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Canada

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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
[48] - Correction Date (Re-Issued, Re-Examined)
[51] - International Classification
[52] - Domestic Classification
[54] - Title of Invention
[60] - Related by Supplementary Disclosure
[62] - Related by Division
[64] - Related by Reissue
[71] - Name(s) of Applicant(s)
[72] - Name(s) of Inventor(s)
[73] - Name(s) of Grantee(s)
[85] - National Entry Date
[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

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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.

Copyright

Droits d'auteur

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^MC^, ou par Xpresspost^MC^ 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.

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.

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.

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.

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

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.

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

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. 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 April 25, 2023 contains applications open to public inspection from April 9, 2023 to April 15, 2023.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 25 avril 2023 contient les demandes disponibles au public pour consultation pour la période du 9 avril 2023 au 15 avril 2023.

Canadian Patents Issued

April 25, 2023

Brevets canadiens délivrés

25 avril 2023

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[72] HUDSON, PETER JOHN, AU
[72] SANDERS, PAUL ROBERT, AU
[72] TAMVAKIS, DEBRA, AU
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[72] LEONG, DAVID, AU
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[72] HOLDEN, DANIAL, US
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[72] DOBSON, CLAIRE, GB
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[72] DOWNING, SEAN R., US
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[72] PINCHUK, LEONARD, US
[72] KALSER, GARY M., US
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[72] VARFAJ, FATBARDHA, US
[72] DING, SHENG, US
[72] SILVERMAN, JOSHUA, US
[72] WANG, CHIA-WEI, US
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[72] STEMMER, WILLEM P., US
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[54] **FACILITATING GENERATION OF AUTONOMOUS CONTROL INFORMATION**
[54] **FACILITATION DE LA GENERATION D'INFORMATION DE CONTROLE AUTONOME**
[72] GILDERT, SUZANNE, CA
[72] ROSE, GEORGE SAMUEL, CA
[72] TAYLOR, GRAHAM WILLIAM, CA
[72] BERGSTRA, JAMES, CA
[73] KINDRED SYSTEMS INC., CA
[86] (2882968)
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[54] **CHOPPER DISC AS WELL AS DEVICE AND METHOD FOR MANUFACTURING SAME**
[54] **DISQUE DE HACHEUR AINSI QUE DISPOSITIF ET PROCEDE DE FABRICATION ASSOCIES**
[72] SPIEGELHALDER, BERNO, DE
[72] KELLER, UWE, DE
[72] KAPPELER, ERNST, DE
[73] AIRBUS DEFENCE AND SPACE GMBH, DE
[86] (2886741)
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[22] 2015-03-31
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[54] **TERMINALLY MODIFIED RNA**
[54] **ARN MODIFIE A SON EXTREMITE TERMINALE**
[72] CHAKRABORTY, TIRTHA, US
[72] BANCEL, STEPHANE, US
[72] HOGE, STEPHEN G., US
[72] ROY, ATANU, US
[72] DE FOUGEROLLES, ANTONIN, US
[72] AFEYAN, NOUBAR B., US
[73] MODERNATX, INC., US
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[30] US (61/737,224) 2012-12-14
[30] US (61/758,921) 2013-01-31
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[30] US (61/829,372) 2013-05-31
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[51] **Int.Cl. F01D 5/14 (2006.01)**
[25] EN
[54] **AIRFOIL WITH STEPPED SPANWISE THICKNESS DISTRIBUTION**
[54] **PROFIL AERODYNAMIQUE COMPORTANT UNE DISTRIBUTION D'EPAISSEUR EN ENVERGURE ETAGEE**
[72] WARIKOO, RAMAN, CA
[72] BALIKE, KRISHNA PRASAD, CA
[72] LOBO, KEEGAN, CA
[72] DUONG, HIEN, CA
[72] VEITCH, THOMAS, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2893743)
[87] (2893743)
[22] 2015-06-03
[30] US (14/553,119) 2014-11-25

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[54] **METHODS AND SYSTEMS FOR PROCESSING POLYNUCLEOTIDES**
[54] **PROCEDES ET SYSTEMES POUR LE TRAITEMENT DE POLYNUCLEOTIDES**
[72] HINDSON, BENJAMIN, US
[72] SAXONOV, SERGE, US
[72] NESS, KEVIN, US
[72] HARDENBOL, PAUL, US
[73] 10X GENOMICS, INC., US
[85] 2015-06-10
[86] 2013-12-12 (PCT/US2013/074764)
[87] (WO2014/093676)
[30] US (61/737,374) 2012-12-14

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[51] **Int.Cl. A47C 4/02 (2006.01) A47C 1/02 (2006.01)**
[25] EN
[54] **NOVEL CAM ASSEMBLY UTILIZING 2 OR MORE INTERCONNECTED AND LOCKING PARTS FOR FURNITURE**
[54] **NOUVEL ENSEMBLE A CAMES UTILISANT AU MOINS DEUX PARTIES DE VERROUILLAGE INTERCONNECTEES POUR UN MEUBLE**
[72] GRIGGS, BILLY JOE, JR., US
[73] GRIGGS, BILLY JOE, JR., US
[85] 2015-07-29
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[54] **MULTI-CARTRIDGE FILTER ADAPTER AND INTERFACE SYSTEM AND METHOD**
[54] **ADAPTATEUR DE FILTRE MULTICARTOUCHE, ET DISPOSITIF D'INTERFACE ET METHODE**
[72] BARNWELL, JAMES W., US
[73] SPX FLOW TECHNOLOGY USA, INC., US
[86] (2899791)
[87] (2899791)
[22] 2015-08-04
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[25] EN
[54] **PURIFICATION OF IMMUNOGLOBULINS FROM PLASMA**
[54] **PURIFICATION D'IMMUNOGLOBULINES DU PLASMA**
[72] ALDINGER, ANNIKA, DE
[72] SCHWAEMMLE, ACHIM, DE
[72] JOEHNCK, MATTHIAS, DE
[72] MUELLER, DIRK, DE
[72] MAZUR, MARC, DE
[73] MERCK PATENT GMBH, DE
[86] (2900249)
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[51] **Int.Cl. H03G 5/00 (2006.01) H03G 5/16 (2006.01) H04R 3/04 (2006.01)**
[25] EN
[54] **EQUALIZATION FILTER COEFFICIENT DETERMINATOR, APPARATUS, EQUALIZATION FILTER COEFFICIENT PROCESSOR, SYSTEM AND METHODS**
[54] **DISPOSITIF DE DETERMINATION DE COEFFICIENT DE FILTRE D'EGALISATION, APPAREIL, PROCESSEUR DE COEFFICIENTS DE FILTRE D'EGALISATION, SYSTEME ET PROCEDES**
[72] FLEISCHMANN, FELIX, DE
[72] PLOGSTIES, JAN, DE
[72] NEUGEBAUER, BERNHARD, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
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[86] 2014-02-21 (PCT/EP2014/053480)
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[54] **ANTI-LAG-3 BINDING PROTEINS**
[54] **PROTEINES DE LIAISON ANTI-LAG-3**
[72] HAMBLIN, PAUL ANDREW, GB
[72] LEWIS, ALAN PETER, GB
[72] WEBB, THOMAS MATTHEW, GB
[73] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB
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[54] **NASAL CANNULA ASSEMBLIES AND RELATED PARTS**
[54] **ENSEMBLES CANULES NASALES ET PARTIES ASSOCIEES**
[72] O'CONNOR, MARK THOMAS, NZ
[72] KLENNER, JASON ALLAN, NZ
[72] ASSI, MILANJOT SINGH, NZ
[72] SPENCE, CALLUM JAMES THOMAS, NZ
[72] HOPKINS, CAROLINE GERALDINE, NZ
[72] DUTHIE, NEIL GRAY, NZ
[72] WHITE, CRAIG KARL, NZ
[72] EVANS, ALICIA JERRAM HUNTER, NZ
[72] LAING, BRENT IAN, NZ
[72] CLARKSON, SOOJI HOPE, NZ
[72] GULLIVER, LAURENCE, NZ
[73] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[85] 2015-09-03
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[54] **COMPOSITIONS AND METHODS FOR THE PRODUCTION AND DELIVERY OF RNA**
[54] **COMPOSITIONS ET METHODES DE PRODUCTION ET DISTRIBUTION D'ARN**
[72] BAUM, JAMES A., US
[72] CHRISTIAN, ALLEN T., US
[72] EVDOKIMOV, ARTEM, US
[72] MOSHIRI, FARHAD, US
[72] WEAVER, LISA MARIE, US
[72] ZHANG, HAITAO, US
[73] MONSANTO TECHNOLOGY LLC, US
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[54] **TREE SAP COLLECTING DEVICE**
[54] **DISPOSITIF DE RECOLTE DE LA SEVE DES ARBRES**
[72] DESORCY, RAYNALD, CA
[72] DOZOIS, YANICK, CA
[73] ERATUBE INC., CA
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[51] **Int.Cl. B67C 3/14 (2006.01)**
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[54] **HOT FILL PROCESS WITH CLOSURES MADE FROM HIGH DENSITY UNIMODAL POLYETHYLENE**
[54] **PROCEDE DE REMPLISSAGE A CHAUD COMPORTANT DES FERMETURES FAITES DE POLYETHYLENE UNIMODAL HAUTE DENSITE**
[72] WANG, XIAOCHUAN, CA
[72] REJMAN, MARK, CA
[72] LEWONIUK, RONALD WILLIAM, CA
[72] GIBBONS, IAN ROBERT, CA
[72] BRUSSET, ERIC PAUL, CA
[73] NOVA CHEMICALS CORP., CA
[86] (2914315)
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[54] **INJECTION DEVICE**
[54] **DISPOSITIF D'INJECTION**
[72] BITAR, AHMAD, GB
[72] JENNINGS, DOUGLAS IVAN, GB
[73] CILAG GMBH INTERNATIONAL, CH
[85] 2015-12-09
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[25] EN
[54] **METHOD FOR UPGRADING IN SITU HEAVY OIL**
[54] **PROCEDE D'AMELIORATION DE PETROLE LOURD IN SITU**
[72] BENSON, IAN PHILLIP, US
[72] OVALLES, CESAR FRANCISCO, US
[73] CHEVRON U.S.A. INC., US
[86] (2915596)
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[54] **COMPOSITE MATERIAL INCORPORATING WATER INGRESS BARRIER**
[54] **MATERIAU COMPOSITE INCORPORANT UNE BARRIERE CONTRE L'ENTREE D'EAU**
[72] HARTER, PIERRE, US
[72] DROLET, PIERRE, CA
[72] MOURTAZOV, KHASSAN, CA
[72] WILSON, DAVID, CA
[73] LEARJET INC., US
[85] 2016-01-25
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[54] **A MACHINE TOOL**
[54] **MACHINE-OUTIL**
[72] KLABUNDE, OLAF, DE
[72] BLICKLE, JURGEN, DE
[72] THOMASCHEWSKI, WALTER, DE
[72] BEK, FABIAN, DE
[72] DELFINI, STEFANO, CH
[72] FELLMANN, WILLI, CH
[72] LUSCHER, BRUNO, CH
[72] BOZIC, MILAN, CH
[72] MATHYS, THOMAS, CH
[72] GROLIMUND, DANIEL, CH
[73] C. & E. FEIN GMBH, DE
[73] ROBERT BOSCH GMBH, DE
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[25] EN
[54] **AUTOMATED DEVICES, SYSTEMS, AND METHODS FOR THE FABRICATION OF TISSUE**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES AUTOMATISES POUR LA FABRICATION DE TISSUS**
[72] DAMLE, SAMIR, US
[72] PLATT, CLAY, US
[72] RAPOPORT, HARRY SCOTT, US
[72] JOSHI, VAIDEHI, US
[72] PRESNELL, SHARON C., US
[72] MURPHY, KEITH, US
[72] PENTONEY, STEPHEN, JR., US
[72] LIN, FRANK, US
[72] GORGEN, VIVIAN, US
[73] ORGANOVO, INC., US
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[51] **Int.Cl. B01D 5/00 (2006.01) C02F 1/04 (2006.01)**
[25] EN
[54] **SYSTEMS INCLUDING A CONDENSING APPARATUS SUCH AS A BUBBLE COLUMN CONDENSER**
[54] **SYSTEMES INCLUANT UN APPAREIL DE CONDENSATION TEL QU'UN CONDENSATEUR A COLONNES A BULLES**
[72] GOVINDAN, PRAKASH NARAYAN, US
[72] LAM, STEVEN, US
[72] ST. JOHN, MAXIMUS G., US
[73] GRADIANT CORPORATION, US
[85] 2016-03-11
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[25] FR
[54] **DEVICE FOR REORIENTATION OF AN EGG IN A CELLULAR TRAY**
[54] **DISPOSITIF DE REORIENTATION D'UN OEUF DANS UN ALVEOLE DE PLATEAU**
[72] ADJANOHOUN, EPHREM, FR
[72] MENGUY, FLORENT, FR
[73] EGG-CHICK AUTOMATED TECHNOLOGIES, FR
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[51] **Int.Cl. G06F 15/16 (2006.01)**
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[54] **METHOD AND APPARATUS FOR EXECUTING APPLICATION IN WIRELESS COMMUNICATION SYSTEM**
[54] **PROCEDE ET DISPOSITIF POUR L'EXECUTION D'UNE APPLICATION DANS UN SYSTEME DE COMMUNICATION SANS FIL**
[72] RYU, YOUNG-SUN, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2016-03-23
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[30] KR (10-2013-0112842) 2013-09-23
[30] KR (10-2014-0063216) 2014-05-26

