (63/289,887) 2021-12-15

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[51] **Int.Cl. C07K 16/30 (2006.01) A61K 39/395 (2006.01) A61K 38/17 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01)**
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[54] **MOLECULES THAT BIND TO CD94/NKG2A HETERODIMER POLYPEPTIDES**
[54] **MOLECULES SE LIANT A DES POLYPEPTIDES HETERODIMERES CD94/NKG2A**
[72] DIMITROV, DIMITER STANCHEV, US
[72] BAEK, DUSAN, US
[72] KIM, YAE JIN, US
[72] MELLORS, JOHN W., US
[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2024-05-30
[86] 2022-12-13 (PCT/US2022/052652)
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[54] **ADSORPTION-BASED CLAUS TAIL GAS TREATMENT**
[54] **TRAITEMENT DE GAZ RESIDUAIRE DE CLAUS A BASE D'ADSORPTION**
[72] LITHOXOOS, GEORGIOS, SA
[72] DUVAL, SEBASTIEN A., SA
[72] OTHMAN, RASHID M., SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2024-05-30
[86] 2022-12-15 (PCT/US2022/052989)
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[54] **TYRE FOR VEHICLE WHEELS**
[54] **PNEU POUR ROUES DE VEHICULE**
[72] SPEZIARI, DIEGO ETTORE, IT
[72] CASAROTTO, GIOVANNI, IT
[71] PIRELLI TYRE S.P.A., IT
[85] 2024-06-14
[86] 2022-12-22 (PCT/IB2022/062658)
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[51] **Int.Cl. A61K 39/215 (2006.01) C07K 14/165 (2006.01) A61P 31/14 (2006.01) C07K 14/00 (2006.01)**
[25] EN
[54] **CORONAVIRUS VACCINE FORMULATIONS**
[54] **FORMULATIONS DE VACCIN A CORONAVIRUS**
[72] SMITH, GALE, US
[72] MASSARE, MICHAEL J., US
[72] TIAN, JING-HUI, US
[71] NOVAVAX, INC., US
[85] 2024-05-30
[86] 2022-11-30 (PCT/US2022/080700)
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[30] US (63/284,497) 2021-11-30
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[51] **Int.Cl. H01F 7/14 (2006.01) H01F 17/06 (2006.01) H02K 7/09 (2006.01)**
[25] EN
[54] **A MAGNETIC TOROID AND A MAGNETICALLY ACTUATED ROTARY COUPLING DEVICE COMPRISING THEREOF**
[54] **TORE MAGNETIQUE ET DISPOSITIF DE COUPLAGE ROTATIF A ACTIONNEMENT MAGNETIQUE LE COMPRENANT**
[72] HERMSEN, FRANCISCUS JOHANNES, MY
[71] HERMSEN, FRANCISCUS JOHANNES, MY
[85] 2024-06-14
[86] 2022-01-28 (PCT/MY2022/050007)
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[51] **Int.Cl. G01N 15/14 (2024.01) G01N 21/03 (2006.01) G01N 21/05 (2006.01) G01N 21/53 (2006.01) G01N 21/64 (2006.01)**
[25] FR
[54] **ELEMENT FOR AN OPTICAL MEASUREMENT SYSTEM**
[54] **ELEMENT POUR SYSTEME DE MESURE OPTIQUE**
[72] MERCHEZ, BENOIT GEORGES GERARD, FR
[71] DIAGDEV, FR
[85] 2024-06-14
[86] 2022-12-16 (PCT/FR2022/052395)
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[51] **Int.Cl. F28D 15/02 (2006.01)**
[25] EN
[54] **FASTENING APPARATUS FOR A CLEANING DEVICE BASED ON INTRODUCING HIGH-AMPLITUDE PRESSURE WAVES**
[54] **APPAREIL DE FIXATION POUR UN DISPOSITIF DE NETTOYAGE BASE SUR L'INTRODUCTION D'ONDES DE PRESSION A HAUTE AMPLITUDE**
[72] HANGARTNER, MARC PETER, CH
[72] MULLER, PAUL, CH
[72] ISELI, MARCO DANIEL, CH
[71] EXPLO ENGINEERING AG, CH
[71] MARTIN GMBH FUR UMWELT- UND ENERGIETECHNIK, DE
[71] HITACHI, ZOSEN INOVA AG, CH
[85] 2024-06-14
[86] 2022-12-15 (PCT/EP2022/086186)
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[30] EP (21215632.7) 2021-12-17

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[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/11 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF EPILEPSIES**
[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT D'EPILEPSIES**
[72] MCDONOUGH, STEFAN I., US
[72] GALLANT-BEHM, CORRIE, US
[72] ANDREONE, BENJAMIN, US
[72] HASSLER, MATTHEW, US
[72] CURTIS, DANIEL, US
[72] GODINHO, BRUNO MIGUEL DA CRUZ, US
[71] ATALANTA THERAPEUTICS, INC., US
[85] 2024-05-30
[86] 2022-12-01 (PCT/US2022/080766)
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[30] US (63/284,932) 2021-12-01

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[13] A1
[51] **Int.Cl. H01P 5/19 (2006.01)**
[25] EN
[54] **MULTI-LEVEL SIGNAL DISTRIBUTION DEVICE WITH ENHANCED ISOLATION**
[54] **DISPOSITIF DE DISTRIBUTION DE SIGNAL MULTINIVEAU A ISOLATION AMELIOREE**
[72] BAILEY, PAUL, US
[71] PPC BROADBAND, INC., US
[85] 2024-06-14
[86] 2022-12-23 (PCT/US2022/053958)
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[13] A1
[51] **Int.Cl. A61B 17/3211 (2006.01) A61B 10/02 (2006.01) A61B 17/32 (2006.01)**
[25] EN
[54] **MEDICAL CUTTING DEVICES AND METHODS OF USE THEREOF**
[54] **DISPOSITIFS DE COUPE MEDICAUX ET LEURS METHODES D'UTILISATION**
[72] KIHICZAK, GEORGE G., US
[71] KIHICZAK, GEORGE G., US
[85] 2024-05-30
[86] 2022-12-06 (PCT/US2022/081035)
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[13] A1
[51] **Int.Cl. C08L 23/04 (2006.01) C08F 210/02 (2006.01) C08L 23/08 (2006.01) C08K 5/09 (2006.01)**
[25] EN
[54] **AQUEOUS DISPERSIONS AND METHODS FOR PRODUCTION**
[54] **DISPERSIONS AQUEUSES ET PROCEDES DE PRODUCTION**
[72] COUTINHO, CECIL, US
[72] LUSVARDI, KATE, US
[72] DRIESSEN, FRANK, US
[71] SOLENIS TECHNOLOGIES CAYMAN, L.P., CH
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/081723)
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[30] US (17/644,578) 2021-12-16

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[51] **Int.Cl. H04N 13/117 (2018.01) H04N 13/332 (2018.01) H04N 13/363 (2018.01) G02B 30/22 (2020.01) G06T 15/20 (2011.01)**
[25] EN
[54] **A THREE-DIMENSIONAL IMAGE DISPLAY SYSTEM**
[54] **SYSTEME D'AFFICHAGE D'IMAGE TRIDIMENSIONNELLE**
[72] DELL, BRUCE ROBERT, AU
[71] AXIOM HOLOGRAPHICS PTY LTD, AU
[85] 2024-06-14
[86] 2022-12-15 (PCT/AU2022/051514)
[87] (WO2023/108222)
[30] AU (2021904072) 2021-12-15
[30] AU (2022902204) 2022-08-05

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[51] **Int.Cl. G16H 40/20 (2018.01) H04W 4/029 (2018.01) H04B 10/114 (2013.01)**
[25] EN
[54] **BADGE AND PATIENT SUPPORT APPARATUS COMMUNICATION SYSTEM**
[54] **BADGE ET SYSTEME DE COMMUNICATION D'APPAREIL DE SUPPORT DE PATIENT**
[72] BHIMAVARAPU, KRISHNA SANDEEP, US
[72] PAUL, ANISH, US
[72] TREPANIER, JERALD A., US
[72] THOMAS, MADHU, CA
[72] THOTA, MADHU SANDEEP, US
[72] PEREIRA, CELSO HENRIQUE FARNESE PIRES, US
[72] ALVAREZ, CHRISTOPHER P., US
[72] MAYORAS, JR. RICHARD C., US
[72] NEIHOUSER, KIRBY M., US
[72] CHILDS, WILLIAM DWIGHT, US
[72] BAIR, MEGAN, US
[72] OTHMAN, RAMSEY H., US
[72] BRAJAK, NICHOLAS S., US
[71] STRYKER CORPORATION, US
[85] 2024-06-14
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[30] US (63/356,238) 2022-06-28
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[51] **Int.Cl. C12Q 1/6886 (2018.01)**
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[54] **ASSAY**
[54] **DOSAGE**
[72] GILBERTSON, RICHARD, GB
[72] RAHRMANN, ERIC, GB
[72] SHORTHOUSE, DAVID, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2024-05-30
[86] 2022-12-02 (PCT/GB2022/053056)
[87] (WO2023/099903)
[30] GB (2117513.8) 2021-12-03

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[51] **Int.Cl. C07D 237/04 (2006.01) C07D 401/12 (2006.01)**
[25] EN
[54] **TETRAHYDROPYRIDAZINES, COMPOSITIONS COMPRISING THEM AND USES THEREOF**
[54] **TETRAHYDROPYRIDAZINES, COMPOSITIONS LES COMPRENANT ET LEURS UTILISATIONS**
[72] GREEN, JEREMY, US
[72] GALLAGHER-DUVAL, SHAWN, CA
[72] LEMIRE, ALEXANDRE, CA
[72] RAVENELLE, FRANCOIS, CA
[71] NOVO NORDISK A/S, DK
[85] 2024-06-14
[86] 2022-12-16 (PCT/CA2022/051841)
[87] (WO2023/108292)
[30] US (63/265,583) 2021-12-17

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[51] **Int.Cl. A61K 31/045 (2006.01) A61K 31/352 (2006.01) A61K 36/185 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **METHOD FOR THE PRODUCTION OF A PLANT EXTRACT**
[54] **PROCEDE DE PRODUCTION D'UN EXTRAIT DE PLANTE**
[72] BAASCH, BASTIAN, DE
[72] FISCHER, CLEMENS, DE
[71] VERTANICAL GMBH, DE
[85] 2024-06-14
[86] 2023-01-27 (PCT/EP2023/052073)
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[30] EP (22 154 007.3) 2022-01-28

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[51] **Int.Cl. F03B 17/06 (2006.01) F03D 5/06 (2006.01) F03G 7/08 (2006.01) H02K 35/02 (2006.01)**
[25] EN
[54] **APPARATUS FOR PRODUCING ELECTRICITY FROM A MOVING FLUID AND METHOD**
[54] **APPAREIL DE PRODUCTION D'ELECTRICITE A PARTIR D'UN FLUIDE EN MOUVEMENT ET PROCEDE**
[72] BARRATT, STEVEN, NO
[71] SINE DELTA AS, NO
[85] 2024-06-14
[86] 2023-01-13 (PCT/NO2023/050006)
[87] (WO2023/140739)
[30] NO (20220068) 2022-01-19

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[51] **Int.Cl. H02J 3/28 (2006.01) H02S 10/12 (2014.01) H02S 10/20 (2014.01) F03D 9/19 (2016.01) F03D 9/20 (2016.01) F03D 9/25 (2016.01) C25B 1/04 (2021.01) F03D 7/04 (2006.01) F03D 9/00 (2016.01) F04B 17/02 (2006.01) H02J 1/00 (2006.01) H02J 3/00 (2006.01) H02J 3/38 (2006.01) H02J 15/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR COLLECTING, GENERATING, AND TRANSMITTING GIGAWATT SCALE ENERGY FROM A PLURALITY OF DISTRIBUTED SOURCES DISPERSED OVER AN AREA**
[54] **SYSTEME DE COLLECTE, DE GENERATION ET DE TRANSMISSION D'ENERGIE A L'ECHELLE DU GIGAWATT A PARTIR D'UNE PLURALITE DE SOURCES DISTRIBUEES DISPERSEES SUR UNE ZONE**
[72] PRIEST, WARNER DENIS, AU
[72] COLWILL, RICHARD DOUGLAS, CN
[72] TANCOCK, ALEXANDER KEITH, CN
[71] INTERCONTINENTAL ENERGY HOLDINGS GROUP LIMITED, VG
[85] 2024-05-30
[86] 2022-03-04 (PCT/IB2022/051953)
[87] (WO2023/105300)
[30] US (63/287,841) 2021-12-09

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[13] A1
[51] **Int.Cl. H05B 47/115 (2020.01)**
[25] EN
[54] **GESTURE-BASED LOAD CONTROL**
[54] **COMMANDE DE CHARGE BASEE SUR DES GESTES**
[72] AARON, CURTIS R., US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2024-06-14
[86] 2022-12-17 (PCT/US2022/053272)
[87] (WO2023/114528)
[30] US (63/265,666) 2021-12-17

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[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **AEROSOL DELIVERY DEVICE WITH IMPROVED SEALING ARRANGEMENT**
[54] **DISPOSITIF DE DISTRIBUTION D'AEROSOL A SYSTEME D'ETANCHEITE AMELIORE**
[72] SHORT, JASON M., US
[71] RAI STRATEGIC HOLDINGS INC, US
[85] 2024-06-14
[86] 2022-12-14 (PCT/IB2022/062227)
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[30] US (17/556,505) 2021-12-20

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[13] A1
[51] **Int.Cl. B22D 41/22 (2006.01) B22D 41/24 (2006.01) B22D 41/26 (2006.01) B22D 41/28 (2006.01)**
[25] EN
[54] **SLIDING CLOSURE FOR A METALLURGICAL VESSEL AND AN EXCHANGEABLE NOZZLE**
[54] **FERMETURE COULISSANTE POUR UNE CUVE METALLURGIQUE ET BUSE REMPLACABLE**
[72] BAUMGARTNER, GUIDO, CH
[72] HEINRICH, BEAT, CH
[71] REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, AT
[85] 2024-06-14
[86] 2022-12-15 (PCT/EP2022/086196)
[87] (WO2023/111202)
[30] EP (21215722.6) 2021-12-17

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[13] A1
[51] **Int.Cl. B01J 21/06 (2006.01) B01J 23/889 (2006.01) B01J 37/18 (2006.01)**
[25] EN
[54] **MANGANESE TITANATE-CONTAINING FISCHER-TROPSCH CATALYST AND METHODS FOR MAKING AND USING SAME**
[54] **CATALYSEUR DE FISCHER-TROPSCH CONTENANT DU DIOXYDE DE TITANE DE MANGANESE ET SES PROCEDES DE FABRICATION ET D'UTILISATION**
[72] PATERSON, ALEXANDER JAMES, GB
[72] VAN RENSBURG, HENDRIK, GB
[71] BP P.L.C., GB
[85] 2024-06-14
[86] 2022-12-22 (PCT/IB2022/062705)
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[30] EP (21217619.2) 2021-12-23

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[51] **Int.Cl. B63C 11/48 (2006.01) B63B 21/66 (2006.01) B63G 8/14 (2006.01) B63G 8/42 (2006.01)**
[25] EN
[54] **METHOD FOR ASSISTING WITH GUIDING A SURFACE VESSEL FOR TOWING AN UNDERWATER DEVICE BY MEANS OF A CABLE**
[54] **PROCEDE D'AIDE AU GUIDAGE D'UN BATIMENT DE SURFACE DESTINE A REMORQUER UN DISPOSITIF SOUS-MARIN PAR L'INTERMEDIAIRE D'UN CABLE**
[72] DUPUIS, QUENTIN, FR
[72] BOREL, CHRISTOPHE, FR
[71] THALES, FR
[85] 2024-06-14
[86] 2022-12-12 (PCT/EP2022/085308)
[87] (WO2023/117518)
[30] FR (FR2114115) 2021-12-21

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[51] **Int.Cl. B60L 58/16 (2019.01) B60L 58/12 (2019.01) G01R 31/392 (2019.01)**
[25] EN
[54] **MACHINE AND BATTERY SYSTEM PROGNOSTICS**
[54] **PRONOSTIC DE SYSTEME DE MACHINE ET DE BATTERIE**
[72] BRAUNSTEIN, MICHAEL D., US
[72] LANE, CAMERON T., US
[71] CATERPILLAR INC., US
[85] 2024-06-14
[86] 2022-12-05 (PCT/US2022/080907)
[87] (WO2023/114655)
[30] US (17/554,730) 2021-12-17

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[51] **Int.Cl. A23G 1/30 (2006.01) A23G 1/32 (2006.01) A23G 1/48 (2006.01) A23G 1/56 (2006.01) A23G 9/32 (2006.01)**
[25] EN
[54] **SENSORY MODIFIERS FOR REDUCED SUGAR COCOA COMPOSITIONS**
[54] **MODIFICATEURS SENSORIELS POUR COMPOSITIONS DE CACAO A TENEUR REDUITE EN SUCRE**
[72] FIEGEL, ALEXANDRA JEAN, US
[72] GASPARD, DANIEL SCOTT, US
[72] KOKKINIDOU, SMARO GERMANN, US
[72] SARANGAPANI, RAMA KRISHNA, US
[72] SCHMELZER, WADE NOLAN, US
[72] ZARTH, ADAM T., US
[71] CARGILL, INCORPORATED, US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/081888)
[87] (WO2023/115051)
[30] US (63/265,636) 2021-12-17

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[51] **Int.Cl. C07H 15/26 (2006.01) C07K 1/13 (2006.01) C07K 2/00 (2006.01) C12Q 1/34 (2006.01) G01N 33/52 (2006.01)**
[25] EN
[54] **SUBSTRATES FOR IMAGING GLUCOCEREBROSIDASE ACTIVITY**
[54] **SUBSTRATS POUR L'IMAGERIE DE L'ACTIVITE GLUCOCEREBROSIDASE**
[72] VOCADLO, DAVID, CA
[72] DEEN, MATTHEW, CA
[72] ZHU, SHA, CA
[71] SIMON FRASER UNIVERSITY, CA
[85] 2024-05-30
[86] 2022-12-03 (PCT/IB2022/061738)
[87] (WO2023/100158)
[30] US (63/285,996) 2021-12-03

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[13] A1
[51] **Int.Cl. G01N 33/574 (2006.01)**
[25] EN
[54] **PROSTATE CANCER CLINICAL STATUS MARKERS**
[54] **MARQUEURS D'ETAT CLINIQUE POUR LE CANCER DE LA PROSTATE**
[72] BANZOLA, IRINA, CH
[72] PAVLOVIC, BLAZ, CH
[72] ALIJAJ, NAGJIE LAILA, CH
[72] EBERLI, DANIEL, CH
[71] UNIVERSITAET ZUERICH, CH
[85] 2024-06-14
[86] 2022-12-16 (PCT/EP2022/086491)
[87] (WO2023/111329)
[30] EP (21215742.4) 2021-12-17

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[13] A1
[51] **Int.Cl. A01J 5/013 (2006.01) G01N 21/00 (2006.01)**
[25] EN
[54] **MILKING SYSTEM WITH ANALYSIS UNIT**
[54] **SYSTEME DE TRAITE AVEC UNITE D'ANALYSE**
[72] GAVIN, PETER MICHAEL, NL
[72] MCCHESNEY, DARBY ANNE, NL
[71] LELY PATENT N.V., NL
[85] 2024-05-30
[86] 2022-12-08 (PCT/IB2022/061929)
[87] (WO2023/111785)
[30] NL (2030155) 2021-12-16

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[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61P 21/00 (2006.01) C07K 14/47 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **SYSTEMIC ADMINISTRATION OF CIRCULAR RNA POLYNUCLEOTIDES ENCODING MUSCLE PROTEINS OR PROTEIN COMPLEXES**
[54] **ADMINISTRATION SYSTEMIQUE DE POLYNUCLEOTIDES D'ARN CIRCULAIRE CODANT POUR DES PROTEINES MUSCULAIRES OU DES COMPLEXES PROTEIQUES**
[72] HORHOTA, ALLEN T., US
[72] WESSELHOEFT, ROBERT ALEXANDER, US
[72] ODATE, SHOBU, US
[72] FONTELONGA, TATIANA, US
[72] YANG, JUNGHOON, US
[71] ORNA THERAPEUTICS, INC., US
[85] 2024-06-14
[86] 2023-01-20 (PCT/US2023/061018)
[87] (WO2023/141586)
[30] US (63/301,931) 2022-01-21
[30] US (63/342,538) 2022-05-16

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[13] A1
[51] **Int.Cl. G01S 3/808 (2006.01) G01S 5/18 (2006.01)**
[25] EN
[54] **METHOD FOR OBTAINING A POSITION OF A SOUND SOURCE**
[54] **PROCEDE D'OBTENTION D'UNE POSITION D'UNE SOURCE SONORE**
[72] SOLVANG, AUDUN, NO
[71] NOMONO AS, NO
[85] 2024-06-14
[86] 2022-12-21 (PCT/EP2022/087370)
[87] (WO2023/118382)
[30] DK (PA202170662) 2021-12-22

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[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 37/08 (2006.01) C07K 16/42 (2006.01)**
[25] EN
[54] **TREATMENT OF ALLERGIC REACTIONS USING ANTI-IGE ANTIBODIES**
[54] **TRAITEMENT DE REACTIONS ALLERGIQUES A L'AIDE D'ANTICORPS ANTI-IGE**
[72] BOTTOLI, IVAN, CH
[72] CABANSKI, MACIEJ, CH
[72] EGGER, ANNA, CH
[72] GAUTIER, AURELIE, CH
[72] KAWAKAMI, FERNANDO TAKESHI, CH
[71] NOVARTIS AG, CH
[85] 2024-05-30
[86] 2022-12-12 (PCT/IB2022/062066)
[87] (WO2023/111811)
[30] US (63/289,373) 2021-12-14

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[13] A1
[51] **Int.Cl. G01N 31/02 (2006.01) G01N 1/40 (2006.01) G01N 33/24 (2006.01)**
[25] EN
[54] **SOIL ANALYSIS METHODS, SYSTEMS AND KITS**
[54] **PROCEDES, SYSTEMES ET KITS D'ANALYSE DE SOL**
[72] FITZJARRALD, TAMARA, US
[71] PRECISION PLANTING LLC, US
[85] 2024-05-30
[86] 2023-01-27 (PCT/IB2023/050730)
[87] (WO2023/170480)
[30] US (63/269,060) 2022-03-09
[30] US (63/269,064) 2022-03-09

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[13] A1
[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **ELECTRONIC ATOMIZATION DEVICE AND ATOMIZER THEREOF**
[54] **DISPOSITIF D'ATOMISATION ELECTRONIQUE ET ATOMISEUR ASSOCIE**
[72] LI, GUANGHUI, CN
[72] GONG, BOXUE, CN
[71] SHENZHEN SMOORE TECHNOLOGY LIMITED, CN
[85] 2024-06-14
[86] 2021-12-30 (PCT/CN2021/142885)
[87] (WO2023/123162)

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[13] A1
[51] **Int.Cl. G01N 31/22 (2006.01) G01N 31/02 (2006.01) G01N 33/24 (2006.01)**
[25] EN
[54] **SOIL ANALYSIS METHODS, SYSTEMS AND KITS**
[54] **PROCEDES, SYSTEMES ET KITS D'ANALYSE DE SOL**
[72] FITZJARRALD, TAMARA, US
[71] PRECISION PLANTING LLC, US
[85] 2024-05-30
[86] 2023-02-02 (PCT/IB2023/050901)
[87] (WO2023/170482)
[30] US (63/269,060) 2022-03-09
[30] US (63/269,064) 2022-03-09

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[13] A1
[51] **Int.Cl. H05H 1/46 (2006.01) H01J 37/32 (2006.01)**
[25] EN
[54] **ELECTRON BIAS CONTROL SIGNALS FOR ELECTRON ENHANCED MATERIAL PROCESSING**
[54] **SIGNAUX DE COMMANDE DE POLARISATION D'ELECTRONS POUR TRAITEMENT DE MATERIAU AMELIORE PAR ELECTRONS**
[72] SANDO, STEWART FRANCIS, US
[72] ANZ, SAMIR JOHN, US
[72] MARGOLESE, DAVID IRWIN, US
[72] GODDARD, WILLIAM ANDREW, US
[71] VELVETCH LLC, US
[85] 2024-06-14
[86] 2023-01-20 (PCT/US2023/060988)
[87] (WO2023/154613)
[30] US (17/668,301) 2022-02-09

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[13] A1
[51] **Int.Cl. G01C 21/20 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS TO SELECT AND PRESENT LEVEL-CHANGE WAY POINTS FOR INDOOR NAVIGATION SYSTEMS**
[54] **PROCEDES ET APPAREILS DE SELECTION ET DE PRESENTATION DE POINTS DE CHEMINEMENT A CHANGEMENT DE NIVEAU POUR SYSTEMES DE NAVIGATION INTERIEURS**
[72] FILIP, DANIEL J., US
[72] SHIN, SEUNG WOO, US
[72] LAI-ONG, ERIC, US
[72] TOH, STEVE, US
[71] GOOGLE LLC, US
[85] 2024-06-14
[86] 2021-12-27 (PCT/US2021/065216)
[87] (WO2023/129125)

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[13] A1
[51] **Int.Cl. B29B 17/02 (2006.01) B29B 17/04 (2006.01)**
[25] EN
[54] **PROCESS FOR RECOVERY OF COMPONENT MATERIALS FROM COMPOSITE PRODUCTS COMPRISING UNCURED RUBBER AND A REINFORCEMENT MATERIAL**
[54] **PROCEDE DE RECUPERATION DE MATERIAUX COMPOSANTS A PARTIR DE PRODUITS COMPOSITES COMPRENANT DU CAOUTCHOUC NON DURCI ET UN MATERIAU DE RENFORCEMENT**
[72] BELL, DAVID, GB
[72] TURNER, ANDREW, GB
[71] RECYCLATECH GROUP LIMITED, GB
[85] 2024-06-14
[86] 2022-12-14 (PCT/GB2022/053232)
[87] (WO2023/111563)
[30] GB (2118205.0) 2021-12-15

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[13] A1
[51] **Int.Cl. C08K 5/00 (2006.01) C08K 5/11 (2006.01)**
[25] EN
[54] **PLASTICIZER FOR POLYMER RESIN COMPOSITIONS**
[54] **PLASTIFIANT POUR COMPOSITIONS DE RESINE POLYMERE**
[72] JAIN, ABHISAR, IN
[72] BAIDYA, DEBATOSH, DE
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-06-14
[86] 2022-11-02 (PCT/US2022/079128)
[87] (WO2023/122381)
[30] IN (202141059280) 2021-12-20

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[13] A1
[51] **Int.Cl. G01N 33/48 (2006.01) G01N 33/49 (2006.01)**
[25] EN
[54] **DIAGNOSTIC LIPID BIOMARKERS FOR COVID-19 AND METHODS FOR USE THEREOF**
[54] **BIOMARQUEURS LIPIDIQUES DE DIAGNOSTIC DE LA COVID-19 ET LEURS METHODES D'UTILISATION**
[72] CUPERLOVIC-CULF, MIROSLAVA, CA
[72] GHAEMI, MOHAMMAD SAJJAD, CA
[72] ALECU, IRINA, CA
[72] BENNETT, STEFFANY, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[71] UNIVERSITY OF OTTAWA, CA
[85] 2024-06-14
[86] 2022-12-16 (PCT/CA2022/051843)
[87] (WO2023/108294)
[30] US (63/291,159) 2021-12-17

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[13] A1
[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/543 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **NOVEL ASSAY AND NOVEL METHODS OF TREATING HUTCHINSON-GILFORD PROGERIA SYNDROME**
[54] **NOUVEAU DOSAGE ET NOUVELLES METHODES DE TRAITEMENT DU SYNDROME DE LA PROGERIA D'HUTCHINSON-GILFORD**
[72] GORDON, LESLIE B., US
[72] HAMREN, SARAH, US
[72] GOODSON, ROBERT, US
[71] THE PROGERIA RESEARCH FOUNDATION, INC., US
[85] 2024-06-14
[86] 2022-12-29 (PCT/IB2022/062870)
[87] (WO2023/126868)
[30] US (63/294,418) 2021-12-29

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[13] A1
[51] **Int.Cl. E21B 29/00 (2006.01) E21B 47/01 (2012.01)**
[25] EN
[54] **INTELLIGENT SECTION MILL, METHOD, AND SYSTEM**
[54] **LAMINOIR INTELLIGENT A PROFILES, PROCEDE ET SYSTEME**
[72] NGUYEN, TUAN, US
[72] MEADOR, CHARLES, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2024-06-14
[86] 2022-12-12 (PCT/US2022/052502)
[87] (WO2023/121895)
[30] US (17/557,974) 2021-12-21

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[13] A1
[51] **Int.Cl. A63D 15/00 (2006.01)**
[25] EN
[54] **BILLIARD TABLE CAPABLE OF PREVENTING BALL JUMPS**
[54] **TABLE DE BILLARD POUVANT EMPECHER DES SAUTS DE BOULE**
[72] QIAO, YUANXU, CN
[71] QIAO, YUANXU, CN
[85] 2024-06-14
[86] 2022-11-15 (PCT/CN2022/131875)
[87] (WO2023/109406)
[30] CN (202111542227.5) 2021-12-16

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[13] A1
[51] **Int.Cl. C07D 491/22 (2006.01) A61K 47/68 (2017.01) C07D 495/22 (2006.01)**
[25] EN
[54] **CAMPTOTHECIN COMPOUND AND CONJUGATE THEREOF**
[54] **COMPOSE DE CAMPTOTHECINE ET CONJUGUE ASSOCIE**
[72] ZHOU, WEI, CN
[72] XU, HUI, CN
[72] ZHU, HUIKAI, CN
[72] WANG, ZHENZHEN, CN
[72] TAN, XIAODING, CN
[71] MABWELL (SHANGHAI) BIOSCIENCE CO., LTD., CN
[71] JIANGSU MABWELL HEALTH PHARMACEUTICAL R&D CO., LTD., CN
[85] 2024-06-14
[86] 2022-12-16 (PCT/CN2022/139765)
[87] (WO2023/109965)
[30] CN (202111544686.7) 2021-12-16

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[13] A1
[51] **Int.Cl. A61L 2/20 (2006.01) A61L 9/16 (2006.01)**
[25] EN
[54] **SYSTEMS, APPARATUS AND METHODS FOR STERILIZING AN OBJECT USING A SELF-CONTAINED STERILIZATION CHAMBER**
[54] **SYSTEMES, APPAREIL ET PROCEDES DE STERILISATION D'UN OBJET A L'AIDE D'UNE CHAMBRE DE STERILISATION AUTONOME**
[72] TIFFT, BRIAN, US
[72] ANDERSON, GARY, US
[72] BELFANCE, JOHN, US
[71] CSP TECHNOLOGIES, INC., US
[85] 2024-06-14
[86] 2023-02-17 (PCT/US2023/062785)
[87] (WO2023/159158)
[30] US (63/268,164) 2022-02-17

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[13] A1
[51] **Int.Cl. B01D 29/05 (2006.01) B01D 35/18 (2006.01) C01B 17/02 (2006.01)**
[25] EN
[54] **SELF-CLEANING FILTERING DEVICE, SYSTEM AND METHOD OF PREPARING A MIXTURE OF LIQUID SULPHUR WITH BENTONITE FOR GRANULATION**
[54] **DISPOSITIF DE FILTRATION AUTONETTOYANT, SYSTEME ET PROCEDE DE PREPARATION D'UN MELANGE DE SOUFRE LIQUIDE AVEC DE LA BENTONITE POUR GRANULATION**
[72] BARTMAN, TOMASZ, PL
[72] MILO, ?UKASZ, PL
[72] KRAWCZYK, BOGUS?AW, PL
[72] TURBIARZ, HENRYK, PL
[71] ZAKLADY CHEMICZNE SIARKOPOL TARNOBRZEG SP. Z O.O., PL
[85] 2024-06-14
[86] 2022-12-12 (PCT/IB2022/062061)
[87] (WO2023/111807)
[30] PL (439844) 2021-12-15

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[13] A1
[51] **Int.Cl. A46B 11/02 (2006.01) A45D 40/04 (2006.01) A45D 40/16 (2006.01) A47K 7/03 (2006.01) A47L 1/15 (2006.01) A47L 13/17 (2006.01) A47L 17/08 (2006.01)**
[25] EN
[54] **REFILLABLE PERSONAL HYGIENE PRODUCT DISPENSER**
[54] **DISTRIBUTEUR DE PRODUIT D'HYGIENE PERSONNELLE RECHARGEABLE**
[72] ROBERTS, JAMES, CA
[72] HANSEN, TODD, CA
[71] BATTEN INDUSTRIES INC., CA
[85] 2024-06-14
[86] 2022-11-23 (PCT/CA2022/051726)
[87] (WO2023/108256)
[30] CA (3142766) 2021-12-17
[30] CA (3147337) 2022-02-01
[30] CA (3178005) 2022-09-30

[21] **3,241,161**
[13] A1
[51] **Int.Cl. C07C 41/46 (2006.01) C08G 65/30 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING OXYPROPYLENE GROUP-CONTAINING GLYCOL ETHER HAVING REDUCED CONETNT OF ALLYL GROUP-CONTAINING IMPURITIES**
[54] **PROCEDE DE PRODUCTION D'ETHER DE GLYCOL CONTENANT UN GROUPE OXYPROPYLENE AYANT UNE TENEUR REDUITE EN IMPURETES CONTENANT UN GROUPE ALLYLE**
[72] PHAN, SON THANH, JP
[72] TAMURA, SEIKI, JP
[72] INAGAKI, HIROYUKI, JP
[71] DOW TORAY CO., LTD., JP
[85] 2024-06-14
[86] 2022-12-15 (PCT/JP2022/046182)
[87] (WO2023/120361)
[30] JP (2021-206680) 2021-12-21

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[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01)**
[25] EN
[54] **BINDING DOMAINS AGAINST CANCER-ASSOCIATED MUC1**
[54] **DOMAINES DE LIAISON DIRIGES CONTRE MUC1 ASSOCIE AU CANCER**
[72] KLOOSTER, RINSE, NL
[72] WIDJAJA, IVY, NL
[72] MAYES, PATRICK, US
[72] NASTRI, HORACIO G., US
[72] ZHOU, JING, US
[72] GUPTA, VIJAY, US
[72] VARGHESE, BINDU, US
[71] MERUS N.V., NL
[85] 2024-06-14
[86] 2022-12-20 (PCT/NL2022/050738)
[87] (WO2023/121448)
[30] NL (2030198) 2021-12-21

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[13] A1
[51] **Int.Cl. H01J 37/065 (2006.01) H01J 3/02 (2006.01)**
[25] EN
[54] **ELECTRON GUN AND SYSTEM AND METHOD USING ELECTRON GUN**
[54] **CANON A ELECTRONS ET SYSTEME ET PROCEDE UTILISANT UN CANON A ELECTRONS**
[72] EDINGER, RALF, CA
[71] EDINGER, RALF, CA
[85] 2024-06-14
[86] 2022-12-20 (PCT/CA2022/051872)
[87] (WO2023/122831)
[30] US (63/294,303) 2021-12-28

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[13] A1
[51] **Int.Cl. B01J 20/06 (2006.01) B01J 20/28 (2006.01) B01J 20/30 (2006.01) C01D 15/00 (2006.01) C02F 1/28 (2006.01)**
[25] EN
[54] **MAGNETIC TITANIUM-BASED LITHIUM ADSORBENT AND PREPARATION METHOD THEREFOR**
[54] **ADSORBANT DE LITHIUM A BASE DE TITANE MAGNETIQUE ET SON PROCEDE DE PREPARATION**
[72] WANG, XIYU, CN
[72] LIN, HONGYE, CN
[72] LIAN, JUNLAN, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-06-14
[86] 2022-12-16 (PCT/CN2022/139610)
[87] (WO2023/116570)
[30] CN (202111567446.9) 2021-12-20

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[13] A1
[51] **Int.Cl. C01B 3/56 (2006.01) C01B 3/34 (2006.01) C01B 3/48 (2006.01) C01B 3/50 (2006.01)**
[25] EN
[54] **PROCESS FOR HYDROGEN PRODUCTION WITH LOW CARBON DIOXIDE EMISSION**
[54] **PROCEDE DE PRODUCTION D'HYDROGENE A FAIBLE EMISSION DE DIOXYDE DE CARBONE**
[72] LEITMAYR, WERNER, DE
[72] LANG, MARTIN, DE
[71] LINDE GMBH, DE
[85] 2024-06-14
[86] 2022-11-16 (PCT/EP2022/025515)
[87] (WO2023/117130)
[30] EP (21020650.4) 2021-12-21