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[13] C
[51] **Int.Cl. E21B 33/13 (2006.01) E21B 34/06 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **DOWNHOLE PACKER AND METHOD OF TREATING A DOWNHOLE FORMATION USING THE DOWNHOLE PACKER**
[54] **GARNITURE DE FOND ET PROCEDE DE TRAITEMENT D'UNE FORMATION DE FOND A L'AIDE DE LA GARNITURE DE FOND**
[72] WATSON, BROCK, US
[72] SCHULTZ, ROGER T., US
[72] FERGUSON, ANDY, US
[72] BRITTON, MARK, US
[73] THRU TUBING SOLUTIONS, INC., US
[85] 2016-04-06
[86] 2014-10-03 (PCT/US2014/059131)
[87] (WO2015/054077)
[30] US (14/050,751) 2013-10-10
[30] US (14/050,792) 2013-10-10

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[13] C
[51] **Int.Cl. A62B 35/00 (2006.01) A62B 1/00 (2006.01)**
[25] EN
[54] **FALL PROTECTION DEVICE FOR A RESCUE CAGE OF AN AERIAL LADDER, IN PARTICULAR FOR FIREFIGHTING VEHICLES**
[54] **DISPOSITIF DE PROTECTION ANTI-CHUTE DESTINE A UNE CAGE DE SAUVETAGE D'UNE ECHELLE AERIENNE, EN PARTICULIER UNE ECHELLE DE VEHICULES DE LUTTE CONTRE L'INCENDIE**
[72] HUEHN, ALEXANDER, DE
[73] IVECO MAGIRUS AG, DE
[86] (2930998)
[87] (2930998)
[22] 2016-05-25
[30] EP (15169503.8) 2015-05-27

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[51] **Int.Cl. G06F 3/04847 (2022.01) G06F 3/04817 (2022.01) G06F 3/04883 (2022.01) F41G 11/00 (2006.01) G09B 29/10 (2006.01)**
[25] EN
[54] **INTERACTIVE RETICLE FOR A TACTICAL BATTLE MANAGEMENT SYSTEM USER INTERFACE**
[54] **RETICULE INTERACTIF POUR UNE INTERFACE D'UTILISATEUR DE SYSTEME DE GESTION DE BATAILLE TACTIQUE**
[72] MOREAU, JEAN-FRANCOIS, CA
[72] HUNTER, DARREN, CA
[72] VOISIN, DEREK, CA
[72] DEGRANDPRE, PAUL, CA
[73] THALES CANADA INC., CA
[85] 2016-05-18
[86] 2014-12-01 (PCT/CA2014/000858)
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[25] EN
[54] **SODA-LIME GLASS FROM 100% RECYCLED GLASS-FORMING MATERIALS**
[54] **VERRE SODOCALCIQUE FABRIQUE A PARTIR DE MATERIAUX DE FORMATION DE VERRE 100% RECYCLES**
[72] BROUWER, ROBERT, NL
[73] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2016-05-19
[86] 2014-10-20 (PCT/US2014/061345)
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[30] US (14/089,066) 2013-11-25

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[51] **Int.Cl. C12N 15/13 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 51/00 (2006.01) A61K 51/10 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 14/705 (2006.01) C07K 16/42 (2006.01) C12N 5/16 (2006.01) C12P 21/08 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTIBODIES TARGETING B-CELL RECEPTOR COMPLEX MEMBRANE BOUND IGM AND USES THEREOF**
[54] **ANTICORPS DE CIBLAGE DES IGM LIES A LA MEMBRANE DU COMPLEXE DU RECEPTEUR DE L'ANTIGENE DES LYMPHOCYTES B ET UTILISATIONS DE CEUX-CI**
[72] WELT, SYDNEY, US
[72] KOSTYAL, DAVID, US
[72] WELT, RACHEL S., US
[72] RAYMOND, VIRGINIA, US
[72] WELT, JONATHAN A., US
[73] WELT BIO-MOLECULAR PHARMACEUTICAL, LLC, US
[85] 2016-05-26
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[51] **Int.Cl. G01V 1/30 (2006.01) E02D 1/04 (2006.01) E02D 1/08 (2006.01) G01V 1/143 (2006.01) G01V 1/18 (2006.01)**
[25] EN
[54] **DEVICES AND METHOD FOR EVALUATING THE INTEGRITY OF SOIL BEHIND AN INFRASTRUCTURE**
[54] **DISPOSITIFS ET METHODE D'EVALUATION DE L'INTEGRITE DU SOL DERRIERE UNE STRUCTURE**
[72] ST-ONGE, FRANCOIS, CA
[73] INVERSA SYSTEMS LTD., CA
[86] (2932663)
[87] (2932663)
[22] 2016-06-08

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[51] **Int.Cl. A61B 5/11 (2006.01) H04W 4/38 (2018.01) A61B 5/145 (2006.01) G08B 21/02 (2006.01)**
[25] EN
[54] **ANALYTE CONCENTRATION ALERT FUNCTION FOR ANALYTE SENSOR SYSTEM**
[54] **FONCTION D'ALERTE DE CONCENTRATION D'ANALYTE POUR SYSTEME CAPTEUR D'ANALYTE**
[72] RASTOGI, RAVI, US
[72] DEHENNIS, ANDREW, US
[73] SENSEONICS, INCORPORATED, US
[85] 2016-06-06
[86] 2014-12-03 (PCT/US2014/068346)
[87] (WO2015/084947)
[30] US (61/912,103) 2013-12-05
[30] US (61/922,387) 2013-12-31

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[54] **SYSTEMS AND METHODS FOR SALES EXECUTION ENVIRONMENT**
[54] **SYSTEMES ET PROCEDES POUR ENVIRONNEMENT D'EXECUTION DE VENTE**
[72] TODD, JASON, US
[72] WEBB, TIMOTHY, US
[72] MCTEER, JENNIFER, US
[72] KATHMAN, JEFFREY, US
[73] WALMART APOLLO, LLC, US
[85] 2016-06-20
[86] 2014-12-19 (PCT/US2014/071559)
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[30] US (61/919,034) 2013-12-20
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[25] EN
[54] **HUMAN ANTI-IL-33 NEUTRALIZING MONOCLONAL ANTIBODY**
[54] **ANTICORPS MONOCLONAL NEUTRALISANT HUMAIN ANTI-IL-33**
[72] FUJINO, YASUHIRO, JP
[72] YOSHIKAWA, TSUTOMU, JP
[72] OCHI, HIROSHI, JP
[73] MITSUBISHI TANABE PHARMA CORPORATION, JP
[85] 2016-06-22
[86] 2014-12-26 (PCT/JP2014/084695)
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[30] JP (2013-270551) 2013-12-26
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[25] EN
[54] **ELECTRIC PULSE GENERATION SYSTEMS USING CAPACITIVE COUPLING**
[54] **SYSTEMES DE GENERATION D'IMPULSIONS ELECTRIQUES PAR COUPLAGE CAPACITIF**
[72] CAIAFA, ANTONIO, US
[72] NECULAES, VASILE BOGDAN, US
[72] GARNER, ALLEN LAWRENCE, US
[72] TORRES, ANDREW SOLIZ, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2016-07-07
[86] 2014-11-20 (PCT/US2014/066484)
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[25] EN
[54] **MINI LIGHT MACHINE SYSTEMS**
[54] **SYSTEMES DE MACHINE DE MINI ECLAIRAGE**
[72] FRANCESCHINA, KAREN S., CA
[73] FRANCESCHINA, KAREN S., CA
[86] (2936798)
[87] (2936798)
[22] 2016-07-22
[30] US (15216671) 2016-07-21

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[25] EN
[54] **SYSTEMS AND METHODS FOR ERROR MONITORING AND HANDLING IN CONTROL SYSTEMS**
[54] **SYSTEMES ET PROCEDES POUR UNE SURVEILLANCE ET UN TRAITEMENT D'ERREUR DANS DES SYSTEMES DE COMMANDE**
[72] RADUCANU, IULIAN, CA
[72] DADASH ZADEH, MOHAMMAD REZA, CA
[72] HAJIMIRAGHA, AMIRHOSSEIN, CA
[73] GENERAL ELECTRIC COMPANY, US
[85] 2016-08-18
[86] 2015-02-24 (PCT/US2015/017333)
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[51] **Int.Cl. A47J 31/00 (2006.01) A47J 31/06 (2006.01) A47J 31/18 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **METHOD, INFUSION CONTAINER, AND PREPARATION DEVICE FOR PREPARING AN INFUSION BEVERAGE**
[54] **PROCEDE, RECIPIENT D'INFUSION ET DISPOSITIF DE PREPARATION D'UNE BOISSON PAR INFUSION**
[72] DEL BON, ROBERTO, CH
[72] DEL BON, FRANCO, CH
[72] WUST, THEODOR, CH
[72] ANDERSON, MARK, CH
[72] DEJAKUM, ROGER, CH
[72] KELLER, DANIEL F., CH
[72] LOCHER, CHRISTIAN, CH
[73] ARCO DESIGN GMBH, CH
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[25] EN
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[54] **INSTRUMENT DE GUIDAGE SEPARABLE POUR IMPLANT ANATOMIQUE**
[72] NIEDERBERGER, ALFRED, CH
[72] FIERLBECK, JOHANN, AT
[73] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2016-09-01
[86] 2015-02-26 (PCT/US2015/017730)
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[25] EN
[54] **INDUSTRIAL TWO-LAYER FABRIC**
[54] **TISSU INDUSTRIEL A DOUBLE COUCHE**
[72] UEDA, IKUO, JP
[73] NIPPON FILCON CO., LTD, JP
[85] 2016-09-21
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[51] **Int.Cl. B65D 77/20 (2006.01)**
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[54] **THERMOFORMING SHEETS AND THERMOFORMED CONTAINERS PREPARED THEREFROM**
[54] **FEUILLES DE THERMOFORMAGE ET RECIPIENTS THERMOFORMES PREPARES A PARTIR DE CELLES-CI**
[72] SANDERS, DANIEL CLAYTON, US
[72] SHERRILL, AMY WHITEMAN, US
[72] ELLEITHY, RABEH H., US
[72] BOWEN, HAROLD STEPHEN, US
[72] KOMRO, RONALD W., US
[73] PRINTPACK ILLINOIS, INC., US
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[54] **PYRIDYL PIPERIDINES**
[54] **PYRIDYL-PIPERIDINES**
[72] SCHIEMANN, KAI, DE
[72] STIEBER, FRANK, DE
[72] CALDERINI, MICHEL, DE
[72] BLAGG, JULIAN, GB
[72] MALLINGER, AURELIE, FR
[72] WAALBOER, DENNIS, NL
[72] RINK, CHRISTIAN, DE
[72] CRUMPLER, SIMON ROSS, GB
[73] MERCK PATENT GMBH, DE
[73] CANCER RESEARCH TECHNOLOGY LIMITED, GB
[85] 2016-09-23
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[54] **CUTTER DRIVE FOR HEADER FOR ATTACHMENT TO HARVESTERS**
[54] **ENTRAINEMENT D'ORGANE DE COUPE DESTINE A UNE TETE DE COUPE D'ACCESSOIRE FIXE AUX MOISSONNEUSES-BATTEUSES**
[72] WEBERMANN, DIRK, DE
[72] SCHULZE SELTING, STEPHAN, DE
[72] POKRIEFKE, MICHAEL, DE
[73] CARL GERINGHOFF GMBH & CO. KG, DE
[86] (2944110)
[87] (2944110)
[22] 2016-10-04
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[25] EN
[54] **MINI PUMP WITH COMPRESSIBLE AIR INLET CHAMBER FOR PROVIDING RESIDUAL SUCK-BACK**
[54] **MINI-POMPE COMPORTANT UNE CHAMBRE D'ENTREE D'AIR COMPRIMABLE POUR FOURNIR UNE ASPIRATION INVERSE**
[72] HARRIS, DONALD R., US
[73] GOJO INDUSTRIES, INC., US
[85] 2016-10-07
[86] 2015-04-16 (PCT/US2015/026079)
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[51] **Int.Cl. A61M 16/04 (2006.01) A61B 1/267 (2006.01) A61M 16/01 (2006.01)**
[25] EN
[54] **BOUGIE AND METHOD OF MAKING AND USING SAME**
[54] **BOUGIE ET SON PROCEDE DE FABRICATION ET D'UTILISATION**
[72] VASAN, NILESH R., US
[73] ADROIT SURGICAL, LLC, US
[85] 2016-10-11
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[25] EN
[54] **SAND SEPARATOR VESSEL PERFORATED REPLACEABLE INSERT APPARATUS AND METHOD**
[54] **MECANISME D'INSERTION REMPLACABLE PERFORE POUR RECIPIENT SEPARATEUR DE SABLE ET METHODE**
[72] HUNT, TYSON B., US
[72] DAVID, ALEXANDRE, US
[73] ANDRITZ INC., US
[86] (2947196)
[87] (2947196)
[22] 2016-11-01
[30] US (62/251,302) 2015-11-05
[30] US (15/337,247) 2016-10-28

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[25] EN
[54] **TRAINING SYSTEM FOR IMPROVING THE MUSCLE STRENGTH**
[54] **SYSTEME D'ENTRAINEMENT POUR AMELIORER LA FORCE MUSCULAIRE**
[72] GINZBURG, JEAN-DANIEL, FR
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2016-11-03
[86] 2015-06-04 (PCT/EP2015/062471)
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[51] **Int.Cl. A01G 25/16 (2006.01) A01G 25/02 (2006.01)**
[25] EN
[54] **LIQUID DISPENSING SYSTEM**
[54] **SYSTEME DE DISTRIBUTION DE LIQUIDE**
[72] SAUDER, TIMOTHY, US
[72] DAHLHAUSER, LEE, US
[72] HEDGES, JAMES, US
[72] MUFF, DAN, US
[73] 360 YIELD CENTER, LLC, US
[85] 2016-11-04
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[30] US (14/245,339) 2014-04-04
[30] US (62/045,542) 2014-09-03

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[25] EN
[54] **5-CHLORO-2-DIFLUOROMETHOXYPHENYL PYRAZOLOPYRIMIDINE COMPOUNDS WHICH ARE JAK INHIBITORS**
[54] **COMPOSES 5-CHLORO -2-DIFLUOROMETHOXYPHENYL PYRAZOLOPYRIMIDINE UTILISES EN TANT QU'INHIBITEURS DE JAK**
[72] ZAK, MARK EDWARD, US
[72] RAY, NICHOLAS CHARLES, GB
[72] GOODACRE, SIMON CHARLES, GB
[72] MENDONCA, ROHAN, US
[72] KELLAR, TERRY, US
[72] CHENG, YUN-XING, CN
[72] LI, WEI, CN
[72] YUEN, PO-WAI, CN
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2016-11-09
[86] 2015-05-22 (PCT/EP2015/061350)
[87] (WO2015/177326)
[30] US (62/002,547) 2014-05-23
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[51] **Int.Cl. C09C 1/36 (2006.01) C09C 3/12 (2006.01)**
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[54] **TITANIUM DIOXIDE**
[54] **DIOXYDE DE TITANE**
[72] EDWARDS, JOHN L., GB
[72] TUCKER, BENJAMIN D., GB
[72] BROWN, ANDREW E., GB
[72] GIBBONS, LINDA, GB
[73] HUNTSMAN P&A UK LIMITED, GB
[85] 2016-11-16
[86] 2015-05-21 (PCT/GB2015/051504)
[87] (WO2015/177562)
[30] GB (1409208.4) 2014-05-23

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[13] C
[51] **Int.Cl. A61M 1/16 (2006.01) A61B 5/145 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **SYSTEM FOR ANALYZING VASCULAR REFILL DURING SHORT-PULSE ULTRAFILTRATION IN HEMODIALYSIS**
[54] **SYSTEME D'ANALYSE DU REMPLISSAGE VASCULAIRE DURANT UNE ULTRAFILTRATION A IMPULSIONS COURTES PENDANT L'HEMODIALYSE**
[72] DE LOS REYES V, AURELIO A., PH
[72] FUERTINGER, DORIS H., US
[72] KAPPEL, FRANZ, AT
[72] MEYRING-WOSTEN, ANNA, US
[72] THIJSSEN, STEPHAN, US
[72] KOTANKO, PETER, US
[73] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2016-11-23
[86] 2015-05-29 (PCT/US2015/033225)
[87] (WO2015/184287)
[30] US (62/005,744) 2014-05-30

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[25] EN
[54] **COMPOSITION AND METHOD FOR STABILIZING AND MAINTAINING THE VIABILITY OF HARDY MICROORGANISMS**
[54] **COMPOSITION ET PROCEDE DE STABILISATION ET DE MAINTIEN DE LA VIABILITE DE MICRO-ORGANISMES RUSTIQUES**
[72] BIRNBOIM, H. CHAIM, CA
[72] KELLY-CIRINO, CASSANDRA, CA
[72] RAY, BITAPI, CA
[72] NILES, JACQUES OSCAR EVERARD, CA
[72] DE BRUIN, OLLE MAARTEN, CA
[73] DNA GENOTEK INC., CA
[85] 2016-11-25
[86] 2015-05-27 (PCT/CA2015/050480)
[87] (WO2015/179976)
[30] US (62/003,114) 2014-05-27

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[51] **Int.Cl. G16B 20/10 (2019.01) G16B 20/00 (2019.01) G16B 30/00 (2019.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **CHROMOSOME REPRESENTATION DETERMINATIONS**
[54] **DETERMINATIONS DE REPRESENTATION DE CHROMOSOMES**
[72] ZHAO, CHEN, US
[72] DECIU, COSMIN, US
[73] SEQUENOM, INC., US
[85] 2016-11-29
[86] 2015-05-27 (PCT/US2015/032550)
[87] (WO2015/183872)
[30] US (62/005,811) 2014-05-30

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[13] C
[51] **Int.Cl. A61K 31/437 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METHODS OF INCREASING TONIC INHIBITION AND TREATING SECONDARY INSOMNIA**
[54] **METHODES POUR AUGMENTER L'INHIBITION TONIQUE ET TRAITER L'INSOMNIE SECONDAIRE**
[72] DURING, MATTHEW, US
[73] OVID THERAPEUTICS, INC., US
[85] 2016-11-29
[86] 2015-06-03 (PCT/US2015/034018)
[87] (WO2015/187851)
[30] US (62/008,939) 2014-06-06

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[51] **Int.Cl. C01B 32/184 (2017.01) C01B 32/205 (2017.01) H05H 1/46 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PLASMA SYNTHESIS OF GRAPHITIC PRODUCTS INCLUDING GRAPHENE**
[54] **APPAREIL ET PROCEDE DE SYNTHESE PAR PLASMA DE PRODUITS GRAPHITIQUES COMPRENANT DU GRAPHENE**
[72] PENNINGTON, DALE ANDREW, GB
[72] CLAYTON, AARON ROBERT, GB
[72] JUDA, KATARZYNA LUIZA, GB
[72] PAUKNER, CATHARINA, GB
[72] KURZEPA, LUKASZ, GB
[72] ST. JOHN COOPER, ROBERT HENRY, GB
[72] KOZIOL, KRZYSZTOF KAZIMIERZ, GB
[72] JOAUG, JEROME YI-ZHE, GB
[73] LEVIDIAN NANOSYSTEMS LIMITED, GB
[85] 2016-12-09
[86] 2015-06-12 (PCT/GB2015/051745)
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[30] GB (1410639.7) 2014-06-13

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[51] **Int.Cl. C01B 21/064 (2006.01) B82Y 40/00 (2011.01) H05H 1/42 (2006.01) C04B 35/583 (2006.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR FABRICATING BORON NITRIDE NANOSTRUCTURES**
[54] **SYSTEME ET PROCEDES POUR FABRIQUER DES NANOSTRUCTURES EN NITRURE DE BORE**
[72] FATHALIZADEH, AIDIN, US
[72] PHAM, THANG, US
[72] MICKELSON, WILLIAM, US
[72] ZETTL, ALEXANDER, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2016-12-22
[86] 2015-06-24 (PCT/US2015/037448)
[87] (WO2015/200496)
[30] US (62/017,038) 2014-06-25
[30] US (62/019,767) 2014-07-01
[30] US (62/140,553) 2015-03-31

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[51] **Int.Cl. A01N 59/00 (2006.01) A61L 2/238 (2006.01)**
[25] EN
[54] **REDUCTION OF INFECTIONS IN HEALTHCARE SETTINGS USING PHOTOCATALYTIC COMPOSITIONS**
[54] **REDUCTION DES INFECTIONS DANS LES ETABLISSEMENTS DE SOINS DE SANTE AU MOYEN DE COMPOSITIONS PHOTOCATALYTIQUES**
[72] AVERETT, STEWART B., US
[72] AVERETT, DEVRON R., US
[73] WELL SHIELD LLC, US
[85] 2016-12-22
[86] 2015-06-22 (PCT/US2015/036877)
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[30] US (62/015,596) 2014-06-23

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[25] EN
[54] **RAIL TRANSPORT DUMP LOOP SYSTEM FOR CONVEYING BULK MATERIALS**
[54] **SYSTEME DE BOUCLE DE DECHARGE DE TRANSPORT SUR RAILS POUR LE TRANSPORT DE MATERIAUX EN VRAC**
[72] FISK, JAMES EVERRETT, US
[72] FANTIN, PATRICK WALTER JOSEPH, CA
[72] MCCALL, WILLIAM JOHN, CA
[72] NIEMEYER, DAVID WILHELM, CA
[72] REAY, CURTIS RON, CA
[72] ZANETTI, ERIC BENJAMIN ALEXANDER, CA
[72] HELLBERG, ESKO JOHANNES, CA
[73] RAIL-VEYOR TECHNOLOGIES GLOBAL INC., CA
[85] 2017-01-04
[86] 2015-03-31 (PCT/CA2015/050252)
[87] (WO2016/004517)
[30] US (62/021,905) 2014-07-08