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[13] A1
[51] **Int.Cl. B60H 1/32 (2006.01) F25B 41/00 (2021.01) F28C 1/00 (2006.01) F28D 5/00 (2006.01) F28D 5/02 (2006.01) F28F 25/00 (2006.01) F28F 25/08 (2006.01) F28C 1/02 (2006.01) F28C 1/14 (2006.01) F28F 25/02 (2006.01)**
[25] EN
[54] **NON-ELECTROMECHANICAL, PUMPLESS LIQUID RECIRCULATION SYSTEM FOR AIR-COOLED CONDENSER AND COOLER ADIABATIC PRE-COOLING SYSTEM**
[54] **SYSTEME DE RECIRCULATION DE LIQUIDE SANS POMPE NON-ELECTROMECANIQUE POUR SYSTEME DE PRE-REFROIDISSEMENT ADIABATIQUE DE REFROIDISSEUR ET CONDENSEUR REFROIDI PAR AIR**
[72] STRUDER, GORDON, US
[72] GOPALAN, SHRIDHAR, US
[71] EVAPCO, INC., US
[85] 2024-06-14
[86] 2022-12-19 (PCT/US2022/081946)
[87] (WO2023/115061)
[30] US (63/291,101) 2021-12-17
[30] US (18/068,238) 2022-12-19

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[13] A1
[51] **Int.Cl. A61K 31/01 (2006.01) A61K 31/02 (2006.01) A61K 31/065 (2006.01) A61K 31/15 (2006.01)**
[25] EN
[54] **PHENYLETHYLIDENEHYDRAZINE DIMERS AND METHODS OF USING SAME**
[54] **DIMERES DE PHENYLETHYLIDENEHYDRAZINE ET LEURS PROCEDES D'UTILISATION**
[72] ABRAHAM, MAGID, US
[72] ASHWELL, MARK A., US
[72] STAHL, STEVE, US
[71] NEURAWELL THERAPEUTICS, US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/053108)
[87] (WO2023/114453)
[30] US (63/290,634) 2021-12-16

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[13] A1
[51] **Int.Cl. B31B 50/32 (2017.01) B31B 50/34 (2017.01) B31C 1/00 (2006.01) B31C 1/08 (2006.01) B31C 7/04 (2006.01) B31D 5/00 (2017.01) B31F 7/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR AUTOMATICALLY PRODUCING TUBULAR ELEMENTS**
[54] **APPAREIL ET PROCEDE DE PRODUCTION AUTOMATIQUE D'ELEMENTS TUBULAIRES**
[72] CAPORALE, ANTONIO, IT
[72] GALLETTI, LUCA, IT
[71] I.M.A. INDUSTRIA MACCHINE AUTOMATICHE S.P.A., IT
[85] 2024-06-14
[86] 2022-12-22 (PCT/IT2022/050339)
[87] (WO2023/126987)
[30] IT (102021000032735) 2021-12-28

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[13] A1
[51] **Int.Cl. A61K 9/10 (2006.01) A61K 31/519 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/44 (2017.01) A61P 1/00 (2006.01)**
[25] EN
[54] **SAPROPTERIN FORMULATION**
[54] **FORMULATION DE SAPROPTERINE**
[72] WAGSTAFF, CHRISTOPHER, GB
[72] TICKLE, STEPHEN, GB
[71] APR APPLIED PHARMA RESEARCH SA, CH
[85] 2024-06-14
[86] 2023-02-02 (PCT/IB2023/050932)
[87] (WO2023/148662)
[30] GB (2201356.9) 2022-02-02

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[13] A1
[51] **Int.Cl. B60L 53/63 (2019.01) B60L 53/30 (2019.01) B60L 53/64 (2019.01) B60L 58/16 (2019.01)**
[25] EN
[54] **FLEET AND TROLLEY SYSTEM FOR ZERO-EMISSION MACHINES**
[54] **SYSTEME DE FLOTTE ET DE CHARIOTS POUR DES MACHINES A ZERO EMISSION**
[72] WULF, STEFAN J., US
[72] LANE, CAMERON T., US
[72] ORGAN, DANIEL J., US
[71] CATERPILLAR INC., US
[85] 2024-06-14
[86] 2022-12-05 (PCT/US2022/051799)
[87] (WO2023/121859)
[30] US (17/557,788) 2021-12-21

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[13] A1
[51] **Int.Cl. G01N 33/50 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING CHRONIC KIDNEY DISEASE**
[54] **COMPOSITIONS ET METHODES DE DIAGNOSTIC ET DE TRAITEMENT D'UNE MALADIE RENALE CHRONIQUE**
[72] LI, QINGHONG, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-06-14
[86] 2022-12-16 (PCT/IB2022/062412)
[87] (WO2023/126759)
[30] US (63/293,855) 2021-12-27

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[13] A1
[51] **Int.Cl. F04D 17/10 (2006.01) F04D 27/00 (2006.01) F04D 27/02 (2006.01)**
[25] EN
[54] **PROCESSES AND APPARATUSES FOR OPERATING A GAS COMPRESSOR**
[54] **PROCEDES ET APPAREILS POUR FAIRE FONCTIONNER UN COMPRESSEUR DE GAZ**
[72] RUSSELL, BRADLEY, US
[72] VAN DE COTTE, MICHAEL R., US
[72] CADY, WILLIAM, US
[72] KHAZENI, NASSER, US
[71] UOP, LLC, US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/081803)
[87] (WO2023/122501)
[30] US (63/292,523) 2021-12-22

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[13] A1
[51] **Int.Cl. C07D 471/12 (2006.01) A61K 31/4375 (2006.01) C07D 498/12 (2006.01)**
[25] EN
[54] **AROMATIC HETEROCYCLIC COMPOUNDS, PREPARATION METHOD THEREFOR AND USES THEREOF**
[54] **COMPOSES HETEROCYCLIQUES AROMATIQUES, LEUR PROCEDE DE PREPARATION ET LEURS UTILISATIONS**
[72] SONG, YUNLONG, CN
[72] ZHOU, YUANSHU, CN
[72] FU, YIWEI, CN
[72] LI, DAPEI, CN
[72] WANG, DISHA, CN
[72] KOU, HONGYAN, CN
[72] ZHAO, LIANG, CN
[72] LU, KAI, CN
[72] DONG, WEIBING, CN
[72] LAI, QINGQIN, CN
[71] INNOVSTONE THERAPEUTICS LIMITED, CN
[85] 2024-06-14
[86] 2022-12-15 (PCT/CN2022/139334)
[87] (WO2023/109909)
[30] CN (202111536972.9) 2021-12-15
[30] CN (202210449583.0) 2022-04-24

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[13] A1
[51] **Int.Cl. C08K 5/00 (2006.01) C08K 5/20 (2006.01)**
[25] FR
[54] **USE OF BISAMIDE COMPOUNDS TO IMPROVE THE AGEING RESISTANCE OF BITUMEN**
[54] **UTILISATION DE COMPOSES BISAMIDE POUR AMELIORER LA RESISTANCE AU VIEILLISSEMENT DU BITUME**
[72] PREVOST, JULIE, FR
[72] BOUTEILLER, LAURENT, FR
[72] PENSEC, SANDRINE, FR
[72] FORT, OCEANE, FR
[71] TOTALENERGIES ONETECH, FR
[71] SORBONNE UNIVERSITE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[85] 2024-06-14
[86] 2022-12-12 (PCT/EP2022/085422)
[87] (WO2023/110761)
[30] FR (FR2113817) 2021-12-17

[21] **3,241,175**
[13] A1
[51] **Int.Cl. B07C 5/36 (2006.01) B65G 1/04 (2006.01) B65G 1/137 (2006.01)**
[25] FR
[54] **AUTOMATED SYSTEM FOR VERTICAL SORTING OF ARTICLES AND METHOD**
[54] **SYSTEME AUTOMATISE DE TRI VERTICAL D'ARTICLES ET PROCEDE**
[72] CHERIF IDRISSI EL GANOUNI, OUSSAMA, FR
[71] FIVES XCELLA, FR
[85] 2024-06-14
[86] 2022-12-13 (PCT/EP2022/085512)
[87] (WO2023/117565)
[30] FR (FR2114353) 2021-12-23

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[13] A1
[51] **Int.Cl. C08F 2/26 (2006.01) C08F 220/14 (2006.01) C09D 133/12 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING AN AQUEOUS POLYMER DISPERSION**
[54] **PROCEDE DE PREPARATION D'UNE DISPERSION AQUEUSE DE POLYMERE**
[72] LOHMEIJER, BASTIAAN, DE
[72] ROSCHMANN, KONRAD, DE
[72] ULPINS, GUENTER, DE
[71] BASF SE, DE
[85] 2024-06-14
[86] 2022-12-14 (PCT/EP2022/085845)
[87] (WO2023/111013)
[30] EP (21214768.0) 2021-12-15

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[13] A1
[51] **Int.Cl. E02F 3/30 (2006.01) E02F 3/38 (2006.01) E02F 3/52 (2006.01) E02F 3/54 (2006.01)**
[25] EN
[54] **DIPPER HANDLE ASSEMBLY YOKE HAVING A TRANSITION PORTION DISTAL END WITH ANGLED ORIENTATION**
[54] **FOURCHE D'ENSEMBLE BRAS DE GODET AYANT UNE EXTREMITE DISTALE DE PARTIE DE TRANSITION A ORIENTATION INCLINEE**
[72] ZAHARIA, CRISTIAN, US
[72] HAWS, MICHAEL W., US
[72] KINJARAPU, ARUNA, US
[72] KORCHAGIN, VLADIMIR A., US
[72] JAMILOSA, JAMES G., US
[71] CATERPILLAR GLOBAL MINING LLC, US
[85] 2024-06-14
[86] 2022-12-06 (PCT/US2022/080997)
[87] (WO2023/122428)
[30] US (17/558,941) 2021-12-22

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[13] A1
[51] **Int.Cl. C10B 19/00 (2006.01) C10B 57/02 (2006.01) C10B 57/14 (2006.01) C10B 57/16 (2006.01) C10B 57/18 (2006.01) C10J 3/58 (2006.01) C10J 3/72 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CO2 NEGATIVE PRODUCTION OF HEAT AND POWER IN COMBINATION WITH HYDROGEN (CHPH)**
[54] **PROCEDE ET APPAREIL DE PRODUCTION NEGATIVE DE CO2 DE CHALEUR ET DE PUISSANCE EN COMBINAISON AVEC DE L'HYDROGENE (CHPH)**
[72] KASIN, KJELL IVAR, NO
[71] KASIN, KJELL IVAR, NO
[85] 2024-06-14
[86] 2022-12-16 (PCT/NO2022/050315)
[87] (WO2023/121471)
[30] NO (20211569) 2021-12-21

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[13] A1
[51] **Int.Cl. B32B 3/06 (2006.01) B32B 7/05 (2019.01) B32B 3/08 (2006.01) B32B 7/02 (2019.01) B32B 7/06 (2019.01) B32B 7/12 (2006.01) B32B 33/00 (2006.01)**
[25] EN
[54] **BARRIER COMPOSITE WITH AN INTEGRAL RELEASE LAYER AND METHOD OF MAKING SAME**
[54] **COMPOSITE BARRIERE AYANT UNE COUCHE DE DECOLLEMENT INTEGREE ET PROCEDE DE FABRICATION DE CELUI-CI**
[72] SETH, MANISH, CA
[72] JONES, GREGORY K., US
[71] AVENEX COATING TECHNOLOGIES KFT., HU
[85] 2024-06-14
[86] 2022-12-15 (PCT/IB2022/062319)
[87] (WO2023/111950)
[30] US (63/290,015) 2021-12-15

[21] **3,241,181**
[13] A1
[51] **Int.Cl. C07K 16/22 (2006.01)**
[25] EN
[54] **POLYPEPTIDES THAT BIND PROANGIOGENIC GROWTH FACTORS**
[54] **POLYPEPTIDES DE LIAISON DES FACTEURS DE CROISSANCE PROANGIOGENIQUES**
[72] GONZALEZ MOYA, ISABEL, CU
[72] BEQUET ROMERO, MONICA, CU
[72] AYALA AVILA, MARTA, CU
[72] MORERA DIAZ, YANELYS, CU
[72] MUNOZ POZO, YASMIANA, CU
[72] CANAAN-HADEN AYALA, CAMILA, CU
[72] LAMDAN ORDAS, HUMBERTO, CU
[72] GONZALEZ BLANCO, SONIA, CU
[72] GAVILONDO COWLEY, JORGE VICTOR (DECEASED), XX
[72] SANCHEZ RAMIREZ, JAVIER, CU
[71] CENTRO DE INGENIERIA GENETICA Y BIOTECNOLOGIA, CU
[85] 2024-06-14
[86] 2022-10-06 (PCT/CU2022/050011)
[87] (WO2023/109982)
[30] CU (2021-0101) 2021-12-15

[21] **3,241,182**
[13] A1
[51] **Int.Cl. G08B 13/196 (2006.01)**
[25] EN
[54] **BATCH SIZE ADJUSTMENT USING LATENCY-CRITICAL EVENT RECOGNITION**
[54] **REGLAGE DE TAILLE DE LOT UTILISANT UNE RECONNAISSANCE D'EVENEMENT CRITIQUE DE LATENCE**
[72] CHEN, YU-SHENG, US
[72] WAGNER, MATTHEW, US
[71] GOOGLE LLC, US
[85] 2024-06-14
[86] 2022-12-09 (PCT/US2022/081295)
[87] (WO2023/133020)
[30] US (17/568,439) 2022-01-04

[21] **3,241,185**
[13] A1
[51] **Int.Cl. E02F 3/30 (2006.01) E02F 3/38 (2006.01) E02F 3/52 (2006.01) E02F 3/54 (2006.01)**
[25] EN
[54] **DIPPER HANDLE ASSEMBLY**
[54] **ENSEMBLE BRAS DE GODET**
[72] ZAHARIA, CRISTIAN, US
[72] HAWS, MICHAEL W., US
[72] KINJARAPU, ARUNA, US
[72] KORCHAGIN, VLADIMIR A., US
[72] JAMILOSA, JAMES G., US
[71] CATERPILLAR GLOBAL MINING LLC, US
[85] 2024-06-14
[86] 2022-12-14 (PCT/US2022/052767)
[87] (WO2023/121927)
[30] US (17/558,987) 2021-12-22

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[13] A1
[51] **Int.Cl. C07K 14/71 (2006.01)**
[25] EN
[54] **CONSTITUTIVE CYTOKINE RECEPTORS**
[54] **RECEPTEURS DE CYTOKINES CONSTITUTIFS**
[72] MARTINEZ-LLORDELLA, MARC, GB
[72] TUNG, SIM, GB
[72] MCCLOSKEY, BETHANY, GB
[71] QUELL THERAPEUTICS LIMITED, GB
[85] 2024-06-14
[86] 2022-12-22 (PCT/GB2022/053359)
[87] (WO2023/118878)
[30] GB (2118797.6) 2021-12-22

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[13] A1
[51] **Int.Cl. G01N 21/17 (2006.01) G01N 21/53 (2006.01) G01S 17/02 (2020.01) G01S 17/88 (2006.01) G06F 17/11 (2006.01) G06F 17/15 (2006.01) G01N 21/3504 (2014.01)**
[25] EN
[54] **APPARATUSES, SYSTEMS, AND METHODS FOR DETERMINING GAS EMSSION RATE DETECTION SENSITIVITY AND GAS FLOW SPEED USING REMOTE GAS CONCENTRATION MEASUREMENTS**
[54] **APPAREILS, SYSTEMES ET PROCEDES DE DETERMINATION DE SENSIBILITE DE DETECTION DE TAUX D'EMISSION DE GAZ ET DE VITESSE D'ECOULEMENT DE GAZ A L'AIDE DE MESURES DE CONCENTRATION DE GAZ A DISTANC**
[72] THORPE, MICHAEL JAMES, US
[72] KREITINGER, AARON THOMAS, US
[71] BRIDGER PHOTONICS, INC., US
[85] 2024-06-14
[86] 2022-11-10 (PCT/US2022/079669)
[87] (WO2023/132998)
[30] US (63/298,134) 2022-01-10

[21] **3,241,189**
[13] A1
[51] **Int.Cl. H01M 4/131 (2010.01)**
[25] EN
[54] **CATHODE MATERIALS HAVING OXIDE SURFACE SPECIES**
[54] **MATERIAUX DE CATHODE AYANT DES ESPECES DE SURFACE D'OXYDE**
[72] CHAO, CHENG-CHIEH, US
[72] CHAVEZ, SARAH, US
[72] CHUNG, HYESEUNG, US
[72] ITO, SEITARO, US
[72] KATOH, YUKI, US
[72] LOKSHIN, KONSTANTIN, US
[72] OHASHI, AKINARI, US
[72] SILVER, JESSA, US
[72] TIAN, YAOSEN, US
[72] XU, VIRGIL, US
[72] YU, ZHENFENG, US
[71] QUANTUMSCAPE BATTERY, INC., US
[85] 2024-06-14
[86] 2022-12-15 (PCT/US2022/053080)
[87] (WO2023/114436)
[30] US (63/291,209) 2021-12-17
[30] US (63/299,732) 2022-01-14

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[13] A1
[51] **Int.Cl. E02F 9/20 (2006.01) E02F 9/26 (2006.01)**
[25] EN
[54] **WORK MACHINE**
[54] **ENGIN DE CHANTIER**
[72] KOTANI, TADASHI, JP
[72] SAITOH, TEPPEI, JP
[72] NARIKAWA, RYU, JP
[72] ITO, HIDEAKI, JP
[72] ISHIMOTO, HIDEFUMI, JP
[72] SATO, KEI, JP
[71] HITACHI CONSTRUCTION MACHINERY CO., LTD., JP
[85] 2024-06-14
[86] 2023-01-13 (PCT/JP2023/000808)
[87] (WO2023/136326)
[30] JP (2022-004559) 2022-01-14

[21] **3,241,192**
[13] A1
[51] **Int.Cl. B01D 45/16 (2006.01) B01D 50/20 (2022.01) B04C 3/06 (2006.01)**
[25] EN
[54] **AIR PRE-CLEANER SPIN TUBE**
[54] **TUBE EN ROTATION DE PRE-EPURATEUR D'AIR**
[72] CALIENDO, VINCENT P., US
[71] CATERPILLAR INC., US
[85] 2024-06-14
[86] 2022-12-06 (PCT/US2022/080975)
[87] (WO2023/122424)
[30] US (17/558,772) 2021-12-22

[21] **3,241,193**
[13] A1
[51] **Int.Cl. C12N 9/78 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **NOVEL ZINC FINGER FUSION PROTEINS FOR NUCLEOBASE EDITING**
[54] **NOUVELLES PROTEINES DE FUSION A DOIGT DE ZINC POUR L'EDITION DE NUCLEOBASES**
[72] FAUSER, FRIEDRICH A., US
[72] MILLER, JEFFREY C., US
[72] ARANGUNDY, SEBASTIAN, US
[71] SANGAMO THERAPEUTICS, INC., US
[85] 2024-06-14
[86] 2022-12-22 (PCT/US2022/082232)
[87] (WO2023/122722)
[30] US (63/292,817) 2021-12-22

[21] **3,241,194**
[13] A1
[51] **Int.Cl. G16H 50/50 (2018.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED METHOD FOR THE SIMULATION OF MYOCARDIAL BLOOD FLOW UNDER STRESS CONDITIONS**
[54] **PROCEDE MIS EN ?UVRE PAR ORDINATEUR POUR LA SIMULATION D'UN DEBIT SANGUIN MYOCARDIQUE DANS DES CONDITIONS DE STRESS**
[72] DI GREGORIO, SIMONE, IT
[72] PONTONE, GIANLUCA, IT
[72] QUARTERONI, ALFIO, IT
[72] VERGARA, CHRISTIAN, IT
[71] CENTRO CARDIOLOGICO MONZINO S.P.A., IT
[85] 2024-06-14
[86] 2022-12-12 (PCT/IB2022/062070)
[87] (WO2023/111814)
[30] IT (102021000031475) 2021-12-15

[21] **3,241,195**
[13] A1
[51] **Int.Cl. B01D 53/62 (2006.01) C01B 32/60 (2017.01) B01D 53/78 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DIRECT AIR CARBON DIOXIDE CAPTURE**
[54] **SYSTEMES ET PROCEDES DE CAPTURE DIRECTE DE DIOXYDE DE CARBONE DANS L'AIR**
[72] COHEN-COLE, ETHAN, US
[72] SHORS, LUKE, NZ
[72] SURANA, RAHUL, US
[72] LANDAU, ZEPH, US
[71] CAPTURE6 CORP, US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/053177)
[87] (WO2023/114474)
[30] US (63/290,467) 2021-12-16
[30] US (63/341,883) 2022-05-13
[30] US (63/355,368) 2022-06-24
[30] US (63/389,095) 2022-07-14
[30] US (63/413,021) 2022-10-04

[21] **3,241,196**
[13] A1
[51] **Int.Cl. F25J 1/00 (2006.01)**
[25] EN
[54] **METHOD FOR LARGE HYDROGEN LIQUEFACTION SYSTM**
[54] **PROCEDE POUR SYSTEME DE LIQUEFACTION D'HYDROGENE DE GRANDE TAILLE**
[72] TURNEY, MICHAEL A., US
[72] LE BOT, PATRICK, US
[72] GUILLARD, ALAIN, US
[72] CHAN, BOBBY MON-FLAN, US
[72] FUENTES, FRANCOIS, US
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/053257)
[87] (WO2023/121985)
[30] US (63/293,080) 2021-12-22

[21] **3,241,197**
[13] A1
[51] **Int.Cl. C08G 18/40 (2006.01) C08G 18/48 (2006.01) C08G 18/62 (2006.01) C08G 18/79 (2006.01) C08L 75/04 (2006.01) C09D 175/04 (2006.01)**
[25] EN
[54] **TWO-COMPONENT POLYURETHANE COMPOSITION**
[54] **COMPOSITION DE POLYURETHANE A DEUX COMPOSANTS**
[72] LIN, DAOSHU, CN
[72] SHEN, CHENG, CN
[72] LI, YAN, CN
[72] TANG, JIA, CN
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-06-14
[86] 2021-12-23 (PCT/CN2021/140728)
[87] (WO2023/115442)

[21] **3,241,198**
[13] A1
[51] **Int.Cl. C22B 3/42 (2006.01) G21G 1/00 (2006.01)**
[25] EN
[54] **RADIONUCLIDE GENERATION**
[54] **GENERATION DE RADIONUCLEIDES**
[72] ZHU, HONGSHAN, BE
[72] HEINITZ, STEPHAN, BE
[72] MULLENS, STEVEN, BE
[72] BINNEMANS, KOEN, BE
[72] CARDINAELS, THOMAS, BE
[71] SCK.CEN, BE
[71] VITO NV, BE
[71] KATHOLIEKE UNIVERSITEIT LEUVEN, BE
[85] 2024-06-14
[86] 2022-12-27 (PCT/EP2022/087876)
[87] (WO2023/126403)
[30] EP (21218490.7) 2021-12-31

[21] **3,241,199**
[13] A1
[51] **Int.Cl. G06V 10/60 (2022.01) G06V 20/64 (2022.01) G06V 40/16 (2022.01)**
[25] EN
[54] **SPOOF-RESISTANT FACIAL RECOGNITION THROUGH ILLUMINATION AND IMAGING**
[54] **RECONNAISSANCE FACIALE RESISTANTE A LA FALSIFICATION PAR ECLAIRAGE ET IMAGERIE**
[72] DEVLIN, ROBERT C., US
[72] WANG, XIANGDONG, US
[71] METALENZ, INC., US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/081868)
[87] (WO2023/115037)
[30] US (63/265,617) 2021-12-17

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[13] A1
[51] **Int.Cl. B60L 50/70 (2019.01) B60L 53/50 (2019.01) B60L 53/53 (2019.01) B60L 53/54 (2019.01) B60L 53/57 (2019.01)**
[25] EN
[54] **INTEGRATED SYSTEM FOR CHARGING ELECTRIC VEHICLES AND HYDROGEN VEHICLES**
[54] **SYSTEME INTEGRE PERMETTANT DE CHARGER DES VEHICULES ELECTRIQUES ET DES VEHICULES A HYDROGENE**
[72] PANDEY, MANEESH, IN
[72] GANIGER, MANJUSH, IN
[72] WAGH, RAHUL, IN
[72] GOVINDASAMU, RAKESH, IN
[71] NUOVO, PIGNONE TECNOLOGIE - S.R.L., IT
[85] 2024-06-14
[86] 2022-12-21 (PCT/EP2022/025586)
[87] (WO2023/117138)
[30] IT (102021000032474) 2021-12-23

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[13] A1
[51] **Int.Cl. C02F 1/00 (2006.01) C02F 1/32 (2006.01) C02F 1/72 (2006.01) C02F 1/74 (2006.01) C02F 1/78 (2006.01)**
[25] FR
[54] **DEVICE FOR TREATING AQUEOUS EFFLUENT BY MEANS OF FILTRATION, UV AND OZONE, AND METHOD USING SUCH A DEVICE**
[54] **DISPOSITIF DE TRAITEMENT D'EFFLUENTS AQUEUX PAR FILTRATION, UV ET OZONE ET METHODE UTILISANT UN TEL DISPOSITIF**
[72] MEUDAL, NICOLAS, FR
[71] MEUDAL, NICOLAS, FR
[85] 2024-06-14
[86] 2022-12-14 (PCT/EP2022/085763)
[87] (WO2023/110969)
[30] FR (FR2113746) 2021-12-16

[21] **3,241,202**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61K 38/00 (2006.01) A61P 9/00 (2006.01) A61P 21/00 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **GENE THERAPY FOR LAMIN A - ASSOCIATED DEFICIENCIES**
[54] **THERAPIE GENIQUE POUR DES DEFICIENCES ASSOCIEES A LA LAMINE A**
[72] HINDERER, CHRISTIAN, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2024-06-14
[86] 2022-12-24 (PCT/US2022/082383)
[87] (WO2023/122803)
[30] US (63/293,680) 2021-12-24

[21] **3,241,203**
[13] A1
[51] **Int.Cl. B67D 9/02 (2010.01)**
[25] EN
[54] **MARINE LOADING SYSTEM WITH AUTOMATIC MOVEMENT CONTROL, AND ASSOCIATED METHOD**
[54] **SYSTEME DE CHARGEMENT MARINE A COMMANDE DE DEPLACEMENT AUTOMATIQUE ET PROCEDE ASSOCIE**
[72] PAQUET, STEPHANE, FR
[72] MONTCOURANT, PASCAL, FR
[71] T.EN LOADING SYSTEMS, FR
[85] 2024-06-14
[86] 2022-12-20 (PCT/FR2022/052448)
[87] (WO2023/118737)
[30] FR (FR2114449) 2021-12-23

[21] **3,241,204**
[13] A1
[51] **Int.Cl. A01D 34/58 (2006.01) B60W 30/188 (2012.01) A01D 34/00 (2006.01) A01D 34/76 (2006.01) A01D 34/78 (2006.01) B60L 15/20 (2006.01) B60W 20/00 (2016.01) A01D 34/56 (2006.01) A01D 69/02 (2006.01)**
[25] EN
[54] **ELECTRIC UTILITY VEHICLE ECO-MODE SELECTION AND OPERATION**
[54] **SELECTION ET FONCTIONNEMENT DE MODE ECOLOGIQUE DE VEHICULE UTILITAIRE ELECTRIQUE**
[72] VAN THIEL, CLAYTON, US
[71] ARIENS COMPANY, US
[85] 2024-06-14
[86] 2022-12-15 (PCT/US2022/081710)
[87] (WO2023/114941)
[30] US (63/290,507) 2021-12-16

[21] **3,241,205**
[13] A1
[51] **Int.Cl. G01M 13/00 (2019.01) B60H 1/00 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **METHOD FOR STATE-OF-HEALTH MONITORING IN ELECTRIC VEHICLE DRIVE SYSTEMS AND COMPONENTS**
[54] **PROCEDE DE SURVEILLANCE D'ETAT DE SANTE DANS DES SYSTEMES ET COMPOSANTS D'ENTRAINEMENT DE VEHICULE ELECTRIQUE**
[72] KUNDU, ANIMESH, CA
[72] KORTA, PHILIP, US
[72] IYER, LAKSHMI VARAHA, US
[72] KAR, NARAYAN C., CA
[71] MAGNA INTERNATIONAL INC., CA
[85] 2024-06-14
[86] 2022-12-22 (PCT/US2022/053786)
[87] (WO2023/122259)
[30] US (63/292,540) 2021-12-22

[21] **3,241,206**
[13] A1
[51] **Int.Cl. A61F 2/07 (2013.01) A61B 17/11 (2006.01)**
[25] EN
[54] **SUTURELESS ANASTOMOTIC CONNECTION DEVICE**
[54] **DISPOSITIF DE CONNEXION ANASTOMOTIQUE SANS SUTURE**
[72] PIERCE, WILLIAM S., US
[72] ROSENBERG, GERSON, US
[72] DOWLING, ROBERT, US
[71] THE PENN STATE RESEARCH FOUNDATION, US
[71] DOWLING, ROBERT, US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/053195)
[87] (WO2023/114484)
[30] US (63/291,063) 2021-12-17

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[13] A1
[51] **Int.Cl. G06Q 30/0241 (2023.01) G06Q 30/06 (2023.01) G06Q 30/0235 (2023.01)**
[25] EN
[54] **DYNAMIC GENERATION AND ORGANIZATION OF DIGITAL CIRCULARS**
[54] **GENERATION ET ORGANISATION DYNAMIQUES DE CIRCULAIRES NUMERIQUES**
[72] ZIMMERMAN, ADAM, US
[71] DESIGN HOUSE, INC., US
[85] 2024-06-14
[86] 2023-01-11 (PCT/US2023/060443)
[87] (WO2023/137302)
[30] US (63/266,709) 2022-01-12
[30] US (63/301,278) 2022-01-20

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[51] **Int.Cl. A61K 9/51 (2006.01) A61K 48/00 (2006.01) A61P 1/00 (2006.01) C12N 15/00 (2006.01) C12N 15/88 (2006.01)**
[25] EN
[54] **BIOABSORBABLE PARTICLES AND METHOD OF USE**
[54] **PARTICULES BIOABSORBABLES ET PROCEDE D'UTILISATION**
[72] CLEEK, ROBERT L., US
[72] LI, MEI, US
[72] STEWART, KAYLA, US
[72] KLEIN, DONNA, US
[72] LU, HOANG DUNG, US
[71] W. L. GORE & ASSOCIATES, INC., US
[71] JANSSEN PHARMACEUTICA NV, BE
[71] JANSSEN RESEARCH & DEVELOPMENT, LLC, US
[85] 2024-06-14
[86] 2022-12-20 (PCT/US2022/053491)
[87] (WO2023/122079)
[30] US (63/265,732) 2021-12-20
[30] US (63/268,790) 2022-03-02

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[13] A1
[51] **Int.Cl. C09D 5/02 (2006.01) C09D 7/65 (2018.01) C09D 133/04 (2006.01) C09D 143/02 (2006.01)**
[25] EN
[54] **AQUEOUS COATING COMPOSITION**
[54] **COMPOSITION AQUEUSE DE REVETEMENT**
[72] YANG, WEIJUN, CN
[72] CUI, LONGLAN, CN
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-06-14
[86] 2021-12-24 (PCT/CN2021/141221)
[87] (WO2023/115541)

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[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) C07K 14/54 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **ENCAPSULATED CELLS EXPRESSING IL-12 AND USES THEREOF**
[54] **CELLULES ENCAPSULEES EXPRIMANT IL-12 ET LEURS UTILISATIONS**
[72] VEISEH, OMID, US
[72] NASH, AMANDA, US
[72] AGHLARA-FOTOVAT, SAMIRA, US
[71] WILLIAM MARSH RICE UNIVERSITY, US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/081747)
[87] (WO2023/114967)
[30] US (63/291,129) 2021-12-17

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[13] A1
[51] **Int.Cl. B25J 15/00 (2006.01) B25J 9/18 (2006.01) B25J 15/02 (2006.01) B25J 19/02 (2006.01)**
[25] EN
[54] **ROBOTIC SYSTEMS, METHODS, AND DEVICES FOR GRAPPLING AND ACTUATING A PAYLOAD**
[54] **SYSTEMES ROBOTIQUES, PROCEDES ET DISPOSITIFS PERMETTANT DE SAISIR ET D'ACTIONNER UNE CHARGE UTILE**
[72] SACHDEV, TEJ SINGH, CA
[72] FISHER, STEVE, CA
[72] APPERLY, PHILIP RAYMOND, CA
[72] GRANDY, DREW, CA
[71] MACDONALD, DETTWILER AND ASSOCIATES INC., CA
[85] 2024-06-14
[86] 2022-12-16 (PCT/CA2022/051842)
[87] (WO2023/108293)
[30] US (63/290,121) 2021-12-16

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[13] A1
[51] **Int.Cl. C22B 1/11 (2006.01) B03D 1/008 (2006.01) B03D 1/012 (2006.01)**
[25] EN
[54] **MINERAL PROCESSING METHOD**
[54] **PROCEDE DE TRAITEMENT DE MINERAIS**
[72] HIRAJIMA, TSUYOSHI, JP
[72] MIKI, HAJIME, JP
[72] SUYANTARA, GDE PANDHE WISNU, JP
[72] SASAKI, KEIKO, JP
[72] TANAKA, YOSHIYUKI, JP
[72] TAKIDA, ERI, JP
[71] KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, JP
[71] SUMITOMO METAL MINING CO., LTD., JP
[85] 2024-06-14
[86] 2022-12-05 (PCT/JP2022/044657)
[87] (WO2023/112734)
[30] JP (2021-204786) 2021-12-17

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[13] A1
[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/519 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMBINATIONS FOR USE IN THE TREATMENT OF NEOPLASTIC DISEASES**
[54] **COMBINAISONS PHARMACEUTIQUES DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT DU CANCER**
[72] LANE, HEIDI, CH
[72] BACHMANN, FELIX, CH
[72] LITHERLAND, KARINE, CH
[72] MCSHEEHY, PAUL, CH
[72] FORSTER-GROSS, NICOLE, CH
[71] SILLAJEN, INC., KR
[85] 2024-06-14
[86] 2022-12-14 (PCT/KR2022/020390)
[87] (WO2023/113477)
[30] EP (21214940.5) 2021-12-15
[30] EP (22181675.4) 2022-06-28

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[13] A1
[51] **Int.Cl. F03G 4/00 (2006.01) F24T 10/10 (2018.01)**
[25] EN
[54] **MULTIPLE WELL PAIRS FOR SCALING THE OUTPUT OF GEOTHERMAL ENERGY POWER PLANTS**
[54] **PAIRES DE PUITS MULTIPLES SERVANT A LA MISE A L'ECHELLE DE LA SORTIE DE CENTRALES ELECTRIQUES GEOTHERMIQUES**
[72] MARSH, BRUCE D., US
[72] KARIMI, SAMAN, US
[72] HOLLIS, JAMES, US
[72] MCDANIEL, J. GARY, US
[71] GEOTHERMAL TECHNOLOGIES, INC., US
[85] 2024-06-14
[86] 2022-12-15 (PCT/US2022/081672)
[87] (WO2023/114917)
[30] US (17/554,126) 2021-12-17

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[13] A1
[51] **Int.Cl. G21H 1/06 (2006.01) H01L 31/041 (2014.01) G21H 1/10 (2006.01)**
[25] EN
[54] **ELECTRICAL GENERATOR SYSTEM**
[54] **SYSTEME DE GENERATEUR ELECTRIQUE**
[72] WHITEHEAD, STEVEN CHRISTOPHER, GB
[71] INFINITE POWER COMPANY PTY LTD, AU
[85] 2024-06-14
[86] 2022-12-15 (PCT/AU2022/051512)
[87] (WO2023/108220)
[30] GB (2118322.3) 2021-12-16

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[13] A1
[51] **Int.Cl. G16B 40/00 (2019.01) G16H 10/20 (2018.01) G16H 10/60 (2018.01) G16H 20/10 (2018.01) G16B 50/00 (2019.01)**
[25] EN
[54] **COMPUTER-BASED SYSTEMS FOR ACQUIRING AND ANALYZING OBSERVATIONAL SUBJECT DATA**
[54] **SYSTEMES INFORMATIQUES POUR ACQUERIR ET ANALYSER DES DONNEES D'OBSERVATION D'UN SUJET**
[72] BRUNNER, DANIELA, US
[72] AMBESI-IMPIOMBATO, ALBERTO, US
[72] VALOIS, JEAN-SEBASTIEN, US
[72] ALMAWI, HASAN, US
[72] BANSAL, MUKESH, US
[72] YELISYEYEV, ANDRIY, US
[72] KIM, SUNG-CHEOL, US
[72] RUSSELL, IAN, US
[72] SILVERSTEIN, MITCHELL, US
[72] HIGH, DAVID, US
[72] LEISER, STEVEN, US
[72] DOLGUIKH, MAXIM, US
[71] PGI DRUG DISCOVERY LLC, US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/081831)
[87] (WO2023/115016)
[30] US (63/290,208) 2021-12-16
[30] US (63/295,057) 2021-12-30
[30] US (63/295,085) 2021-12-30
[30] US (63/295,105) 2021-12-30
[30] US (63/295,124) 2021-12-30
[30] US (63/295,164) 2021-12-30
[30] US (63/295,184) 2021-12-30
[30] US (63/295,208) 2021-12-30
[30] US (63/295,232) 2021-12-30
[30] US (63/295,242) 2021-12-30
[30] US (63/295,260) 2021-12-30
[30] US (63/295,298) 2021-12-30
[30] US (63/295,391) 2021-12-30
[30] US (63/295,421) 2021-12-30