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[51] **Int.Cl. B29C 70/32 (2006.01) F01D 21/04 (2006.01) F01D 25/24 (2006.01)**
[25] EN
[54] **CASING FOR AN AIRCRAFT ENGINE, AND METHOD FOR PRODUCING A CASING OF SAID TYPE**
[54] **REVETEMENT POUR MOTEUR D'AVION ET PROCEDE DE FABRICATION D'UN TEL REVETEMENT**
[72] NELBOCK, GUNTER, AT
[72] WURTINGER, ANDREAS, AT
[72] FURST, WALTER, AT
[73] FACC AG, AT
[85] 2017-01-17
[86] 2015-09-01 (PCT/AT2015/050207)
[87] (WO2016/033624)
[30] AT (A 50609/2014) 2014-09-04

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[25] EN
[54] **ANTIFUNGAL PAENIBACILLUS STRAINS, FUSARICIDIN-TYPE COMPOUNDS, AND THEIR USE**
[54] **SOUCHES DE PAENIBACILLUS ANTI-FONGIQUES, COMPOSES DE TYPE FUSARICIDINE ET LEUR UTILISATION**
[72] SIEPE, ISABELLA, DE
[72] BRUSER, HEIKE, DE
[72] KLAPPACH, KRISTIN, DE
[72] SCHNEIDER, KARL-HEINRICH, DE
[72] SPROTE, PETRA, DE
[72] HAGE, KERSTIN, DE
[72] BLANZ, BIRGIT, DE
[72] THINES, ECKHARD, DE
[72] ANTELO, LUIS, DE
[72] SANDJO, LOUIS PERGAUD, CM
[72] OPATZ, TILL, DE
[73] BASF SE, DE
[85] 2017-01-31
[86] 2015-08-04 (PCT/EP2015/067925)
[87] (WO2016/020371)
[30] EP (14179620.1) 2014-08-04

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[13] C
[51] **Int.Cl. A61K 47/02 (2006.01) A61K 31/44 (2006.01) A61K 47/30 (2006.01) A61P 1/00 (2006.01) A61P 1/16 (2006.01) A61P 35/00 (2006.01) A61P 39/00 (2006.01)**
[25] EN
[54] **THERAPEUTIC DETOXIFICATION COMPOSITIONS AND METHODS OF MAKING AND USING SAME**
[54] **COMPOSITIONS DE DETOXIFICATION THERAPEUTIQUE ET PROCEDES DE FABRICATION ET D'UTILISATION DE CELLES-CI**
[72] RAE, CAROL A., US
[72] SIMONI, JAN, US
[72] SIMONI, GRACE, US
[72] MOELLER, JOHN F., US
[73] IMMUTRIX THERAPEUTICS, INC., US
[85] 2017-02-01
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[54] **RAM EXTRUDING THIN PANELS OF UHMW POLYMERS**
[54] **BELIER D'EXTRUSION DE PANNEAUX MINCES DE POLYMERES UHMW**
[72] STRANGE, BRODERICK JASON, CA
[72] BRANIFF, DANIEL PATRICK, CA
[73] ROCHLING ENGINEERING PLASTICS LTD., CA
[86] (2958384)
[87] (2958384)
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[54] **FACTOR H POTENTIATING ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS DE POTENTIALISATION DU FACTEUR H ET UTILISATIONS ASSOCIEES**
[72] KUIJPERS, TACO WILLEM, NL
[72] WOUTERS, DIANA, NL
[72] BROUWER, MARIA CLARA, NL
[72] POUW, RICHARD BENJAMIN, NL
[73] STICHTING SANQUIN BLOEDVOORZIENING, NL
[85] 2017-02-17
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[25] EN
[54] **7-(MORPHOLINYL)-2-(N-PIPERAZINYL) METHYL THIENO [2, 3-C] PYRIDINE DERIVATIVES AS ANTICANCER DRUGS**
[54] **DERIVES DE 7-(MORPHOLINYL)-2-(N-PIPERAZINYL)METHYLTHIENO[2, 3-C]PYRIDINE EN TANT QUE MEDICAMENTS ANTICANCEREUX**
[72] KONAKANCHI, DURGA PRASAD, IN
[72] PULA, SUBBA RAO, IN
[72] PILLI, RAMA KRISHNA, IN
[72] MADDULA, LAKSHMANA VISWA VENKATA PAVAN KUMAR, IN
[72] KONDURI, SRINIVASA KRISHNA MURTHY, IN
[72] RAVI, JANAKI RAMA RAO, IN
[72] VUPPALAPATI, NAGA VASANTA SRINIVASU, IN
[72] THOOTA, SANDEEP KUMAR, IN
[72] MUDDASANI, PULLA REDDY, IN
[72] ADIBHATLA, KALI SATYA BHUJANGA RAO, IN
[72] NANNAPANENI, VENKAIAH CHOWDARY, IN
[73] NATCO PHARMA LIMITED, IN
[85] 2017-03-02
[86] 2014-12-11 (PCT/IN2014/000770)
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[25] EN
[54] **PRODUCTION OF LOW PRESSURE LIQUID CARBON DIOXIDE FROM A POWER PRODUCTION SYSTEM AND METHOD**
[54] **PRODUCTION DE DIOXYDE DE CARBONE LIQUIDE A BASSE PRESSION A PARTIR D'UN SYSTEME DE PRODUCTION D'ENERGIE ET PROCEDE ASSOCIE**
[72] ALLAM, RODNEY JOHN, GB
[72] FORREST, BROCK ALAN, US
[72] FETVEDT, JEREMY ERON, US
[73] 8 RIVERS CAPITAL, LLC, US
[85] 2017-03-03
[86] 2015-09-03 (PCT/US2015/048340)
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[25] EN
[54] **PEPTIDES HAVING IMMUNOSTIMULATORY OR HAIR GROWTH PROMOTING EFFECT AND USE THEREOF**
[54] **PEPTIDES AYANT UN EFFET IMMUNOSTIMULATEUR OU DE PROMOTION DE LA CROISSANCE DES CHEVEUX ET UTILISATION CONNEXE**
[72] NAKAGAMI, HIRONORI, JP
[72] MORISHITA, RYUICHI, JP
[72] KORIYAMA, HIROSHI, JP
[72] TENMA, AKIKO, JP
[73] OSAKA UNIVERSITY, JP
[85] 2017-03-08
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[25] EN
[54] **DEVICES AND METHODS FOR MODULAR OPTICAL CABLING SYSTEMS**
[54] **DISPOSITIFS ET PROCEDES POUR DES SYSTEMES DE CABLAGE OPTIQUE MODULAIRE**
[72] DUKES, GARRY, US
[72] TONG, XIAOLIN, US
[72] POFFENBERGER, EVERETT, US
[72] CAO, JUNXING, US
[72] YANG, XIN, US
[73] LASTAR, INC., US
[85] 2017-03-09
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[25] EN
[54] **A DUAL CONFIGURATION PORTABLE WHEELCHAIR**
[54] **FAUTEUIL ROULANT PORTATIF A CONFIGURATION DOUBLE**
[72] THOMPSON, PETER JAMES, NZ
[73] THOMPSON LAFFERTY DESIGN LIMITED, NZ
[85] 2017-03-13
[86] 2015-09-17 (PCT/NZ2015/050154)
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[25] EN
[54] **PULMONARY ADMINISTRATION OF PYOCINS FOR TREATING BACTERIAL RESPIRATORY INFECTIONS**
[54] **ADMINISTRATION DE PYOCINES PAR VOIE PULMONAIRE POUR LE TRAITEMENT D'INFECTIONS RESPIRATOIRES BACTERIENNES**
[72] WALKER, DANIEL, GB
[72] MCCAUGHEY, LAURA, GB
[73] THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW, GB
[85] 2017-03-22
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[54] **METHOD FOR ENHANCING THE RATE OF THE FORMATION OF THE REACTION PRODUCT OF A CARBOXYLIC ACID AND A UREA VIA ACID ADDITION**
[54] **PROCEDE POUR AMELIORER LA VITESSE DE FORMATION DU PRODUIT REACTIONNEL D'UN ACIDE CARBOXYLIQUE ET D'UNE UREE PAR ADDITION D'ACIDE**
[72] STOLLER, JERRY, US
[72] SHETH, RITESH, US
[73] STOLLER ENTERPRISES, INC., US
[85] 2017-03-21
[86] 2015-12-30 (PCT/US2015/067992)
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[25] EN
[54] **2' AND/OR 5' AMINO-ACID ESTER PHOSPHORAMIDATE 3'-DEOXY ADENOSINE DERIVATIVES AS ANTI-CANCER COMPOUNDS**
[54] **DERIVES DE 2' ET/OU 5' PHOSPHORAMIDATE D'ESTER D'ACIDE AMINE 3'-DEOXYADENOSINE COMME COMPOSES ANTICANCEREUX**
[72] GRIFFITH, HUGH, GB
[72] MCGUIGAN, CHRISTOPHER, GB
[72] FERRARI, VALENTINA, GB
[72] SERPI, MICHAELA, GB
[72] JIMENEZ ANTUNEZ, CARMEN, GB
[73] NUCANA PLC, GB
[85] 2017-03-23
[86] 2015-11-27 (PCT/GB2015/053628)
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[25] EN
[54] **DIGESTION OF WASTE ACTIVATED SLUDGE WITH ALGAE**
[54] **DIGESTION DE BOUES ACTIVEES PAR DES DECHETS AVEC DES ALGUES**
[72] JU, LU-KWANG, US
[72] TRIVEDI, HIREN K., US
[73] OVIVO INC., CA
[73] THE UNIVERSITY OF AKRON, US
[85] 2017-03-23
[86] 2015-09-25 (PCT/US2015/052454)
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[25] EN
[54] **NANOFIBER STRUCTURES AND METHODS OF SYNTHESIS AND USE THEREOF**
[54] **STRUCTURES DE NANOFIBRES ET PROCEDES POUR LES SYNTHETISER ET LES UTILISER**
[72] XIE, JINGWEI, US
[72] JIANG, JIANG, US
[73] BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, US
[85] 2017-03-28
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[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT AND PROPHYLAXIS OF SURGICAL SITE INFECTIONS**
[54] **COMPOSITIONS ET PROCEDES POUR LE TRAITEMENT ET LA PROPHYLAXIE D'INFECTIONS DE SITE CHIRURGICAL**
[72] EMANUEL, NOAM, IL
[73] POLYPID LTD., IL
[85] 2017-03-31
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[54] **LOCK WITH WATER-RESISTANT TOUCH KEYPAD**
[54] **SERRURE DOTEE DE CLAVIER TACTILE RESISTANT A L'EAU**
[72] LIN, JAMES, US
[72] QUACH, BYRON, US
[73] SPECTRUM BRANDS, INC., US
[85] 2017-04-25
[86] 2015-10-21 (PCT/US2015/056582)
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[30] US (62/069,402) 2014-10-28
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[25] EN
[54] **SEATING FURNITURE CHASSIS HAVING A HEIGHT-ADJUSTABLE SEAT SURFACE**
[54] **CHASSIS DE SIEGE AVEC UNE ASSISE POSITIONNABLE EN HAUTEUR**
[72] MACKERT, MICHAEL, DE
[73] INNOTEC MOTION GMBH, DE
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[54] **SUBSTITUTED CHROMANES AND METHOD OF USE**
[54] **CHROMANES SUBSTITUES ET METHODE D'UTILISATION**
[72] KYM, PHILIP R., US
[72] WANG, XUEQING, US
[72] SEARLE, XENIA B., US
[72] LIU, BO, US
[72] YEUNG, MING C., US
[72] ALTENBACH, ROBERT J., US
[72] VOIGHT, ERIC, US
[72] BOGDAN, ANDREW, US
[72] KOENIG, JOHN R., US
[72] GRESZLER, STEPHEN N., US
[73] GALAPAGOS NV, BE
[73] ABBVIE GLOBAL ENTERPRISES LTD., BM
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[54] **PANNEAU DE COMMANDE FACILE A ASSEMBLER**
[72] STEINKE, COREY LEE, US
[73] S.J. ELECTRO SYSTEMS, LLC, US
[86] (2966190)
[87] (2966190)
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[25] EN
[54] **STIRRER UNIT FOR A FERMENTER IN A BIOGAS PLANT**
[54] **DISPOSITIF D'AGITATION POUR UN FERMENTEUR D'UNE INSTALLATION DE BIOGAZ**
[72] CZWALUK, ANDREAS, DE
[73] UTS BIOGASTECHNIK GMBH, DE
[85] 2017-04-28
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[54] **SYSTEM FOR DISPLAYING PARKING SPACES**
[54] **SYSTEME POUR AFFICHER DES PLACES DE STATIONNEMENT**
[72] HOHENACKER, THOMAS, DE
[73] CLEVERCITI SYSTEMS GMBH, DE
[85] 2017-05-10
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[30] DE (10 2014 116 455.5) 2014-11-11
[30] DE (10 2015 118 598.9) 2015-10-30

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[51] **Int.Cl. A61M 39/16 (2006.01) A61M 39/20 (2006.01)**
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[54] **DISINFECTING CAP FOR MEDICAL CONNECTORS**
[54] **CAPUCHONS DESINFECTANTS POUR RACCORDS MEDICAUX**
[72] SOLOMON, DONALD D. (DECEASED), US
[72] FERGUSON, F. MARK, US
[72] AVULA, MAHENDER, US
[72] HITCHCOCK, ROBERT, US
[73] MERIT MEDICAL SYSTEMS, INC., US
[85] 2017-05-10
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[25] EN
[54] **PHOTON NEUTRALIZERS FOR NEUTRAL BEAM INJECTORS**
[54] **AGENTS DE NEUTRALISATION DE PHOTONS POUR INJECTEURS DE FAISCEAU NEUTRE**
[72] BURDAKOV, ALEXANDER V., RU
[72] IVANOV, ALEXANDR A., RU
[72] POPOV, SERGEY S., RU
[73] TAE TECHNOLOGIES, INC., US
[85] 2017-05-12
[86] 2015-11-18 (PCT/US2015/061356)
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[25] EN
[54] **MIR-122* AS AN ACTIVE MICRO-RNA, COMPOSITIONS COMPRISING THE SAME AND USES THEREOF**
[54] **MICRO-ARN ACTIF MIR 122*, COMPOSITIONS LE COMPORTANT ET UTILISATIONS CORRESPONDANTES**
[72] GILADI, HILLA, IL
[72] SIMERZIN, ALINA, IL
[72] HANTZ, YAEL, IL
[72] ARBEL ALON, SAGIT, IL
[72] GALUN, EITHAN, IL
[73] HADASIT MEDICAL RESEARCH SERVICES AND DEVELOPMENT LTD., IL
[85] 2017-05-30
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[30] US (61/924,719) 2014-01-08

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[54] **ANTICANCER COMPOSITIONS**
[54] **COMPOSITIONS ANTICANCEREUSES**
[72] VERRECK, GEERT, BE
[73] ARAGON PHARMACEUTICALS, INC., US
[85] 2017-06-02
[86] 2015-12-03 (PCT/US2015/063667)
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[51] **Int.Cl. A01F 15/07 (2006.01)**
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[54] **CONTINUOUS ROUND BALER**
[54] **PRESSE ENROULEUSE CONTINUE**
[72] UNDERHILL, KENNETH R., US
[73] MCHALE ENGINEERING, IE
[85] 2017-06-02
[86] 2015-11-06 (PCT/US2015/059522)
[87] (WO2016/089546)
[30] US (62/086,594) 2014-12-02
[30] US (62/111,884) 2015-02-04

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[25] EN
[54] **REAL-TIME INFILL IN MARINE SEISMIC SURVEYS USING AN INDEPENDENT SEISMIC SOURCE**
[54] **REMPLISSAGE EN TEMPS REEL DANS DES ETUDES SISMIQUES MARINES A L'AIDE D'UNE SOURCE SISMIQUE INDEPENDANTE**
[72] BERNITSAS, NIKOLAOS, US
[72] BROOKES, DAVID JAMES, US
[72] RIDYARD, DAVID, US
[72] ALLINSON, DOUGLAS F., US
[73] TGS-NOPEC GEOPHYSICAL COMPANY, US
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[30] US (62/096,382) 2014-12-23
[30] US (14/977,791) 2015-12-22

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[25] EN
[54] **PASSIVE RFID TAGS WITH INTEGRATED CIRCUITS USING SUB-THRESHOLD TECHNOLOGY**
[54] **ETIQUETTES D'IDENTIFICATION PAR RADIOFREQUENCE (RFID) PASSIVES AYANT DES CIRCUITS INTEGRES UTILISANT UNE TECHNOLOGIE DE SOUS-SEUIL**
[72] PATTERSON, HUBERT A., US
[72] SEQUEIRA, MELWYN F., US
[73] SENSORMATIC ELECTRONICS LLC, US
[85] 2017-06-27
[86] 2015-12-02 (PCT/US2015/063526)
[87] (WO2016/090043)
[30] US (62/086,241) 2014-12-02

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[51] **Int.Cl. H05K 3/14 (2006.01) C23C 4/12 (2016.01) C23C 4/18 (2006.01) C23C 24/04 (2006.01)**
[25] FR
[54] **STRUCTURE COMPRISING ELECTRICALLY SURFACE CONDUCTIVE LINES AND METHOD FOR MAKING ELECTRICALLY CONDUCTIVE LINES ON A SURFACE OF A STRUCTURE**
[54] **STRUCTURE COMPORTANT DES LIGNES ELECTRIQUEMENT CONDUCTRICES EN SURFACE ET PROCEDE POUR LA REALISATION DE LIGNES ELECTRIQUEMENT CONDUCTRICES SUR UNE FACE D'UNE STRUCTURE**
[72] DANTIN, BENOIT, FR
[72] LEMEILLE, PASCAL, FR
[73] MALLARD, FR
[73] AIRBUS GROUP SAS, FR
[85] 2017-06-29
[86] 2015-12-30 (PCT/EP2015/081452)
[87] (WO2016/107918)
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[51] **Int.Cl. C13K 1/02 (2006.01) C12P 7/10 (2006.01) D21C 1/04 (2006.01) C12P 19/02 (2006.01)**
[25] EN
[54] **CONTROLLING THE PRETREATMENT OF A SOFTWOOD STARTING MATERIAL**
[54] **CONTROLE DU PRETRAITEMENT D'UN MATERIAU DE DEPART TYPE BOIS RESINEUX**
[72] HAGGLUND, KARIN, SE
[73] SEKAB E-TECHNOLOGY AB, SE
[85] 2017-07-06
[86] 2016-01-20 (PCT/SE2016/050034)
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[30] SE (1550104-2) 2015-02-02

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[51] **Int.Cl. H02J 7/34 (2006.01) H02J 15/00 (2006.01) G08B 17/00 (2006.01) H02J 7/35 (2006.01)**
[25] EN
[54] **SELF-SUSTAINING ENERGY HARVESTING SYSTEM**
[54] **SYSTEME DE RECUPERATION D'ENERGIE AUTO-ENTRETENU**
[72] COPELAND, RICHARD LOYD, US
[72] MOHIUDDIN, MOHAMMAD, US
[72] SEQUEIRA, MELWYN F., US
[73] SENSORMATIC ELECTRONICS LLC, US
[85] 2017-07-11
[86] 2015-12-15 (PCT/US2015/065737)
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[30] US (14/570,524) 2014-12-15

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[51] **Int.Cl. E21B 47/20 (2012.01) E21B 47/18 (2012.01)**
[25] EN
[54] **HIGH SIGNAL STRENGTH MUD SIREN FOR MWD TELEMETRY**
[54] **SIRENE A BOUES A HAUTE INTENSITE DE SIGNAL POUR TELEMETRIE EN COURS DE FORAGE**
[72] CHIN, WILSON CHUN-LING, US
[72] IFTIKHAR, KAMIL, US
[73] BLACK DIAMOND OILFIELD RENTALS LLC, US
[85] 2017-07-13
[86] 2016-01-14 (PCT/IB2016/000072)
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[13] C
[51] **Int.Cl. F01D 17/16 (2006.01) F04D 29/44 (2006.01) F04D 29/46 (2006.01)**
[25] EN
[54] **DEVICE FOR CONTROLLING THE FLOW IN A TURBOMACHINE, TURBOMACHINE AND METHOD**
[54] **DISPOSITIF DE REGULATION DU DEBIT DANS UNE TURBOMACHINE, TURBOMACHINE ET PROCEDE**
[72] SCOTTI DEL GRECO, ALBERTO, IT
[72] RADHAKRISHNAN, SEN, IN
[72] GADAMSETTY, RAJESH KUMAR VENKATA, IN
[72] LANG, MATTHIAS CARL, DE
[72] SEZAL, ISMAIL HAKKI, DE
[73] NUOVO PIGNONE TECNOLOGIE SRL, IT
[85] 2017-07-27
[86] 2016-01-27 (PCT/EP2016/051685)
[87] (WO2016/120316)
[30] IT (CO2015A000001) 2015-01-28

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[51] **Int.Cl. E01C 11/02 (2006.01) E04B 1/66 (2006.01) E04B 1/68 (2006.01)**
[25] EN
[54] **EXPANSION JOINT SEAL AND EXPANSION JOINT**
[54] **GARNITURE DE JOINT DE DILATATION ET JOINT DE DILATATION**
[72] HAMILTON, NEIL, US
[72] MOORE, GARY, US
[73] WATSON BOWMAN ACME CORPORATION, US
[85] 2017-07-31
[86] 2016-02-02 (PCT/US2016/016119)
[87] (WO2016/126673)
[30] US (62/110,900) 2015-02-02
[30] US (62/114,268) 2015-02-10

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[13] C
[51] **Int.Cl. H01F 27/08 (2006.01) H01F 27/26 (2006.01) H01F 27/28 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC INDUCTION DEVICE CONFIGURED AS A MULTIPLE MAGNETIC CIRCUIT**
[54] **DISPOSITIF D'INDUCTION ELECTROMAGNETIQUE A CONFIGURATION DE CIRCUIT MAGNETIQUE MULTIPLE**
[72] TOUZET, ERIC, FR
[72] POTELLE, NICOLAS, FR
[73] THALES, FR
[85] 2017-08-10
[86] 2016-02-11 (PCT/EP2016/052926)
[87] (WO2016/128520)
[30] FR (1500283) 2015-02-13

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[13] C
[51] **Int.Cl. H02G 3/02 (2006.01) E04G 25/00 (2006.01) H02G 3/08 (2006.01)**
[25] EN
[54] **MOUNTING BRACKET WITH FAR SIDE SUPPORT**
[54] **SUPPORT DE MONTAGE A SOUTIEN LATERAL ECARTE**
[72] KORCZ, KRZYSZTOF W., US
[72] JOHNSON, STEVEN J., US
[73] HUBBELL INCORPORATED, US
[85] 2017-08-10
[86] 2016-02-11 (PCT/US2016/017549)
[87] (WO2016/130805)
[30] US (62/115,916) 2015-02-13

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[51] **Int.Cl. C02F 3/34 (2006.01) C02F 3/00 (2006.01) C02F 3/08 (2006.01) C02F 3/10 (2006.01)**
[25] EN
[54] **MULTIPLE ATTACHED GROWTH REACTOR SYSTEM**
[54] **SYSTEME DE REACTEUR DE CROISSANCE ATTACHE MULTIPLE**
[72] HILDEBRAND, MARTIN, CA
[72] KROEKER, MERLE, CA
[73] NEXOM, CA
[86] (2977070)
[87] (2977070)
[22] 2017-08-23
[30] US (62/378,897) 2016-08-24
[30] US (62/482,493) 2017-04-06
[30] US (62/535,523) 2017-07-21