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[13] A1
[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/395 (2006.01) A61K 31/40 (2006.01) A61K 31/407 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS AS 5HT2A BIASED AGONISTS**
[54] **COMPOSES HETEROCYCLIQUES EN TANT QU'AGONISTES POLARISES 5HT2A**
[72] JIN, JIAN, US
[72] KANISKAN, H. UMIT, US
[72] SUN, NING, US
[72] SUN, REHONG, US
[72] XIONG, YAN, US
[72] SHEN, YUDAO, US
[72] XU, ZHONGLI, US
[72] QIU, XING, US
[72] MANISH, JAIN, US
[72] QIAN, CHAO, US
[72] SLOCUM, SAMUEL, US
[72] SONG, XIANGYANG, US
[72] SKINIOTIS, GEORGIOS, US
[72] DENG, ZHIJIE, US
[72] BARROS, XIMENA, US
[72] ROTH, BRYAN, US
[72] DIBERTO, JEFFREY, US
[72] KUGLAE, KIM, US
[72] SUOMIVUORI, CARL-MIKAEL, US
[72] DAEMGEN, MARC A., US
[72] DROR, RON, US
[72] SHOICHET, BRIAN, US
[72] KAPLAN, ANAT LEVIT, US
[71] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] MANISH, JAIN, US
[71] SLOCUM, SAMUEL, US
[71] SKINIOTIS, GEORGIOS, US
[71] BARROS, XIMENA, US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/053168)
[87] (WO2023/114472)
[30] US (63/290,602) 2021-12-16
[30] US (63/407,529) 2022-09-16

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[13] A1
[51] **Int.Cl. A61K 38/46 (2006.01) A23L 2/39 (2006.01) C12N 9/20 (2006.01)**
[25] EN
[54] **STABLE LIPASE FORMULATIONS AND METHODS THEREOF**
[54] **FORMULATIONS DE LIPASE STABLES ET PROCEDES ASSOCIES**
[72] SRINIVASAN, DINESH, US
[72] STOVER, TED, US
[71] FIRST WAVE BIOPHARMA, INC., US
[85] 2024-06-14
[86] 2022-12-15 (PCT/US2022/052986)
[87] (WO2023/114383)
[30] US (63/290,313) 2021-12-16

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[13] A1
[51] **Int.Cl. A01K 11/00 (2006.01) G06K 7/016 (2006.01) G06K 7/10 (2006.01) H01Q 1/22 (2006.01) H04L 25/40 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN ELECTRONIC IDENTIFICATION TAG READER SYSTEMS**
[54] **AMELIORATIONS APPORTEES A DES SYSTEMES DE LECTEUR D'ETIQUETTE D'IDENTIFICATION ELECTRONIQUE**
[72] WILKINSON, BENJAMIN THOMAS JOHN, AU
[72] BATEMAN, LEIGH ANDREW, AU
[72] CLAYTON, BRIAN ANTONY, AU
[71] ALLFLEX AUSTRALIA PTY LTD, AU
[85] 2024-06-14
[86] 2022-12-23 (PCT/AU2022/051579)
[87] (WO2023/115153)
[30] AU (2021904264) 2021-12-24

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[13] A1
[51] **Int.Cl. G16B 25/10 (2019.01) G16B 20/30 (2019.01)**
[25] EN
[54] **PERSONALIZED CANCER THERAPY TARGETING NORMALLY NON-EXPRESSED SEQUENCES**
[54] **THERAPIE ANTICANCEREUSE PERSONNALISEE CIBLANT DES SEQUENCES NORMALEMENT NON EXPRIMEES**
[72] GARDE, CHRISTIAN, DK
[72] TROLLE, THOMAS, DK
[72] KRINGELUM, JENS VINDAHL, DK
[72] GARCES, PABLO, DK
[72] JAPPE, EMMA CHRISTINE, DK
[71] EVAXION BIOTECH A/S, DK
[85] 2024-06-14
[86] 2022-12-16 (PCT/EP2022/086444)
[87] (WO2023/111306)
[30] EP (21215594.9) 2021-12-17
[30] EP (22187561.0) 2022-07-28

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[13] A1
[51] **Int.Cl. E05D 11/06 (2006.01) E05D 11/10 (2006.01) E05F 1/12 (2006.01) E05D 11/08 (2006.01)**
[25] EN
[54] **AUTOMOTIVE DOOR HINGE WITH DOOR CLOSE ASSIST**
[54] **CHARNIERE DE PORTE D'AUTOMOBILE AVEC AIDE A LA FERMETURE DE PORTE**
[72] LEHTI, MICHAEL GORDON, CA
[71] MULTIMATIC INC., CA
[85] 2024-06-14
[86] 2021-12-20 (PCT/US2021/064368)
[87] (WO2023/121645)

[21] **3,241,222**
[13] A1
[51] **Int.Cl. F24F 11/89 (2018.01) F24F 11/86 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR UNIT CONTROL AND PHOTOVOLTAIC MULTI-SPLIT AIR CONDITIONING SYSTEM**
[54] **PROCEDE ET APPAREIL DE COMMANDE DE REGLAGE ET SYSTEME DE CLIMATISATION MULTI-UNITE PHOTOVOLTAIQUE**
[72] QIU, TIAN, CN
[72] JIN, MENGMENG, CN
[72] WU, LIANFA, CN
[72] JIAO, HUACHAO, CN
[71] GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI, CN
[85] 2024-06-14
[86] 2022-10-12 (PCT/CN2022/124741)
[87] (WO2023/138113)
[30] CN (202210078432.9) 2022-01-24

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[13] A1
[51] **Int.Cl. B01D 61/02 (2006.01) B01D 69/12 (2006.01) B01D 71/60 (2006.01) B01D 71/56 (2006.01)**
[25] EN
[54] **APPARATUS AND PROCESS FOR MONOVALENT ION EXTRACTION**
[54] **APPAREIL ET PROCEDE D'EXTRACTION D'IONS MONOVALENTS**
[72] LIU, KANGSHENG, GB
[72] PHILLIPS, TRISTAN, GB
[72] FEI, FAN, GB
[71] EVOVE LTD, GB
[85] 2024-06-14
[86] 2022-12-14 (PCT/GB2022/053234)
[87] (WO2023/111564)
[30] GB (2118074.0) 2021-12-14
[30] GB (2216798.5) 2022-11-10

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[13] A1
[51] **Int.Cl. C08G 63/183 (2006.01) C08J 11/24 (2006.01)**
[25] EN
[54] **RECYCLED CONTENT POLYETHYLENE TEREPHTHALATE AND METHOD OF MAKING THE SAME**
[54] **POLYETHYLENE TEREPHTALATE RECYCLE ET SON PROCEDE DE FABRICATION**
[72] EKART, MICHAEL PAUL, US
[72] DEBRUIN, BRUCE ROGER, US
[71] EASTMAN CHEMICAL COMPANY, US
[85] 2024-06-14
[86] 2023-01-11 (PCT/US2023/060455)
[87] (WO2023/137311)
[30] US (63/266,705) 2022-01-12
[30] US (63/266,706) 2022-01-12
[30] US (63/266,708) 2022-01-12
[30] US (63/386,508) 2022-12-08

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[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) C07K 14/71 (2006.01) C07K 14/715 (2006.01)**
[25] EN
[54] **PEPTIDES AND ANTIGEN BINDING PROTEINS FOR USE IN IMMUNOTHERAPY AGAINST FIBROLAMELLAR HEPATOCELLULAR CARCINOMA (FL-HCC) AND OTHER CANCERS**
[54] **PEPTIDES ET PROTEINES DE LIAISON A L'ANTIGENE DESTINES A ETRE UTILISES EN IMMUNOTHERAPIE CONTRE LE CARCINOME HEPATOCELLULAIRE FIBROLAMELLAIRE (FL-HCC) ET D'AUTRES CANCERS**
[72] WALZ, JULIANE, DE
[72] BAUER, JENS, DE
[72] MARINGER, YACINE, DE
[72] KOHLER, NATALIE, DE
[72] DICKS, SEVERIN, DE
[72] ZWICK, MELISSA, DE
[72] BORRIES, MELANIE, DE
[71] EBERHARD KARLS UNIVERSITAET TUEBINGEN MEDIZINISCHE FAKULTAET, DE
[71] ALBERT-LUDWIGS-UNIVERSITAET FREIBURG, DE
[85] 2024-06-14
[86] 2022-12-15 (PCT/EP2022/086159)
[87] (WO2023/111182)
[30] EP (21214728.4) 2021-12-15

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[13] A1
[51] **Int.Cl. B65G 49/04 (2006.01)**
[25] EN
[54] **CONVEYING SYSTEM, TREATMENT SYSTEM AND METHOD FOR TREATING WORKPIECES**
[54] **SYSTEME DE TRANSPORT, SYSTEME DE TRAITEMENT ET PROCEDE DE TRAITEMENT DE PIECES**
[72] LAUER, MICHAEL, DE
[72] HEINSOHN, KLAUS, DE
[72] JAGER, TOBIAS, DE
[71] DURR SYSTEMS AG, DE
[85] 2024-06-14
[86] 2022-12-15 (PCT/DE2022/100960)
[87] (WO2023/116975)
[30] DE (10 2021 214 914.6) 2021-12-22

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[13] A1
[51] **Int.Cl. A63H 3/08 (2006.01) A63H 3/16 (2006.01) A63H 9/00 (2006.01) A63H 33/08 (2006.01) B44C 1/16 (2006.01) G06T 11/60 (2006.01) G09F 1/08 (2006.01) G09F 3/00 (2006.01) G09F 3/02 (2006.01) G09F 3/10 (2006.01)**
[25] EN
[54] **PERSONALIZED TOY FIGURE AND METHOD FOR CREATING THE TOY FIGURE FROM A DIGITAL IMAGE**
[54] **FIGURINE JOUET PERSONNALISEE ET PROCEDE DE CREATION DE LA FIGURINE JOUET A PARTIR D'UNE IMAGE NUMERIQUE**
[72] ENGELHARD, TERESA, AU
[71] ENGELHARD, TERESA, AU
[85] 2024-06-14
[86] 2022-12-16 (PCT/IB2022/062417)
[87] (WO2023/111997)
[30] US (63/291,208) 2021-12-17

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[13] A1
[51] **Int.Cl. F24C 7/02 (2006.01) F24C 7/06 (2006.01) H05B 6/72 (2006.01) H05B 6/74 (2006.01)**
[25] EN
[54] **ANTENNA FIXING SYSTEM**
[54] **SYSTEME DE FIXATION D'ANTENNE**
[72] WU, JUNHUA, CN
[72] QIU, XISHUO, US
[72] LI, XIN, US
[71] WHIRLPOOL CORPORATION, US
[85] 2024-06-14
[86] 2021-12-17 (PCT/CN2021/139106)
[87] (WO2023/108604)

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[13] A1
[51] **Int.Cl. C08G 63/183 (2006.01) C08J 11/24 (2006.01)**
[25] EN
[54] **RECYCLED CONTENT POLYETHYLENE TEREPHTHALATE AND METHOD OF MAKING THE SAME**
[54] **POLYETHYLENE TEREPHTALATE RECYCLE ET SON PROCEDE DE FABRICATION**
[72] EKART, MICHAEL PAUL, US
[72] DEBRUIN, BRUCE ROGER, US
[71] EASTMAN CHEMICAL COMPANY, US
[85] 2024-06-14
[86] 2023-01-11 (PCT/US2023/060466)
[87] (WO2023/137318)
[30] US (63/266,705) 2022-01-12
[30] US (63/266,706) 2022-01-12
[30] US (63/266,708) 2022-01-12
[30] US (63/386,508) 2022-12-08

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[13] A1
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **AN AEROSOL PROVISION SYSTEM WITH A NON-CONSUMABLE ARTICLE FOR CHANGING A DEVICE SETTING**
[54] **SYSTEME DE FOURNITURE D'AEROSOL AVEC UN ARTICLE NON CONSOMMABLE POUR CHANGER UN REGLAGE DE DISPOSITIF**
[72] NOVAK, CHARLES JACOB, III, US
[72] DAUGHERTY, SEAN A., US
[71] RAI STRATEGIC HOLDINGS, INC., US
[85] 2024-06-14
[86] 2022-12-13 (PCT/IB2022/062169)
[87] (WO2023/111866)
[30] US (17/644,517) 2021-12-15

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[13] A1
[51] **Int.Cl. B29C 51/00 (2006.01) B31B 50/59 (2017.01) B29C 51/08 (2006.01) B29C 51/26 (2006.01) B65B 7/28 (2006.01) B65B 25/00 (2006.01) B65B 47/04 (2006.01) B29C 51/42 (2006.01)**
[25] EN
[54] **METHOD FOR MAKING A PACKAGE IN SHEET MATERIAL**
[54] **PROCEDE DE FABRICATION D'UN EMBALLAGE DANS UN MATERIAU EN FEUILLE**
[72] MANSUINO, SERGIO, LU
[72] TAVELLA, ANDREA, LU
[72] FRANCO, LUCA, LU
[72] BARELLO, MAURIZIO, LU
[71] SOREMARTEC S.A., LU
[85] 2024-06-14
[86] 2022-12-19 (PCT/IB2022/062473)
[87] (WO2023/119121)
[30] IT (102021000032465) 2021-12-23

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[13] A1
[51] **Int.Cl. C08G 63/183 (2006.01) C08J 11/24 (2006.01)**
[25] EN
[54] **INTEGRATED CHEMICAL RECYCLING FACILITY WITH POLYETHYLENE TEREPHTHALATE PRODUCTION**
[54] **INSTALLATION DE RECYCLAGE CHIMIQUE INTEGREE AVEC PRODUCTION DE POLYETHYLENE TEREPHTALATE**
[72] EKART, MICHAEL PAUL, US
[72] DEBRUIN, BRUCE ROGER, US
[72] BEECHER, ALAN WYATT, US
[72] SCHELDEMAN, DAAN RUBEN, BE
[71] EASTMAN CHEMICAL COMPANY, US
[85] 2024-06-14
[86] 2023-01-11 (PCT/US2023/060464)
[87] (WO2023/137316)
[30] US (63/266,705) 2022-01-12
[30] US (63/266,706) 2022-01-12
[30] US (63/266,708) 2022-01-12
[30] US (63/386,508) 2022-12-08

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[13] A1
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 34/20 (2016.01) A61B 90/00 (2016.01) A61B 90/30 (2016.01) H01M 50/20 (2021.01)**
[25] EN
[54] **ELECTROSURGICAL DEVICES, METHODS OF USE, AND METHODS OF MANUFACTURE**
[54] **DISPOSITIFS ELECTROCHIRURGICAUX, PROCEDES D'UTILISATION ET PROCEDES DE FABRICATION**
[72] BURKE, MICHEAL, IE
[72] MCFARLAND, SCOTT, IE
[72] SHERIDAN, PAUL, IE
[72] FREY, LAURA CONSTANCE, IE
[71] STRYKER EUROPEAN OPERATIONS LIMITED, IE
[85] 2024-06-14
[86] 2022-12-16 (PCT/IB2022/000771)
[87] (WO2023/111688)
[30] US (63/290,492) 2021-12-16

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[13] A1
[51] **Int.Cl. A61K 31/14 (2006.01) A61K 31/7008 (2006.01) A61K 31/7012 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 33/00 (2006.01)**
[25] EN
[54] **SIALIC ACID COMPOSITIONS FOR USE IN INHIBITING AND TREATING INFECTIONS IN FISH**
[54] **COMPOSITIONS D'ACIDE SIALIQUE DESTINEES A ETRE UTILISEES DANS L'INHIBITION ET LE TRAITEMENT D'INFECTIONS CHEZ LES POISSONS**
[72] REMMEREIT, JAN, NO
[72] KVERNEVIK, TROND-INGE, NO
[71] LIFESCIENCE AS, NO
[85] 2024-06-14
[86] 2022-12-15 (PCT/IB2022/000781)
[87] (WO2023/111689)
[30] US (63/290,953) 2021-12-17

[21] **3,241,235**
[13] A1
[51] **Int.Cl. C08G 63/183 (2006.01) C08J 11/24 (2006.01)**
[25] EN
[54] **INTEGRATED CHEMICAL RECYCLING FACILITY WITH POLYETHYLENE TEREPHTHALATE PRODUCTION**
[54] **INSTALLATION DE RECYCLAGE CHIMIQUE INTEGREE AVEC PRODUCTION DE POLYETHYLENE TEREPHTALATE**
[72] EKART, MICHAEL PAUL, US
[72] DEBRUIN, BRUCE ROGER, US
[72] BEECHER, ALAN WYATT, US
[72] SCHELDEMAN, DAAN RUBEN, BE
[71] EASTMAN CHEMICAL COMPANY, US
[85] 2024-06-14
[86] 2023-01-11 (PCT/US2023/060467)
[87] (WO2023/137319)
[30] US (63/266,705) 2022-01-12
[30] US (63/266,706) 2022-01-12
[30] US (63/266,708) 2022-01-12
[30] US (63/386,508) 2022-12-08

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[13] A1
[51] **Int.Cl. A61K 31/09 (2006.01) B01F 23/50 (2022.01) B01F 33/71 (2022.01) A61K 47/14 (2017.01) A61K 47/44 (2017.01) C07C 43/23 (2006.01)**
[25] EN
[54] **PARENTERAL CANNABINOID FORMULATIONS AND USES THEREOF**
[54] **FORMULATIONS DE CANNABINOIDES PARENTERAUX ET UTILISATIONS CORRESPONDANTES**
[72] KAUR, HARPREET, CA
[72] FAROOQ, HASHIM, CA
[72] THIRUNAVUKARASU, SUBHAGINI, CA
[72] GEORGEWILL, DAWAYE, CA
[72] WANG, JIXING, CA
[72] XU, DI, CA
[72] SHARIF, OMAR, CA
[72] KELLY, MELANIE, CA
[72] WOOD, GRAHAM, CA
[72] CAMPBELL, CHARLES, CA
[72] BASSETT, ERIN, CA
[72] HUNG, ORLANDO, CA
[72] LEHMANN, CHRISTIAN, CA
[71] AIP ASSET MANAGEMENT INC., CA
[85] 2024-06-14
[86] 2021-12-23 (PCT/CA2021/051882)
[87] (WO2022/133612)
[30] US (63/130,555) 2020-12-24

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[13] A1
[51] **Int.Cl. C07K 7/08 (2006.01) C07K 7/06 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **PEPTIDE INHIBITORS AND METHODS FOR INHIBITING PROTEIN AGGREGATION IN NEURONS AND NEURODEGENERATIVE DISEASES**
[54] **INHIBITEURS PEPTIDIQUES ET PROCEDES D'INHIBITION DE L'AGREGATION DE PROTEINES DANS LES NEURONES ET LES MALADIES NEURODEGENERATIVES**
[72] KIM, PHILIP, CA
[72] NIM, SATRA, CA
[72] CORBI VERGE, CARLOS, CA
[72] KALIA, SUNEIL K., CA
[72] KALIA, LORRAINE V., CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2024-06-14
[86] 2022-12-15 (PCT/CA2022/051837)
[87] (WO2023/108290)
[30] US (63/289,912) 2021-12-15

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[13] A1
[51] **Int.Cl. B29C 64/106 (2017.01) B29C 64/343 (2017.01) B29C 64/386 (2017.01) B29C 64/393 (2017.01)**
[25] EN
[54] **RADIAL PUMP ASSEMBLY AND METHODS OF USING SAME**
[54] **ENSEMBLE POMPE RADIALE ET SES PROCEDES D'UTILISATION**
[72] BEYER, SIMON, CA
[72] STEINER, SEBASTIAN, CA
[72] WILFART, FLORENTIN, CA
[72] LAIDLOW, SHAUN, CA
[72] BROWN, KEDDIE, CA
[72] XU, ZHENSONG, CA
[72] PERSSON, HENRIK, CA
[72] HAKIMI, NAVID, CA
[72] LOOKER, ADAM, CA
[71] ASPECT BIOSYSTEMS LTD., CA
[85] 2024-06-14
[86] 2022-12-16 (PCT/CA2022/051855)
[87] (WO2023/108302)
[30] US (63/290,595) 2021-12-16

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[13] A1
[51] **Int.Cl. G01N 1/22 (2006.01) G05B 19/048 (2006.01) H04W 4/38 (2018.01) G08B 17/117 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING AND CLASSIFYING SMOKING EVENTS IN MONITORED SPACES**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE ET DE CLASSIFICATION D'EVENEMENTS DE FUMEE DANS DES ESPACES SURVEILLES**
[72] UMBRAGE, JACOB, US
[72] BOANOS, ALMOG, US
[72] SCHULZ, ANDREW, US
[71] NOISEAWARE INC., US
[85] 2024-06-14
[86] 2022-10-28 (PCT/US2022/048278)
[87] (WO2023/076627)
[30] US (63/272,988) 2021-10-28

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[13] A1
[51] **Int.Cl. C12N 9/24 (2006.01) A61K 38/47 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **FUSION PROTEINS COMPRISING ALPHA-L-IDURONIDASE ENZYMES AND METHODS**
[54] **PROTEINES DE FUSION COMPRENANT DES ENZYMES ALPHA-L-IDURONIDASE ET PROCEDES**
[72] ADUSUMILLI, GOWRISUDHA, US
[72] DAVIS, OLIVER BRAYER, US
[72] KARIOLIS, MIHALIS S., US
[72] MAHON, CATHAL S., US
[72] TYAGI, SHRISHTI, US
[72] YAMANOKUCHI, KENSUKE, US
[71] DENALI THERAPEUTICS INC., US
[85] 2024-06-14
[86] 2022-12-16 (PCT/US2022/053196)
[87] (WO2023/114485)
[30] US (63/291,283) 2021-12-17

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[13] A1
[51] **Int.Cl. A61K 31/12 (2006.01) A61K 31/198 (2006.01) A61P 11/02 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR THE TREATMENT OF INFECTIOUS RESPIRATORY DISEASES CAUSED BY INFLUENZA AND SARS-COV-2, AMONG OTHERS**
[54] **ASSOCIATION PHARMACEUTIQUE POUR LE TRAITEMENT DE L'INFECTION RESPIRATOIRE CAUSEE PAR LE SARS-COV-2**
[72] BARRANCO HERNANDEZ, GUSTAVO, MX
[72] SENOSIAIN ARROYO, HECTOR, MX
[71] ALPARIS, S.A. DE C.V., MX
[85] 2024-06-14
[86] 2022-12-16 (PCT/IB2022/062339)
[87] (WO2023/111967)
[30] MX (MX/A/2021/016108) 2021-12-17

[21] **3,241,242**
[13] A1
[51] **Int.Cl. A61K 35/39 (2015.01) C12N 5/071 (2010.01) A61K 38/16 (2006.01) A61P 3/10 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ISLET CELL TRANSPLANTS**
[54] **COMPOSITIONS ET PROCEDES POUR DES GREFFES D'ILOTS DE LANGERHANS**
[72] KANDEEL, FOUAD, US
[71] KANDEEL, FOUAD, US
[85] 2024-06-14
[86] 2022-06-09 (PCT/US2022/032878)
[87] (WO2022/261357)
[30] US (63/209,236) 2021-06-10

[21] **3,241,243**
[13] A1
[51] **Int.Cl. G01S 7/521 (2006.01)**
[25] EN
[54] **ULTRASOUND INTERCONNECT STACK AND METHOD OF MANUFACTURING SAME**
[54] **EMPILEMENT D'INTERCONNEXION ULTRASONORE ET SON PROCEDE DE FABRICATION**
[72] HALPENNY-MASON, MICHAEL, CA
[72] JORDAN, JEFFREY SCOTT, CA
[71] DARKVISION TECHNOLOGIES INC, CA
[85] 2024-06-14
[86] 2022-12-15 (PCT/IB2022/062277)
[87] (WO2023/111926)
[30] GB (2118476.7) 2021-12-17

[21] **3,241,244**
[13] A1
[51] **Int.Cl. B65G 45/22 (2006.01)**
[25] EN
[54] **ORIENTABLE DEVICE FOR WASHING AND ALSO SANITIZING A CONVEYOR BELT**
[54] **DISPOSITIF ORIENTABLE POUR LAVER ET EGALEMENT DESINFECTER UNE BANDE TRANSPORTEUSE**
[72] VISCONTI, ENRICO, CH
[72] OSTERGAARD SAYK, RUNE, DK
[71] NGI A/S, DK
[85] 2024-06-14
[86] 2021-12-23 (PCT/IB2021/062230)
[87] (WO2023/118941)

[21] **3,241,245**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/22 (2006.01)**
[25] EN
[54] **IMMUNOGENICITY OF A CPG-ADJUVANTED HERPES ZOSTER VACCINE**
[54] **IMMUNOGENICITE D'UN VACCIN CONTRE LE ZONA A ADJUVANT CPG**
[72] JANSSEN, ROBERT S., US
[71] DYNAVAX TECHNOLOGIES CORPORATION, US
[85] 2024-06-14
[86] 2022-12-22 (PCT/US2022/082311)
[87] (WO2023/122774)
[30] US (63/293,510) 2021-12-23

[21] **3,241,247**
[13] A1
[51] **Int.Cl. B60C 27/06 (2006.01) B60C 11/02 (2006.01) B60C 27/16 (2006.01)**
[25] EN
[54] **A SURFACE ADAPTING ASSEMBLY FOR A TYRE**
[54] **ENSEMBLE D'ADAPTATION DE SURFACE POUR PNEU**
[72] AMUNDSEN, PAUL MAGNE, NO
[72] HOFSET, TARJEI, NO
[72] MARVIK, OLAF BRAGE, NO
[71] RETYRE AS, NO
[85] 2024-05-30
[86] 2022-11-30 (PCT/NO2022/050276)
[87] (WO2023/101561)
[30] NO (20211449) 2021-12-01

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[13] A1
[51] **Int.Cl. A61H 7/00 (2006.01) A61H 37/00 (2006.01)**
[25] EN
[54] **HAND PIECE FOR SKIN TREATMENT APPARATUS**
[54] **PIECE A MAIN POUR DISPOSITIF DE TRAITEMENT DE LA PEAU**
[72] PARK, YONG SEOK, KR
[72] LEE, SUJI, KR
[71] VIOL CO., LTD., KR
[85] 2024-05-30
[86] 2023-06-27 (PCT/KR2023/008978)
[87] (WO2024/005519)
[30] KR (10-2022-0080906) 2022-06-30

[21] **3,241,249**
[13] A1
[51] **Int.Cl. B01J 23/46 (2006.01) B01J 23/89 (2006.01) C01B 3/32 (2006.01)**
[25] EN
[54] **HYDROGEN PRODUCTION CATALYST AND HYDROGEN PRODUCTION METHOD**
[54] **CATALYSEUR DE PRODUCTION D'HYDROGENE ET PROCEDE DE PRODUCTION D'HYDROGENE**
[72] MATSUZAWA, ERIKA, JP
[72] KUBOTA, YUJI, JP
[71] NISSHINBO HOLDINGS INC., JP
[71] JAPAN RADIO CO., LTD., JP
[85] 2024-05-30
[86] 2022-11-14 (PCT/JP2022/042192)
[87] (WO2023/100626)
[30] JP (2021-195747) 2021-12-01

[21] **3,241,251**
[13] A1
[51] **Int.Cl. H01M 4/133 (2010.01) H01M 10/0525 (2010.01) H01M 4/02 (2006.01)**
[25] EN
[54] **NEGATIVE ELECTRODE AND SECONDARY BATTERY INCLUDING THE SAME**
[54] **ELECTRODE NEGATIVE ET BATTERIE SECONDAIRE LA COMPRENANT**
[72] PIAO, LILIN, KR
[72] LEE, YONG JU, KR
[72] WOO, SANG WOOK, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-05-30
[86] 2022-12-20 (PCT/KR2022/020878)
[87] (WO2023/121247)
[30] KR (10-2021-0184261) 2021-12-21

[21] **3,241,252**
[13] A1
[51] **Int.Cl. C21B 13/10 (2006.01) C21B 3/04 (2006.01) C21B 13/00 (2006.01) C22B 1/16 (2006.01) C22B 7/02 (2006.01) F27B 9/08 (2006.01) F27B 9/10 (2006.01) F27B 9/12 (2006.01) F27B 9/20 (2006.01) F27B 9/24 (2006.01) F27D 3/00 (2006.01)**
[25] EN
[54] **IRON RECOVERY**
[54] **RECUPERATION DE FER**
[72] BEACHY HEAD, JOHN PETER, ZA
[72] BECERRA NOVOA, JORGE OCTAVIO, ZA
[71] MANIC IRON TECHNOLOGY PROPRIETARY LIMITED, ZA
[85] 2024-05-30
[86] 2022-12-02 (PCT/ZA2022/050065)
[87] (WO2023/102580)
[30] ZA (2021/09859) 2021-12-02

[21] **3,241,253**
[13] A1
[51] **Int.Cl. A61L 31/00 (2006.01) A61K 38/00 (2006.01) A61P 9/10 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **BIOMIMETIC COATING FOR ENDOVASCULAR STENT**
[54] **REVETEMENT BIOMIMETIQUE POUR STENT ENDOVASCULAIRE**
[72] CALIGIURI, GIUSEPPINA, FR
[72] NICOLETTI, ANTONINO, FR
[72] SKARBEK, CHARLES, FR
[72] LEFEVRE, ISABELLE, FR
[72] BUREAU, CHRISTOPHE, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] UNIVERSITE PARIS CITE, FR
[71] UNIVERSITE PARIS XIII PARIS-NORD, FR
[71] ALCHIMEDICS, FR
[85] 2024-05-31
[86] 2022-12-02 (PCT/IB2022/000684)
[87] (WO2023/099957)
[30] IB (PCT/IB2021/000860) 2021-12-03

[21] **3,241,254**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/50 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **CEACAM5 ADC-ANTI-PD1/PD-L1 COMBINATION THERAPY**
[54] **POLYTHERAPIE A BASE DE CEACAM5 ADC ANTI-PD-1/PD-L1**
[72] CHADJAA, MUSTAPHA, FR
[72] LE BAIL, NATHALIE, FR
[72] SOUFFLET, CHRISTINE, FR
[72] DENNIS, PHILLIP, US
[72] BENSFIA, SAMIRA, US
[71] SANOFI, FR
[85] 2024-05-31
[86] 2022-12-01 (PCT/EP2022/084105)
[87] (WO2023/099682)
[30] EP (21306690.5) 2021-12-02
[30] US (63/383,337) 2022-11-11

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[13] A1
[51] **Int.Cl. A61J 3/00 (2006.01) G06Q 50/04 (2012.01) G06Q 10/087 (2023.01)**
[25] EN
[54] **MODULAR SYSTEM FOR AUTOMATED COMPOUNDING APPLICATIONS**
[54] **SYSTEME MODULAIRE POUR APPLICATIONS DE MELANGE AUTOMATISEES**
[72] DANOPOULOS, PANAGIOTA, CA
[71] MEDISCA PHARMACEUTIQUE INC., CA
[85] 2024-06-17
[86] 2022-12-19 (PCT/CA2022/051859)
[87] (WO2023/115200)
[30] US (63/291,742) 2021-12-20

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[13] A1
[51] **Int.Cl. A61K 31/56 (2006.01) A61P 35/00 (2006.01) A61K 31/58 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR THE TREATMENT OF CANCER**
[54] **COMPOSES POUR LE TRAITEMENT DU CANCER**
[72] PUROHIT, PARVA YOGESHCHANDRA, IN
[72] GOSWAMI, VISHALGIRI GUNVANTGIRI, IN
[72] MEHTA, CHIRAG CHIMANLAL, IN
[72] BARMADE, MAHESH ANGADRAO, IN
[72] SANGLE, GANESH VISHWANATH, IN
[72] UNADKAT, VISHAL BHARATBHAI, IN
[72] VARIYA, KETAN GORDHANBHAI, IN
[72] PANDYA, HETA NISHIL, IN
[71] KASHIV BIOSCIENCES, LLC, US
[85] 2024-05-31
[86] 2022-05-26 (PCT/IB2022/054955)
[87] (WO2023/105303)
[30] IN (202121056647) 2021-12-06

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[13] A1
[51] **Int.Cl. G02C 7/04 (2006.01) A61F 2/16 (2006.01) G02B 3/08 (2006.01) G02B 5/18 (2006.01)**
[25] EN
[54] **LENSES HAVING DIFFRACTIVE PROFILES WITH PARABOLIC TRANSITION ZONES**
[54] **LENTILLES AYANT DES PROFILS DE DIFFRACTION A ZONES DE TRANSITION PARABOLIQUES**
[72] ALARCON HEREDIA, AIXA, NL
[72] FARIA RIBEIRO, MIGUEL, PT
[72] GOUNOU, FRANCK, NL
[72] PIERS, PATRICIA A., NL
[72] WEEBER, HENDRIK, NL
[72] CANOVAS VIDAL, CARMEN, NL
[72] ROSEN, ROBERT, NL
[71] AMO GRONINGEN B.V., NL
[85] 2024-05-31
[86] 2022-12-02 (PCT/EP2022/084204)
[87] (WO2023/099730)
[30] US (63/264,935) 2021-12-03

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[13] A1
[51] **Int.Cl. C07F 9/58 (2006.01) A61K 31/675 (2006.01) A61P 3/02 (2006.01) C07F 9/6558 (2006.01)**
[25] EN
[54] **PYRIDOXAL-5-PHOSPHATE (P5P) ANALOGS**
[54] **ANALOGUES DE PYRIDOXAL-5-PHOSPHATE (P5P)**
[72] FRIESEN, ALBERT D., CA
[72] TWIBANIRE, JEAN-D'AMOUR K., CA
[72] CARLIN, KEVIN P., CA
[72] KAUR, MATINDER, CA
[72] TAJ, RAFIQ A., CA
[72] HUSSAINI, SYED MOHAMMED A., CA
[72] CHEHAL, NAVNEET, CA
[72] VAKITI, RAMKRISHNA REDDY, CA
[72] PIPALIYA, BHAVIN, CA
[72] COOK, CYRIL, CA
[72] KHAN, QASIM, CA
[72] ULLAH, FARMAN, CA
[71] CANAM BIORESEARCH INC., CA
[85] 2024-05-31
[86] 2022-12-15 (PCT/CA2022/051832)
[87] (WO2023/108286)
[30] US (63/290,050) 2021-12-15

[21] **3,241,262**
[13] A1
[51] **Int.Cl. C25C 1/06 (2006.01) C25C 7/00 (2006.01)**
[25] EN
[54] **ELECTROLYSIS APPARATUS FOR THE PRODUCTION OF IRON WITH AN IMPROVED IRON OXIDE SUPPLY DEVICE**
[54] **APPAREIL D'ELECTROLYSE POUR LA PRODUCTION DE FER AVEC UN DISPOSITIF D'ALIMENTATION EN OXYDE DE FER AMELIORE**
[72] LAVELAINE DE MAUBEUGE, HERVE, FR
[71] ARCELORMITTAL, LU
[85] 2024-05-31
[86] 2021-12-15 (PCT/IB2021/061745)
[87] (WO2023/111640)

[21] **3,241,265**
[13] A1
[51] **Int.Cl. E21B 33/04 (2006.01) E21B 34/14 (2006.01) E21B 43/10 (2006.01)**
[25] EN
[54] **NON-PRESSURE SENSITIVE MODULE FOR LINER HANGER INSTALLATION**
[54] **MODULE NON SENSIBLE A LA PRESSION POUR INSTALLATION DE DISPOSITIF DE SUSPENSION DE COLONNE PERDUE**
[72] UNDERBRINK, MICHAEL, US
[72] THOMAS, NICHOLAS, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-05-31
[86] 2022-11-01 (PCT/US2022/048525)
[87] (WO2023/101782)
[30] US (63/285,279) 2021-12-02

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[13] A1
[51] **Int.Cl. G01N 21/31 (2006.01) B07C 1/00 (2006.01) B07C 5/342 (2006.01) H05B 39/10 (2006.01) G01N 21/84 (2006.01) G01N 21/85 (2006.01)**
[25] EN
[54] **APPARATUS FOR ILLUMINATING MATTER**
[54] **APPAREIL D'ECLAIRAGE DE MATIERE**
[72] BALTHASAR, DIRK, DE
[71] TOMRA SORTING GMBH, DE
[85] 2024-05-31
[86] 2022-12-06 (PCT/EP2022/084668)
[87] (WO2023/104834)
[30] EP (21212914.2) 2021-12-07

[21] **3,241,268**
[13] A1
[51] **Int.Cl. C07K 7/08 (2006.01)**
[25] EN
[54] **MANUFACTURING PROCESS FOR THE PRODUCTION OF LINACLOTIDE**
[54] **PROCEDE DE FABRICATION POUR PRODUIRE DU LINACLOTIDE**
[72] ANNONI, PAOLA, IT
[72] CAPPELLETTI, SILVANA, IT
[72] CELONA, ALESSANDRA, IT
[72] SIMONELLI, BARBARA, IT
[72] TURCHETTA, STEFANO, IT
[72] CAPPELLINI, LORENZO, IT
[71] CHEMI SPA, IT
[85] 2024-05-31
[86] 2022-12-12 (PCT/EP2022/085451)
[87] (WO2023/110781)
[30] EP (21214095.8) 2021-12-13

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[51] **Int.Cl. G06N 10/40 (2022.01) G06N 10/20 (2022.01) G06N 10/70 (2022.01)**
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[54] **NON-GAUSSIAN STATE GENERATION USING CLUSTER STATES**
[54] **GENERATION D'ETATS NON GAUSSIENS A L'AIDE D'ETATS DE GRAPPES**
[72] EATON, MILLER THOMAS, US
[72] GONZALEZ-ARCINIEGAS, CARLOS, US
[72] PFISTER, OLIVIER, US
[72] ALEXANDER, RAFAEL, AU
[72] MENICUCCI, NICOLAS, AU
[71] UNIVERSITY OF VIRGINIA PATENT FOUNDATION, US
[71] THE ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY, AU
[85] 2024-05-31
[86] 2022-11-29 (PCT/US2022/051295)
[87] (WO2023/101991)
[30] US (63/284,721) 2021-12-01

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[51] **Int.Cl. G01N 33/50 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING CHRONIC KIDNEY DISEASE**
[54] **COMPOSITIONS ET METHODES DE DIAGNOSTIC ET DE TRAITEMENT D'UNE MALADIE RENALE CHRONIQUE**
[72] LI, QINGHONG, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-06-17
[86] 2022-12-16 (PCT/IB2022/062411)
[87] (WO2023/126758)
[30] US (63/293,861) 2021-12-27

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[13] A1
[51] **Int.Cl. G06F 21/62 (2013.01)**
[25] EN
[54] **DATABASE MANAGEMENT ENGINE FOR A DATABASE MANAGEMENT SYSTEM**
[54] **MOTEUR DE GESTION DE BASE DE DONNEES POUR UN SYSTEME DE GESTION DE BASE DE DONNEES**
[72] GOLAN, ORON, US
[72] FIREBERGER, AVIRAM, US
[72] PINES, AVIAD, US
[72] ATIAS, ADIR, US
[72] LUTSKY, EVGENY, US
[71] MICROSOFT TECHNOLOGY LICENSING, LLC., US
[85] 2024-05-31
[86] 2022-12-06 (PCT/US2022/051891)
[87] (WO2023/129342)
[30] US (17/567,022) 2021-12-31

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[13] A1
[51] **Int.Cl. A23G 1/52 (2006.01) A23P 30/40 (2016.01) A23G 1/54 (2006.01) A23G 3/52 (2006.01) A23G 3/54 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING AN AERATED CHOCOLATE PRODUCT**
[54] **PROCEDE DE PRODUCTION D'UN PRODUIT DE CHOCOLAT AERE**
[72] GERMAN, JAMEY, GB
[72] LEADBEATER, RICHARD JOHN, GB
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-06-17
[86] 2022-12-22 (PCT/EP2022/087629)
[87] (WO2023/126325)
[30] EP (21218098.8) 2021-12-29

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[13] A1
[51] **Int.Cl. B62D 11/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING SKID-STEER POWER MACHINES**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE MACHINES ELECTRIQUES A DIRECTION A GLISSEMENT**
[72] ODEGAARD, JUSTIN, US
[72] ZACHMANN, BOSTON, US
[72] ALTHOFF, BENJAMIN, US
[71] DOOSAN BOBCAT NORTH AMERICA, INC., US
[85] 2024-06-17
[86] 2022-12-22 (PCT/US2022/082247)
[87] (WO2023/122733)
[30] US (63/292,756) 2021-12-22

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[51] **Int.Cl. C21B 5/00 (2006.01) C21B 5/06 (2006.01) C21B 7/00 (2006.01) C21B 13/00 (2006.01) C21C 5/28 (2006.01) C21C 5/52 (2006.01)**
[25] EN
[54] **STEELMAKING METHOD AND ASSOCIATED NETWORK OF PLANTS**
[54] **PROCEDE DE PRODUCTION D'ACIER ET RESEAU D'INSTALLATIONS ASSOCIE**
[72] BAQUET GONZALEZ, IGNACIO, ES
[72] HERRERO BLANCO, IGNACIO, ES
[72] REBOUL, JEAN-LUC DIDIER, FR
[71] ARCELORMITTAL, LU
[85] 2024-05-31
[86] 2021-12-16 (PCT/IB2021/061836)
[87] (WO2023/111652)

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[13] A1
[51] **Int.Cl. A61K 31/192 (2006.01)**
[25] EN
[54] **BENZOIC ACID SALTS FOR TREATMENT OF NERVOUS SYSTEM INJURIES AND DISORDERS**
[54] **SELS D'ACIDE BENZOIQUE POUR LE TRAITEMENT DE LESIONS ET DE TROUBLES DU SYSTEME NERVEUX**
[72] PAHAN, KALIPADA, US
[71] THE UNITED STATES GOVERNMENT, AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US
[71] RUSH UNIVERSITY MEDICAL CENTER, US
[85] 2024-06-17
[86] 2022-12-15 (PCT/US2022/053034)
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[30] US (63/290,633) 2021-12-16

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[13] A1
[51] **Int.Cl. C08F 220/18 (2006.01) C09J 133/08 (2006.01)**
[25] EN
[54] **ACRYLIC RESIN COMPOSITIONS**
[54] **COMPOSITIONS DE RESINE ACRYLIQUE**
[72] CONDIE, ALLISON GAMBLE, US
[72] ZHENG, QI, US
[72] NOVITSKY, JR. THEODORE F., US
[72] PHELPS, KENNETH T., US
[72] NOWALK, JAMIE ANDREW, US
[72] DONALDSON, SUSAN F., US
[71] PPG ARCHITECTURAL FINISHES, INC., US
[85] 2024-06-17
[86] 2022-12-20 (PCT/US2022/082044)
[87] (WO2023/129839)
[30] US (63/295,428) 2021-12-30

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[51] **Int.Cl. C21B 5/00 (2006.01) C21B 5/06 (2006.01) C21B 7/00 (2006.01) C21B 13/00 (2006.01)**
[25] EN
[54] **IRONMAKING METHOD AND ASSOCIATED PLANT**
[54] **PROCEDE DE FABRICATION DE FER ET INSTALLATION ASSOCIEE**
[72] SERT, DOMINIQUE, FR
[72] NEGRO, PATRICK, FR
[72] HESS, ERIC ALAIN GABRIEL, FR
[72] REBOUL, JEAN-LUC DIDIER, FR
[71] ARCELORMITTAL, LU
[85] 2024-05-31
[86] 2021-12-16 (PCT/IB2021/061841)
[87] (WO2023/111654)

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[13] A1
[51] **Int.Cl. B28B 1/00 (2006.01) B28B 11/00 (2006.01) B28B 11/04 (2006.01) B29C 67/24 (2006.01) B41J 3/407 (2006.01) B41M 3/06 (2006.01) B41M 5/00 (2006.01) B41M 5/382 (2006.01) B41M 7/00 (2006.01) B44C 5/04 (2006.01) B44F 9/04 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING SLABS MADE OF STONE OR STONE-LIKE AGGLOMERATE MATERIAL AND HAVING DECORATIONS AND/ OR CHROMATIC EFFECTS, SLAB SO OBTAINED AND WORKING INTERMEDIATE OF A SLAB**
[54] **PROCEDE DE FABRICATION DE DALLES EN PIERRE OU EN MATERIAU AGGLOMERE SEMBLABLE A LA PIERRE ET PRESENTANT DES DECORATIONS ET/OU DES EFFETS CHROMATIQUES, DALLE AINSI OBTENUE ET INTERMEDIAIRE DE TRAVAIL D'UNE DALLE**
[72] TONCELLI, MARCELLO, IT
[72] ZEGGIO, STEFANO, IT
[72] SARTOR, FLAVIO, IT
[71] BRETON S.P.A., IT
[85] 2024-06-17
[86] 2022-12-30 (PCT/IB2022/062919)
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[30] IT (102022000000026) 2022-01-03

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[13] A1
[51] **Int.Cl. C22C 38/04 (2006.01) B32B 15/01 (2006.01) C21D 6/00 (2006.01) C21D 8/02 (2006.01) C22C 18/00 (2006.01) C22C 18/04 (2006.01) C22C 38/06 (2006.01)**
[25] EN
[54] **LOW DENSITY HOT ROLLED STEEL, METHOD OF PRODUCTION THEREOF AND USE OF SUCH STEEL TO PRODUCE VEHICLE PARTS**
[54] **ACIER LAMINE A CHAUD DE FAIBLE DENSITE, SON PROCEDE DE PRODUCTION ET UTILISATION DE CET ACIER POUR PRODUIRE DES PIECES DE VEHICULE**
[72] GARAT, XAVIER, FR
[72] LORENZINI, PASCAL, FR
[71] ARCELORMITTAL, LU
[85] 2024-05-31
[86] 2021-12-10 (PCT/IB2021/061542)
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[13] A1
[51] **Int.Cl. C21D 6/00 (2006.01) C21D 6/02 (2006.01) C21D 8/02 (2006.01) C22C 38/00 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C23C 30/00 (2006.01)**
[25] EN
[54] **LOW DENSITY HOT ROLLED STEEL, METHOD OF PRODUCTION THEREOF AND USE OF SUCH STEEL TO PRODUCE VEHICLE PARTS**
[54] **ACIER LAMINE A CHAUD DE FAIBLE DENSITE, SON PROCEDE DE PRODUCTION ET UTILISATION D'UN TEL ACIER POUR PRODUIRE DES PIECES DE VEHICULE**
[72] GARAT, XAVIER, FR
[72] LORENZINI, PASCAL, FR
[71] ARCELORMITTAL, LU
[85] 2024-05-31
[86] 2021-12-10 (PCT/IB2021/061543)
[87] (WO2023/105272)

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[13] A1
[51] **Int.Cl. G09B 21/00 (2006.01)**
[25] FR
[54] **SYSTEM FOR LEARNING BRAILLE AND METHOD FOR IMPLEMENTING SUCH A SYSTEM**
[54] **SYSTEME POUR L'APPRENTISSAGE DU BRAILLE ET PROCEDE DE MISE EN OEUVRE D'UN_TEL SYSTEME**
[72] MASSOU, JEAN, FR
[72] FORET, DIDIER, FR
[72] ACCORSI, BENJAMIN, FR
[72] COSTA, MATTEO, FR
[71] UNIVERSITE DE LORRAINE, FR
[85] 2024-06-17
[86] 2022-12-09 (PCT/EP2022/085129)
[87] (WO2023/110662)
[30] FR (FR2113879) 2021-12-17

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[13] A1
[51] **Int.Cl. C21B 15/00 (2006.01) C25C 1/06 (2006.01)**
[25] EN
[54] **APPARATUS FOR PRODUCTION OF IRON METAL BY ELECTROLYSIS**
[54] **APPAREIL DE PRODUCTION DE METAL FERREUX PAR ELECTROLYSE**
[72] LAVELAINE DE MAUBEUGE, HERVE, FR
[71] ARCELORMITTAL, LU
[85] 2024-05-31
[86] 2021-12-15 (PCT/IB2021/061736)
[87] (WO2023/111639)

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[13] A1
[51] **Int.Cl. A61K 8/14 (2006.01) A61K 9/127 (2006.01) A61P 17/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING EXPOSURE OF SURGICAL MESH**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE L'EXPOSITION D'UN TREILLIS CHIRURGICAL**
[72] BEHFAR, ATTA, US
[72] OCCHINO, JOHN A., US
[72] TRABUCO, EMANUEL C., US
[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US
[85] 2024-05-31
[86] 2022-11-30 (PCT/US2022/051424)
[87] (WO2023/102061)
[30] US (63/284,987) 2021-12-01

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[13] A1
[51] **Int.Cl. C07D 498/22 (2006.01) A61K 31/4188 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **RIFAMYCIN DERIVATIVES FOR THE TREATMENT OF DISEASES**
[54] **DERIVES DE RIFAMYCINE POUR TRAITER DES MALADIES**
[72] ANTRAYGUES, KEVIN, FR
[72] BOUROTTE, MARILYNE, FR
[72] DALE, GLENN E., CH
[72] DEFERT, OLIVIER, FR
[72] GIOIA, BRUNA, FR
[72] GITZINGER, MARC, CH
[72] LOCIURO, SERGIO, CH
[72] MAINGOT, MATHIEU, FR
[72] TREBOSC, VINCENT, FR
[72] WILLAND, NICOLAS, FR
[71] BIOVERSYS AG, CH
[85] 2024-05-31
[86] 2023-01-27 (PCT/EP2023/051991)
[87] (WO2023/144297)
[30] EP (22154022.2) 2022-01-28

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[13] A1
[51] **Int.Cl. C03C 17/00 (2006.01)**
[25] EN
[54] **METHOD FOR COATING LARGE-AREA GLASS SUBSTRATES**
[54] **PROCEDE DE REVETEMENT DE SUBSTRATS EN VERRE DE GRANDE SUPERFICIE**
[72] FRANK, MARCUS, DE
[72] STALDER, BERNHARD, CH
[71] BUHLER ALZENAU GMBH, DE
[85] 2024-06-17
[86] 2022-12-23 (PCT/EP2022/025596)
[87] (WO2023/131389)
[30] EP (22150159.6) 2022-01-04

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[13] A1
[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/501 (2006.01) A61P 25/00 (2006.01) A61P 25/14 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **ANTAGONISTS OF THE MUSCARINIC ACETYLCHOLINE RECEPTOR M4**
[54] **ANTAGONISTES DU RECEPTEUR MUSCARINIQUE M4 DE L'ACETYLCHOLINE**
[72] BENDER, AARON, M., US
[72] SPOCK, MATTHEW, US
[72] KORKMAZ-VAISYS, MELISSA A., US
[72] MALINKY, CORI A., US
[72] CONN, P., JEFFREY, US
[72] LINDSLEY, CRAIG, W., US
[71] VANDERBILT UNIVERSITY, US
[85] 2024-05-31
[86] 2022-12-01 (PCT/US2022/051493)
[87] (WO2023/102100)
[30] US (63/284,750) 2021-12-01

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[13] A1
[51] **Int.Cl. B05B 1/34 (2006.01) A61M 11/00 (2006.01) A61M 15/08 (2006.01) B05B 11/10 (2023.01)**
[25] EN
[54] **SPRAYING HEAD**
[54] **TETE DE PULVERISATION**
[72] PETIT, LUDOVIC, FR
[71] APTAR FRANCE SAS, FR
[85] 2024-05-31
[86] 2022-12-15 (PCT/FR2022/052379)
[87] (WO2023/111470)
[30] FR (FR2113871) 2021-12-17

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[13] A1
[51] **Int.Cl. B61G 7/00 (2006.01) B61G 3/04 (2006.01)**
[25] EN
[54] **RAILWAY VEHICLE COUPLER HAVING ROBUST KNUCKLE**
[54] **ATTELAGE DE VEHICULE FERROVIAIRE A MACHOIRE ROBUSTE**
[72] WIKE, PAUL, US
[72] DEWALD, DALE K., US
[72] PETRUNICH, TOM, US
[72] TODT, MATTHEW, US
[72] SANDERS, PAUL, US
[71] AMSTED RAIL COMPANY, INC., US
[85] 2024-05-31
[86] 2022-12-08 (PCT/US2022/052209)
[87] (WO2023/146637)
[30] US (17/585,982) 2022-01-27

[21] **3,241,302**
[13] A1
[51] **Int.Cl. B42D 25/36 (2014.01) B42D 25/30 (2014.01)**
[25] EN
[54] **DYNAMIC MICRO-OPTIC SECURITY DEVICES, THEIR PRODUCTION AND USE**
[54] **DISPOSITIFS DE SECURITE MICRO-OPTIQUES DYNAMIQUES, LEUR PRODUCTION ET LEUR UTILISATION**
[72] BRASSARD, DANIEL, CA
[72] BOUTIN, ALEX, CA
[72] MACPHERSON, CHARLES DOUGLAS, US
[72] OMRANE, BADR, CA
[71] BANK OF CANADA, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2024-06-17
[86] 2022-12-21 (PCT/CA2022/051875)
[87] (WO2023/115210)
[30] CA (3143656) 2021-12-22

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[13] A1
[51] **Int.Cl. G02B 3/08 (2006.01) G02B 5/18 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **LENSES HAVING MULTI-RING DESIGN FOR VISION TREATMENT**
[54] **LENTILLES AYANT UNE CONCEPTION MULTI-ANNEAUX POUR LE TRAITEMENT DE LA VISION**
[72] ALARCON HEREDIA, AIXA, NL
[72] FARIA RIBEIRO, MIGUEL, PT
[72] GOUNOU, FRANCK, NL
[72] PIERS, PATRICIA A., NL
[72] WEEBER, HENDRIK, NL
[72] CANOVAS VIDAL, CARMEN, NL
[72] ROSEN, ROBERT, NL
[71] AMO GRONINGEN B.V., NL
[85] 2024-05-31
[86] 2022-12-02 (PCT/EP2022/084231)
[87] (WO2023/099745)
[30] US (63/264,938) 2021-12-03

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[13] A1
[51] **Int.Cl. G01N 33/543 (2006.01) G01N 21/45 (2006.01) G01N 21/64 (2006.01)**
[25] EN
[54] **IMPROVED EXOSOME PROFILING FOR THERAPY AND DIAGNOSIS**
[54] **PROFILAGE D'EXOSOMES AMELIORE POUR THERAPIE ET DIAGNOSTIC**
[72] EITAN, EREZ, US
[72] VOLPERT, OLGA, US
[71] NEURODEX, INC., US
[85] 2024-06-17
[86] 2022-12-19 (PCT/IB2022/062442)
[87] (WO2023/112004)
[30] US (63/291,405) 2021-12-19
[30] US (63/291,407) 2021-12-19

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[13] A1
[51] **Int.Cl. A61B 10/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **METHOD OF FECAL SAMPLE PREPARATION FOR AUTOMATED IMAGE ANALYSIS**
[54] **PROCEDE DE PREPARATION D'ECHANTILLON DE MATIERE FECALE POUR ANALYSE D'IMAGE AUTOMATISEE**
[72] SLUSAREWICZ, PAWEL, US
[72] MILLS, CHRISTOPHER, US
[72] SCHMELING, DAVID, US
[72] SCHROEDER, CHRISTOPHER, US
[71] PARASIGHT SYSTEM INC., US
[85] 2024-05-31
[86] 2022-11-18 (PCT/US2022/050480)
[87] (WO2023/101838)
[30] US (63/285,657) 2021-12-03

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[13] A1
[51] **Int.Cl. G06Q 10/30 (2023.01) G06Q 10/10 (2023.01) G06Q 50/04 (2012.01) H04L 9/40 (2022.01) G06Q 10/0833 (2023.01)**
[25] EN
[54] **ENVIRONMENTAL ATTRIBUTES FOR PLASTIC ADDITIVES**
[54] **ATTRIBUTS ENVIRONNEMENTAUX POUR ADDITIFS PLASTIQUES**
[72] GRUMBRECHT, BASTIAN, DE
[72] KLOSTERHALFEN, STEFFEN THOMAS, DE
[72] ANDERLOHR, CHRISTOPHER ALEC, DE
[72] KRUGER, CHRISTIAN, DE
[72] BINDER, MARTIN, DE
[72] ALBA PEREZ, ANA, DE
[72] WENZL, KURT, DE
[72] LEED, MARINA, DE
[72] LOISEL, KATELL, DE
[72] DOWLING, ZACHARY THOMAS, US
[72] BARTH, NATALIE, DE
[72] PISTILLO, ALESSANDRO, DE
[71] BASF SE, DE
[85] 2024-06-17
[86] 2022-12-19 (PCT/EP2022/086762)
[87] (WO2023/117980)
[30] EP (21216268.9) 2021-12-21
[30] EP (21216269.7) 2021-12-21
[30] EP (21216270.5) 2021-12-21
[30] EP (21216271.3) 2021-12-21
[30] EP (21216286.1) 2021-12-21
[30] EP (21216292.9) 2021-12-21
[30] EP (21216326.5) 2021-12-21
[30] EP (21216327.3) 2021-12-21
[30] EP (21216333.1) 2021-12-21
[30] EP (22166573.0) 2022-04-04
[30] EP (22167945.9) 2022-04-12
[30] EP (22172609.4) 2022-05-10
[30] EP (22172611.0) 2022-05-10
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[30] US (63/416,091) 2022-10-14
[30] EP (22202183.4) 2022-10-18
[30] EP (22211421.7) 2022-12-05

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[13] A1
[51] **Int.Cl. H04N 21/2743 (2011.01) H04N 21/239 (2011.01) H04N 21/24 (2011.01) H04N 21/25 (2011.01) H04N 21/258 (2011.01) H04N 21/2747 (2011.01) H04N 21/835 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MINIMIZING NUMBER OF COPIES OF CONTENT ITEMS STORED AT SERVER**
[54] **SYSTEMES ET PROCEDES POUR MINIMISER LE NOMBRE DE COPIES D'ELEMENTS DE CONTENU STOCKES AU NIVEAU D'UN SERVEUR**
[72] BABU, VEERESH, IN
[72] HARB, REDA, US
[71] ROVI GUIDES, INC., US
[85] 2024-05-31
[86] 2022-11-30 (PCT/US2022/080663)
[87] (WO2023/102424)
[30] US (17/539,590) 2021-12-01

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[13] A1
[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **SEROLOGICAL ASSAYS FOR PARKINSON'S DISEASE**
[54] **DOSAGES SEROLOGIQUES POUR LA MALADIE DE PARKINSON**
[72] EITAN, EREZ, US
[72] VOLPERT, OLGA, US
[71] NEURODEX, INC., US
[85] 2024-06-17
[86] 2022-12-19 (PCT/IB2022/062455)
[87] (WO2023/112005)
[30] US (63/291,405) 2021-12-19
[30] US (63/291,407) 2021-12-19

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[13] A1
[51] **Int.Cl. B42D 25/305 (2014.01) B42D 25/324 (2014.01) G07D 7/206 (2016.01)**
[25] EN
[54] **SECURITY ELEMENT, CORRESPONDING ENGRAVED INTAGLIO PRINTING PLATE, AND METHODS AND DEVICES FOR PRODUCING, DECODING AND AUTHENTICATING SECURITY MARKING OF SAID SECURITY ELEMENT**
[54] **ELEMENT DE SECURITE, PLAQUE D'IMPRESSION EN CREUX GRAVEE CORRESPONDANTE ET PROCEDES ET DISPOSITIFS DE PRODUCTION, DE DECODAGE ET D'AUTHENTIFICATION DE MARQUAGE DE SECURITE DUDIT ELEMENT DE SECURITE**
[72] DECOUX, ERIC, CH
[72] LEFEBVRE, OLIVIER, CH
[72] DUCA, NICOLA, CH
[71] SICPA HOLDING SA, CH
[85] 2024-06-17
[86] 2022-12-16 (PCT/EP2022/086372)
[87] (WO2023/117765)
[30] EP (21216149.1) 2021-12-20

[21] **3,241,314**
[13] A1
[51] **Int.Cl. H01M 50/16 (2021.01)**
[25] EN
[54] **HIGH-STRENGTH BATTERY CELL HOUSING FOR LARGE-FORMAT ROUND BATTERY CELLS,CONSISTING OF AN ALUMINIUM ALLOY**
[54] **COMPARTIMENT D'ELEMENT DE BATTERIE A HAUTE RESISTANCE POUR LARGES ELEMENTS DE BATTERIE RONDS CONSTITUES D'UN ALLIAGE D'ALUMINIUM**
[72] LENTZ, MARTIN CHRISTOPH, DE
[72] RUPPERT, MATHIS, DE
[71] SPEIRA GMBH, DE
[85] 2024-06-17
[86] 2022-12-15 (PCT/EP2022/086044)
[87] (WO2023/111129)
[30] EP (21215667.3) 2021-12-17

[21] **3,241,316**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7115 (2006.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01)**
[25] EN
[54] **GAPMER ANTISENSE OLIGONUCLEOTIDES WITH MODIFIED BACKBONE CHEMISTRIES**
[54] **OLIGONUCLEOTIDES ANTISENS GAPMERES AVEC DES PRODUITS CHIMIQUES DE SQUELETTE MODIFIES**
[72] HINCKLEY, SANDRA, US
[72] BROWN, DUNCAN, US
[72] ELBAUM, DANIEL, US
[71] QURALIS CORPORATION, US
[85] 2024-05-31
[86] 2022-12-02 (PCT/US2022/051663)
[87] (WO2023/102188)
[30] US (63/285,665) 2021-12-03
[30] US (63/285,692) 2021-12-03
[30] US (63/285,696) 2021-12-03
[30] US (63/285,705) 2021-12-03
[30] US (63/285,888) 2021-12-03

[21] **3,241,317**
[13] A1
[51] **Int.Cl. B63B 59/06 (2006.01) A46B 3/16 (2006.01) A46B 7/04 (2006.01)**
[25] EN
[54] **CLEANING BRUSH FOR HULL**
[54] **BROSSE DE NETTOYAGE POUR COQUE**
[72] LEE, DONG WOOK, KR
[71] TAS GLOBAL CO., LTD., KR
[85] 2024-06-17
[86] 2022-12-16 (PCT/KR2022/020655)
[87] (WO2023/113566)
[30] KR (10-2021-0181518) 2021-12-17
[30] KR (10-2022-0054077) 2022-05-02

[21] **3,241,318**
[13] A1
[51] **Int.Cl. B32B 3/26 (2006.01) B32B 15/08 (2006.01) B32B 15/085 (2006.01) B32B 15/09 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) B32B 27/36 (2006.01)**
[25] EN
[54] **PRECIOUS METAL LAMINATE AND METHODS OF MANUFACTURE**
[54] **STRATIFIE DE METAL PRECIEUX ET PROCEDES DE FABRICATION**
[72] TREXLER, ADAM, US
[72] JOHANSEN, LAURIE, US
[72] DIFFENDAFFER, PAUL, US
[71] TREXLER, ADAM, US
[71] JOHANSEN, LAURIE, US
[71] DIFFENDAFFER, PAUL, US
[85] 2024-06-17
[86] 2022-12-15 (PCT/US2022/053077)
[87] (WO2023/114434)
[30] US (17/555,170) 2021-12-17

[21] **3,241,319**
[13] A1
[51] **Int.Cl. A62D 1/00 (2006.01) A62D 1/02 (2006.01)**
[25] EN
[54] **FIREFIGHTING FOAM COMPOSITION**
[54] **COMPOSITION DE MOUSSE ANTI-INCENDIE**
[72] BOMANN, BLAKE H., US
[71] TYCO FIRE PRODUCTS LP, US
[85] 2024-06-17
[86] 2023-01-23 (PCT/IB2023/050558)
[87] (WO2023/144683)
[30] US (63/303,556) 2022-01-27

[21] **3,241,321**
[13] A1
[51] **Int.Cl. B63H 9/061 (2020.01)**
[25] EN
[54] **WIND PROPULSION UNIT AND VESSEL COMPRISING SUCH A UNIT**
[54] **UNITE DE PROPULSION VELIQUE, ET NAVIRE COMPORTANT UNE TELLE UNITE**
[72] MERLE, KATIA, FR
[72] CONAN, ERWAN, FR
[72] BARAL, NICOLAS, FR
[72] SDEZ, NICOLAS, FR
[72] GERARD, LUDOVIC, FR
[71] AYRO, FR
[71] MARVIN SERIES, FR
[85] 2024-06-17
[86] 2022-12-23 (PCT/IB2022/062736)
[87] (WO2023/119245)
[30] FR (FR2114467) 2021-12-23

[21] **3,241,322**
[13] A1
[51] **Int.Cl. F41A 11/02 (2006.01) F41A 3/66 (2006.01) F41C 23/10 (2006.01) F41C 23/22 (2006.01)**
[25] EN
[54] **FRAME ASSEMBLY FOR A FIREARM**
[54] **ENSEMBLE STRUCTURE POUR ARME A FEU**
[72] HELL, SEBASTIAN, AT
[72] GUNSAM, JURGEN, AT
[72] KROYER, JOSEF, AT
[72] KARLO, MARKUS, AT
[72] MORGENFURT, RALPH, AT
[72] MAYRHAUSER, THOMAS, AT
[71] GLOCK TECHNOLOGY GMBH, AT
[85] 2024-05-31
[86] 2022-12-22 (PCT/AT2022/060459)
[87] (WO2023/115092)
[30] EP (21217338.9) 2021-12-23

[21] **3,241,324**
[13] A1
[51] **Int.Cl. B05B 1/34 (2006.01) B05B 1/16 (2006.01) B05B 3/02 (2006.01) B08B 3/02 (2006.01)**
[25] EN
[54] **SPRAY NOZZLE FOR WASHING**
[54] **BUSE DE PULVERISATION POUR LE LAVAGE**
[72] LIM, YOUNG KYOUN, KR
[71] LIM, YOUNG KYOUN, KR
[85] 2024-05-31
[86] 2022-10-25 (PCT/KR2022/016312)
[87] (WO2023/113207)
[30] KR (10-2021-0178414) 2021-12-14

[21] **3,241,325**
[13] A1
[51] **Int.Cl. G06Q 20/04 (2012.01)**
[25] FR
[54] **METHOD, DEVICE AND COMPUTER PROGRAM FOR THE DEMATERIALISATION OF GAME RECEIPTS**
[54] **PROCEDE, DISPOSITIF ET PROGRAMME D'ORDINATEUR DE DEMATERIALISATION DE RECUS DE JEU**
[72] MEYNIEUX, ERIC, FR
[71] FDJ GAMING SOLUTIONS FRANCE, FR
[85] 2024-06-17
[86] 2022-12-15 (PCT/FR2022/052363)
[87] (WO2023/118703)
[30] FR (2113986) 2021-12-20

[21] **3,241,326**
[13] A1
[51] **Int.Cl. C12Q 1/6895 (2018.01) C12Q 1/686 (2018.01) C12Q 1/689 (2018.01)**
[25] EN
[54] **PSILOCYBE ASSAY**
[54] **DOSAGE DE PSILOCYBE**
[72] MCKERNAN, KEVIN, US
[71] MEDICINAL GENOMICS CORPORATION, US
[85] 2024-05-31
[86] 2022-12-01 (PCT/US2022/080719)
[87] (WO2023/102459)
[30] US (63/285,609) 2021-12-03

[21] **3,241,327**
[13] A1
[51] **Int.Cl. C07H 21/04 (2006.01) C12N 15/11 (2006.01) C12N 15/64 (2006.01)**
[25] EN
[54] **SCALABLE AND HIGH-PURITY CELL-FREE SYNTHESIS OF CLOSED-ENDED DNA VECTORS**
[54] **SYNTHESE EVOLUTIVE ACELLULAIRE ET DE HAUTE PURETE DE VECTEURS D'ADN A EXTREMITE FERMEE**
[72] MONDS, RUSSELL, US
[72] CIPI, JORIS, US
[72] BLACKSTOCK, DANIEL JASON, US
[72] DURANT, JOHN CHESTER, US
[71] GENERATION BIO CO., US
[85] 2024-06-17
[86] 2022-12-22 (PCT/US2022/053868)
[87] (WO2023/122303)
[30] US (63/293,337) 2021-12-23

[21] **3,241,329**
[13] A1
[51] **Int.Cl. B01F 21/20 (2022.01) B01F 25/50 (2022.01) B01F 33/40 (2022.01)**
[25] EN
[54] **SOLUBILIZER FOR VARIOUS MIXTURES**
[54] **AGENT DE SOLUBILISATION POUR DIVERS MELANGES**
[72] DE SOUZA, JOAO IVO AVELANEDA, BR
[72] VITIELLO, OMAR, BR
[71] FARIA, BRUNO PIRES, BR
[71] BOTTIN, MARCELO, BR
[71] OLIVEIRA DE SOUZA, JOAO IVO, BR
[71] VITIELLO, OMAR, BR
[85] 2024-06-17
[86] 2023-03-22 (PCT/BR2023/050098)
[87] (WO2023/230682)
[30] BR (1020220106401) 2022-05-31

[21] **3,241,330**
[13] A1
[51] **Int.Cl. B63H 9/061 (2020.01)**
[25] FR
[54] **SHIP WITH AT LEAST ONE SAIL PROPULSION UNIT**
[54] **NAVIRE AVEC AU MOINS UN PROPULSEUR VELIQUE**
[72] MERLE, KATIA, FR
[72] BARAL, NICOLAS, FR
[72] WATIN, SIMON, FR
[72] LOUIS, FRANCOIS-XAVIER, FR
[72] GERARD, LUDOVIC, FR
[71] AYRO, FR
[71] MARVIN SERIES, FR
[71] ALWENA SHIPPING, FR
[85] 2024-06-17
[86] 2022-12-23 (PCT/IB2022/062735)
[87] (WO2023/119244)
[30] FR (FR2114463) 2021-12-23

[21] **3,241,332**
[13] A1
[51] **Int.Cl. A24F 40/10 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION**
[72] SUTTON, JOSEPH PETER, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-17
[86] 2022-12-09 (PCT/GB2022/053158)
[87] (WO2023/118795)
[30] GB (2118832.1) 2021-12-22

[21] **3,241,333**
[13] A1
[51] **Int.Cl. A61K 39/145 (2006.01) A61K 39/215 (2006.01) A61K 39/39 (2006.01) A61K 47/02 (2006.01) A61K 47/04 (2006.01) A61K 47/18 (2017.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **VACCINE ADJUVANT AGENT CONTAINING POLYACRYLIC ACID POLYMER AND USE OF SAME**
[54] **AGENT ADJUVANT DE VACCIN CONTENANT UN POLYMERE D'ACIDE POLYACRYLIQUE ET SON UTILISATION**
[72] KAMISHITA, TAIZOU, JP
[72] MIYAZAKI, TAKASHI, JP
[72] SASAKI, EITA, JP
[71] TOKO YAKUHIN KOGYO CO., LTD., JP
[71] JAPAN AS REPRESENTED BY DIRECTOR-GENERAL NATIONAL INSTITUTE OF INFECTIOUS DISEASES, JP
[85] 2024-06-17
[86] 2022-12-20 (PCT/JP2022/046937)
[87] (WO2023/120535)
[30] JP (2021-206279) 2021-12-20

[21] **3,241,335**
[13] A1
[51] **Int.Cl. A47C 1/032 (2006.01) A47C 3/025 (2006.01) A47C 3/026 (2006.01)**
[25] EN
[54] **AN OSCILLATION MECHANISM FOR A CHAIR OR AN ARMCHAIR**
[54] **MECANISME D'OSCILLATION POUR CHAISE OU FAUTEUIL**
[72] DONATI, ARMANDO, IT
[71] DONATI S.P.A., IT
[85] 2024-06-17
[86] 2023-01-11 (PCT/IB2023/050239)
[87] (WO2023/144639)
[30] IT (102022000001481) 2022-01-28

[21] **3,241,336**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/44 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**
[72] ROTHWELL, HOWARD, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-17
[86] 2022-12-09 (PCT/GB2022/053159)
[87] (WO2023/118796)
[30] GB (2118834.7) 2021-12-22

[21] **3,241,338**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) C07D 401/14 (2006.01) C07D 403/14 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **PARP INHIBITOR, PHARMACEUTICAL COMPOSITION COMPRISING SAME, AND USE THEREOF**
[54] **INHIBITEUR DE PARP, COMPOSITION PHARMACEUTIQUE LE COMPRENANT ET SON UTILISATION**
[72] DENG, YONGQI, CN
[72] TIAN, YUAN, CN
[72] JIA, YANLIN, CN
[72] ZHU, SHIJUN, CN
[71] KEYTHERA (SUZHOU) BIO-PHARMACEUTICALS CO., LIMITED, CN
[85] 2024-06-17
[86] 2022-12-01 (PCT/CN2022/135894)
[87] (WO2023/109521)
[30] CN (202111559484.X) 2021-12-17

[21] **3,241,339**
[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01) A24C 5/01 (2020.01)**
[25] EN
[54] **ARTICLE FOR USE WITH AN APPARATUS FOR HEATING AEROSOLISABLE MATERIAL**
[54] **ARTICLE DESTINE A ETRE UTILISE AVEC UN APPAREIL DE CHAUFFAGE D'UN MATERIAU AEROSOLISABLE**
[72] FALLON, GARY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-17
[86] 2022-12-20 (PCT/GB2022/053302)
[87] (WO2023/118837)
[30] GB (2118571.5) 2021-12-20