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[13] C
[51] **Int.Cl. C11B 9/00 (2006.01) A61K 8/04 (2006.01) A61K 8/11 (2006.01) A61K 8/73 (2006.01) A61Q 13/00 (2006.01) C11D 3/37 (2006.01) C11D 3/50 (2006.01) C11D 3/60 (2006.01) C11D 7/22 (2006.01) C11D 7/60 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **STABLE DISPERSIONS**
[54] **DISPERSIONS STABLES**
[72] DROEGE, JOERG, DE
[72] WIEDEMANN, JOERN, DE
[73] SYMRISE AG, DE
[85] 2017-08-23
[86] 2016-02-14 (PCT/EP2016/053085)
[87] (WO2016/134994)
[30] EP (15156452.3) 2015-02-25

[11] **2,977,642**
[13] C
[51] **Int.Cl. B31D 5/00 (2017.01)**
[25] EN
[54] **DUNNAGE CONVERSION SYSTEM AND METHOD FOR EXPANDING PRE-SLIT SHEET STOCK MATERIAL**
[54] **SYSTEME ET PROCEDE DE CONVERSION DE FARDAGE POUR EXPANSER UN MATERIAU DE STOCK DE FEUILLES PRE-FENDU**
[72] CHEICH, ROBERT, US
[73] RANPAK CORP., US
[85] 2017-08-23
[86] 2016-02-09 (PCT/US2016/017064)
[87] (WO2016/137740)
[30] US (62/121,046) 2015-02-26

[11] **2,977,884**
[13] C
[51] **Int.Cl. G02B 1/10 (2015.01)**
[25] EN
[54] **OPTICAL ELEMENT HAVING A COATING FOR ENHANCED VISIBILITY OF A MARK AND METHOD FOR MAKING THE OPTICAL ELEMENT**
[54] **ELEMENT OPTIQUE AYANT UN REVETEMENT POUR VISIBILITE AMELIOREE D'UN REPERE ET PROCEDE DE FABRICATION DE L'ELEMENT OPTIQUE**
[72] FREASE, JENNINE, US
[72] TURPEN, JOSEPH, US
[72] CARPENTER, WILLIAM, US
[72] STEWART, KEVIN J., US
[73] TRANSITIONS OPTICAL, LTD., IE
[85] 2017-08-25
[86] 2016-03-10 (PCT/EP2016/055201)
[87] (WO2016/142496)
[30] US (62/130,777) 2015-03-10

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[13] C
[51] **Int.Cl. G01T 1/202 (2006.01) C09K 11/63 (2006.01) C09K 11/64 (2006.01) C09K 11/85 (2006.01)**
[25] EN
[54] **SCINTILLATOR COMPOSITION, RADIATION DETECTION APPARATUS AND RELATED METHOD**
[54] **COMPOSITION DE SCINTILLATEUR, APPAREIL DE DETECTION D'UN RAYONNEMENT ET PROCEDE ASSOCIE**
[72] RAMACHANDRA, SRINIDHI, IN
[72] SRIVASTAVA, ALOK MANI, US
[72] RAMACHANDRAN, GOPI CHANDRAN, IN
[72] NAMMALWAR, PRASANTH KUMAR, IN
[72] CLIMENT, HELENE CLAIRE, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2017-09-06
[86] 2016-03-04 (PCT/US2016/020808)
[87] (WO2016/144718)
[30] IN (1105/CHE/2015) 2015-03-06

[11] **2,980,459**
[13] C
[51] **Int.Cl. B60T 7/02 (2006.01) B61H 13/02 (2006.01) B61H 13/04 (2006.01)**
[25] EN
[54] **HAND BRAKE ASSEMBLY**
[54] **ENSEMBLE FREIN A MAIN**
[72] MICHEL, MARK, US
[72] GLENN, DEON, US
[72] KIRK, TAMMY, US
[73] AMSTED RAIL COMPANY, INC., US
[85] 2017-09-20
[86] 2016-03-18 (PCT/US2016/023014)
[87] (WO2016/153954)
[30] US (14/663,867) 2015-03-20

[11] **2,980,604**
[13] C
[51] **Int.Cl. A61B 16/00 (2006.01) G16H 40/63 (2018.01)**
[25] EN
[54] **AUTOMATED AUTOPSY SYSTEM**
[54] **SYSTEME D'AUTOPSIE AUTOMATISE**
[72] HYNNA, KAI, CA
[72] RICHMOND, JOSHUA LEE, CA
[72] PANTHER, ALEXANDER GYLES, CA
[72] VUONG, THANH VINH, CA
[73] SYNAPTIVE MEDICAL INC., CA
[85] 2017-09-22
[86] 2015-03-23 (PCT/CA2015/050223)
[87] (WO2016/149788)

[11] **2,980,869**
[13] C
[51] **Int.Cl. H04W 84/18 (2009.01) H04W 52/02 (2009.01) H04W 4/021 (2018.01) H04L 67/12 (2022.01) H04L 67/52 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONTROLLING LOW ENERGY LINKS IN WIRELESS SENSOR NETWORKS**
[54] **PROCEDE ET SYSTEME DE COMMANDE DE LIAISONS A FAIBLE ENERGIE DANS DES RESEAUX DE CAPTEURS SANS FIL**
[72] RASBAND, PAUL BRENT, US
[72] ALICOT, JORGE F., US
[73] SENSORMATIC ELECTRONICS LLC, US
[85] 2017-09-25
[86] 2016-02-09 (PCT/US2016/017195)
[87] (WO2016/130577)
[30] US (14/618,237) 2015-02-10

[11] **2,981,009**
[13] C
[51] **Int.Cl. B01J 23/66 (2006.01) C07D 301/10 (2006.01)**
[25] EN
[54] **SILVER CATALYSTS WITH IMPROVED SIZE AND DISTRIBUTION DENSITY OF SILVER PARTICLES**
[54] **CATALYSEURS D'ARGENT AYANT UNE TAILLE ET UNE DENSITE DE DISTRIBUTION AMELIOREES DES PARTICULES D'ARGENT**
[72] SUCHANEK, WOJCIECH L., US
[72] RIZKALLA, NABIL, US
[72] ROKICKI, ANDRZEJ, US
[73] SCIENTIFIC DESIGN COMPANY, INC., US
[85] 2017-09-26
[86] 2016-02-26 (PCT/US2016/019676)
[87] (WO2016/138334)
[30] US (62/121,675) 2015-02-27

[11] **2,981,950**
[13] C
[51] **Int.Cl. B26B 13/12 (2006.01) B26B 13/14 (2006.01)**
[25] FR
[54] **PAIR OF SCISSORS, PARTICULARLY FOR CUTTING HAIR**
[54] **PAIRE DE CISEAUX, NOTAMMENT POUR LA COUPE DE CHEVEUX**
[72] GANDON, JULIEN, FR
[73] NOVACOIFF, FR
[85] 2017-10-05
[86] 2016-04-04 (PCT/FR2016/050762)
[87] (WO2016/162621)
[30] FR (1552948) 2015-04-07

[11] **2,982,124**
[13] C
[51] **Int.Cl. A62B 1/14 (2006.01)**
[25] EN
[54] **HIGH LOAD DESCENDER WITH ADAPTIVE RELEASE LINKAGE**
[54] **DESCENDEUR DE CHARGE ELEVEE AVEC LIAISON DE LIBERATION ADAPTATIVE**
[72] MALCOM, JONATHAN D., US
[73] HARKEN, INCORPORATED, US
[85] 2017-10-06
[86] 2016-04-07 (PCT/US2016/026491)
[87] (WO2016/164613)
[30] US (62/144,260) 2015-04-07

[11] **2,982,714**
[13] C
[51] **Int.Cl. B65B 57/14 (2006.01) B65B 9/08 (2012.01) G01N 21/88 (2006.01)**
[25] EN
[54] **APPARATUS FOR THE PRODUCTION OF TUBE BLISTER PACKAGES**
[54] **DISPOSITIF POUR LA FABRICATION DE BLISTERS TUBULAIRES**
[72] HELLENBRAND, CHRISTOPH, DE
[73] BECTON DICKINSON ROWA GERMANY GMBH, DE
[85] 2017-10-13
[86] 2016-04-15 (PCT/EP2016/058328)
[87] (WO2016/166271)
[30] EP (15163951.5) 2015-04-17

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[11] **2,985,076**
[13] C
[51] **Int.Cl. F25D 15/00 (2006.01) B01D 1/00 (2006.01) B01L 7/00 (2006.01) F25B 39/02 (2006.01) F25D 25/00 (2006.01)**
[25] EN
[54] **COMPACT CHILLER AND COOLER APPARATUSES, DEVICES AND SYSTEMS**
[54] **APPAREILS, DISPOSITIFS ET SYSTEMES COMPACTS DE REFROIDISSEMENT ET DE RAFRAICHISSEMENT**
[72] ADJABENG, GEORGE, US
[72] WILLIAMS, KWABENA, US
[73] ECODYST, INC., US
[85] 2017-11-03
[86] 2016-06-10 (PCT/US2016/036886)
[87] (WO2016/201223)
[30] US (62/174,092) 2015-06-11

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[13] C
[51] **Int.Cl. E21B 17/042 (2006.01) F16L 15/06 (2006.01)**
[25] EN
[54] **DRILL ROD OR ADAPTOR WITH STRENGTHENED SPIGOT COUPLING**
[54] **TIGE DE FORAGE OU ADAPTATEUR AVEC RACCORD A EMBOITEMENT RENFORCE**
[72] AHOLA, PETRI, SE
[72] WICKSTROM, DAVID, SE
[72] NORMAN, ANDREAS, SE
[73] SANDVIK INTELLECTUAL PROPERTY AB, SE
[85] 2017-11-21
[86] 2016-05-19 (PCT/EP2016/061300)
[87] (WO2016/188862)
[30] EP (15168921.3) 2015-05-22

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[13] C
[51] **Int.Cl. F02D 41/06 (2006.01) F02B 29/04 (2006.01) F02B 37/12 (2006.01) F02D 23/00 (2006.01) F02D 41/00 (2006.01)**
[25] EN
[54] **INTERNAL COMBUSTION ENGINE AND METHOD FOR STARTING AN INTERNAL COMBUSTION ENGINE**
[54] **MOTEUR A COMBUSTION INTERNE ET PROCEDE DE DEMARRAGE D'UN MOTEUR A COMBUSTION INTERNE**
[72] FUCHS, JOCHEN, AT
[72] LU, HANG, DE
[73] INNIO JENBACHER GMBH & CO OG, AT
[85] 2017-11-22
[86] 2016-03-16 (PCT/AT2016/050062)
[87] (WO2016/172748)
[30] AT (A 251/2015) 2015-04-27

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[13] C
[51] **Int.Cl. B05C 5/02 (2006.01)**
[25] EN
[54] **MULTI-BEAD APPLICATOR**
[54] **APPLICATEUR MULTI-CORDON**
[72] RUNDO, JOHN, US
[72] RUNDO, MARK, US
[72] JANOSKI, RONALD J., US
[73] ADVANTEC BUILDING PRODUCTS, US
[86] (2986856)
[87] (2986856)
[22] 2017-11-28
[30] US (15/364,789) 2016-11-30

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[13] C
[51] **Int.Cl. G06Q 20/00 (2012.01)**
[25] EN
[54] **PAYMENT SYSTEM BASED ON SHARED FUNDS-MANAGEMENT SERVER, AND METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR UN SERVEUR DE GESTION DE FONDS PARTAGES, ET PROCEDE, DISPOSITIF ET SERVEUR ASSOCIE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2017-11-29
[86] 2015-05-28 (PCT/CN2015/080055)
[87] (WO2016/173037)
[30] CN (201510218996.8) 2015-04-30

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[13] C
[51] **Int.Cl. G06Q 40/03 (2023.01) H04L 12/16 (2006.01)**
[25] EN
[54] **LENDING METHOD, AND DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE DE PRET, ET PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2017-11-29
[86] 2015-05-29 (PCT/CN2015/080259)
[87] (WO2016/191928)