[21] **3,241,341**
[13] A1
[51] **Int.Cl. B63H 9/061 (2020.01)**
[25] FR
[54] **WIND PROPULSION UNIT AND VESSEL COMPRISING SUCH A UNIT**
[54] **UNITE DE PROPULSION VELIQUE, ET NAVIRE COMPORTANT UNE TELLE UNITE**
[72] SDEZ, NICOLAS, FR
[72] GERARD, LUDOVIC, FR
[71] AYRO, FR
[85] 2024-06-17
[86] 2022-12-23 (PCT/IB2022/062734)
[87] (WO2023/119243)
[30] FR (FR2114460) 2021-12-23

[21] **3,241,342**
[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEMS AND ARTICLES FOR USE THEREIN**
[54] **SYSTEMES DE FOURNITURE D'AEROSOL ET ARTICLES DESTINES A ETRE UTILISES DANS CEUX-CI**
[72] DIMMICK, BARRY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-17
[86] 2022-12-19 (PCT/GB2022/053292)
[87] (WO2023/118832)
[30] GB (2118541.8) 2021-12-20

[21] **3,241,343**
[13] A1
[51] **Int.Cl. A24B 13/02 (2006.01) A24B 3/14 (2006.01) A24B 15/12 (2006.01)**
[25] EN
[54] **AN AEROSOL GENERATING MATERIAL**
[54] **MATERIAU DE GENERATION D'AEROSOL**
[72] DIMMICK, BARRY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-17
[86] 2022-12-20 (PCT/GB2022/053306)
[87] (WO2023/118840)
[30] GB (2118525.1) 2021-12-20

[21] **3,241,344**
[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **AN ARTICLE**
[54] **ARTICLE**
[72] COX, KERI, US
[72] JACKSON, THADDEUS, US
[72] CONNER, BILLY, US
[72] MOLONEY, PATRICK, GB
[72] AOUN, WALID ABI, GB
[72] BALAN, CATALIN, GB
[72] JAUREGUI, JUAN ESTEBAN PAZ, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-17
[86] 2022-12-16 (PCT/GB2022/053278)
[87] (WO2023/118822)
[30] US (63/291,884) 2021-12-20

[21] **3,241,345**
[13] A1
[51] **Int.Cl. C25B 1/04 (2021.01) C25B 1/23 (2021.01) C25B 3/03 (2021.01) C25B 3/07 (2021.01) C25B 3/26 (2021.01) C25B 9/05 (2021.01) C07C 1/02 (2006.01) C25B 15/08 (2006.01)**
[25] FR
[54] **METHOD FOR ELECTROCHEMICAL REDUCTION OF LIQUID OR SUPERCRITICAL CO2**
[54] **PROCEDE DE REDUCTION ELECTROCHIMIQUE DE CO2 LIQUIDE OU SUPERCRITIQUE**
[72] ARNOLD, MICKAEL, FR
[71] ARNOLD, MICKAEL, FR
[85] 2024-06-17
[86] 2022-12-29 (PCT/EP2022/088042)
[87] (WO2023/126499)
[30] FR (FR2114745) 2021-12-31

[21] **3,241,346**
[13] A1
[51] **Int.Cl. A24C 5/18 (2006.01)**
[25] EN
[54] **APPARATUS FOR MANUFACTURING A ROD OF AEROSOL GENERATING MATERIAL, METHODS OF MANUFACTURING A ROD OF AEROSOL GENERATING MATERIAL AND METHODS OF MANUFACTURING AN ARTICLE FOR AN AEROSOL PROVISION SYSTEM.**
[54] **APPAREIL ET PROCEDES DE FABRICATION DE TIGE DE MATERIAU DE GENERATION D'AEROSOL AINSI QUE PROCEDES DE FABRICATION D'UN ARTICLE DE SYSTEME DE FOURNITURE D'AEROSOL.**
[72] DIMMICK, BARRY, GB
[72] RICHARDSON, JOHN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-17
[86] 2022-12-20 (PCT/GB2022/053331)
[87] (WO2023/118857)
[30] GB (2118570.7) 2021-12-20

[21] **3,241,347**
[13] A1
[51] **Int.Cl. A23J 3/22 (2006.01) A23P 30/10 (2016.01)**
[25] EN
[54] **DEVICE AND METHOD FOR FORMING A PRODUCT THAT IMITATES PROPERTIES OF MEAT, POULTRY, FISH, SEAFOOD, OR PRODUCTS DERIVED THEREFROM**
[54] **DISPOSITIF ET PROCEDE DE FORMATION D'UN PRODUIT IMITANT LES PROPRIETES DE LA VIANDE, DE VOLAILLE, DE POISSON, DE FRUITS DE MER OU DE PRODUITS DERIVES DE CEUX-CI**
[72] ROBERTS, IAN DAVID, CH
[72] GEORGET, ERIKA SYLVIE, CH
[72] MITCHELL, WILLIAM ROBERT, CH
[71] BUEHLER AG, CH
[85] 2024-06-17
[86] 2022-12-22 (PCT/EP2022/087435)
[87] (WO2023/118412)
[30] EP (21217503.8) 2021-12-23
[30] EP (22156034.5) 2022-02-10

[21] **3,241,348**
[13] A1
[51] **Int.Cl. C25B 1/27 (2021.01)**
[25] EN
[54] **ELECTROCHEMICAL REDUCTION OF NITROGEN TO AMMONIA CATALYZED BY POLYOXOMETALATES**
[54] **REDUCTION ELECTROCHIMIQUE D'AZOTE EN AMMONIAC CATALYSEE PAR DES POLYOXOMETALLATES**
[72] NEUMANN, RONNY, IL
[72] TZAGUY, AVRA, IL
[71] YEDA RESEARCH AND DEVELOPMENT CO. LTD, IL
[85] 2024-05-31
[86] 2022-11-30 (PCT/IL2022/051276)
[87] (WO2023/100180)
[30] IL (288627) 2021-12-02

[21] **3,241,359**
[13] A1
[51] **Int.Cl. B02C 18/18 (2006.01) B02C 18/14 (2006.01) B02C 18/16 (2006.01)**
[25] EN
[54] **QUICK CHANGE CASSETTE SHREDDER**
[54] **DECHIQUETEUSE A CASSETTE A CHANGEMENT RAPIDE**
[72] CROOKS, MICHAEL, US
[71] CROOKS, MICHAEL, US
[85] 2024-06-17
[86] 2022-12-15 (PCT/US2022/053019)
[87] (WO2023/114405)
[30] US (17/553,935) 2021-12-17

[21] **3,241,366**
[13] A1
[51] **Int.Cl. A01N 33/12 (2006.01) C07C 209/12 (2006.01) C07C 213/04 (2006.01) C07C 211/63 (2006.01)**
[25] EN
[54] **PRODUCTION OF ANHYDROUS QUATERNARY AMMONIUM HYDROXIDES**
[54] **PRODUCTION D'HYDROXYDES D'AMMONIUM QUATERNAIRE ANHYDRES**
[72] ZHOU, HUI, US
[72] ZHANG, KE, US
[71] HUNTSMAN PETROCHEMICAL LLC, US
[85] 2024-06-03
[86] 2022-12-02 (PCT/US2022/051625)
[87] (WO2023/102167)
[30] US (63/285,787) 2021-12-03

[21] **3,241,367**
[13] A1
[51] **Int.Cl. G01R 19/155 (2006.01) G01R 31/54 (2020.01)**
[25] EN
[54] **DETECTION CIRCUITRY**
[54] **CIRCUIT DE DETECTION**
[72] SUTTON, LEE ROBERT, GB
[72] RICHARD, ROBIN LOIC, GB
[72] AHMED, SEIF ALESLAM IBRAHIM MAHMOUD, GB
[71] MYENERGI LTD, GB
[85] 2024-06-17
[86] 2022-12-16 (PCT/GB2022/053274)
[87] (WO2023/118821)
[30] GB (2118618.4) 2021-12-21

[21] **3,241,369**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 47/54 (2017.01) A61K 9/51 (2006.01)**
[25] EN
[54] **NANOPARTICLE COMPOSITION FOR PULMONARY DRUG DELIVERY**
[54] **COMPOSITION DE NANOPARTICULES POUR ADMINISTRATION DE MEDICAMENT PULMONAIRE**
[72] LEE, SO JIN, KR
[72] YOO, SEUNG JU, KR
[72] PARK, JONG MIN, KR
[72] JEONG, SEUNG WEI, KR
[71] SAMYANG HOLDINGS CORPORATION, KR
[85] 2024-06-17
[86] 2022-12-23 (PCT/KR2022/021181)
[87] (WO2023/121388)
[30] KR (10-2021-0185684) 2021-12-23

[21] **3,241,370**
[13] A1
[51] **Int.Cl. F04B 17/03 (2006.01) F04B 35/04 (2006.01) F04B 53/22 (2006.01)**
[25] EN
[54] **CONFIGURABLE BASE PLATE SYSTEM FOR INDUSTRIAL PUMPS**
[54] **SYSTEME DE PLAQUE DE BASE CONFIGURABLE POUR POMPES INDUSTRIELLES**
[72] YODER, BRANDON, US
[72] WHITE, JORDAN R., US
[72] ENTERLINE, ANDREW, US
[71] CORNELL PUMP COMPANY, US
[85] 2024-06-17
[86] 2022-12-21 (PCT/US2022/082111)
[87] (WO2023/129846)
[30] US (63/295,969) 2022-01-03

[21] **3,241,371**
[13] A1
[51] **Int.Cl. B60M 1/30 (2006.01) B60M 1/34 (2006.01)**
[25] EN
[54] **RELOCATABLE BASE FOR ELEVATED POWER RAILS AND METHOD OF DEPLOYMENT**
[54] **BASE REPOSITIONNABLE POUR RAILS D'ALIMENTATION ELEVES ET PROCEDE DE DEPLOIEMENT**
[72] STRASHNY, IGOR, US
[72] WELLER, BRIAN ROBERT, US
[71] CATERPILLAR GLOBAL MINING EQUIPMENT LLC, US
[85] 2024-06-17
[86] 2022-12-05 (PCT/US2022/051796)
[87] (WO2023/129336)
[30] US (17/563,317) 2021-12-28

[21] **3,241,373**
[13] A1
[51] **Int.Cl. E04C 2/22 (2006.01) C08K 3/013 (2018.01) B29C 48/07 (2019.01) B32B 27/30 (2006.01) B44C 5/04 (2006.01) C03C 11/00 (2006.01) C08K 3/40 (2006.01) C08K 7/22 (2006.01) C08K 7/28 (2006.01) E04C 2/24 (2006.01) E04C 5/07 (2006.01) E04F 15/10 (2006.01)**
[25] EN
[54] **PROCESS FOR MANUFACTURING A BUILDING PANEL AND AN ASSOCIATED BUILDING PANEL**
[54] **PROCEDE DE FABRICATION D'UN PANNEAU DE CONSTRUCTION ET PANNEAU DE CONSTRUCTION ASSOCIE**
[72] SKOLD, FILIP, SE
[72] GAMSTEDT, PONTUS, SE
[72] JOSEFSSON, PER, SE
[71] CERALOC INNOVATION AB, SE
[85] 2024-06-03
[86] 2022-12-16 (PCT/SE2022/051187)
[87] (WO2023/121539)
[30] SE (2151558-0) 2021-12-20

[21] **3,241,374**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **METHODS FOR ATTENUATING ATOPIC MARCH BY ADMINISTERING AN IL-4/IL-13 ANTAGONIST**
[54] **METHODES POUR ATTENUER LA MARCHE ATOPIQUE PAR ADMINISTRATION D'UN ANTAGONISTE D'IL-4/IL-13**
[72] GEBA, GREGORY, US
[72] LI, DATENG, US
[72] LI, JUDY XIANG, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-06-17
[86] 2022-12-29 (PCT/US2022/082535)
[87] (WO2023/130010)
[30] US (63/295,113) 2021-12-30

[21] **3,241,375**
[13] A1
[51] **Int.Cl. B60M 1/30 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR JOINING POWER RAIL SEGMENTS**
[54] **SYSTEME ET PROCEDE DE JONCTION DE SEGMENTS DE RAIL D'ALIMENTATION**
[72] STRASHNY, IGOR, US
[71] CATERPILLAR GLOBAL MINING EQUIPMENT LLC, US
[85] 2024-06-17
[86] 2022-12-05 (PCT/US2022/051790)
[87] (WO2023/129334)
[30] US (17/563,359) 2021-12-28

[21] **3,241,376**
[13] A1
[51] **Int.Cl. A24F 40/485 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **VAPORIZER WITH HOLLOW-OUT VAPORIZING COVER PART**
[54] **ATOMISEUR AYANT UN COUVERCLE D'ATOMISATION EVIDE**
[72] LIN, GUANGRONG, CN
[72] ZHENG, XIANBIN, CN
[71] HUIZHOU HAPPY VAPING TECHNOLOGY LIMITED, CN
[85] 2024-06-17
[86] 2022-09-15 (PCT/CN2022/119018)
[87] (WO2023/109220)
[30] CN (202111553335.2) 2021-12-17

[21] **3,241,378**
[13] A1
[51] **Int.Cl. A61C 1/05 (2006.01)**
[25] EN
[54] **AIR TURBINE, DENTAL HANDPIECE, AND BOOST ADAPTER**
[54] **TURBINE A AIR, PIECE A MAIN DENTAIRE ET ADAPTATEUR D'AMPLIFICATION**
[72] SUZUKI, KAZUYOSHI, JP
[71] SUZUKI, KAZUYOSHI, JP
[85] 2024-06-17
[86] 2022-10-21 (PCT/JP2022/039285)
[87] (WO2023/145163)
[30] JP (2022-020854) 2022-01-26
[30] JP (2022-041903) 2022-02-28
[30] JP (2022-138655) 2022-08-15

[21] **3,241,381**
[13] A1
[51] **Int.Cl. B05C 5/02 (2006.01)**
[25] EN
[54] **FIELD-CONFIGURABLE, EXCHANGEABLE, AND REVERSIBLE EXTRUDER ASSEMBLY FOR A FLUID APPLICATION SYSTEM**
[54] **ENSEMBLE EXTRUDEUSE A CHAMP CONFIGURABLE, ECHANGEABLE ET REVERSIBLE POUR UN SYSTEME D'APPLICATION DE FLUIDE**
[72] BOLYARD, EDWARD WAYNE JR., US
[72] LESSLEY, MEL STEVEN, US
[71] IILINOIS TOOL WORKS INC., US
[85] 2024-06-03
[86] 2022-12-15 (PCT/US2022/081668)
[87] (WO2023/122478)
[30] US (63/291,554) 2021-12-20
[30] US (18/066,227) 2022-12-14

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[13] A1
[51] **Int.Cl. B65G 47/18 (2006.01) B65D 88/26 (2006.01) B65D 88/66 (2006.01) B65D 90/02 (2019.01) B65G 11/12 (2006.01) B65G 15/30 (2006.01) B65G 47/44 (2006.01) B65G 65/40 (2006.01) B65G 69/08 (2006.01)**
[25] EN
[54] **SYSTEM FOR STORING, TRANSPORTING, AND DISPENSING WET SAND TO A HYDRAULIC FRACTURING OPERATION AT A WELL SITE**
[54] **SYSTEME DE STOCKAGE, DE TRANSPORT ET DE DISTRIBUTION DE SABLE HUMIDE AU COURS D'UNE OPERATION DE FRACTURATION HYDRAULIQUE AU NIVEAU D'UN SITE DE PUITS**
[72] GARCIA, GEORGE, US
[72] TAYLOR, CASEY, US
[72] USSERY, DEREK, US
[72] TRUEHEART, CHAD, US
[71] SANDBOX ENTERPRISES, LLC, US
[85] 2024-06-03
[86] 2022-12-09 (PCT/US2022/052414)
[87] (WO2023/107699)
[30] US (63/265,253) 2021-12-10
[30] US (63/268,277) 2022-02-20

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[13] A1
[51] **Int.Cl. B60L 58/12 (2019.01) B60L 58/13 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR QUEUE MANAGEMENT OF MACHINES BASED ON BATTERY-RELATED CHARACTERISTICS**
[54] **SYSTEMES ET PROCEDES DE GESTION DE FILE D?ATTENTE D?ENGINS SUR LA BASE DE CARACTERISTIQUES LIEES AUX BATTERIES**
[72] VITALE, ANDREW J., US
[71] CATERPILLAR INC., US
[85] 2024-06-17
[86] 2022-12-16 (PCT/US2022/081726)
[87] (WO2023/133029)
[30] US (17/569,511) 2022-01-06

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[13] A1
[51] **Int.Cl. G01J 3/32 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC RADIATION MEASUREMENT DEVICE**
[54] **DISPOSITIF DE MESURE DE RAYONNEMENT ELECTROMAGNETIQUE**
[72] CAO, YAMENG, GB
[72] CASTRO, FERNANDO, GB
[72] WOOD, SEBASTIAN, GB
[71] NPL MANAGEMENT LIMITED, GB
[85] 2024-06-17
[86] 2022-12-21 (PCT/GB2022/053341)
[87] (WO2023/118863)
[30] GB (2118924.6) 2021-12-23

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[13] A1
[51] **Int.Cl. A61K 9/127 (2006.01) A61K 47/69 (2017.01) A61K 47/24 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING MODIFIED PHOSPHOLIPIDS AND USES THEREOF**
[54] **COMPOSITIONS COMPRENANT DES PHOSPHOLIPIDES MODIFIES ET LEURS UTILISATIONS**
[72] KOHANE, DANIEL S., US
[72] LI, YANG, US
[71] THE CHILDREN'S MEDICAL CENTER CORPORATION, US
[85] 2024-06-03
[86] 2022-12-06 (PCT/US2022/051905)
[87] (WO2023/107415)
[30] US (63/286,403) 2021-12-06

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[13] A1
[51] **Int.Cl. G06Q 30/01 (2023.01) G06F 40/35 (2020.01) H04M 3/51 (2006.01)**
[25] EN
[54] **TECHNOLOGIES FOR AUTOMATED PROCESS DISCOVERY IN CONTACT CENTER SYSTEMS**
[54] **TECHNOLOGIES DE DECOUVERTE AUTOMATIQUE DE PROCESSUS DANS DES SYSTEMES DE CENTRE D'APPELS**
[72] SEKAR, ARCHANA, IN
[72] GOPAL, RAVIKUMAR, IN
[71] GENESYS CLOUD SERVICES, INC., US
[85] 2024-06-17
[86] 2022-12-29 (PCT/US2022/054295)
[87] (WO2023/129684)
[30] US (17/565,230) 2021-12-29

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[13] A1
[51] **Int.Cl. H04L 51/02 (2022.01) G06F 18/241 (2023.01) G06N 3/02 (2006.01) H04M 3/51 (2006.01)**
[25] EN
[54] **GLOBAL CONFIDENCE CLASSIFIER FOR INFORMATION RETRIEVAL IN CONTACT CENTERS**
[54] **CLASSIFICATEUR DE CONFIANCE GLOBAL POUR EXTRACTION D'INFORMATIONS DANS DES CENTRES DE CONTACT**
[72] ELLURU, VEERA RAGHAVENDRA, IN
[72] SUNDARAM, RAMASUBRAMANIAN, IN
[72] GEORGE, BASIL, IN
[72] ELLURU, NARESH KUMAR, IN
[72] BUDUGUPPA, PAVAN KUMAR, IN
[71] GENESYS CLOUD SERVICES, INC., US
[85] 2024-06-17
[86] 2022-12-29 (PCT/US2022/054294)
[87] (WO2023/129683)
[30] US (17/564,783) 2021-12-29

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[13] A1
[51] **Int.Cl. A61J 15/00 (2006.01) A61M 5/142 (2006.01)**
[25] EN
[54] **WEARABLE FLUID DELIVERY SYSTEM PROVIDING REGIMEN-PREDICTIVE ANALYTICS**
[54] **SYSTEME POUR DELIVRER UN FLUIDE PORTABLE FOURNISSANT UNE ANALYSE PREDICTIVE DE REGIME**
[72] PIPER, NEAL, US
[72] JOHNSON, HILL, US
[72] BERGERON, BRIAN J., US
[71] LUMINOAH, INC., US
[85] 2024-06-17
[86] 2022-12-20 (PCT/US2022/053470)
[87] (WO2023/122066)
[30] US (17/645,181) 2021-12-20

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[13] A1
[51] **Int.Cl. A61N 1/04 (2006.01) A61N 1/39 (2006.01)**
[25] EN
[54] **GARMENT FEATURES FOR ECG ELECTRODE PRESSURE AND/OR STABILIZATION IN A WEARABLE MEDICAL DEVICE**
[54] **CARACTERISTIQUES DE VETEMENTS POUR LA PRESSION ET/OU LA STABILISATION D'ELECTRODES D'ECG DANS UN DISPOSITIF MEDICAL POUVANT ETRE PORTE**
[72] RUSTAGI, SUNAINA, US
[72] SWENGLISH, CHRISTOPHER LAWRENCE, US
[72] ALIZADEH-MEGHRAZI, MILAD, CA
[72] CHAHINE, TONY, CA
[72] ESKANDARIAN, LADAN, CA
[71] ZOLL MEDICAL CORPORATION, US
[85] 2024-06-03
[86] 2022-12-05 (PCT/US2022/051876)
[87] (WO2023/107405)
[30] US (63/286,466) 2021-12-06

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[13] A1
[51] **Int.Cl. H01M 50/30 (2021.01) H01M 10/052 (2010.01) H01M 50/204 (2021.01) H01M 50/271 (2021.01) H01M 50/35 (2021.01) H01M 50/367 (2021.01)**
[25] EN
[54] **BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **BLOC-BATTERIE ET VEHICULE LE COMPRENANT**
[72] WOO, SUNG-HOON, KR
[72] SHIN, JU-HWAN, KR
[72] PARK, MYUNG-KI, KR
[72] PARK, WON-KYOUNG, KR
[72] SEONG, JUN-YEOB, KR
[72] LEE, TAE-KYEONG, KR
[72] LEE, HYOUNG-SUK, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-06-17
[86] 2023-01-25 (PCT/KR2023/001145)
[87] (WO2023/146277)
[30] KR (10-2022-0011080) 2022-01-25

[21] **3,241,395**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ET LEURS UTILISATIONS**
[72] SCHROFELBAUER, BARBEL, US
[72] KIMES, PATRICK, US
[72] HAHN, WILLIAM, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2024-06-17
[86] 2022-12-19 (PCT/US2022/053380)
[87] (WO2023/114544)
[30] US (63/290,825) 2021-12-17

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[13] A1
[51] **Int.Cl. A61K 38/03 (2006.01) A61K 38/17 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **USE OF THE NEGR1 PROTEIN AND BIOLOGICALLY ACTIVE FRAGMENTS THEREOF IN THE THERAPEUTIC TREATMENT OF ALK-RELATED DISEASES**
[54] **UTILISATION DE LA PROTEINE NEGR1 ET DE SES FRAGMENTS BIOLOGIQUEMENT ACTIFS DANS LE TRAITEMENT THERAPEUTIQUE DE MALADIES ASSOCIEES A ALK**
[72] PICCOLI, GIOVANNI, IT
[72] PISCHEDDA, FRANCESCA, IT
[71] FONDAZIONE TELETHON ETS, IT
[71] UNIVERSITA' DEGLI STUDI DI TRENTO, IT
[85] 2024-06-17
[86] 2022-12-21 (PCT/EP2022/087229)
[87] (WO2023/118291)
[30] IT (102021000032243) 2021-12-22

[21] **3,241,398**
[13] A1
[51] **Int.Cl. G09B 19/00 (2006.01) A01G 3/08 (2006.01) A01G 23/08 (2006.01) G09B 19/24 (2006.01) G09B 25/00 (2006.01)**
[25] EN
[54] **TREE/POLE CUTTING TRAINING ASSEMBLY AND METHOD**
[54] **ENSEMBLE ET PROCEDE D'ENTRAINEMENT A LA COUPE D'ARBRES/DE POTEAUX**
[72] CARPENTER, EDGAR P., US
[71] NORTH AMERICAN TRAINING SOLUTIONS INC., US
[85] 2024-06-03
[86] 2022-12-05 (PCT/US2022/051765)
[87] (WO2023/102252)
[30] US (63/285,742) 2021-12-03
[30] US (18/074,129) 2022-12-02

[21] **3,241,401**
[13] A1
[51] **Int.Cl. A62D 1/02 (2006.01)**
[25] EN
[54] **FOAM STABILIZING COMPOSITION FOR FLUORINE-FREE FIREFIGHTING FOAMS**
[54] **COMPOSITION DE STABILISATION DE MOUSSE POUR MOUSSES DE LUTTE CONTRE L'INCENDIE SANS FLUOR**
[72] BANERJEE, ANIRUDHA, US
[72] WENZLICK, ZACHARY, US
[72] QIAO, YUSEN, US
[71] DOW SILICONES CORPORATION, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-06-17
[86] 2022-12-30 (PCT/US2022/054315)
[87] (WO2023/129693)
[30] US (63/295,686) 2021-12-31

[21] **3,241,403**
[13] A1
[51] **Int.Cl. E06B 1/12 (2006.01) C03B 23/023 (2006.01) E04C 2/38 (2006.01) E06B 3/54 (2006.01)**
[25] EN
[54] **CURVED STRUCTUAL GLAZING COMPOSITE FORMED VIA COLD BENDING WITH IMPROVED DURABILITY**
[54] **COMPOSITE DE VITRAGE STRUCTURAL INCURVE FORME PAR PLIAGE A FROID AVEC UNE DURABILITE AMELIOREE**
[72] FENG, JIE, US
[72] MIRGON, MARK, US
[72] KIMBERLAIN, JON, US
[72] SITTE, SIGURD, DE
[72] HAYEZ, VALERIE, BE
[71] DOW SILICONES CORPORATION, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-06-17
[86] 2022-12-28 (PCT/US2022/054169)
[87] (WO2023/129604)
[30] US (63/295,549) 2021-12-31

[21] **3,241,406**
[13] A1
[51] **Int.Cl. A61K 31/4035 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **ORAL SUSPENSIONS OF APREMILAST**
[54] **SUSPENSIONS ORALE D'APREMILAST**
[72] GONG, YUCHUAN, US
[71] AMGEN INC., US
[85] 2024-06-04
[86] 2021-12-23 (PCT/US2021/065047)
[87] (WO2023/121670)

[21] **3,241,407**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **PLATFORM FOR ANTIBODY DISCOVERY**
[54] **PLATEFORME POUR DECOUVERTE D'ANTICORPS**
[72] SCHROFELBAUER, BARBEL, US
[72] KIMES, PATRICK, US
[72] HAHN, WILLIAM, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2024-06-17
[86] 2022-12-19 (PCT/US2022/053378)
[87] (WO2023/114543)
[30] US (63/290,827) 2021-12-17

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[13] A1
[51] **Int.Cl. B01D 53/02 (2006.01) C07C 7/12 (2006.01) C07C 11/04 (2006.01) C07C 11/06 (2006.01)**
[25] EN
[54] **ADSORBENT FOR REMOVING METHANOL OR CO2 FROM A HYDROCARBON STREAM**
[54] **ADSORBANT PERMETTANT D'ELIMINER LE METHANOL OU LE CO2 D'UN FLUX D'HYDROCARBURES**
[72] XU, QING, US
[72] LIN, ZHE, US
[72] WANG, LU, US
[71] UOP, LLC, US
[85] 2024-06-17
[86] 2022-12-27 (PCT/US2022/082412)
[87] (WO2023/129916)
[30] US (63/266,290) 2021-12-31

[21] **3,241,413**
[13] A1
[51] **Int.Cl. B65H 29/00 (2006.01) B65H 29/56 (2006.01) B65H 29/58 (2006.01)**
[25] EN
[54] **LARGE STORAGE CAPACITY STORING AND ISSUING MODULE**
[54] **MODULE DE STOCKAGE ET D'EMISSION A GRANDE CAPACITE DE STOCKAGE**
[72] PORCARI, FRANCESCO PAOLO, IT
[71] ARCA TECHNOLOGIES S.R.L., IT
[85] 2024-06-17
[86] 2022-12-22 (PCT/IB2022/062673)
[87] (WO2023/126792)
[30] IT (102021000033155) 2021-12-30

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[13] A1
[51] **Int.Cl. A61K 9/107 (2006.01) A61K 9/51 (2006.01) C08J 3/12 (2006.01)**
[25] EN
[54] **NANOPARTICLES AND METHODS OF PRODUCTION FOR THE ENCAPSULATION OF NUCLEIC ACIDS**
[54] **NANOPARTICULES ET PROCEDES DE PRODUCTION POUR L'ENCAPSULATION D'ACIDES NUCLEIQUES**
[72] PAGELS, ROBERT F., US
[72] MARKWALTER, CHESTER E., US
[72] ESPOSITO, MARK, US
[71] OPTIMEOS LIFE SCIENCES, INC., US
[85] 2024-06-17
[86] 2022-12-23 (PCT/US2022/053948)
[87] (WO2023/122331)
[30] US (63/293,497) 2021-12-23
[30] US (63/314,364) 2022-02-25
[30] US (63/389,349) 2022-07-14

[21] **3,241,416**
[13] A1
[51] **Int.Cl. F23C 9/08 (2006.01) F23L 15/04 (2006.01)**
[25] EN
[54] **LOW NOX GAS BURNER WITH COOLED FLUE GAS RECYCLE**
[54] **BRULEUR A GAZ A FAIBLE EMISSION DE NOX AVEC RECYCLAGE DE GAZ DE COMBUSTION REFROIDI**
[72] KRAUS, KURT, US
[72] RICHMOND, DUSTY RAY, US
[72] MOSTOFI-ASHTIANI, MOHAMMAD REZA, US
[72] QIN, ZHILI, US
[71] HONEYWELL INTERNATIONAL INC., US
[85] 2024-06-17
[86] 2022-12-29 (PCT/US2022/082547)
[87] (WO2023/130020)
[30] US (63/266,306) 2021-12-31
[30] US (18/062,767) 2022-12-07

[21] **3,241,417**
[13] A1
[51] **Int.Cl. F23C 6/04 (2006.01) F23C 9/08 (2006.01) F23D 14/22 (2006.01)**
[25] EN
[54] **LOW NOX GAS BURNER WITH COOLED FLUE GAS RECYCLE**
[54] **BRULEUR A GAZ A FAIBLE NOX AVEC RECYCLAGE DE GAZ DE COMBUSTION REFROIDI**
[72] KRAUS, KURT, US
[72] RICHMOND, DUSTY RAY, US
[72] MOSTOFI-ASHTIANI, MOHAMMAD REZA, US
[72] QIN, ZHILI, US
[71] HONEYWELL INTERNATIONAL INC., US
[85] 2024-06-17
[86] 2022-12-28 (PCT/US2022/082448)
[87] (WO2023/129941)
[30] US (63/266,306) 2021-12-31
[30] US (18/062,768) 2022-12-07

[21] **3,241,419**
[13] A1
[51] **Int.Cl. C03C 25/1095 (2018.01) C03C 25/601 (2018.01) C03C 25/16 (2006.01)**
[25] EN
[54] **METAL TREATMENTS FOR FIBER SUBSTRATES, PROCESSES FOR TREATING FIBER SUBSTRATES, AND FILTER MEDIA HAVING TREATED FIBER SUBSTRATES**
[54] **TRAITEMENTS METALLIQUES DE SUBSTRATS FIBREUX, PROCEDES DE TRAITEMENT DE SUBSTRATS FIBREUX, ET MILIEUX FILTRANTS COMPRENANT DES SUBSTRATS FIBREUX TRAITES**
[72] BEDARD, ROBERT L., US
[72] LUPTON, F. STEPHEN, US
[72] MYERS, DAVID N., US
[71] UOP, LLC, US
[85] 2024-06-17
[86] 2022-12-27 (PCT/US2022/082407)
[87] (WO2023/129912)
[30] US (63/266,208) 2021-12-30
[30] US (18/062,770) 2022-12-07

[21] **3,241,421**
[13] A1
[51] **Int.Cl. B24D 3/02 (2006.01) B24D 11/02 (2006.01) C09K 3/14 (2006.01)**
[25] EN
[54] **ABRASIVE ARTICLES AND METHODS OF FORMING SAME**
[54] **ARTICLES ABRASIFS ET PROCEDES DE FORMATION DE CEUX-CI**
[72] MARTONE, ANTHONY, US
[72] FAN, HUA, US
[72] MCNEAL, KELLEY, US
[71] SAINT-GOBAIN ABRASIVES, INC., US
[71] SAINT-GOBAIN ABRASIFS, FR
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[87] (WO2023/130053)
[30] US (63/266,269) 2021-12-30

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[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/574 (2006.01) G01N 33/58 (2006.01)**
[25] EN
[54] **DETECTION OF EARLY-STAGE LUNG CANCER IN SPUTUM USING AUTOMATED FLOW CYTOMETRY AND MACHINE LEARNING**
[54] **DETECTION D'UN CANCER DU POUMON A UN STADE PRECOCE DANS UN CRACHAT A L'AIDE D'UNE CYTOMETRIE DE FLUX AUTOMATISEE ET D'UN APPRENTISSAGE AUTOMATIQUE**
[72] REBEL, VIVIENNE I., US
[72] LEMIEUX, MADELEINE E., CA
[71] BIOAFFINITY TECHNOLOGIES, INC., US
[85] 2024-06-17
[86] 2022-12-19 (PCT/US2022/053353)
[87] (WO2023/114538)
[30] US (63/291,247) 2021-12-17
[30] US (63/357,994) 2022-07-01
[30] US (63/390,826) 2022-07-20

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[13] A1
[51] **Int.Cl. A61M 5/46 (2006.01) A61M 37/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR USE IN THE APPLICATION AND REMOVAL OF TATTOOS AND OTHER SKIN TREATMENTS**
[54] **SYSTEME DESTINE A ETRE UTILISE DANS L'APPLICATION ET LE RETRAIT DE TATOUAGES ET D'AUTRES TRAITEMENTS DE LA PEAU**
[72] NIVEN, GREGG D., US
[72] TURNER, TIMOTHY N., US
[72] CALACINO, PIER F., US
[72] SAVAGE, JACK H., US
[71] REJUVATEK MEDICAL, INC., US
[85] 2024-06-17
[86] 2022-12-30 (PCT/US2022/054367)
[87] (WO2023/129729)
[30] US (63/295,610) 2021-12-31
[30] US (63/417,466) 2022-10-19

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[13] A1
[51] **Int.Cl. A61C 15/04 (2006.01)**
[25] EN
[54] **FLOSS APPLICATOR DEVICE WITH DUAL FLOSS RECEIVING PORTS**
[54] **DISPOSITIF APPLICATEUR DE FIL DENTAIRE AYANT DES DOUBLES ORIFICES DE RECEPTION DE FIL DENTAIRE**
[72] THORNTON, BRETT W., US
[71] PARALLEL CAPTURE HOLDINGS INC., US
[85] 2024-06-17
[86] 2022-12-19 (PCT/US2022/081982)
[87] (WO2023/115067)
[30] US (63/265,700) 2021-12-19

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[13] A1
[51] **Int.Cl. G01M 3/02 (2006.01) G02B 23/02 (2006.01) G08C 17/02 (2006.01)**
[25] EN
[54] **METHOD FOR LEAK SOURCE LOCATION INVESTIGATION**
[54] **PROCEDE DE RECHERCHE D'EMPLACEMENT DE SOURCE DE FUITE**
[72] PENG, WENFENG, US
[72] ZAPPA, BRIAN MICHAEL, US
[72] LIN, LING-YING, US
[71] MOLEX, LLC, US
[85] 2024-06-17
[86] 2023-01-20 (PCT/US2023/011192)
[87] (WO2023/141240)
[30] US (63/301,494) 2022-01-21

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[51] **Int.Cl. B07C 5/342 (2006.01) B07C 5/36 (2006.01) G01N 21/85 (2006.01) G01N 21/88 (2006.01) G01N 21/89 (2006.01)**
[25] EN
[54] **VISION ASSEMBLY FOR FRUIT AND VEGETABLE PRODUCTS, AND ASSOCIATED APPARATUS**
[54] **ENSEMBLE DE VISION POUR PRODUITS A BASE DE FRUITS ET DE LEGUMES, ET APPAREIL ASSOCIE**
[72] BENEDETTI, LUCA, IT
[71] UNITEC S.P.A., IT
[85] 2024-06-17
[86] 2022-12-20 (PCT/EP2022/087116)
[87] (WO2023/126262)
[30] IT (102022000000008) 2022-01-03

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[51] **Int.Cl. B02C 18/16 (2006.01) B02C 17/18 (2006.01) B02C 18/14 (2006.01) B02C 18/36 (2006.01)**
[25] EN
[54] **SHREDDER LUBRICATION SYSTEM**
[54] **SYSTEME DE LUBRIFICATION DE DECHIQUETEUSE**
[72] CROOKS, MICHAEL, US
[71] CROOKS, MICHAEL, US
[85] 2024-06-17
[86] 2022-12-16 (PCT/US2022/053188)
[87] (WO2023/114480)
[30] US (17/553,960) 2021-12-17

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[51] **Int.Cl. A61K 35/17 (2015.01) A61P 31/20 (2006.01) A61P 37/06 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTOR (CAR) T CELLS FOR TREATING AUTOIMMUNE DISEASE AND ASSOCIATED METHODS**
[54] **LYMPHOCYTES T A RECEPTEUR ANTIGENIQUE CHIMERIQUE (CAR) POUR LE TRAITEMENT D'UNE MALADIE AUTO-IMMUNE ET METHODES ASSOCIEES**
[72] SCHREPFER, SONJA, US
[72] FRY, TERRY JAMES, US
[72] BRUNETTA, PAUL, US
[72] OGDEN, CAROL ANNE, US
[72] HARR, STEVE, US
[72] AGARWAL, SUNIL, US
[72] SCHREPFER, SONJA, US
[72] FRY, TERRY JAMES, US
[72] BRUNETTA, PAUL, US
[72] DJEDJOS, CONSTANTINE STEPHEN, US
[72] OGDEN, CAROL ANNE, US
[72] HARR, STEVE, US
[71] SANA BIOTECHNOLOGY, INC., US
[85] 2024-06-17
[86] 2022-12-23 (PCT/US2022/053971)
[87] (WO2023/122337)
[30] US (63/293,637) 2021-12-23
[30] US (63/320,672) 2022-03-16

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[13] A1
[51] **Int.Cl. G16B 15/00 (2019.01)**
[25] EN
[54] **OFF-TARGET PREDICTION METHOD FOR ANTIGEN-RECOGNITION MOLECULES BINDING TO MHC-PEPTIDE TARGETS**
[54] **PROCEDE DE PREDICTION HORS CIBLE POUR MOLECULES DE RECONNAISSANCE D'ANTIGENE SE LIANT A DES CIBLES CMH-PEPTIDE**
[72] DHANIK, ANKUR, US
[72] KUNDU, KUNAL, US
[72] LEE, WEN-YI, US
[72] SUH, DAVID, US
[72] CHEN, GANG, US
[72] SALZLER, ROBERT, US
[72] BABB, ROBERT, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-06-17
[86] 2022-12-20 (PCT/US2022/082070)
[87] (WO2023/122621)
[30] US (63/292,205) 2021-12-21

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[13] A1
[51] **Int.Cl. H02K 1/28 (2006.01) F16F 15/30 (2006.01) H02K 5/15 (2006.01) H02K 15/02 (2006.01) H02K 1/30 (2006.01) H02K 7/02 (2006.01) H02K 7/04 (2006.01) H02K 15/16 (2006.01)**
[25] EN
[54] **STACKED LAMINATION ENDPLATE**
[54] **PLAQUE D'EXTREMITE DE STRATIFICATION EMPILEE**
[72] GAISER, KYLE B., US
[72] SANDERS, SETH R., US
[72] HOLLOWAY, MARK J., US
[72] RODEWALD, KEENAN WILLIAM, US
[72] WRIGHT, KIANA, US
[71] AMBER KINETICS, INC., US
[85] 2024-06-17
[86] 2022-12-23 (PCT/US2022/053997)
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[13] A1
[51] **Int.Cl. B01L 1/02 (2006.01)**
[25] EN
[54] **METHOD FOR CONDUCTING UNIFORM REACTIONS**
[54] **METHODE DE REALISATION DE REACTIONS UNIFORMES**
[72] CLEVELAND, JASON PAUL, US
[72] MONSERUD, JON, US
[72] VANT-HULL, BARRY PATRICK JOHN, US
[72] KISLUKHIN, ALEX, US
[71] SOMALOGIC OPERATING CO., INC., US
[85] 2024-06-17
[86] 2022-12-22 (PCT/US2022/053858)
[87] (WO2023/122296)
[30] US (63/292,985) 2021-12-22

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[13] A1
[51] **Int.Cl. A61B 5/11 (2006.01) A61G 7/002 (2006.01) A61G 7/05 (2006.01)**
[25] EN
[54] **PATIENT SUPPORT APPARATUSES WITH LOCKING FEATURES**
[54] **APPAREILS DE SUPPORT DE PATIENT AVEC CARACTERISTIQUES DE VERROUILLAGE**
[72] SUKUMARAN, SUJAY, US
[72] THOMAS, MADHU, CA
[72] VYTLA, LAVANYA, US
[72] CONNELL, JASON JOHN, CA
[72] DUNN, JEREMY L., US
[72] GRAVES, MICHAEL E., US
[72] CUTLER, MATTHEW A., US
[72] ROBERTSON, DONNA-MARIE, US
[72] SHEA, XIANYU, US
[72] GUNCAN, BERKAY, TR
[72] GURLEK, MEHMET ZIHNI, TR
[72] BRADFORD, PAUL, GB
[72] KANTARCI, SERKAN, TR
[72] FULLJAMES, CHRISTIAN, US
[71] STRYKER CORPORATION, US
[85] 2024-06-18
[86] 2023-05-19 (PCT/US2023/022817)
[87] (WO2023/225246)
[30] US (63/343,818) 2022-05-19
[30] US (63/417,516) 2022-10-19

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[13] A1
[51] **Int.Cl. B62D 55/07 (2006.01) B62M 6/90 (2010.01)**
[25] EN
[54] **ELECTRIC SNOWMOBILE**
[54] **MOTONEIGE ELECTRIQUE**
[72] SALFAR, LUCAS, US
[72] LIU, GEORGE, US
[72] BARTZ, AUSTIN, US
[72] PIERCE, TROY, US
[72] BORUD, ERIC J., US
[72] MAXWELL, COLE J., US
[72] OMDAHL, COREY D., US
[72] EICHENBERGER, JEREMY R., US
[72] EATON, JEFFREY A., US
[72] MOONEY, SCOTT R., US
[72] FREDRICKSON, RICHARD A., US
[71] POLARIS INDUSTRIES INC., US
[85] 2024-06-18
[86] 2022-12-28 (PCT/US2022/082491)
[87] (WO2023/129979)
[30] US (63/295,560) 2021-12-31

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[13] A1
[51] **Int.Cl. B65D 71/50 (2006.01)**
[25] EN
[54] **ARTICLE CARRIER AND BLANK THEREFOR**
[54] **SUPPORT D?ARTICLE ET EBAUCHE CORRESPONDANTE**
[72] GREY, CASEY P., US
[72] DEAN, NOAH, US
[72] PANEK, JOEL C., US
[72] BENSON, JOHN D., US
[71] WESTROCK PACKAGING SYSTEMS, LLC, US
[85] 2024-06-18
[86] 2023-01-09 (PCT/US2023/060294)
[87] (WO2023/133545)
[30] US (63/297,779) 2022-01-09

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[13] A1
[51] **Int.Cl. C02F 1/72 (2006.01) C02F 11/08 (2006.01)**
[25] EN
[54] **SCWO SYSTEM FOR TREATMENT OF HIGH-STRENGTH WASTES**
[54] **SYSTEME SCWO DE TRAITEMENT DE DECHETS A HAUTE RESISTANCE**
[72] DESHUSSES, MARC, US
[72] NAGAR, YAACOV, US
[72] BALLENGHIEN, DAVID, US
[72] HARIF, HAMUTAL, US
[71] 374WATER INC., US
[85] 2024-05-31
[86] 2022-12-20 (PCT/US2022/053443)
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[30] US (63/265,759) 2021-12-20

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[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/506 (2006.01) A61P 1/08 (2006.01) A61P 3/04 (2006.01) A61P 19/00 (2006.01) A61P 21/00 (2006.01) A61P 29/00 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **MELANOCORTIN 4 RECEPTOR ANTAGONISTS AND USES THEREOF**
[54] **ANTAGONISTES DU RECEPTEUR 4 DE LA MELANOCORTINE ET LEURS UTILISATIONS**
[72] GARNSEY, MICHELLE RENEE, US
[72] GRIFFITH, DAVID ANDREW, US
[72] HELAL, CHRISTOPHER JOHN, US
[72] KUNG, DANIEL WEI-SHUNG, US
[72] LIAN, YAJING, US
[72] OGILVIE, KEVIN ALEXANDER, US
[72] POLIVKOVA, JANA, US
[72] RAYMER, BRIAN, US
[72] SAMMONS, MATTHEW FORREST, US
[72] SMITH, AARON CHRISTOPHER, US
[72] YANG, QINGYI, US
[71] PFIZER INC., US
[85] 2024-06-03
[86] 2022-12-05 (PCT/IB2022/061778)
[87] (WO2023/105387)
[30] US (63/286,385) 2021-12-06
[30] US (63/383,780) 2022-11-15

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[13] A1
[51] **Int.Cl. B61C 3/00 (2006.01) B61C 9/48 (2006.01)**
[25] EN
[54] **SELF-PROPELLED RAILCAR**
[54] **AUTORAIL**
[72] LUCHINI, TIMOTHY, US
[72] VASEL, COREY, US
[72] PEIFFER, ALEX, US
[72] SOMMERLOT, STEPHEN, US
[71] INTRAMOTEV INC., US
[85] 2024-06-04
[86] 2022-12-08 (PCT/US2022/081170)
[87] (WO2023/108062)
[30] US (63/287,270) 2021-12-08

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[13] A1
[51] **Int.Cl. A23L 33/105 (2016.01) A61K 36/74 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHOD OF ENHANCING COGNITION IN INDIVIDUALS WITH AT LEAST NORMAL COGNITION**
[54] **PROCEDE D'AMELIORATION DE LA COGNITION CHEZ DES INDIVIDUS AYANT AU MOINS UNE COGNITION NORMALE**
[72] ZWIREN, DANIEL A., US
[72] GUTHRIE, O'NEIL, US
[72] GIAMPAPA, VINCENT C., US
[71] OPTIGENEX INC., US
[85] 2024-06-18
[86] 2023-09-06 (PCT/US2023/032041)
[87] (WO2024/054472)
[30] US (17/903,284) 2022-09-06

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[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) C12N 15/113 (2010.01) A61K 48/00 (2006.01) C07K 14/195 (2006.01) C12N 5/10 (2006.01) C12N 9/22 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **CRISPR-ASSOCIATED TRANSPOSASES AND METHODS OF USE THEREOF**
[54] **TRANSPOSASES ASSOCIEES A CRISPR ET LEURS PROCEDES D'UTILISATION**
[72] KLEINSTIVER, BENJAMIN, US
[72] TOU, CONNOR J., US
[71] THE GENERAL HOSPITAL CORPORATION, US
[85] 2024-06-03
[86] 2022-12-02 (PCT/US2022/051639)
[87] (WO2023/102176)
[30] US (63/285,857) 2021-12-03
[30] US (63/291,264) 2021-12-17
[30] US (63/411,735) 2022-09-30

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[13] A1
[51] **Int.Cl. C12N 9/10 (2006.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/54 (2006.01) C12N 15/63 (2006.01) C12N 15/29 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **POINT MUTATIONS THAT BOOST AROMATIC AMINO ACID PRODUCTION AND CO2 ASSIMILATION IN PLANTS**
[54] **MUTATIONS PONCTUELLES PERMETTANT DE STIMULER LA PRODUCTION D'ACIDES AMINES AROMATIQUES ET L'ASSIMILATION DE CO2 CHEZ LA PLANTE**
[72] MAEDA, HIROSHI, US
[72] YOKOYAMA, RYO, US
[72] DE OLIVEIRA, MARCOS VINICIUS VIANA, US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[85] 2024-06-04
[86] 2022-12-07 (PCT/US2022/081110)
[87] (WO2023/108018)
[30] US (63/286,811) 2021-12-07

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[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 9/113 (2006.01) A61K 9/70 (2006.01) A61K 31/4155 (2006.01) A61K 31/519 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) A61P 17/00 (2006.01) A61P 17/06 (2006.01) A61P 17/10 (2006.01) A61P 17/12 (2006.01) A61P 17/14 (2006.01)**
[25] EN
[54] **TOPICAL FORMULATIONS OF RUXOLITINIB WITH AN ORGANIC AMINE PH ADJUSTING AGENT FOR TREATMENT OF SKIN DISEASES**
[54] **FORMULATIONS TOPIQUES DE RUXOLITINIB AVEC UN AGENT D'AJUSTEMENT DU PH A BASE D'AMINE ORGANIQUE POUR LE TRAITEMENT DE MALADIES DE LA PEAU**
[72] MODEPALLI, NARESH, US
[72] SHETH, TRUPTI, US
[72] BROWN, MARC, GB
[72] EVANS, CHARLES, GB
[72] FIDGE, JAMES, GB
[72] GUIDALI, FLORENCIA, GB
[72] MCINTOSH, TECASHANELL, GB
[72] COFRE, VANESSA, GB
[71] INCYTE CORPORATION, US
[85] 2024-06-03
[86] 2022-12-04 (PCT/US2022/080873)
[87] (WO2023/102559)
[30] US (17/541,601) 2021-12-03
[30] US (63/365,973) 2022-06-07

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[13] A1
[51] **Int.Cl. C08F 22/14 (2006.01) C08F 22/00 (2006.01) C08F 265/06 (2006.01) C08F 267/06 (2006.01) C09D 135/02 (2006.01)**
[25] EN
[54] **ASYMMETRIC AND SYMMETRIC MONOMER MIXTURES OF ESTERS OF ITACONIC ACID AND CORRESPONDING COPOLYMERS**
[54] **MELANGES DE MONOMERES ASYMETRIQUES ET SYMETRIQUES D'ESTERS D'ACIDE ITACONIQUE ET COPOLYMERES CORRESPONDANTS**
[72] DURANT, YVON, US
[72] ANDERSON, MADELEINE ELEANOR, GB
[71] ITACONIX CORPORATION, US
[85] 2024-06-04
[86] 2022-11-17 (PCT/US2022/080039)
[87] (WO2023/107813)
[30] US (17/643,541) 2021-12-09

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[13] A1
[51] **Int.Cl. H02S 20/20 (2014.01) H02S 20/30 (2014.01) F24S 25/634 (2018.01) F24S 25/70 (2018.01)**
[25] EN
[54] **PHOTOVOLTAIC MODULE SUPPORT SYSTEM AND MOUNT ASSEMBLY**
[54] **SYSTEME DE SUPPORT DE MODULE PHOTOVOLTAIQUE ET ENSEMBLE DE MONTAGE**
[72] GANGUMALLA, DEEPTHI, US
[72] MADHAVI, SINDHU, US
[72] BABU, NIKHIL, US
[72] GRAHAM, AUSTIN, US
[71] UNIRAC INC., US
[85] 2024-06-04
[86] 2022-12-28 (PCT/US2022/054197)
[87] (WO2023/129623)
[30] US (17/565,210) 2021-12-29

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR BINDING MOLECULE AND USE THEREOF**
[54] **MOLECULE DE LIAISON AU RECEPTEUR DU FACTEUR DE CROISSANCE EPIDERMIQUE HUMAIN ET SON UTILISATION**
[72] LI, JIAGUO, CN
[72] LIU, XIANGZHEN, CN
[72] ZHU, WEIMIN, US
[72] SUN, YAN, CN
[72] DING, NA, CN
[72] QIAN, QIJUN, CN
[71] ZHEJIANG NANOMAB TECHNOLOGY CENTER CO. LTD., CN
[85] 2024-06-04
[86] 2022-06-23 (PCT/CN2022/100888)
[87] (WO2022/268178)
[30] CN (202110705939.8) 2021-06-24

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[13] A1
[51] **Int.Cl. C07D 207/06 (2006.01) A61K 9/127 (2006.01) A61K 31/40 (2006.01) A61K 31/455 (2006.01) A61K 47/00 (2006.01) C07C 229/00 (2006.01) C07D 207/16 (2006.01) C07D 211/22 (2006.01) C07D 211/62 (2006.01) C12N 15/52 (2006.01)**
[25] EN
[54] **IONIZABLE AMINE LIPIDS AND LIPID NANOPARTICLES**
[54] **LIPIDES AMINES IONISABLES ET NANOPARTICULES LIPIDIQUES**
[72] SAGO, CORY DANE, US
[72] HAMILTON, GREGORY LAWRENCE, US
[71] BEAM THERAPEUTICS INC., US
[85] 2024-06-04
[86] 2022-12-16 (PCT/US2022/053209)
[87] (WO2023/121975)
[30] US (63/291,639) 2021-12-20
[30] US (63/354,627) 2022-06-22

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[13] A1
[51] **Int.Cl. A61C 17/02 (2006.01) F04B 17/03 (2006.01) F04B 53/14 (2006.01) F04B 53/16 (2006.01)**
[25] EN
[54] **ORAL IRRIGATOR**
[54] **IRRIGATEUR BUCCAL**
[72] DAI, XIAOGUO, CN
[72] XU, ZHENWU, CN
[71] SHANGHAI SHIFT ELECTRICS CO., LTD., CN
[85] 2024-06-04
[86] 2022-10-28 (PCT/CN2022/128162)
[87] (WO2023/103642)
[30] CN (202111511597.2) 2021-12-06

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[13] A1
[51] **Int.Cl. C07D 211/48 (2006.01) A61K 9/50 (2006.01) A61K 9/51 (2006.01) A61K 47/18 (2017.01) C07D 309/14 (2006.01)**
[25] EN
[54] **LIPID COMPOUND AND LIPID NANOPARTICLE COMPOSITION**
[54] **COMPOSE LIPIDIQUE ET COMPOSITION DE NANOPARTICULES LIPIDIQUES**
[72] WANG, XIULIAN, CN
[71] SUZHOU ABOGEN BIOSCIENCES CO., LTD., CN
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[54] **HIGH-VOLTAGE WINDING AND METHOD FOR PREPARING HIGH-VOLTAGE WINDING**
[54] **ENROULEMENT HAUTE TENSION ET PROCEDE DE PREPARATION D'ENROULEMENT HAUTE TENSION**
[72] MA, BIN, CN
[72] MA, TINGTING, CN
[72] ZHANG, XINXIN, CN
[72] ZHOU, SHUCHEN, CN
[72] ZHANG, XIAORONG, CN
[72] LIU, CHAO, CN
[71] JIANGSU SHEMAR ELECTRIC CO., LTD., CN
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[86] 2022-12-28 (PCT/CN2022/142704)
[87] (WO2023/125633)
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[51] **Int.Cl. C10M 117/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING LUBRICATING GREASES OF LITHIUM COMPLEX SOAPS AND LITHIUM-CALCIUM COMPLEX SOAPS**
[54] **PROCEDE DE PRODUCTION DE GRAISSES LUBRIFIANTES DE SAVONS COMPLEXES DE LITHIUM ET DE SAVONS COMPLEXES DE LITHIUM-CALCIUM**
[72] ERKEL, HANS JURGEN, DE
[72] BINKLE, OLAF, DE
[72] GOERZ, TORSTEN, DE
[71] FUCHS SE, DE
[85] 2024-06-04
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[25] EN
[54] **MIXED ALIPHATIC-AROMATIC POLYESTERS**
[54] **POLYESTERS ALIPHATIQUES-AROMATIQUES MIXTES**
[72] BASTIOLI, CATIA, IT
[72] GESTI GARCIA, SEBASTIA, IT
[72] VALLERO, ROBERTO, IT
[71] NOVAMONT S.P.A., IT
[85] 2024-06-04
[86] 2022-12-06 (PCT/EP2022/084527)
[87] (WO2023/104769)
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[25] EN
[54] **METHOD FOR ENHANCING THE YIELD OF GRAIN CROPS**
[54] **PROCEDE D'AUGMENTATION DU RENDEMENT AGRICOLE DE CULTURES CEREALIERES**
[72] DUSHKOV, VLADIMIR YURIEVICH, RU
[72] APASHEVA, LYUDMILA MAGOMEDOVNA, RU
[72] STREBKOV, DMITRIY SEMENOVICH, RU
[72] LOBANOV, ANTON VALERIEVICH, RU
[72] BUDNIK, MIKHAIL IVANOVICH, RU
[72] OVCHARENKO, ELENA NIKOLAEVNA, RU
[72] TURBIN, VALERIY VLADIMIROVICH, RU
[72] ROZANTSEV, MIKHAIL VALENTINOVICH, RU
[71] STREBKOV, DMITRIY SEMENOVICH, RU
[71] BUDNIK, MIKHAIL IVANOVICH, RU
[71] TURBIN, VALERIY VLADIMIROVICH, RU
[71] ROZANTSEV, MIKHAIL VALENTINOVICH, RU
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[51] **Int.Cl. C07D 213/61 (2006.01) A61K 31/44 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORM OF (R)-2-(TERT-BUTYLAMINO)-1-(5-FLUOROPYRIDIN-3-YL)-ETHAN-1-OL HEMI-TARTRATE SALT FOR THE TREATMENT OF HYPERGLYCEMIA AND DIABETES 2**
[54] **FORME CRISTALLINE DU SEL HEMI-TARTRATE DE (R)-2-(TERT-BUTYLAMINO)-1-(5-FLUOROPYRIDIN-3-YL)-ETHAN-1-OL POUR LE TRAITEMENT DE L'HYPERGLYCEMIE ET DU DIABETE DE TYPE 2**
[72] PELCMAN, BENJAMIN, SE
[71] ATROGI AB, SE
[85] 2024-06-04
[86] 2022-12-09 (PCT/EP2022/085133)
[87] (WO2023/105035)
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[51] **Int.Cl. C07C 219/16 (2006.01) A61K 9/00 (2006.01) C07D 211/22 (2006.01)**
[25] EN
[54] **NANOMATERIALS COMPRISING TETRAVALENT LIPID COMPOUNDS**
[54] **NANOMATERIAUX COMPRENANT DES COMPOSES LIPIDIQUES TETRAVALENTS**
[72] SAGO, CORY DANE, US
[72] HAMILTON, GREGORY LAWRENCE, US
[71] BEAM THERAPEUTICS INC., US
[85] 2024-06-04
[86] 2022-12-16 (PCT/US2022/053193)
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[25] EN
[54] **ANALYTE SENSOR AND METHOD FOR MANUFACTURING AN ANALYTE SENSOR**
[54] **CAPTEUR D'ANALYTE ET PROCEDE DE FABRICATION D'UN CAPTEUR D'ANALYTE**
[72] SLIOZBERG, KIRILL, DE
[72] STECK, ALEXANDER, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2024-06-18
[86] 2022-12-06 (PCT/US2022/080963)
[87] (WO2023/122420)
[30] US (63/293,729) 2021-12-24
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[51] **Int.Cl. B29C 71/00 (2006.01) B29C 64/35 (2017.01)**
[25] EN
[54] **APPARATUS FOR THE TREATMENT OF POLYMER ELEMENTS, AND METHOD**
[54] **APPAREIL DE TRAITEMENT D'ELEMENTS POLYMERES ET PROCEDE**
[72] NEUHAEUSER, JAKOB, DE
[71] 84J GMBH & CO. KG, DE
[85] 2024-06-04
[86] 2022-12-12 (PCT/EP2022/085461)
[87] (WO2023/105090)
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[51] **Int.Cl. H04N 21/61 (2011.01) H04N 21/2347 (2011.01) H04N 21/262 (2011.01) H04N 21/4405 (2011.01) H04N 21/443 (2011.01) H04N 21/6405 (2011.01) H04N 21/6408 (2011.01) H04N 21/835 (2011.01)**
[25] EN
[54] **SECURE SATELLITE-BASED CONTENT PRELOADING**
[54] **PRECHARGEMENT SECURISE DE CONTENU PAR SATELLITE**
[72] DILLON, DOUGLAS M., US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2024-06-18
[86] 2022-12-19 (PCT/US2022/053318)
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[13] A1
[51] **Int.Cl. B22F 9/04 (2006.01) B22F 1/052 (2022.01) B22F 1/068 (2022.01) C23C 24/04 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCING A COLD COMPACTIBLE METALLIC POWDER**
[54] **PROCEDE DE PRODUCTION D'UNE POUDRE METALLIQUE COMPACTABLE A FROID**
[72] WILSON, ROBERT, AU
[72] YAN, SHIQIN, AU
[72] YANG, KUN, AU
[72] CHEN, LING, AU
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2024-06-18
[86] 2022-12-20 (PCT/AU2022/051541)
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[51] **Int.Cl. F16M 11/26 (2006.01) F16M 11/04 (2006.01) F16M 11/14 (2006.01) F16M 11/16 (2006.01) F16M 11/20 (2006.01) F16M 11/32 (2006.01) F16M 11/38 (2006.01)**
[25] EN
[54] **TELESCOPING SUPPORT STAND APPARATUS**
[54] **APPAREIL DE PIED DE SUPPORT TELESCOPIQUE**
[72] THOMASON, JACOB R., US
[72] GREY, GARRETT T., US
[71] BUSHNELL HOLDINGS, INC., US
[85] 2024-06-04
[86] 2022-12-15 (PCT/US2022/053072)
[87] (WO2023/114431)
[30] US (63/289,989) 2021-12-15
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[51] **Int.Cl. G01V 1/28 (2006.01) G06N 3/08 (2023.01) G01V 1/30 (2006.01)**
[25] EN
[54] **INCREASING RESOLUTION OF SUBSURFACE INVERSION**
[54] **AUGMENTATION DE RESOLUTION D'INVERSION DE SOUS-SOL**
[72] ZHANG, ZHAO, US
[72] ZHOU, YIJIE, US
[72] SALDANA, SANDRA C., US
[72] CHRISTENSEN, DAVID BRADLY, US
[71] CHEVRON U.S.A. INC., US
[85] 2024-06-04
[86] 2022-12-13 (PCT/US2022/052737)
[87] (WO2023/121922)
[30] US (17/556,002) 2021-12-20

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[51] **Int.Cl. A01N 25/04 (2006.01) A01N 25/10 (2006.01) A01N 25/30 (2006.01) A01N 47/34 (2006.01) A01P 7/04 (2006.01)**
[25] EN
[54] **AGROCHEMICAL COMPOSITIONS WITH IMPROVED WETTING AGENT**
[54] **COMPOSITIONS AGROCHIMIQUES AVEC AGENT MOUILLANT AMELIORE**
[72] PERETZ, YOSSEF, IL
[72] DAHAN, YOGEV, IL
[71] ADAMA MAKHTESHIM LTD., IL
[85] 2024-06-18
[86] 2022-06-21 (PCT/IL2022/050666)
[87] (WO2022/269610)
[30] US (63/213,235) 2021-06-22

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[51] **Int.Cl. H02J 3/32 (2006.01) H02J 3/38 (2006.01) G06Q 10/06 (2023.01) H02J 7/00 (2006.01) H02J 13/00 (2006.01)**
[25] EN
[54] **MANAGEMENT OF A DISTRIBUTED BATTERY ARRANGEMENT**
[54] **GESTION D'UN AGENCEMENT DE BATTERIE DISTRIBUE**
[72] HOLMBACKA, SIMON, FI
[72] HEINONEN, ESKO, FI
[72] SALMENKAITA, JUKKA-PEKKA, FI
[71] ELISA OYJ, FI
[85] 2024-06-04
[86] 2022-12-12 (PCT/FI2022/050824)
[87] (WO2023/111395)
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[51] **Int.Cl. G06F 30/12 (2020.01) G06F 9/44 (2018.01) G06N 5/04 (2023.01)**
[25] EN
[54] **COMPUTER AIDED DESIGN SYSTEM, APPLICATION, AND APPLICATION PROGRAMMING INTERFACE**
[54] **SYSTEME DE CONCEPTION ASSISTEE PAR ORDINATEUR, APPLICATION ET INTERFACE DE PROGRAMMATION D'APPLICATION**
[72] BOLLAR, HANNAH, US
[72] NOONE, JORDAN, US
[72] FRAZELLE, JESSICA, US
[72] BRYANT, JENNA, US
[71] KITTYCAD, INC., US
[85] 2024-06-18
[86] 2022-11-21 (PCT/US2022/050641)
[87] (WO2023/091772)
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[51] **Int.Cl. B05B 12/12 (2006.01) B05C 11/06 (2006.01) G01S 17/88 (2006.01) B05B 12/14 (2006.01) B05B 13/04 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PAINTING AN OBJECT**
[54] **PROCEDE ET SYSTEME DE PEINTURE D'UN OBJET**
[72] ROOP, ROBERT K., US
[72] JAWADIWAR, ASHISH, US
[72] CALABRIA, ANTHONY J., US
[72] MOORE, JOHN R., US
[72] CANNING, JR. ROBERT V., US
[72] JEFFREY, BRYANT C., US
[72] THIAGARAJAN, PRAVEEN, US
[71] AXALTA COATING SYSTEMS GMBH, CH
[85] 2024-06-18
[86] 2022-12-20 (PCT/US2022/082051)
[87] (WO2023/122613)
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[51] **Int.Cl. B05B 12/12 (2006.01) B05C 11/06 (2006.01) G01S 17/88 (2006.01) B05B 12/14 (2006.01) B05B 13/04 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PRODUCING A PATH AND PAINTING AN OBJECT ALONG THE PATH**
[54] **PROCEDE ET SYSTEME DE PRODUCTION D'UN TRAJET ET DE PEINTURE D'UN OBJET LE LONG DU TRAJET**
[72] ROOP, ROBERT K., US
[72] JAWADIWAR, ASHISH, US
[72] CALABRIA, ANTHONY J., US
[72] MOORE, JOHN R., US
[72] CANNING, ROBERT V. JR., US
[72] JEFFREY, BRYANT C., US
[72] MURPHY, NEIL R., US
[72] ANTAL, JONATHAN A., US
[72] THIAGARAJAN, PRAVEEN, US
[71] AXALTA COATING SYSTEMS GMBH, CH
[85] 2024-06-18
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[51] **Int.Cl. A61K 47/68 (2017.01)**
[25] EN
[54] **COMPOSITIONS FOR DELIVERY OF POLYNUCLEOTIDES**
[54] **COMPOSITIONS POUR ADMINISTRATION DE POLYNUCLEOTIDES**
[72] SALEH, ANTHONY, US
[72] MARUSAK, CHARLES, US
[72] WILLIAMS, TISHAN, US
[72] KANG, FU-AN, US
[71] MIRECULE, INC., US
[85] 2024-06-18
[86] 2022-12-23 (PCT/US2022/053998)
[87] (WO2023/122347)
[30] US (63/293,614) 2021-12-23

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[51] **Int.Cl. A47J 31/40 (2006.01) A47J 31/44 (2006.01) G07F 9/00 (2006.01) G07F 13/06 (2006.01)**
[25] EN
[54] **METHOD FOR CAPTURING, ANALYZING, AND DISPENSING BEVERAGE ORDERS**
[54] **PROCEDE DE CAPTURE, D'ANALYSE ET DE DISTRIBUTION DE COMMANDES DE BOISSONS**
[72] BRUFFETT, PAUL ALEXANDER, US
[72] COLBY, TYSON MARK, US
[71] STARBUCKS CORPORATION, US
[85] 2024-06-18
[86] 2022-12-23 (PCT/US2022/053975)
[87] (WO2023/129511)
[30] US (17/646,637) 2021-12-30

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[51] **Int.Cl. B29B 17/00 (2006.01) B29C 70/12 (2006.01) B29C 70/20 (2006.01) B32B 5/00 (2006.01) C08J 5/24 (2006.01)**
[25] FR
[54] **CHIP MADE FROM RECYCLED COMPOSITE MATERIAL AND PRODUCTION METHOD THEREOF**
[54] **COPEAU EN MATERIAU COMPOSITE RECYCLE ET PROCEDE DE FABRICATION**
[72] SAADA, BENJAMIN, FR
[72] PLANCHE, ROMAIN, FR
[72] TACCOEN, NICOLAS, FR
[71] FAIRMAT, FR
[85] 2024-06-18
[86] 2022-12-21 (PCT/EP2022/087374)
[87] (WO2023/118385)
[30] FR (FR2114292) 2021-12-22
[30] EP (22305430.5) 2022-03-31

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[13] A1
[51] **Int.Cl. A61N 1/05 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR NEURAL INTERFACES**
[54] **SYSTEMES ET METHODES POUR INTERFACES NEURONALES**
[72] RAPOPORT, BENJAMIN ISAAC, US
[72] PAPAGEORGIOU, DEMETRIOS PHILIP, US
[72] HETTICK, MARK, US
[72] POOLE, ADAM, US
[72] HO, ELTON, US
[71] PRECISION NEUROSCIENCE CORPORATION, US
[85] 2024-06-18
[86] 2022-12-30 (PCT/US2022/082619)
[87] (WO2023/130068)
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[51] **Int.Cl. A47J 27/09 (2006.01) A47J 36/38 (2006.01) A47J 27/086 (2006.01) A47J 27/092 (2006.01)**
[25] EN
[54] **STEAM REGULATION VALVE**
[54] **SOUPAPE DE REGULATION DE VAPEUR**
[72] DONNELLY, MEGAN, US
[72] BIBA, SCOTT, US
[72] JONCICH, ANDREW, US
[71] IB APPLIANCES US HOLDINGS, LLC, US
[85] 2024-06-18
[86] 2023-01-11 (PCT/US2023/060451)
[87] (WO2023/141382)
[30] US (63/301,178) 2022-01-20

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[13] A1
[51] **Int.Cl. A61L 27/12 (2006.01) A61L 27/36 (2006.01) A61L 27/38 (2006.01) C04B 35/447 (2006.01)**
[25] FR
[54] **BONE REGENERATION MATERIAL**
[54] **MATERIAU DE REGENERATION OSSEUSE**
[72] ROMPEN, ERIC, BE
[72] LECLOUX, GEOFFREY, BE
[72] LAMBERT, FRANCE, BE
[72] DORY, EMILIE, BE
[71] WISHBONE, BE
[85] 2024-06-18
[86] 2022-12-22 (PCT/EP2022/087609)
[87] (WO2023/118505)
[30] BE (BE2021/6050) 2021-12-23

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[13] A1
[51] **Int.Cl. A61K 31/706 (2006.01) A61K 31/443 (2006.01) A61K 31/522 (2006.01) C07D 473/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR TREATMENT OF INFLAMMATION**
[54] **COMPOSITIONS POUR LE TRAITEMENT D'UNE INFLAMMATION**
[72] MCKEARIN, JAMES M., US
[72] LIVINGSTON, DAVID J., US
[72] LAVERY, KAREN, US
[71] METRO INTERNATIONAL BIOTECH, LLC, US
[85] 2024-06-18
[86] 2022-12-21 (PCT/US2022/053680)
[87] (WO2023/122190)
[30] US (63/292,672) 2021-12-22

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[13] A1
[51] **Int.Cl. G06F 16/908 (2019.01) G06F 16/904 (2019.01)**
[25] EN
[54] **GENERATING AND UTILIZING DIGITAL MEDIA CLIPS BASED ON CONTEXTUAL METADATA FROM DIGITAL ENVIRONMENTS**
[54] **GENERATION ET UTILISATION DE CLIPS MULTIMEDIAS NUMERIQUES SUR LA BASE DE METADONNEES CONTEXTUELLES PROVENANT D'ENVIRONNEMENTS NUMERIQUES**
[72] ANBALAGAPANDIAN, ARUNSUNAI ANBUKARASI, US
[72] MANCUSO, DEVIN, US
[72] VINCENT, RITUPARNA, US
[72] GAUR, VIKSIT, US
[71] DROPBOX, INC., US
[85] 2024-06-18
[86] 2022-11-30 (PCT/US2022/080626)
[87] (WO2023/191905)
[30] US (17/657,571) 2022-03-31
[30] US (17/657,572) 2022-03-31
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[13] A1
[51] **Int.Cl. G02B 1/18 (2015.01)**
[25] FR
[54] **OPTICAL WINDOW COVERED WITH A DOPED DIAMOND ELECTRODE WITH ACTIVE FOULING REMOVAL FUNCTIONALITY**
[54] **FENETRE OPTIQUE RECOUVERTE D'UNE ELECTRODE EN DIAMANT DOPE AVEC FONCTIONNALITE ACTIVE D'ELIMINATION DES SALISSURES**
[72] GUILLEMET, RAPHAEL, FR
[72] CHOLET, JULIE, FR
[72] JUSSEY, DORIANE, FR
[72] GARABEDIAN, PATRICK, FR
[71] THALES, FR
[85] 2024-06-18
[86] 2022-12-20 (PCT/EP2022/086841)
[87] (WO2023/118038)
[30] FR (FR2114085) 2021-12-21

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[51] **Int.Cl. A47J 27/08 (2006.01) A47J 43/28 (2006.01)**
[25] EN
[54] **MUFFLER FOR PRESSURE COOKER**
[54] **AMORTISSEUR DE BRUIT POUR AUTOCUISEUR**
[72] LEPINSKE, JASON L., US
[71] IB APPLIANCES US HOLDINGS, LLC, US
[85] 2024-06-18
[86] 2023-01-13 (PCT/US2023/060608)
[87] (WO2023/141394)
[30] US (63/301,573) 2022-01-21