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[13] C
[51] **Int.Cl. C08L 101/02 (2006.01) C08K 3/40 (2006.01) C08K 7/14 (2006.01) C08K 7/20 (2006.01) C09K 8/52 (2006.01) E21B 29/02 (2006.01) E21B 37/06 (2006.01)**
[25] EN
[54] **DISINTEGRATABLE POLYMER COMPOSITES FOR DOWNHOLE TOOLS**
[54] **COMPOSITES POLYMERES DESAGREGEABLES POUR OUTILS DE FOND DE PUITS**
[72] KHATIWADA, SUMAN, US
[72] YUAN, YUSHENG, US
[72] SADANA, ANIL, US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2017-12-12
[86] 2016-05-11 (PCT/US2016/031846)
[87] (WO2016/204886)
[30] US (62/180,098) 2015-06-16

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[13] C
[51] **Int.Cl. C08L 79/00 (2006.01) C08L 79/02 (2006.01) C09D 179/00 (2006.01) C09D 179/02 (2006.01)**
[25] EN
[54] **QUICK-SETTING COATING COMPOSITIONS WITH LOW PH STABILITY AND WATER RESISTANCE**
[54] **COMPOSITIONS DE REVETEMENT A DURCISSEMENT RAPIDE, PRESENTANT DES CARACTERISTIQUES DE STABILITE D'UN PH FAIBLE ET DE RESISTANCE A L'EAU**
[72] GROVE, JEREMY L., US
[72] KIM, KYU-JUN, US
[72] HU, RONG, US
[72] DEVONPORT, WAYNE, US
[73] ARKEMA INC., US
[85] 2017-12-20
[86] 2016-06-16 (PCT/US2016/037753)
[87] (WO2016/209692)
[30] US (62/183,291) 2015-06-23
[30] US (62/319,476) 2016-04-07

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[13] C
[51] **Int.Cl. G01V 3/14 (2006.01) G01N 24/08 (2006.01) G01R 33/383 (2006.01) G01R 33/44 (2006.01)**
[25] EN
[54] **A MODIFIED HALBACH NMR ARRAY SENSOR FOR ANALYZING CORE OR FLUID SAMPLES FROM A SUBSURFACE FORMATION**
[54] **CAPTEUR DE RESEAU RMN DE TYPE HALBACH MODIFIE PERMETTANT D'ANALYSER DES ECHANTILLONS DE CAROTTE OU DE FLUIDE PROVENANT D'UNE FORMATION SOUTERRAINE**
[72] SELTZER, SCOTT JEFFREY, US
[72] WANG, HAIJING, US
[72] SUN, BOQIN, US
[73] CHEVRON U.S.A. INC., US
[85] 2017-12-20
[86] 2016-07-15 (PCT/US2016/042429)
[87] (WO2017/019326)
[30] US (14/811,906) 2015-07-29

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[13] C
[51] **Int.Cl. A61B 3/10 (2006.01) A61B 3/00 (2006.01) A61B 3/14 (2006.01)**
[25] EN
[54] **PURKINJE METER AND METHOD FOR AUTOMATIC EVALUATION**
[54] **PURKINJE-METRE ET PROCEDE D'EVALUATION AUTOMATIQUE**
[72] JANUNTS, EDGAR, DE
[72] PUTZU, DOMINIC, DE
[72] VAN BELLEN, JANINE, DE
[72] MOLLER, MICHAEL, DE
[72] LANGENBUCHER, ACHIM, DE
[73] JANUNTS HOLDING UG (HAFTUNGSBESCHRANKT), DE
[85] 2017-12-21
[86] 2016-06-28 (PCT/EP2016/065054)
[87] (WO2017/001426)
[30] DE (10 2015 110 456.3) 2015-06-29

[11] **2,990,719**
[13] C
[51] **Int.Cl. G06Q 30/00 (2023.01) G06Q 40/03 (2023.01)**
[25] EN
[54] **METHOD FOR ESTABLISHING INTERACTIVE BINDING RELATIONSHIP AND INTERACTIVE TERMINAL**
[54] **PROCEDE PERMETTANT D'ETABLIR UNE RELATION DE LIAISON INTERACTIVE, ET TERMINAL INTERACTIF**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2017-12-22
[86] 2015-06-30 (PCT/CN2015/082771)
[87] (WO2017/000172)

[11] **2,993,223**
[13] C
[51] **Int.Cl. A61C 7/00 (2006.01) A61C 7/12 (2006.01)**
[25] EN
[54] **ADJUSTABLE SEGMENTAL DISTALIZATION APPLIANCE FOR ORTHODONTIC TREATMENTS**
[54] **APPAREIL D'ECARTEMENT DISTAL SEGMENTAIRE AJUSTABLE DESTINE AUX TRAITEMENTS ORTHODONTIQUES**
[72] WARD, ROBERT, CA
[73] WARD, ROBERT, CA
[86] (2993223)
[87] (2993223)
[22] 2018-01-29
[30] US (62452010) 2017-01-30

[11] **2,993,351**
[13] C
[51] **Int.Cl. B01D 46/24 (2006.01)**
[25] EN
[54] **FILTER WITH PREFERENTIAL AIR FLOW**
[54] **FILTRE DOTE DE FLUX D'AIR PREFERENTIEL**
[72] GEORGE, JONATHAN ROBERT, CA
[72] LEO, ALFIN, CA
[73] PARKER-HANNIFIN CORPORATION, US
[85] 2018-01-22
[86] 2016-08-02 (PCT/US2016/045170)
[87] (WO2017/023936)
[30] US (62/200,253) 2015-08-03

[11] **2,993,525**
[13] C
[51] **Int.Cl. G06Q 20/08 (2012.01)**
[25] EN
[54] **METHOD, SYSTEM, AND APPARATUS FOR ALTERING ELECTRONIC CERTIFICATES AND PROCESSING DATA EXCHANGE**
[54] **PROCEDE, SYSTEME ET APPAREIL POUR MODIFIER DES CERTIFICATS ELECTRONIQUES ET TRAITER UN ECHANGE DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-01-22
[86] 2015-07-21 (PCT/CN2015/084563)
[87] (WO2017/011996)

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[13] C
[51] **Int.Cl. B01D 53/22 (2006.01) B01D 63/02 (2006.01) B01D 63/10 (2006.01) B01D 63/12 (2006.01) B01D 65/00 (2006.01)**
[25] EN
[54] **FLEXIBLY ADAPTABLE MEMBRANE CARTRIDGES FOR THE SEPARATION OF FLUIDS**
[54] **CARTOUCHES A MEMBRANES POUR LA SEPARATION DE FLUIDES POUVANT ETRE ADAPTEES DE MANIERE FLEXIBLE**
[72] VISSER, TYMEN, NL
[72] PEDERSEN, STEVEN K., CA
[73] EVONIK OPERATIONS GMBH, DE
[85] 2018-01-29
[86] 2016-07-18 (PCT/EP2016/067030)
[87] (WO2017/016913)
[30] EP (15179092.0) 2015-07-30

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[51] **Int.Cl. H04R 1/34 (2006.01) H04R 5/02 (2006.01) H04S 3/00 (2006.01) H04R 3/12 (2006.01)**
[25] EN
[54] **SOUNDBAR**
[54] **BARRE DE SON**
[72] WALTHER, ANDREAS, DE
[72] BORSS, CHRISTIAN, DE
[72] SCHNEIDER, MARTIN, DE
[72] GOETZ, PHILIPP, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2018-01-31
[86] 2016-07-21 (PCT/EP2016/067393)
[87] (WO2017/021162)
[30] EP (15179585.3) 2015-08-03

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[13] C
[51] **Int.Cl. B01J 8/36 (2006.01) B01J 8/00 (2006.01)**
[25] FR
[54] **DEVICE FOR INJECTING FLUIDS INTO THE FREE AREA OF A ROTATING FLUIDISED BED**
[54] **DISPOSITIF D'INJECTION DE FLUIDES DANS LA ZONE LIBRE D'UN LIT FLUIDIFIE ROTATIF**
[72] DE BROQUEVILLE, AXEL, BE
[73] DE BROQUEVILLE, AXEL, BE
[85] 2018-02-01
[86] 2016-08-02 (PCT/BE2016/000036)
[87] (WO2017/031556)
[30] BE (BE2015/0206) 2015-08-24

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[13] C
[51] **Int.Cl. G06Q 40/02 (2023.01) G06Q 30/0279 (2023.01)**
[25] EN
[54] **METHOD, DEVICE AND SYSTEM FOR OPENING ELECTRONIC CERTIFICATE**
[54] **PROCEDE, DISPOSITIF ET SYSTEME POUR OUVRIR UN CERTIFICAT ELECTRONIQUE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-02-06
[86] 2015-07-21 (PCT/CN2015/084658)
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[54] **ELECTRONIC-CERTIFICATE-BASED TRANSACTION METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE TRANSACTION BASES SUR UN CERTIFICAT ELECTRONIQUE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-02-16
[86] 2015-12-15 (PCT/CN2015/097384)
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[54] **METHOD AND PLANT FOR CO2 CAPTURE**
[54] **PROCEDE ET INSTALLATION DE CAPTURE DE CO2**
[72] HAMRIN, STELLAN, SE
[73] CAPSOL-EOP AS, NO
[85] 2018-02-21
[86] 2016-09-06 (PCT/EP2016/070974)
[87] (WO2017/042163)
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[54] **ZIEGLER-NATTA - METALLOCENE DUAL CATALYST SYSTEMS WITH ACTIVATOR-SUPPORTS**
[54] **SYSTEMES CATALYTIQUES DOUBLES ZIEGLER-NATTA - METALLOCENE**
[72] DING, ERRUN, US
[72] YANG, QING, US
[72] GUATNEY, LLOYD W, US
[72] GRECO, JEFFREY F, US
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2018-02-21
[86] 2016-09-21 (PCT/US2016/052803)
[87] (WO2017/053375)
[30] US (14/863,528) 2015-09-24

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[51] **Int.Cl. B64D 11/00 (2006.01) E05F 15/73 (2015.01) B62D 33/04 (2006.01) B64D 9/00 (2006.01)**
[25] EN
[54] **ILLUMINATED STOWAGE BIN ASSEMBLIES WITHIN VEHICLES**
[54] **ASSEMBLAGES DE BAC DE RANGEMENT ILLUMINE A L'INTERIEUR DES VEHICULES**
[72] SIMMS, RICHARD K., US
[72] DAME, STEPHEN G., US
[72] CLOUD, MARK L., US
[72] SMITH, TODD D., US
[73] THE BOEING COMPANY, US
[86] (2996557)
[87] (2996557)
[22] 2018-02-26
[30] US (62/469600) 2017-03-10
[30] US (15/623611) 2017-06-15

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[51] **Int.Cl. G06T 11/60 (2006.01) G06V 10/00 (2022.01) G06T 5/00 (2006.01)**
[25] EN
[54] **AUTOMATICALLY GENERATING IMAGE DATASETS FOR USE IN IMAGE RECOGNITION AND DETECTION**
[54] **GENERATION AUTOMATIQUE D'ENSEMBLES DE DONNEES IMAGE DESTINEE A LA RECONNAISSANCE ET LA DETECTION D'IMAGE**
[72] CHUNG, WONCHANG, CA
[72] MARQUIS BOLDUC, MATHIEU, CA
[72] DUPLESSIS, FRANCIS A., CA
[72] RAINY, JEFFREY, CA
[73] SERVICENOW CANADA INC., CA
[86] (2997335)
[87] (2997335)
[22] 2018-03-05

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[51] **Int.Cl. H04L 9/40 (2022.01) G06Q 20/38 (2012.01) G06Q 40/00 (2023.01) H04L 9/32 (2006.01)**
[25] EN
[54] **PROCESSING METHOD FOR ACQUIRING TARGET DATA, SERVER, AND ONLINE FUNDING METHOD**
[54] **PROCEDE DE TRAITEMENT POUR ACQUERIR DES DONNEES CIBLES, SERVEUR, ET PROCEDE DE FINANCEMENT EN LIGNE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-03-13
[86] 2015-09-16 (PCT/CN2015/089732)
[87] (WO2017/045154)