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[13] A1
[51] **Int.Cl. C12N 1/12 (2006.01) C12N 13/00 (2006.01) C12P 7/64 (2022.01)**
[25] EN
[54] **INCREASED LIPID PRODUCTION THROUGH METABOLIC ACTIVATION WITH IONIZING RADIATION**
[54] **AUGMENTATION DE LA PRODUCTION LIPIDIQUE PAR ACTIVATION METABOLIQUE SOUS L'EFFET DES RAYONNEMENTS IONISANTS**
[72] SPASOJEVIC, IVAN, RS
[72] ZECHMANN, BERND, US
[72] PITTMAN, JON K., GB
[72] LIZZUL, ALESSANDRO MARCO, GB
[72] STANIC, MARINA, RS
[72] JEVTOVIC, MIMA, RS
[72] DIMITRIJEVIC, MILENA, RS
[72] LUKOVIC, JELENA DANILOVIC, RS
[72] VOJVODIC, SNEZANA, RS
[71] UNIVERSITY OF BELGRADE -INST. FOR MULTIDISCIPLINARY RESEARCH, RS
[71] BAYLOR UNIVERSITY, US
[71] THE UNIVERSITY OF MANCHESTER, GB
[71] VARICON AQUA SOLUTIONS LTD., GB
[85] 2024-06-18
[86] 2023-01-20 (PCT/US2023/060954)
[87] (WO2023/141544)
[30] US (63/301,789) 2022-01-21

[21] **3,241,570**
[13] A1
[51] **Int.Cl. C03C 17/36 (2006.01)**
[25] FR
[54] **MATERIAL COMPRISING A FUNCTIONAL SINGLE-LAYER STACK WITH A DIELECTRIC LAYER OF ALUMINIUM AND SILICON NITRIDE, AND GLAZING COMPRISING THIS MATERIAL**
[54] **MATERIAU COMPORTANT UN EMPILEMENT MONO-COUCHE FONCTIONNELLE A COUCHE DIELECTRIQUE DE NITRURE A BASE D'ALUMINIUM ET DE SILICIUM ET VITRAGE COMPORTANT CE MATERIAU**
[72] GUIMARD, DENIS, FR
[72] MOUSTAFA, ADNAN, FR
[72] PEYROT, DAVID, FR
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2024-06-18
[86] 2022-12-16 (PCT/EP2022/086330)
[87] (WO2023/126213)
[30] FR (FR2114644) 2021-12-29

[21] **3,241,575**
[13] A1
[51] **Int.Cl. C03C 17/36 (2006.01)**
[25] FR
[54] **MATERIAL COMPRISING A STACK OF MULTIPLE FUNCTIONAL LAYERS WITH A DIELECTRIC LAYER OF ALUMINIUM AND SILICON NITRIDE, AND GLAZING COMPRISING SAID MATERIAL**
[54] **MATERIAU COMPORTANT UN EMPILEMENT PLURI-COUCHES FONCTIONNELLES A COUCHE DIELECTRIQUE DE NITRURE A BASE D'ALUMINIUM ET DE SILICIUM ET VITRAGE COMPORTANT CE MATERIAU**
[72] GUIMARD, DENIS, FR
[72] MOUSTAFA, ADNAN, FR
[72] PEYROT, DAVID, FR
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2024-06-18
[86] 2022-12-16 (PCT/EP2022/086332)
[87] (WO2023/126214)
[30] FR (FR2114648) 2021-12-29

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[13] A1
[51] **Int.Cl. C07H 19/10 (2006.01) C07H 1/06 (2006.01) C07H 11/04 (2006.01) C07H 15/203 (2006.01)**
[25] EN
[54] **CHEMICAL SYNTHESIS OF CYTIDINE-5'-MONOPHOSPHO-N-GLYCYL-SIALIC ACID**
[54] **SYNTHESE CHIMIQUE D'ACIDE CYTIDINE-5'-MONOPHOSPHO-N-GLYCYL-SIALIQUE**
[72] JOSEPH, SHAJI, US
[72] BODENMULLER, ARTHUR, CH
[71] 89BIO, INC., US
[85] 2024-06-18
[86] 2022-12-20 (PCT/US2022/082059)
[87] (WO2023/122616)
[30] US (63/265,744) 2021-12-20

[21] **3,241,593**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 47/55 (2017.01) A61K 31/437 (2006.01) A61K 31/4545 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **BIFUNCTIONAL SULPHONAMIDE COMPOUNDS**
[54] **COMPOSES DE SULFONAMIDE BIFONCTIONNELS**
[72] BRZOZOWSKI, MARTIN, AU
[72] GARNIER, JEAN-MARC DANIEL, AU
[72] GARDNER, CHRISTOPHER, AU
[72] LESSENE, GUILLAUME LAURENT, AU
[72] KERSTEN, WILCO, AU
[71] ANAXIS PHARMA PTY LTD, AU
[85] 2024-06-18
[86] 2022-12-22 (PCT/AU2022/051575)
[87] (WO2023/115149)
[30] AU (2021904204) 2021-12-22

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[13] A1
[51] **Int.Cl. F03B 13/26 (2006.01) F03B 11/08 (2006.01)**
[25] EN
[54] **TIDAL POWER GENERATING APPARATUS USING TIDE-INDUCING HYDRAULIC PIPELINE AND TIDAL POWER PIPELINE TURBINE**
[54] **APPAREIL DE GENERATION D'ENERGIE MAREMOTRICE UTILISANT UN PIPELINE HYDRAULIQUE INDUISANT UNE MAREE ET UNE TURBINE DE PIPELINE D'ENERGIE MAREMOTRICE**
[72] KIM, SEONG SIK, KR
[71] KIM, SEONG SIK, KR
[85] 2024-06-18
[86] 2022-10-05 (PCT/KR2022/014945)
[87] (WO2023/059045)
[30] KR (10-2021-0133244) 2021-10-07

[21] **3,241,644**
[13] A1
[51] **Int.Cl. A61G 5/04 (2013.01) A61G 5/10 (2006.01)**
[25] EN
[54] **SYSTEM TO ADJUST DRIVE OPERATION AND PERFORMANCE IN RESPONSE TO DETECTION OF A FRONT ADD-ON FOR A WHEELCHAIR**
[54] **SYSTEME POUR AJUSTER LE FONCTIONNEMENT ET LES PERFORMANCES D'ENTRAINEMENT EN REPONSE A LA DETECTION D'UN ELEMENT AVANT AJOUTE POUR UN FAUTEUIL ROULANT**
[72] EMFINGER, WILLIAM ALEXANDER, US
[72] GASSER, BENJAMIN WILLIAM, US
[72] HEMKENS, BENJAMIN PHILLIP, US
[71] PERMOBIL, INC., US
[85] 2024-06-18
[86] 2022-12-19 (PCT/US2022/053352)
[87] (WO2023/122010)
[30] US (17/556,074) 2021-12-20

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[13] A1
[51] **Int.Cl. A61G 5/04 (2013.01) A61G 5/10 (2006.01)**
[25] EN
[54] **FRONT ADD-ON FOR A WHEELCHAIR**
[54] **ACCESSOIRE AVANT POUR FAUTEUIL ROULANT**
[72] EMFINGER, WILLIAM ALEXANDER, US
[72] GASSER, BENJAMIN WILLIAM, US
[72] HEMKENS, BENJAMIN PHILLIP, US
[71] PERMOBIL, INC., US
[85] 2024-06-18
[86] 2022-12-19 (PCT/US2022/053350)
[87] (WO2023/122008)
[30] US (17/556,067) 2021-12-20

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[13] A1
[51] **Int.Cl. C12Q 1/6888 (2018.01)**
[25] EN
[54] **METHODS FOR THE NON-INVASIVE DIAGNOSIS OF INTESTINAL INFECTION IN BIRDS**
[54] **PROCEDES POUR LE DIAGNOSTIC NON INVASIF D'UNE INFECTION INTESTINALE CHEZ LES OISEAUX**
[72] WILLIAMS, JONATHAN, GB
[72] BLAKE, DAMER, GB
[71] THE ROYAL VETERINARY COLLEGE, GB
[85] 2024-06-04
[86] 2022-12-05 (PCT/GB2022/053087)
[87] (WO2023/105200)
[30] GB (2117593.0) 2021-12-06

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[13] A1
[51] **Int.Cl. C12N 15/63 (2006.01) C12N 9/22 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **PROTEIN EXPRESSION**
[54] **EXPRESSION DE PROTEINES**
[72] METZAKOPIAN, EMMANOUIL, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2024-06-04
[86] 2022-12-06 (PCT/GB2022/053106)
[87] (WO2023/105212)
[30] GB (2117583.1) 2021-12-06

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[13] A1
[51] **Int.Cl. C08L 97/00 (2006.01) H01M 4/133 (2010.01) H01M 4/134 (2010.01) H01M 4/583 (2010.01) C01B 32/318 (2017.01) B01F 23/60 (2022.01) C10B 53/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A GRANULAR CARBON-SILICON COMPOSITE FROM A LIGNIN-SILICON COMPOSITE**
[54] **PROCEDE DE PRODUCTION D'UN COMPOSITE CARBONE-SILICIUM GRANULAIRE A PARTIR D'UN COMPOSITE LIGNINE-SILICIUM**
[72] OLSSON, VILHELM, SE
[72] WALTER, STEPHAN, DE
[72] WACHTLER, MARIO, SE
[71] STORA ENSO OYJ, FI
[85] 2024-06-04
[86] 2022-12-07 (PCT/IB2022/061883)
[87] (WO2023/105441)
[30] SE (2151513-5) 2021-12-10

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[13] A1
[51] **Int.Cl. G08G 1/00 (2006.01) B60P 1/00 (2006.01) B60P 3/00 (2006.01) E02F 9/20 (2006.01) G08G 1/13 (2006.01)**
[25] EN
[54] **MANAGEMENT SYSTEM FOR WORK VEHICLE, MANAGEMENT METHOD FOR WORK VEHICLE, AND WORK VEHICLE**
[54] **SYSTEME DE GESTION POUR VEHICULE DE TRAVAIL, PROCEDE DE GESTION POUR VEHICULE DE TRAVAIL ET VEHICULE DE TRAVAIL**
[72] SHIGA, TATSUYA, JP
[72] TANAKA, DAISUKE, JP
[71] KOMATSU LTD., JP
[85] 2024-05-28
[86] 2022-11-21 (PCT/JP2022/043011)
[87] (WO2023/100706)
[30] JP (2021-195686) 2021-12-01

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[13] A1
[51] **Int.Cl. E21B 34/06 (2006.01) E21B 17/02 (2006.01) E21B 33/122 (2006.01) E21B 41/00 (2006.01) E21B 43/02 (2006.01) E21B 47/12 (2012.01)**
[25] EN
[54] **ELECTRIC COMPLETION SYSTEM AND METHODOLOGY**
[54] **METHODOLOGIE ET SYSTEME D'ACHEVEMENT ELECTRIQUE**
[72] GUVEN, OGUZHAN, US
[72] LARDY, DAVID, US
[72] KRUSH, ROBERT, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-06-04
[86] 2022-12-02 (PCT/US2022/051644)
[87] (WO2023/107341)
[30] US (63/286,983) 2021-12-07

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[13] A1
[51] **Int.Cl. F16G 15/14 (2006.01) F16G 13/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ASSEMBLING AND REPAIRING CHAINS**
[54] **SYSTEMES ET PROCEDES POUR L'ASSEMBLAGE ET LA REPARATION DE CHAINES**
[72] BURKHARDT, DAVID KEITH, US
[72] WOODS, DAVID RICHARD, US
[72] VENTO, JOSEPH LEO, US
[72] JANSSON, KYLE STEVEN, US
[71] REXNORD INDUSTRIES, LLC, US
[85] 2024-06-04
[86] 2022-12-06 (PCT/US2022/051901)
[87] (WO2023/107413)
[30] US (63/287,747) 2021-12-09

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[13] A1
[51] **Int.Cl. E21B 47/04 (2012.01) G01V 1/50 (2006.01)**
[25] EN
[54] **IDENTIFYING FORMATION LAYER TOPS WHILE DRILLING A WELLBORE**
[54] **IDENTIFICATION DE SOMMETS DE COUCHE DE FORMATION LORS DU FORAGE D'UN PUITS DE FORAGE**
[72] AL KAWAI, WISAM, SA
[72] YANG, YUNLAI, SA
[72] ALMARHOON, MAHER I., SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2024-06-04
[86] 2022-12-07 (PCT/US2022/052116)
[87] (WO2023/107550)
[30] US (17/643,330) 2021-12-08

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[13] A1
[51] **Int.Cl. C07D 417/12 (2006.01) A61K 31/427 (2006.01) A61P 35/00 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 491/10 (2006.01) C07D 498/08 (2006.01)**
[25] EN
[54] **BCL-XL/BCL-2 DUAL DEGRADERS FOR TREATMENT OF CANCERS**
[54] **AGENTS DE DEGRADATION DOUBLES BCL-XL/BCL-2 POUR LE TRAITEMENT DE CANCER S**
[72] ZHENG, GUANGRONG, US
[72] ZHOU, DAOHONG, US
[72] HU, WANYI, US
[72] THUMMURI, DINESH, US
[72] ZHANG, PEIYI, US
[72] PAL, PRATIK, US
[72] LYU, DONGWEN, US
[72] YUAN, YAXIA, US
[71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US
[85] 2024-06-04
[86] 2022-12-08 (PCT/US2022/052228)
[87] (WO2023/107606)
[30] US (63/287,962) 2021-12-09

[21] **3,241,673**
[13] A1
[51] **Int.Cl. B65D 47/06 (2006.01) B65D 43/16 (2006.01) B65D 47/20 (2006.01)**
[25] EN
[54] **CONTAINER, CLOSURE, AND METHODS OF MANUFACTURE AND USE**
[54] **RECIPIENT, FERMETURE ET PROCEDES DE FABRICATION ET D'UTILISATION**
[72] ZIMMERMAN, DANIEL M., US
[72] CLAY, JOHN KEVIN, US
[72] MCCAY, JAMES E., US
[71] H.J. HEINZ COMPANY BRANDS LLC, US
[85] 2024-06-04
[86] 2022-12-08 (PCT/US2022/052242)
[87] (WO2023/107613)
[30] US (63/288,363) 2021-12-10

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[13] A1
[51] **Int.Cl. G01N 21/64 (2006.01) G01N 33/52 (2006.01) G01J 3/42 (2006.01)**
[25] EN
[54] **INDICATOR CLEARANCE MONITORING IN MACHINE PERFUSION OF AN ORGAN**
[54] **SURVEILLANCE DE CLAIRANCE DE L'INDICATEUR DANS LA PERFUSION MACHINE D'UN ORGANE**
[72] KIM, JOOHYUN, US
[71] THE MEDICAL COLLEGE OF WISCONSIN, INC., US
[85] 2024-06-04
[86] 2022-12-01 (PCT/US2022/051504)
[87] (WO2023/107326)
[30] US (63/287,382) 2021-12-08

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[13] A1
[51] **Int.Cl. B01D 53/52 (2006.01) B01D 53/32 (2006.01) B01D 53/62 (2006.01) C10L 3/10 (2006.01)**
[25] EN
[54] **TREATMENT OF SOUR NATURAL GAS**
[54] **TRAITEMENT DE GAZ NATUREL ACIDE**
[72] AL-QAHTANI, MOHAMMAD S., SA
[72] CHOI, SEUNG-HAK, SA
[72] DUVAL, SEBASTIEN A., SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2024-06-04
[86] 2022-12-12 (PCT/US2022/052562)
[87] (WO2023/114142)
[30] US (17/549,378) 2021-12-13

[21] **3,241,680**
[13] A1
[51] **Int.Cl. C07C 5/22 (2006.01) C30B 25/02 (2006.01) C30B 25/18 (2006.01) C30B 29/04 (2006.01)**
[25] EN
[54] **LOW TEMPERATURE SYNTHESIS, GROWTH AND DOPING METHODS AND RESULTING MATERIALS**
[54] **PROCEDES DE SYNTHESE, DE CROISSANCE ET DE DOPAGE A BASSE TEMPERATURE ET MATERIAUX RESULTANTS**
[72] CUOMO, JEROME, US
[71] CUOMO, JEROME, US
[85] 2024-06-04
[86] 2022-12-21 (PCT/US2022/053577)
[87] (WO2023/122130)
[30] US (63/293,482) 2021-12-23

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[13] A1
[51] **Int.Cl. A63G 31/00 (2006.01) A63G 31/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING A RIDE VEHICLE OF AN ATTRACTION SYSTEM**
[54] **SYSTEMES ET PROCEDES DE COMMANDE D'UN VEHICULE DE MANEGE D'UN SYSTEME D'ATTRACTION**
[72] HAYNES, GRACE CATHERYN, US
[72] SMITH, MICHELLE, US
[72] SMITH, DAVID, US
[72] LEIBA, NEIL ANDREW, US
[72] JOSEPH, DOUG, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2024-06-19
[86] 2023-01-13 (PCT/US2023/010793)
[87] (WO2023/137174)
[30] US (63/300,209) 2022-01-17
[30] US (17/591,324) 2022-02-02

[21] **3,241,686**
[13] A1
[51] **Int.Cl. B62D 35/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR AERODYNAMIC TRAILER SKIRT**
[54] **APPAREIL POUR JUPE DE REMORQUE AERODYNAMIQUE**
[72] MORGAN, JUSTIN KANE, US
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2024-06-19
[86] 2021-12-29 (PCT/US2021/065499)
[87] (WO2023/129151)

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[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4545 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORMS OF (R)-1-(1-ACRYLOYLPIPERIDIN-3-YL)-4-AMINO-3-(4-PHENOXYPHENYL)-1H-IMIDAZO[4,5-C]PYRIDIN-2(3H)-ONE AND SALTS THEREOF**
[54] **FORMES CRISTALLINES DE (R)-1-(1-ACRYLOYLPIPERIDIN-3-YL)-4-AMINO-3-(4-PHENOXYPHENYL)-1H-IMIDAZO[4,5-C]PYRIDIN-2(3H)-ONE ET SELS DE CEUX-CI**
[72] OWENS, TIM, US
[72] OCHSENBEIN, PHILIPPE E., FR
[72] DIAZ, KRISTA, US
[71] PRINCIPIA BIOPHARMA, INC., US
[85] 2024-06-19
[86] 2022-12-20 (PCT/US2022/053479)
[87] (WO2023/122072)
[30] US (63/292,124) 2021-12-21
[30] US (63/432,169) 2022-12-13

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[13] A1
[51] **Int.Cl. B01J 20/16 (2006.01) B01J 20/18 (2006.01)**
[25] FR
[54] **INORGANIC SOLIDS MIXTURE**
[54] **MELANGE DE SOLIDES INORGANIQUES**
[72] BOUVIER, LUDIVINE, FR
[72] LUTZ, CECILE, FR
[72] LABEDE, MARIE-LAURENCE, FR
[71] ARKEMA FRANCE, FR
[85] 2024-06-19
[86] 2022-12-12 (PCT/FR2022/052310)
[87] (WO2023/126592)
[30] FR (FR2114715) 2021-12-31

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[13] A1
[51] **Int.Cl. A47J 31/44 (2006.01) B67D 1/00 (2006.01) B67D 1/08 (2006.01)**
[25] EN
[54] **MANAGING DISPENSEMENT OF FLUID TO A RECEPTACLE**
[54] **GESTION DE DISTRIBUTION DE FLUIDE DANS UN RECEPTACLE**
[72] KHAN, KAZIM, US
[72] LACATENA, DOMINIC, US
[72] PATEL, NEER, US
[71] PEPSICO, INC., US
[85] 2024-06-19
[86] 2022-12-21 (PCT/US2022/053673)
[87] (WO2023/129449)
[30] US (17/564,887) 2021-12-29

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[13] A1
[51] **Int.Cl. B67D 1/04 (2006.01) B01F 23/236 (2022.01) B67D 1/12 (2006.01)**
[25] EN
[54] **BEVERAGE DISPENSE SYSTEMS WITH AUTOMATIC MIXING**
[54] **SYSTEMES DE DISTRIBUTION DE BOISSON A MELANGE AUTOMATIQUE**
[72] BHUTANI, GURMEET SINGH, IN
[72] KAMBLE, RAHUL SADASHIV, IN
[72] GULATI, AMANDEEP SINGH, IN
[71] PEPSICO, INC., US
[85] 2024-06-19
[86] 2022-12-23 (PCT/US2022/053914)
[87] (WO2023/129492)
[30] IN (202141062151) 2021-12-31

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[13] A1
[51] **Int.Cl. C07D 215/20 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR TREATMENT OF CANCER**
[54] **COMPOSES POUR LE TRAITEMENT DU CANCER**
[72] ISAACS, JOHN T., US
[72] BRENNEN, WILLIAM NATHANIEL, US
[72] AKINBOYE, EMMANUEL S., US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2024-06-19
[86] 2022-12-20 (PCT/US2022/082050)
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[30] US (63/291,757) 2021-12-20

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[13] A1
[51] **Int.Cl. E21B 47/022 (2012.01) E21B 47/013 (2012.01) E21B 47/0228 (2012.01) E21B 47/01 (2012.01) E21B 47/12 (2012.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR ALIGNING DRILL RIGS**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES D'ALIGNEMENT D'APPAREILS DE FORAGE**
[72] CASE, MICHAEL, CA
[72] MORONEY, GEOFF, AU
[72] TOMASZEWSKI, ADAM, CA
[71] VERACIO LTD., US
[85] 2024-06-19
[86] 2022-12-20 (PCT/US2022/053480)
[87] (WO2023/122073)
[30] US (63/291,582) 2021-12-20

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[13] A1
[51] **Int.Cl. H04L 45/30 (2022.01) H04W 4/50 (2018.01) H04L 41/0893 (2022.01) H04L 45/64 (2022.01) H04W 16/10 (2009.01) H04L 41/0803 (2022.01) H04L 41/12 (2022.01)**
[25] EN
[54] **INTELLIGENT NETWORK SLICING AND POLICY-BASED ROUTING ENGINE**
[54] **DECOUPAGE DE RESEAU INTELLIGENT ET MOTEUR DE ROUTAGE A BASE DE REGLES**
[72] MODY, APURVA N., US
[72] CROMPTON, BRYAN, US
[72] ISLAM, JUNAID, US
[72] SIMPSON, DAVID, US
[72] TRAN, DAP MINH, US
[71] A10 SYSTEMS INC., US
[85] 2024-06-19
[86] 2022-12-20 (PCT/US2022/082083)
[87] (WO2023/122627)
[30] US (63/291,839) 2021-12-20
[30] US (18/069,157) 2022-12-20

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[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) C07K 14/47 (2006.01) C12N 9/64 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **COMPLEMENT FACTOR I-RELATED COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ET METHODES ASSOCIEES AU FACTEUR I DU COMPLEMENT**
[72] BLOUSE, GRANT E., US
[72] JENSEN, JAN KRISTIAN, DK
[72] OLDENBURG, EMIL, DK
[72] SCHAR, CHRISTINE RENE, DK
[72] JENDROSZEK, AGNIESZKA, DK
[72] MCGUIRE, JAMES N., US
[72] IYER, SHYAM RAJAN, US
[72] PELOT, KYLE A., US
[71] VERTEX PHARMACEUTICALS INCORPORATED, US
[85] 2024-06-19
[86] 2022-12-21 (PCT/US2022/082177)
[87] (WO2023/122689)
[30] US (63/293,040) 2021-12-22

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[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **APPARATUSES AND METHODS FOR OPTICAL FIBER FURCATION**
[54] **APPAREILS ET PROCEDES DE BIFURCATION DE FIBRE OPTIQUE**
[72] ZIMNICKI, JAMES JOHN, US
[72] CRUZ, ANA CAROLINA MARINO, US
[71] BELDEN, INC., US
[85] 2024-06-19
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[25] EN
[54] **COMPOSITIONS AND METHODS FOR PRODUCING ENHANCED CROPS WITH PROBIOTICS**
[54] **COMPOSITIONS ET METHODES DE PRODUCTION DE CULTURES AMELIOREES AVEC DES PROBIOTIQUES**
[72] BALLOK, ALICIA EVE, US
[72] KENNEDY, JOSEPHINE JAMES, US
[72] TOLEDO, GERARDO V., US
[72] SCHOTT, ERIC MICHAEL, US
[72] MINCER, TRACY, US
[72] RAYMOND, RACHEL ARIEL, US
[72] MONTES DE OCA VALERIANO, LUIS ARTURO, US
[71] SOLAREA BIO, INC., US
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[87] (WO2023/122035)
[30] US (63/291,913) 2021-12-20

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[54] **MODULAR IRRIGATION TOWER**
[54] **TOUR D'IRRIGATION MODULAIRE**
[72] SOUTH, MICHAEL CHARLES, US
[72] DUDIK, MATTHEW J., US
[71] LINDSAY CORPORATION, US
[85] 2024-06-19
[86] 2023-01-03 (PCT/US2023/060035)
[87] (WO2023/133373)
[30] US (17/568,762) 2022-01-05

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[25] EN
[54] **ROTARY DISPENSING TANK**
[54] **RESERVOIR DE DISTRIBUTION ROTATIF**
[72] CARSTENS, AARON EMMANUEL, US
[72] TURNER, STEPHEN B., US
[71] ALFONS HAAR, INC., US
[85] 2024-06-19
[86] 2022-12-02 (PCT/US2022/051637)
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[30] US (17/645,349) 2021-12-21

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[25] EN
[54] **CAMPTOTHECIN ANALOGS CONJUGATED TO A GLUTAMINE RESIDUE IN A PROTEIN, AND THEIR USE**
[54] **CONJUGUES PROTEINE-MEDICAMENT COMPRENANT DES ANALOGUES DE CAMPTOTHECINE ET PROCEDES D'UTILISATION ASSOCIES**
[72] HAN, AMY, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-06-19
[86] 2023-01-10 (PCT/US2023/010514)
[87] (WO2023/137026)
[30] US (63/298,786) 2022-01-12

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[13] A1
[51] **Int.Cl. C07C 213/08 (2006.01) C07C 213/10 (2006.01) C07C 217/20 (2006.01)**
[25] EN
[54] **COMPOSITIONS OF (Z)-ENDOXIFEN AND METHODS OF ENRICHMENT THEREOF**
[54] **COMPOSITIONS DE (Z)-ENDOXIFENE ET PROCEDES D'ENRICHISSEMENT EN CELUI-CI**
[72] SUN, YAO-LIN, TW
[72] LO, WEI-JEN, TW
[72] HUNG, KUN-CHIH, TW
[72] HSU, CHIA-CHEN, TW
[72] QUAY, STEVEN C., US
[71] ATOSSA THERAPEUTICS, INC., US
[85] 2024-06-19
[86] 2023-01-11 (PCT/US2023/010567)
[87] (WO2023/137044)
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[13] A1
[51] **Int.Cl. A61M 60/174 (2021.01) A61M 60/237 (2021.01) A61M 60/422 (2021.01) A61M 60/81 (2021.01)**
[25] FR
[54] **INTRAVENTRICULAR CARDIAC PUMP WITH NARROWED HEAD.**
[54] **POMPE CARDIAQUE INTRAVENTRICULAIRE A TETE RETRECIE.**
[72] GARRIGUE, STEPHANE, FR
[72] MASCARELL, ARNAUD, FR
[71] FINEHEART, FR
[85] 2024-06-19
[86] 2022-12-01 (PCT/EP2022/084129)
[87] (WO2023/117368)
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[51] **Int.Cl. C01B 35/04 (2006.01)**
[25] FR
[54] **METHOD FOR DRY-METHOD SYNTHESIS OF A DIBORIDE POWDER**
[54] **PROCEDE DE SYNTHESE D'UNE POUDRE DE DIBORURE PAR VOIE SECHE**
[72] AVHAD, MANGESH RAMESH, FR
[72] SAN-MIGUEL, LAURIE, FR
[72] CHAMPION, THIBAULT, FR
[71] SAINT-GOBAIN CENTRE DE RECHERCHES ET D'ETUDES EUROPEEN, FR
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[86] 2023-01-10 (PCT/FR2023/050036)
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[51] **Int.Cl. C12P 7/625 (2022.01) C12P 7/6445 (2022.01) C12P 7/6463 (2022.01) C08G 63/06 (2006.01) C08G 63/78 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING POLYHYDROXYALKANOATES (PHAS) AND TRIACYLGLYCERIDES (TAGS)**
[54] **PROCEDE POUR LA PRODUCTION DE POLYHYYDROXYALCANOATES (PHA) ET DE TRIACYLGLYCERIDES (TAG)**
[72] MOSQUERA CORRAL, ANUSKA, ES
[72] VAL DEL RIO, MARIA ANGELES, ES
[72] ARGIZ MONTES, LUCIA, ES
[71] UNIVERSIDADE DE SANTIAGO DE COMPOSTELA, ES
[85] 2024-06-19
[86] 2022-12-16 (PCT/ES2022/070806)
[87] (WO2023/118630)
[30] ES (P202131193) 2021-12-22

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[13] A1
[51] **Int.Cl. C12Q 1/6813 (2018.01) C12Q 1/6869 (2018.01)**
[25] EN
[54] **NEXT-GENERATION SEQUENCING FOR PROTEIN MEASUREMENT**
[54] **SEQUENCAGE NOUVELLE GENERATION POUR LA MESURE DES PROTEINES**
[72] ZICHI, DOM, US
[72] WEISS, ALLISON, US
[72] SEGHETTI, DAVID, US
[72] JENKO, KATHRYN, US
[71] SOMALOGIC OPERATING CO., INC., US
[85] 2024-06-19
[86] 2022-12-29 (PCT/US2022/082594)
[87] (WO2023/130049)
[30] US (63/294,964) 2021-12-30

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[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) C12N 5/077 (2010.01) C12N 9/12 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **SCALING UP MYOGENIC TISSUE: LATE PASSAGE MYOGENICITY**
[54] **MISE A L'ECHELLE DE TISSU MYOGENIQUE : MYOGENICITE A PASSAGE TARDIF**
[72] HWANG, ARA, US
[72] DAMBOURNET, DAPHNE, US
[72] VALENZUELA, RACHEL, US
[72] SIERRA, ROBERT ANTHONY, US
[71] UPSIDE FOODS, INC., US
[85] 2024-06-19
[86] 2022-12-21 (PCT/US2022/082175)
[87] (WO2023/122688)
[30] US (63/293,578) 2021-12-23

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[51] **Int.Cl. C01B 32/15 (2017.01) C09C 1/48 (2006.01)**
[25] EN
[54] **CARBON-BASED NANOMATERIAL COMPOSITION AND METHOD OF FORMING THE SAME FROM A GAS MIXTURE THAT INCLUDES ACETYLENE GAS AND METHANE GAS**
[54] **COMPOSITION DE NANOMATERIAU A BASE DE CARBONE ET SON PROCEDE DE FORMATION A PARTIR D'UN MELANGE GAZEUX QUI COMPREND DE L'ACETYLENE GAZEUX ET DU METHANE GAZEUX**
[72] JOHNSON, EVAN, US
[72] YOLLIN, PAUL, US
[72] COOK, DYLAN, US
[71] NABORS ENERGY TRANSITION SOLUTIONS LLC, US
[85] 2024-06-19
[86] 2022-12-21 (PCT/US2022/082134)
[87] (WO2023/122660)
[30] US (63/292,599) 2021-12-22
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[13] A1
[51] **Int.Cl. F23N 5/12 (2006.01) F23N 1/00 (2006.01) F23N 5/24 (2006.01) F24B 1/187 (2006.01)**
[25] EN
[54] **GAS-BURNING FIRE INSTALLATION WITH AN IGNITER CONTROL SYSTEM**
[54] **INSTALLATION DE FEU A COMBUSTION DE GAZ DOTEE DE SYSTEME DE COMMANDE D'ALLUMEUR**
[72] WILSON, AIDEN, US
[71] TRAVIS INDUSTRIES, INC., US
[85] 2024-06-19
[86] 2023-02-03 (PCT/US2023/012308)
[87] (WO2023/150292)
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[13] A1
[51] **Int.Cl. H01M 4/525 (2010.01) H01M 4/505 (2010.01) H01M 4/02 (2006.01) H01M 4/36 (2006.01) H01M 10/54 (2006.01)**
[25] EN
[54] **RECYCLED POSITIVE ELECTRODE ACTIVE MATERIAL, METHOD OF RECYCLING POSITIVE ELECTRODE ACTIVE MATERIAL, AND SECONDARY BATTERY INCLUDING RECYCLED POSITIVE ELECTRODE ACTIVE MATERIAL**
[54] **MATERIAU ACTIF DE CATHODE RECYCLE, PROCEDE DE RECYCLAGE DE MATERIAU ACTIF DE CATHODE, ET BATTERIE SECONDAIRE LE COMPRENANT**
[72] CHOI, JEONG MI, KR
[72] YANG, DOO KYUNG, KR
[72] KIM, MIN SEO, KR
[72] SEONG, EUNKYU, KR
[72] KIM, YEON JUN, KR
[72] YU, HYEMIN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-05-29
[86] 2023-06-26 (PCT/KR2023/008812)
[87] (WO2024/010263)
[30] KR (10-2022-0082984) 2022-07-06
[30] KR (10-2022-0082985) 2022-07-06
[30] KR (10-2023-0081265) 2023-06-23

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[13] A1
[51] **Int.Cl. G21F 9/00 (2006.01)**
[25] EN
[54] **SYSTEMIC DECONTAMINATION METHOD OF HEAVY WATER REACTOR**
[54] **PROCEDE DE DECONTAMINATION SYSTEMIQUE DE REACTEUR A EAU LOURDE**
[72] KIM, CHO RONG, KR
[72] KIM, HAK SOO, KR
[72] KIM, JEONG JU, KR
[71] KOREA HYDRO & NUCLEAR POWER CO., LTD., KR
[85] 2024-06-04
[86] 2023-01-05 (PCT/KR2023/000203)
[87] (WO2023/136544)
[30] KR (10-2022-0006014) 2022-01-14

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[13] A1
[51] **Int.Cl. C21B 13/00 (2006.01)**
[25] EN
[54] **A METHOD FOR PRODUCING IRON FUEL**
[54] **PROCEDE DE PRODUCTION DE CARBURANT A BASE DE FER.**
[72] SCHEEPERS, LEX, NL
[72] VERHAGEN, MARCUS WILHELMUS PETRUS, NL
[71] RENEWABLE IRON FUEL TECHNOLOGY B.V., NL
[85] 2024-06-04
[86] 2022-12-23 (PCT/NL2022/050757)
[87] (WO2023/121465)
[30] NL (2030295) 2021-12-24

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[51] **Int.Cl. H04R 1/10 (2006.01) A61B 5/055 (2006.01) B81B 3/00 (2006.01) H04R 5/033 (2006.01)**
[25] EN
[54] **AUDIO SYSTEM FOR MRI**
[54] **SYSTEME AUDIO POUR IRM**
[72] BIRKELAND, OLAV, NO
[72] KALVENES, NIKOLAI, NO
[71] NORDICNEUROLAB AS, NO
[85] 2024-06-04
[86] 2022-10-26 (PCT/NO2022/050245)
[87] (WO2023/106924)
[30] NO (20211478) 2021-12-08

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[13] A1
[51] **Int.Cl. B65B 31/02 (2006.01) B65B 1/26 (2006.01) B65B 7/02 (2006.01) B65B 25/00 (2006.01) B65B 25/06 (2006.01) B65B 25/22 (2006.01) B65B 51/10 (2006.01) B65B 59/02 (2006.01) B65B 61/02 (2006.01) B65G 29/00 (2006.01) G05B 15/02 (2006.01) G05B 19/045 (2006.01) G05B 19/06 (2006.01)**
[25] EN
[54] **PROGRAMMABLE ROTARY VACUUM PACKING MACHINE**
[54] **MACHINE D'EMBALLAGE SOUS VIDE ROTATIVE PROGRAMMABLE**
[72] SORNIKOV, ALEKSANDR, YAKOVLEVICH, NZ
[71] AMCOR FLEXIBLES NORTH AMERICA, INC., US
[85] 2024-06-04
[86] 2022-12-13 (PCT/NZ2022/050166)
[87] (WO2023/113619)
[30] NZ (783434) 2021-12-13

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[51] **Int.Cl. F24S 23/30 (2018.01) F24S 10/70 (2018.01) F03D 9/00 (2016.01)**
[25] EN
[54] **SOLAR OPTICAL COLLECTION SYSTEM**
[54] **SYSTEME DE COLLECTE SOLAIRE OPTIQUE**
[72] NEWMAN, STEPHEN D., SG
[72] NEWMAN, DAVID L., AU
[71] NEWMAN, STEPHEN D., SG
[71] NEWMAN, DAVID L., AU
[85] 2024-06-04
[86] 2021-12-23 (PCT/SG2021/050823)
[87] (WO2022/139688)
[30] US (63/130,187) 2020-12-23

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[13] A1
[51] **Int.Cl. A61K 38/10 (2006.01) A61K 31/4178 (2006.01) A61P 35/04 (2006.01) A61K 38/08 (2019.01)**
[25] EN
[54] **MEDICINAL USES OF OLIGOPEPTIDES IN COMBINATION WITH AN ANTIANDROGEN**
[54] **UTILISATIONS MEDICINALES D'OLIGOPEPTIDES EN COMBINAISON AVEC UN ANTIANDROGENE**
[72] FRAMROZE, BOMI, US
[71] HBC IMMUNOLOGY INC., US
[85] 2024-06-04
[86] 2023-02-03 (PCT/US2023/061992)
[87] (WO2023/150720)
[30] US (63/306,979) 2022-02-04

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[51] **Int.Cl. C08G 63/181 (2006.01) C08G 63/183 (2006.01) C08G 63/85 (2006.01) C08G 63/87 (2006.01)**
[25] EN
[54] **ALIPHATIC-AROMATIC POLYESTERS WITH A CONTROLLED CONTENT OF MIXED RESIDUAL CYCLIC OLIGOMERS**
[54] **POLYESTERS ALIPHATIQUES-AROMATIQUES A TENEUR CONTROLEE EN OLIGOMERES CYCLIQUES RESIDUELS MIXTES**
[72] BASTIOLI, CATIA, IT
[72] GESTI GARCIA, SEBASTIA, IT
[72] VALLERO, ROBERTO, IT
[71] NOVAMONT S.P.A., IT
[85] 2024-06-05
[86] 2022-12-06 (PCT/EP2022/084498)
[87] (WO2023/104757)
[30] IT (102021000030725) 2021-12-06

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[51] **Int.Cl. G01B 17/02 (2006.01) B65G 11/20 (2006.01) B65G 43/02 (2006.01) G01B 7/06 (2006.01) G01B 17/04 (2006.01) G01D 11/24 (2006.01) G01L 1/16 (2006.01) G01N 29/22 (2006.01)**
[25] EN
[54] **WEAR SENSOR**
[54] **CAPTEUR D'USURE**
[72] KAMARAS, CON, AU
[71] K F GROUP PTY LTD, AU
[85] 2024-06-05
[86] 2022-12-14 (PCT/AU2022/051508)
[87] (WO2023/108216)
[30] AU (2021904075) 2021-12-15

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[51] **Int.Cl. G01N 21/64 (2006.01) G01N 21/31 (2006.01) G01N 21/47 (2006.01) G01N 21/55 (2014.01) G01N 21/85 (2006.01) G01N 21/359 (2014.01) G01N 21/84 (2006.01)**
[25] EN
[54] **MATERIAL IDENTIFICATION APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE D'IDENTIFICATION DE MATERIAU**
[72] BALTHASAR, DIRK, DE
[71] TOMRA SORTING GMBH, DE
[85] 2024-06-05
[86] 2022-12-06 (PCT/EP2022/084665)
[87] (WO2023/104832)
[30] EP (21212903.5) 2021-12-07

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[13] A1
[51] **Int.Cl. G01B 17/02 (2006.01) B65G 11/16 (2006.01) B65G 11/20 (2006.01) G01B 7/02 (2006.01)**
[25] EN
[54] **WEAR SENSOR**
[54] **CAPTEUR D'USURE**
[72] KAMARAS, CON, AU
[71] K F GROUP PTY LTD, AU
[85] 2024-06-05
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[13] A1
[51] **Int.Cl. A01H 1/02 (2006.01) A01H 6/20 (2018.01) A01H 4/00 (2006.01) A01H 5/10 (2018.01)**
[25] EN
[54] **METHOD TO INCREASE POLLEN FERTILITY**
[54] **PROCEDE D'AUGMENTATION DE LA FERTILITE DU POLLEN**
[72] CARRENO-QUINTERO, NATALIA, NL
[72] RADOEVA, TATYANA MITKOVA, NL
[72] HOFSTEDE, RENE JOHANNES MARIA, NL
[71] KEYGENE N.V., NL
[85] 2024-06-05
[86] 2022-12-09 (PCT/EP2022/085101)
[87] (WO2023/105017)
[30] EP (21213796.2) 2021-12-10

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[13] A1
[51] **Int.Cl. G10L 19/008 (2013.01) H04S 7/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PROCESSING OF AUDIO DATA**
[54] **PROCEDE ET APPAREIL POUR TRAITER DES DONNEES AUDIO**
[72] FERSCH, CHRISTOF, NL
[71] DOLBY INTERNATIONAL AB, IE
[85] 2024-06-05
[86] 2022-08-24 (PCT/EP2022/073628)
[87] (WO2023/104360)
[30] US (63/287,029) 2021-12-07
[30] US (63/290,493) 2021-12-16

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[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) G01N 15/04 (2006.01)**
[25] EN
[54] **REACTION VESSEL UNIT, METHOD FOR SELECTIVELY REMOVING A LIQUID AND FOR INTRODUCING A LIQUID CONTAINING A TARGET SUBSTANCE FROM OR INTO A REACTION VESSEL OF A REACTION VESSEL UNIT**
[54] **UNITE DE CUVE A REACTION, ET PROCEDES DE RETRAIT SELECTIF D'UN LIQUIDE CONTENU DANS UNE CUVE A REACTION D'UNE UNITE DE CUVE A REACTION, ET D'INTRODUCTION D'UN LIQUIDE CONTENANT UNE SUBSTANCE CIBLE DANS CELLE-CI**
[72] FEIST, FRANK, US
[72] MANN, WOLFGANG, DE
[72] MANN, KONSTANTIN, DE
[71] BLUECAT SOLUTIONS GMBH, DE
[85] 2024-06-05
[86] 2022-12-13 (PCT/EP2022/085722)
[87] (WO2023/110944)
[30] DE (10 2021 006 144.6) 2021-12-13

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[51] **Int.Cl. C12P 21/02 (2006.01) A61K 38/57 (2006.01) A61P 11/00 (2006.01) A61P 11/08 (2006.01) C07K 14/81 (2006.01)**
[25] EN
[54] **ALPHA-1 ANTITRYPSIN PRODUCED FROM YEAST FOR USE IN THE TREATMENT OF VIRAL INFECTIONS**
[54] **ALPHA 1-ANTITRYPSINE ISSUE DE LEVURE POUR UTILISATION DANS LE TRAITEMENT D'INFECTIONS VIRALES**
[72] STANGL, MANFRED, DE
[71] AATEC MEDICAL GMBH, DE
[85] 2024-06-05
[86] 2022-12-22 (PCT/EP2022/087461)
[87] (WO2023/118424)
[30] EP (21216836.3) 2021-12-22
[30] EP (22166483.2) 2022-04-04

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[51] **Int.Cl. A23D 9/02 (2006.01) A23D 9/04 (2006.01) C11B 3/00 (2006.01) C12N 9/18 (2006.01)**
[25] EN
[54] **PROCESS FOR ENZYMATIC OIL DEGUMMING INVOLVING PHOSPHOLIPASE A2**
[54] **PROCEDE DE DEMUCILAGINATION ENZYMATIQUE D'HUILE FAISANT INTERVENIR LA PHOSPHOLIPASE A2**
[72] ZHA, YING, NL
[72] GUILONARD, LAMBERTUS JACOBUS OTTO, NL
[72] ILTCHENKO, NIKITA ALEXEIVICH, NL
[72] QIU, WEIXI, NL
[71] DSM IP ASSETS B.V., NL
[85] 2024-06-05
[86] 2022-12-22 (PCT/EP2022/087453)
[87] (WO2023/126302)
[30] EP (22150061.4) 2022-01-03

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[13] A1
[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORM OF N-(2-CHLORO-3-((5-CHLORO-3-METHYL-4-OXO-3,4-DIHYDROQUINAZOLIN-6-YL)AMINO)-4-FLUOROPHENYL)-3-FLUOROAZETIDINE-1-SULFONAMIDE**
[54] **FORME CRISTALLINE DE N-(2-CHLORO-3-((5-CHLORO-3-METHYL-4-OXO-3,4-DIHYDROQUINAZOLIN-6-YLE)AMINO)-4-FLUOROPHENYL)-3-FLUOROAZETIDINE-1-SULFONAMIDE**
[72] COWDREY, CONNOR JAMES, US
[71] ARRAY BIOPHARMA INC., US
[85] 2024-06-05
[86] 2022-12-02 (PCT/IB2022/061716)
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[30] US (63/393,043) 2022-07-28
[30] US (63/287,127) 2021-12-08

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[13] A1
[51] **Int.Cl. B32B 25/08 (2006.01) B32B 25/16 (2006.01) B32B 27/08 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01)**
[25] EN
[54] **DECORATIVE FILM**
[54] **FILM DECORATIF**
[72] HANNIG, HANS-JURGEN, DE
[72] HULLENKREMER, FELIX, DE
[71] AKZENTA PANEELE + PROFILE GMBH, DE
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[86] 2022-12-23 (PCT/EP2022/087760)
[87] (WO2023/118578)
[30] EP (21217464.3) 2021-12-23

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[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/167 (2006.01)**
[25] EN
[54] **A STABLE EXTENDED RELEASE PHARMACEUTICAL COMPOSITION OF CLOZAPINE**
[54] **COMPOSITION PHARMACEUTIQUE STABLE A LIBERATION PROLONGEE DE CLOZAPINE**
[72] PATEL, RIKIN, IN
[72] PANDYA, KAVAN, IN
[72] KANSAGRA, PIYUSH, IN
[72] DHAVALE, SATYAVAN, IN
[72] SEHGAL, ASHISH, IN
[71] INTAS PHARMACEUTICALS LTD., IN
[85] 2024-06-05
[86] 2022-12-14 (PCT/IB2022/062183)
[87] (WO2023/111877)
[30] IN (202121058299) 2021-12-15

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[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/167 (2006.01)**
[25] EN
[54] **AN EXTENDED RELEASE PHARMACEUTICAL COMPOSITION OF CLOZAPINE**
[54] **COMPOSITION PHARMACEUTIQUE A LIBERATION PROLONGEE DE CLOZAPINE**
[72] PATEL, RIKIN, IN
[72] PANDYA, KAVAN, IN
[72] KANSAGRA, PIYUSH, IN
[72] DHAVALE, SATYAVAN, IN
[72] SEHGAL, ASHISH, IN
[71] INTAS PHARMACEUTICALS LTD., IN
[85] 2024-06-05
[86] 2022-12-14 (PCT/IB2022/062190)
[87] (WO2023/111880)
[30] IN (202121058300) 2021-12-15

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[51] **Int.Cl. G21C 3/32 (2006.01) G21C 11/06 (2006.01)**
[25] EN
[54] **SMALL MODULAR REACTOR INCLUDING SMALL FUEL ASSEMBLIES**
[54] **REACTEUR MODULAIRE DE PETITE TAILLE COMPRENANT DES ASSEMBLAGES COMBUSTIBLES DE PETITE TAILLE**
[72] LEE, EUN KI, KR
[72] JO, YU GWON, KR
[71] KOREA HYDRO & NUCLEAR POWER CO., LTD., KR
[85] 2024-06-05
[86] 2023-01-05 (PCT/KR2023/000217)
[87] (WO2023/167404)
[30] KR (10-2022-0026645) 2022-03-02

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[13] A1
[51] **Int.Cl. E04F 15/10 (2006.01) B32B 27/04 (2006.01) B32B 27/06 (2006.01)**
[25] EN
[54] **A METHOD TO PRODUCE A PANEL AND SUCH A PANEL**
[54] **PROCEDE DE PRODUCTION D'UN PANNEAU ET UN TEL PANNEAU**
[72] GAMSTEDT, PONTUS, SE
[72] NILSSON, CHRISTOFFER, SE
[72] JOSEFSSON, PER, SE
[71] VALINGE INNOVATION AB, SE
[85] 2024-06-05
[86] 2022-12-09 (PCT/SE2022/051165)
[87] (WO2023/106994)
[30] SE (2151507-7) 2021-12-10
[30] SE (2151506-9) 2021-12-10

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[51] **Int.Cl. F16G 13/16 (2006.01)**
[25] EN
[54] **ENERGY CHAIN HAVING PLAIN BEARING RINGS**
[54] **CHAINE ENERGETIQUE DOTEE DE BAGUES DE PALIER LISSE**
[72] HERMEY, ANDREAS, DE
[72] STEEGER, RALF, DE
[71] IGUS GMBH, DE
[85] 2024-06-05
[86] 2022-06-16 (PCT/IB2022/000335)
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[51] **Int.Cl. A61L 9/01 (2006.01) A61L 9/14 (2006.01)**
[25] EN
[54] **CHEMICAL COMPOSITION AND METHOD OF USING AN ANTIMICROBIAL ODOR CONTROL ADDITIVE FOR PET LITTERS**
[54] **COMPOSITION CHIMIQUE ET PROCEDE D'UTILISATION D'UN ADDITIF ANTIMICROBIEN DE LUTTE CONTRE LES ODEURS POUR LITIERES POUR ANIMAUX DE COMPAGNIE**
[72] HA, MAI LE PHUONG, US
[72] ONG, IVAN WEI KANG, US
[71] MICROBAN PRODUCTS COMPANY, US
[85] 2024-06-05
[86] 2022-12-02 (PCT/US2022/051643)
[87] (WO2023/102179)
[30] US (63/286,064) 2021-12-05
[30] US (18/072,960) 2022-12-01

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[51] **Int.Cl. B23K 26/24 (2014.01) B23K 26/322 (2014.01) B23K 26/26 (2014.01) B23K 26/40 (2014.01)**
[25] EN
[54] **METHOD FOR BUTT-WELDING A STEEL PART AND ASSOCIATED STEEL PART**
[54] **PROCEDE DE SOUDAGE BOUT A BOUT D'UNE PIECE EN ACIER ET PIECE EN ACIER ASSOCIEE**
[72] VIAUX, IVAN, FR
[72] GAIED, SADOK, FR
[72] CANOURGUES, JEAN-FRANCOIS, FR
[72] ROUSSILLON, SYLVIE, FR
[71] ARCELORMITTAL, LU
[85] 2024-06-05
[86] 2022-11-16 (PCT/IB2022/061032)
[87] (WO2023/042188)
[30] IB (PCT/IB2021/061826) 2021-12-16

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[13] A1
[51] **Int.Cl. F17C 13/04 (2006.01)**
[25] EN
[54] **ON TANK MANIFOLD VALVE ASSEMBLY**
[54] **ENSEMBLE SOUPAPE DE COLLECTEUR DE RESERVOIR**
[72] CASHATT, MYRNA E., US
[72] OSECKI, BLAKE, US
[71] LINAMAR CORPORATION, CA
[85] 2024-06-05
[86] 2021-12-06 (PCT/US2021/062083)
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[51] **Int.Cl. H04L 9/40 (2022.01) G06N 20/00 (2019.01)**
[25] EN
[54] **CYBERSECURITY STRATEGY ANALYSIS MATRIX**
[54] **MATRICE D'ANALYSE DE STRATEGIE DE CYBERSECURITE**
[72] JACKSON, KEVIN, US
[71] LEVEL 6 HOLDINGS, INC., US
[85] 2024-06-05
[86] 2022-12-06 (PCT/US2022/051943)
[87] (WO2023/107438)
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[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/435 (2006.01) A61K 31/4375 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 491/052 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **PARP1 INHIBITORS**
[54] **INHIBITEURS DE PARP1**
[72] PAN, JUN, US
[72] BAI, YU, US
[72] ZHENG, HEWEN, US
[72] LI, YU, US
[72] YANG, JEFFREY, US
[72] WU, LIANGXING, US
[72] YAO, WENQING, US
[71] SYNNOVATION THERAPEUTICS, INC., US
[85] 2024-06-05
[86] 2022-12-21 (PCT/US2022/053591)
[87] (WO2023/122140)
[30] US (63/292,903) 2021-12-22
[30] US (63/327,228) 2022-04-04
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[13] A1
[51] **Int.Cl. C07K 5/02 (2006.01) A61K 47/68 (2017.01) C07K 7/02 (2006.01)**
[25] EN
[54] **NOVEL AURISTATIN ANALOGS AND IMMUNOCONJUGATES THEREOF**
[54] **NOUVEAUX ANALOGUES D'AURISTATINE ET IMMUNOCONJUGUES S'Y RAPPORTANT**
[72] LI, RICHARD HUI, US
[72] LEE, DONG JUN, US
[71] ADCENTRX THERAPEUTICS INC., US
[85] 2024-06-05
[86] 2022-12-21 (PCT/US2022/053738)
[87] (WO2023/122228)
[30] US (63/293,583) 2021-12-23

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[51] **Int.Cl. H01L 21/02 (2006.01) H01L 21/20 (2006.01) C23C 14/34 (2006.01) C30B 25/00 (2006.01) H01L 21/67 (2006.01)**
[25] EN
[54] **REACTIVE GAS MODULATION FOR GROUP III/IV COMPOUND DEPOSITION SYSTEMS**
[54] **MODULATION DE GAZ REACTIF POUR DES SYSTEMES DE DEPOT DE COMPOSES DES GROUPES III/IV**
[72] JORGENSON, ROBBIE J., US
[71] JORGENSON, ROBBIE J., US
[85] 2024-06-05
[86] 2022-12-06 (PCT/US2022/051978)
[87] (WO2023/081540)
[30] US (17/543,296) 2021-12-06

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[51] **Int.Cl. A61K 31/17 (2006.01) A61K 31/5377 (2006.01) A61K 45/06 (2006.01) A61P 7/00 (2006.01) A61P 7/06 (2006.01)**
[25] EN
[54] **METHODS OF ADMINISTERING A MODULATOR OF HEMOGLOBIN**
[54] **METHODES D'ADMINISTRATION D'UN MODULATEUR D'HEMOGLOBINE**
[72] BARTH, ALINE, US
[72] DUCHIN, KEN, US
[72] WASHINGTON, CARLA B., US
[72] LO, ARTHUR, US
[71] GLOBAL BLOOD THERAPEUTICS, INC., US
[85] 2024-06-05
[86] 2022-12-09 (PCT/US2022/052411)
[87] (WO2023/107697)
[30] US (63/288,377) 2021-12-10
[30] US (63/421,524) 2022-11-01
[30] US (63/429,376) 2022-12-01

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[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/10 (2006.01) A61K 9/16 (2006.01) A61K 47/26 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **LEVONORGESTREL BUTANOATE FORMULATION AND METHODS RELATING THERETO**
[54] **FORMULATION DE BUTANOATE DE LEVONORGESTREL ET METHODES ASSOCIEES**
[72] LEE, MIN, US
[72] BLITHE, DIANA, US
[72] FANG, JIA-HWA, US
[72] RUIZ, EDUARDO, US
[72] CHEN, KEN, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[71] SRI INTERNATIONAL, US
[85] 2024-06-05
[86] 2022-12-13 (PCT/US2022/052704)
[87] (WO2023/114205)
[30] US (63/289,965) 2021-12-15

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[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/26 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTI-MUTANT CALRETICULIN (CALR) ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-CALRETICULINE (CALR) MUTANTS ET LEURS UTILISATIONS**
[72] MAYES, PATRICK, US
[72] NASTRI, HORACIO G., US
[72] BUONPANE, REBECCA A., US
[72] REIS, EDIMARA S., US
[72] STEWART, SHAUN M., US
[72] ZHOU, JING, US
[72] DELLER, MARC C., US
[72] LEI, HSIANG-TING, US
[72] MCQUIRTER, LESLIE BROOKE EPLING, US
[72] ZHAO, YONGHONG, US
[72] CELIK, HAMZA, US
[72] WASS, BRITTNEY MELISSA, US
[71] INCYTE CORPORATION, US
[85] 2024-06-05
[86] 2022-12-07 (PCT/US2022/081076)
[87] (WO2023/107994)
[30] US (63/287,394) 2021-12-08
[30] US (63/288,479) 2021-12-10
[30] US (63/421,052) 2022-10-31

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[51] **Int.Cl. A23B 4/027 (2006.01) A23L 13/30 (2016.01) A23L 27/10 (2016.01) A23L 27/40 (2016.01) A23L 13/75 (2023.01) A23B 4/28 (2006.01)**
[25] EN
[54] **BRINE WITHOUT PHOSPHATES AND EITHER SALT FREE OR LOW SALT**
[54] **SAUMURE SANS PHOSPHATES ET SANS SEL OU CONTENANT PEU DE SEL**
[72] HUNT, DALE R., US
[72] FIELDING, WILLIAM R., US
[72] CROPP, MICHAEL, US
[71] KEMIN PROTEINS, LLC, US
[85] 2024-06-05
[86] 2022-12-13 (PCT/US2022/081466)
[87] (WO2023/114780)
[30] US (63/265,337) 2021-12-13

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[25] EN
[54] **MEDICAL FLUID COMPOUNDING SYSTEMS WITH COORDINATED FLOW CONTROL**
[54] **SYSTEMES DE MELANGE DE FLUIDES MEDICAUX A COMMANDE D'ECOULEMENT COORDONNEE**
[72] FISTER, PHILIPP MARC, US
[71] ICU MEDICAL, INC., US
[85] 2024-06-05
[86] 2022-12-07 (PCT/US2022/081123)
[87] (WO2023/108030)
[30] US (63/288,491) 2021-12-10

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[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61P 13/12 (2006.01)**
[25] EN
[54] **TREATMENT OF KIDNEY DISEASES WITH ANGIOPOIETIN LIKE 3 (ANGPTL3) INHIBITORS**
[54] **TRAITEMENT DE MALADIES RENALES AVEC INHIBITEURS DE L'ANGIOPOIETINE DE TYPE 3 (ANGPTL3)**
[72] HAAS, MARY E., US
[72] LOTTA, LUCA ANDREA, US
[72] BARAS, ARIS, US
[72] FERREIRA, MANUEL ALLEN REVEZ, US
[72] DEVALARAJA-NARASHIMHA, KISHOR, US
[72] MORTON, LORI, US
[72] SUN, LUANLUAN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-06-05
[86] 2022-12-21 (PCT/US2022/082128)
[87] (WO2023/122656)
[30] US (63/292,581) 2021-12-22
[30] US (63/340,254) 2022-05-10

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[13] A1
[51] **Int.Cl. A01N 31/00 (2006.01) A61K 8/34 (2006.01) A61K 31/74 (2006.01) A61Q 17/00 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MICROBIAL CONTROL IN POLYMERS**
[54] **COMPOSITIONS ET PROCEDES DE LUTTE ANTIMICROBIENNE DANS DES POLYMERES**
[72] HA, MAI LE PHUONG, US
[71] MICROBAN PRODUCTS COMPANY, US
[85] 2024-06-05
[86] 2023-05-03 (PCT/US2023/020786)
[87] (WO2023/229810)
[30] US (63/345,148) 2022-05-24

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[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) G01N 21/76 (2006.01)**
[25] EN
[54] **ELECTROCHEMICAL CELL DEVICES AND METHODS OF MANUFACTURING**
[54] **DISPOSITIFS A CELLULES ELECTROCHIMIQUES ET LEURS PROCEDES DE FABRICATION**
[72] DOWDELL, SCOTT, US
[72] CARBONE, NICHOLAS, US
[72] CLINTON, CHARLES, US
[72] BILLADEAU, MARK, US
[72] KOCHAR, MANISH, US
[72] FOX-LYON, NICHOLAS, US
[72] TUCKER-SCHWARTZ, ALEXANDER, US
[72] SIGAL, GEORGE, US
[72] SPIELES, GISBERT, US
[72] VANDERSARL, JULES, US
[72] WOHLSTADTER, JACOB N., US
[72] LEIMKUEHLER, AARON, US
[72] PETTINGILL, JEFFREY, US
[72] TABAKIN, LEO, US
[72] JEFFREY-COKER, BANDELE, US
[71] MESO SCALE TECHNOLOGIES, LLC., US
[85] 2024-06-05
[86] 2023-01-03 (PCT/US2023/060043)
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[13] A1
[51] **Int.Cl. G03B 25/02 (2006.01) H04N 13/312 (2018.01) H04N 13/351 (2018.01) B41F 1/00 (2006.01) B41N 99/00 (2006.01) B42D 1/00 (2006.01) F21V 8/00 (2006.01) G02B 6/122 (2006.01) G09F 19/14 (2006.01)**
[25] EN
[54] **ANIMATED PERFORATED IMAGES**
[54] **IMAGES PERFOREES ANIMEES**
[72] MOYES, PHIL, AU
[71] METRIX GROUP PTY LTD, AU
[85] 2024-06-06
[86] 2023-01-11 (PCT/AU2023/050011)
[87] (WO2023/137514)
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[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **POLYPEPTIDE MODULATORS**
[54] **MODULATEURS POLYPEPTIDIQUES**
[72] KHLEIF, SAMIR, US
[72] MKRTICHYAN, MIKAYEL, US
[71] GEORGIAMUNE INC., US
[85] 2024-06-05
[86] 2022-12-08 (PCT/US2022/081186)
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[30] US (63/288,330) 2021-12-10

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[13] A1
[51] **Int.Cl. A61K 8/31 (2006.01) A61K 8/49 (2006.01) A61K 8/73 (2006.01) A61Q 17/04 (2006.01)**
[25] EN
[54] **IMPROVE THE WATER RESISTANCE OF COSMETIC COMPOSITIONS COMPRISING ENSULIZOLE**
[54] **AMELIORATION DE LA RESISTANCE A L'EAU DE COMPOSITIONS COSMETIQUES COMPRENANT DE L'ENSULIZOLE**
[72] DESHAYES, CYRILLE, CH
[72] MENDROK-EDINGER, CHRISTINE, CH
[71] DSM IP ASSETS B.V., NL
[85] 2024-06-06
[86] 2022-12-07 (PCT/EP2022/084709)
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[30] EP (21213232.8) 2021-12-08

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[13] A1
[51] **Int.Cl. A01K 67/027 (2024.01) C07K 14/435 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **TRANSGENIC FLUORESCENT ORNAMENTAL AMPHIBIANS**
[54] **AMPHIBIENS ORNEMENTAUX FLUORESCENTS TRANSGENIQUES**
[72] TESTA, STEPHANIE, US
[71] FIREFROGS, INC., US
[85] 2024-06-20
[86] 2022-12-23 (PCT/US2022/053913)
[87] (WO2023/122321)
[30] US (63/293,291) 2021-12-23
[30] US (18/085,601) 2022-12-21

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[13] A1
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[25] EN
[54] **BIOMARKERS FOR DIAGNOSING PREECLAMPSIA**
[54] **BIOMARQUEURS POUR DIAGNOSTIQUER LA PREECLAMPSIE**
[72] HUANG, HECTOR HAN-LI, US
[72] RAMACHANDRAN, PRASANNA, US
[72] LIN, CHI-HUNG, US
[71] VENN BIOSCIENCES CORPORATION, US
[85] 2024-06-20
[86] 2023-01-31 (PCT/US2023/061692)
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[30] US (63/305,242) 2022-01-31
[30] US (63/326,163) 2022-03-31

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[13] A1
[51] **Int.Cl. H01H 13/705 (2006.01) H01H 13/10 (2006.01)**
[25] EN
[54] **KEY STRUCTURE FOR KEYBOARD**
[54] **STRUCTURE DE TOUCHE POUR CLAVIER**
[72] WANG, WEI CHUAN, US
[71] VOYETRA TURTLE BEACH, INC., US
[85] 2024-06-20
[86] 2022-12-14 (PCT/US2022/081544)
[87] (WO2023/122461)
[30] TW (110215324) 2021-12-23
[30] CN (202123327954.8) 2021-12-28

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[51] **Int.Cl. A61K 8/19 (2006.01) A61K 8/25 (2006.01) A61K 8/27 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS POUR SOINS BUCCODENTAIRES ET METHODES D'UTILISATION**
[72] DENIS, JEAN, US
[72] D'AMBROGIO, ROBERT, US
[72] XU, GUOFENG, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2024-06-20
[86] 2022-12-30 (PCT/US2022/054328)
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[30] US (63/295,168) 2021-12-30

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[51] **Int.Cl. B23B 31/117 (2006.01) B23B 31/00 (2006.01)**
[25] EN
[54] **ASSEMBLY FOR MACHINING WORKPIECES**
[54] **ENSEMBLE POUR L'USINAGE DE PIECES**
[72] RODERS, JURGEN, DE
[71] P&L GMBH & CO. KG, DE
[85] 2024-06-06
[86] 2023-02-02 (PCT/EP2023/052497)
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[30] DE (10 2022 102 551.9) 2022-02-03

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[51] **Int.Cl. H04L 47/33 (2022.01) H04W 28/04 (2009.01) H04W 28/06 (2009.01)**
[25] EN
[54] **DATA UNIT PROCESSING**
[54] **TRAITEMENT D'UNITE DE DONNEES**
[72] CHUN, SUNGDUCK, US
[72] PARK, KYUNGMIN, US
[72] DINAN, ESMAEL HEJAZI, US
[72] TALEBI FARD, PEYMAN, US
[72] QIAO, WEIHUA, US
[71] OFINNO, LLC, US
[85] 2024-06-20
[86] 2023-01-20 (PCT/US2023/011252)
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[30] US (63/301,541) 2022-01-21

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[72] MEIERS, JOSCHA, DE
[72] DENIG, LISA MARIE, DE
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[54] **PROCEDE DE CREATION D'UN ESSAI CLINIQUE A DISTANCE AVEC UN MEDECIN LOCAL EXISTANT D'UN PATIENT**
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[72] PALMER, DANNELLE, US
[71] KAPADI, INC., US
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[72] KIRPOTIN, DMITRI B., US
[72] KOSHKARYEV, ALEXANDER, US
[72] NOBLE, CHARLES O., US
[72] DRUMMOND, DARYL C., US
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[72] SALMENKAITA, JUKKA-PEKKA, FI
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[54] **REGIME IMITANT LE JEUNE**
[72] LONGO, VALTER D., US
[72] HSU, WILLIAM, US
[72] ANTOUN, JOSEPH, US
[72] SCHIRANO, FABRIZIO, US
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[54] **SYSTEMES ET METHODES DE SUPPORTS DE FONDATION MODULAIRES COMPRENANT DES ARBRES A COUPLAGES IMBRIQUES, AUTOCENTREURS ET TRANSMETTEURS DE COUPLE**
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[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DU SANG**
[72] WILT, MICHAEL J., US
[72] VAN DER MERWE, DIRK A., US
[72] BALLANTYNE, TODD A., US
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[72] HARPER, RYAN, US
[72] LUBENSKY, SCOTT, US
[72] DANIELS, DAVID WAYNE, US
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[54] **SYSTEMES ET PROCEDES POUR EFFECTUER DES TESTS BIOLOGIQUES**
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[72] MYERS, FRANK B. III, US
[72] WALDEISEN, JOHN ROBERT, US
[72] DIMOV, IVAN KRASTEV, US
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[54] **ETABLISSEMENT DE RAPPORTS DE MESURES POUR PROCEDES ET SYSTEMES DE MAINTENANCE DE RESEAU**
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[72] DAI, BO, CN
[72] LU, TING, CN
[72] LIU, XU, CN
[71] ZTE CORPORATION, CN
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[54] **CONCEPTIONS POUR UNE FIABILITE ET ETALONNAGE AMELIORES DE DISPOSITIFS DE MESURE ET DE COMMANDE DE GAZ D'ENFOUISSEMENT**
[72] ALLO, NATHAN, US
[72] CAMPANELLA, ANDREW, US
[72] MARTIN, IAN, US
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[72] QUIGLEY, PETER, US
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[54] **SYSTEME ADAPTATIF DE CORRECTION ET DE NORMALISATION DE L'AUDITION AVEC REGLAGE AUTOMATIQUE**
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[72] WALLER, JON J., US
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[71] CONMED CORPORATION, US
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[54] **MODELE GASTRO-INTESTINAL IN VITRO COMPRENANT DES CELLULES DERIVEES DE LAMINA PROPRIA**
[72] KERNS, S. JORDAN, US
[72] OBRIGEWITCH, JENIFER, US
[72] SALMON, MICHAEL, US
[72] KASENDRA, MAGDALENA, US
[71] EMULATE, INC., US
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[54] **SYSTEMES ET METHODES DE MIROITAGE ET DE TRANSCODAGE D'UN CONTENU MEDIA**
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[54] **CONSTRICTION D'UN ANNEAU DE VALVE CARDIAQUE ET INSTALLATION D'UN ANNEAU SUR UN ANNEAU DE VALVE CARDIAQUE**
[72] ALON, DAVID, IL
[72] MELLER, NIMROD, IL
[72] NEUMARK, DAVID, IL
[72] BIRAN, RAZ, IL
[71] EDWARDS LIFESCIENCES CORPORATION, US
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[72] LAPLANTE, GUILLAUME, CA
[72] DANDURAND, JULES, CA
[72] LEVESQUE, ANDY, CA
[71] CAMSO INC., CA
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[54] **INSTALLATION AND METHOD FOR PRODUCING ACTIVATED IRRADIATION TARGETS IN AN INSTRUMENTATION TUBE SYSTEM OF A NUCLEAR REACTOR**
[54] **INSTALLATION ET PROCEDE DE FABRICATION DE CIBLES D'IRRADIATION ACTIVEES DANS UN SYSTEME DE TUBE D'INSTRUMENTATION D'UN REACTEUR NUCLEAIRE**
[72] RICHTER, THOMAS FABIAN, DE
[72] SYKORA, ALEXANDER, DE
[72] ZEHNDER, JULIA, DE
[72] ROSENBERGER, CHANTAL, DE
[72] KANWISCHER, WILFRIED, DE
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[54] **PNEUS A CORPS DE PNEU SEGMENTES, ELEMENTS DE MONTAGE INTEGRES ET CRAMPONS PARTIELLEMENT INTEGRES**
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[72] VECHINA, JOSE M., CA
[72] BITTNER, ERIC E., CA
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[72] GREEN, MICHAEL, US
[72] DYGERT, DOUGLAS MILES, US
[72] FUTRAL, DANIEL M., US
[71] RING CONTAINER TECHNOLOGIES LLC, US
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[72] HOARTY, MICHELLE DENISE, US
[72] DHAMNASKAR, KETKI ASHOK, US
[72] ELBAUM, DANIEL, US
[72] JOSEPHSON, KRISTOPHER, US
[72] LARSON, KELLEY CRONIN, US
[72] MA, ZHONG, US
[72] NIMS, NATHAN EZEKIEL, US
[72] RICARDO, ALONSO, US
[72] SEYB, KATHLEEN, US
[72] TANG, GUO-QING, US
[72] TRECO, DOUGLAS A., US
[72] WANG, ZHAOLIN, US
[72] YE, PING, US
[72] ZHENG, HONG, US
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[54] **FONCTION DE FIXATION DE CALANDRE POUR SYSTEME DE VENTILATION**
[72] MERGENER, BRADLEY, US
[72] SINUR, RICK, US
[72] REVERS, RYAN, US
[71] BROAN-NUTONE LLC, US
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[54] **TECHNIQUES FOR MANAGING RESOURCES FOR UPLINK TRANSMISSIONS IN A SHARED RADIO FREQUENCY SPECTRUM BAND**
[54] **TECHNIQUES DE GESTION DE RESSOURCES POUR DES TRANSMISSIONS EN LIAISON MONTANTE DANS UNE BANDE DE SPECTRE DE FREQUENCES RADIO PARTAGEES**
[72] CHEN, WANSHI, US
[72] DAMNJANOVIC, ALEKSANDAR, US
[72] MALLADI, DURGA PRASAD, US
[72] XU, HAO, US
[72] GAAL, PETER, US
[72] WEI, YONGBIN, US
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[71] QUALCOMM INCORPORATED, US
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[72] ELSNER, OLIVER, DE
[72] GANSEL, JULIA, DE
[72] SCHEUFLER, CHRISTIAN, DE
[72] WALZ, UWE, DE
[72] KLEE, JOACHIM, DE
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[72] VEIT, OLIVER, CA
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[54] **APPAREIL POUR SECURISER UN CYCLISTE A UNE BICYCLETTE**
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[71] EATON-MAX, INC., US
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[54] **CHAUFFAGE DE ZONE DE CIRCUITS RESPIRATOIRES**
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[72] SEEKUP, PETER ALAN, NZ
[72] NEWLAND, ANTHONY JAMES, NZ
[72] SMITH, MALCOM DAVID, NZ
[72] SI, PING, NZ
[72] OOSTHUYSEN, HELGARD, NZ
[72] WILSON, MATTHEW ROBERT, NZ
[72] KWAN, IAN LEE WAI, NZ
[72] ALNASHI, SINAA, NZ
[72] TONKIN, PAUL JAMES, NZ
[72] MCCOOL, KIEL ANTHONY, NZ
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[72] LIU, YANHUI, CN
[72] WANG, CHENLONG, CN
[71] 10353744 CANADA LTD., CA
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[62] 3,128,563
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[54] **DISPOSITIF STABILISATEUR ET LIMITATEUR DE REMORQUE**
[72] KIMENER, THOMAS TERRENCE, US
[71] STABILOCK, LLC, US
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[54] **SYSTEMES DE BARRIERE A L'AIR POUR CONFINEMENT DE ZONE DE CENTRE DE DONNEES**
[72] SCHMIDT, BLAINE, US
[72] GEBKE, KEVIN J., US
[72] KAUFMANN, NICHOLAS L., US
[72] SLOAN, PHILIP, US
[72] NIEHAUS, WILLAIM A., US
[71] RITE-HITE HOLDING CORPORATION, US
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