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[51] **Int.Cl. A61B 5/02 (2006.01) A61B 3/12 (2006.01) A61B 3/14 (2006.01) A61B 5/026 (2006.01) G02B 27/48 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RAPID EXAMINATION OF VASCULATURE AND PARTICULATE FLOW USING LASER SPECKLE CONTRAST IMAGING**
[54] **SYSTEME ET PROCEDE D'EXAMEN RAPIDE DU SYSTEME VASCULAIRE ET DE L'ECOULEMENT PARTICULAIRE A L'AIDE D'UNE IMAGERIE DE CONTRASTE A GRANULARITE LASER**
[72] REGE, ABHISHEK, US
[72] BROOKE, JASON M., US
[72] LIU, YUSI, US
[72] MURARI, KARTIKEYA, CA
[73] VASOPTIC MEDICAL, INC., US
[85] 2018-03-28
[86] 2016-10-07 (PCT/US2016/055976)
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[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **TRISPECIFIC MOLECULE COMBINING SPECIFIC TUMOR TARGETING AND LOCAL IMMUNE CHECKPOINT INHIBITION**
[54] **MOLECULE TRISPECIFIQUE COMBINANT UN CIBLAGE DE TUMEUR SPECIFIQUE ET UNE INHIBITION DE POINT DE CONTROLE IMMUNITAIRE LOCALE**
[72] HOPFNER, KARL-PETER, DE
[72] SUBKLEWE, MARION, DE
[72] MAGAUER, NADINE, DE
[72] FENN, NADJA, DE
[73] LUDWIG-MAXIMILIANS-UNIVERSITAT MUNCHEN, DE
[85] 2018-03-29
[86] 2016-11-09 (PCT/EP2016/077174)
[87] (WO2017/081101)
[30] EP (15193711.7) 2015-11-09

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[51] **Int.Cl. F01C 1/332 (2006.01) F01C 19/00 (2006.01) F01C 21/04 (2006.01)**
[25] EN
[54] **CONCENTRIC ROTARY ENGINE**
[54] **MOTEUR ROTATIF CONCENTRIQUE**
[72] MINH, NGUYEN V., CA
[73] MINH, NGUYEN V., CA
[86] (3002081)
[87] (3002081)
[22] 2018-04-18

[11] **3,003,667**
[13] C
[51] **Int.Cl. H04B 7/185 (2006.01) G01S 19/29 (2010.01) H04B 7/04 (2017.01)**
[25] EN
[54] **MOBILE SATELLITE COMMUNICATION SYSTEM**
[54] **SYSTEME DE TELECOMMUNICATION MOBILE PAR SATELLITE**
[72] MICHAELS, PARIS, AU
[73] MICHAELS, PARIS, AU
[85] 2018-04-30
[86] 2016-10-31 (PCT/IB2016/056568)
[87] (WO2017/072745)
[30] AU (2015/904471) 2015-10-30

[11] **3,004,185**
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[51] **Int.Cl. H04N 19/105 (2014.01) H04N 19/119 (2014.01) H04N 19/147 (2014.01) H04N 19/176 (2014.01) H04N 19/593 (2014.01)**
[25] EN
[54] **MULTI-REGION SEARCH RANGE FOR BLOCK PREDICTION MODE FOR DISPLAY STREAM COMPRESSION (DSC)**
[54] **PLAGE DE RECHERCHE MULTI-REGION POUR UN MODE DE PREDICTION DE BLOC POUR UNE COMPRESSION DE FLUX D'AFFICHAGE (DSC)**
[72] JACOBSON, NATAN HAIM, US
[72] THIRUMALAI, VIJAYARAGHAVAN, US
[72] JOSHI, RAJAN LAXMAN, US
[73] QUALCOMM INCORPORATED, US
[85] 2018-05-02
[86] 2016-12-06 (PCT/US2016/065186)
[87] (WO2017/100206)
[30] US (62/264,087) 2015-12-07
[30] US (62/304,879) 2016-03-07
[30] US (15/369,723) 2016-12-05

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[51] **Int.Cl. E04B 1/38 (2006.01) E04C 5/16 (2006.01) F16B 1/00 (2006.01) F16B 7/00 (2006.01)**
[25] EN
[54] **MULTIPLE PORT BEAM BRACKET**
[54] **SUPPORT DE POUTRE MULTI ORIFICE**
[72] FOX, SAMUEL, US
[73] FOX HARDWOOD LUMBER COMPANY, L.L.C., US
[86] (3007687)
[87] (3007687)
[22] 2018-06-08
[30] US (15/623,354) 2017-06-14

[11] **3,008,549**
[13] C
[51] **Int.Cl. A61C 8/00 (2006.01) A61C 13/08 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING A DENTAL STRUCTURE, DENTAL STRUCTURE OBTAINED AND DENTAL ASSEMBLY FORMED BY A STRUCTURE SCREWED ON A DENTAL IMPLANT**
[54] **PROCEDE POUR LA FABRICATION D'UNE STRUCTURE DENTAIRE, STRUCTURE DENTAIRE OBTENUE ET ENSEMBLE DENTAIRE FORME D'UNE STRUCTURE VISSEE SUR UN IMPLANT DENTAIRE**
[72] XAM-MAR MANGRANE, ESTEBAN, ES
[73] TALLADIUM ESPANA, S.L., ES
[85] 2018-06-14
[86] 2016-01-21 (PCT/ES2016/070030)
[87] (WO2017/125621)

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[13] C
[51] **Int.Cl. H04W 72/0446 (2023.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR GRANT PROCESSING**
[54] **PROCEDES ET APPAREIL DE TRAITEMENT D'AUTORISATION**
[72] LUO, TAO, US
[72] ANG, PETER PUI LOK, US
[72] JIANG, JING, US
[73] QUALCOMM INCORPORATED, US
[85] 2018-06-21
[86] 2016-12-06 (PCT/US2016/065211)
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[30] US (62/288,428) 2016-01-28
[30] US (15/269,743) 2016-09-19

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[25] EN
[54] **AIRPLANE TAKEOFF TRIMS UTILIZING STABILIZERS AND ELEVATORS**
[54] **GARNITURES DE DECOLLAGE D'AERONEF EMPLOYANT DES STABILISATEURS ET DES ELEVATEURS**
[72] LEE, JONATHAN P., US
[73] THE BOEING COMPANY, US
[86] (3009748)
[87] (3009748)
[22] 2018-06-27
[30] US (15/707,368) 2017-09-18

[11] **3,014,784**
[13] C
[51] **Int.Cl. G10L 19/022 (2013.01) G10L 19/008 (2013.01)**
[25] EN
[54] **MULTI CHANNEL CODING**
[54] **CODAGE A PLUSIEURS CANAUX**
[72] CHEBIYYAM, VENKATA SUBRAHMANYAM CHANDRA SEKHAR, US
[72] ATTI, VENKATRAMAN S., US
[73] QUALCOMM INCORPORATED, US
[85] 2018-08-15
[86] 2017-03-17 (PCT/US2017/023035)
[87] (WO2017/161315)
[30] US (62/310,635) 2016-03-18
[30] US (15/461,312) 2017-03-16

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[25] EN
[54] **PORES COMPRISING MUTANT CSGG MONOMERS**
[54] **PORES COMPRENANT DES MONOMERES CSGG MUTANTS**
[72] JAYASINGHE, LAKMAL, GB
[72] WALLACE, ELIZABETH JAYNE, GB
[73] OXFORD NANOPORE TECHNOLOGIES PLC, GB
[85] 2018-08-30
[86] 2017-03-02 (PCT/GB2017/050570)
[87] (WO2017/149317)
[30] GB (1603656.8) 2016-03-02
[30] GB (1603657.6) 2016-03-02
[30] GB (1603658.4) 2016-03-02

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[25] EN
[54] **DEVICE AND METHOD FOR CONTROLLED DISPENSING**
[54] **DISPOSITIF ET PROCEDE DE DISTRIBUTION REGULEE**
[72] DUVAL, JOHN A., US
[72] BENNETT, CLIFFORD D., US
[72] SOYFERTIS, DMITRY, US
[73] CUBEX LLC, US
[85] 2018-09-04
[86] 2016-03-16 (PCT/US2016/022691)
[87] (WO2016/149402)
[30] US (14/659,209) 2015-03-16

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[51] **Int.Cl. A61K 35/51 (2015.01) C12N 15/113 (2010.01) A61K 31/7105 (2006.01)**
[25] EN
[54] **USE OF UMBILICAL CORD BLOOD DERIVED EXOSOMES FOR TISSUE REPAIR**
[54] **UTILISATION D'EXOSOMES DERIVES DE SANG DE CORDON POUR LA REPARATION TISSULAIRE**
[72] FERREIRA, LINO DA SILVA, PT
[72] CORREIA, JOANA RITA SIMOES, PT
[72] CARDOSO, RENATO MANUEL SOARES, PT
[72] ANTUNES, MARIA HELENA HENRIQUES, PT
[73] STEMLAB, SA, PT
[73] BIOCANT - ASSOCIACAO DE TRANSFERENCIA DE TECNOLOGIA, PT
[85] 2018-09-14
[86] 2017-03-24 (PCT/IB2017/000412)
[87] (WO2017/163132)
[30] US (62/313,002) 2016-03-24
[30] US (62/336,907) 2016-05-16

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[13] C
[51] **Int.Cl. A61G 7/10 (2006.01) A47K 3/022 (2006.01) A61B 17/42 (2006.01) A61H 33/00 (2006.01)**
[25] EN
[54] **WATER BIRTHING APPARATUS**
[54] **APPAREIL D'ACCOUCHEMENT DANS L'EAU**
[72] MACBETH, MATTHEW, AU
[73] MACBETH, MATTHEW, AU
[85] 2018-09-18
[86] 2016-03-18 (PCT/AU2016/000093)
[87] (WO2016/149733)
[30] AU (2015901008) 2015-03-20

[11] **3,021,225**
[13] C
[51] **Int.Cl. H04W 56/00 (2009.01)**
[25] EN
[54] **CONVEYING HYPOTHESES THROUGH RESOURCE SELECTION OF SYNCHRONIZATION AND BROADCAST CHANNELS**
[54] **TRANSMISSION D'HYPOTHESES PAR SELECTION DE RESSOURCES DE CANAUX DE SYNCHRONISATION ET DE DIFFUSION**
[72] ISLAM, MUHAMMAD NAZMUL, US
[72] ABEDINI, NAVID, US
[72] LUO, TAO, US
[72] SUBRAMANIAN, SUNDAR, US
[72] CEZANNE, JUERGEN, US
[72] SAMPATH, ASHWIN, US
[72] GOROKHOV, ALEXEI YURIEVITCH, US
[72] LI, JUNYI, US
[72] SADIQ, BILAL, US
[73] QUALCOMM INCORPORATED, US
[85] 2018-10-16
[86] 2017-05-31 (PCT/US2017/035289)
[87] (WO2017/210345)
[30] US (62/344,381) 2016-06-01
[30] US (62/350,171) 2016-06-14
[30] US (62/401,801) 2016-09-29
[30] US (62/410,073) 2016-10-19
[30] US (15/608,887) 2017-05-30

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[13] C
[51] **Int.Cl. A01D 82/00 (2006.01) A01D 43/10 (2006.01)**
[25] EN
[54] **CONDITIONER UNIT**
[54] **UNITE DE CONDITIONNEMENT**
[72] BODE MORTENSEN, MARTIN, DK
[73] KVERNELAND GROUP KERTEMINDE AS, DK
[85] 2018-10-25
[86] 2017-04-26 (PCT/EP2017/059986)
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[30] GB (1607661.4) 2016-05-03

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[13] C
[51] **Int.Cl. C10G 55/04 (2006.01) C10G 55/06 (2006.01) C10G 67/02 (2006.01)**
[25] EN
[54] **A PROCESS FOR CONVERSION OF HIGH ACIDIC CRUDE OILS**
[54] **UN PROCEDE DE CONVERSION DE PETROLES BRUTS A TENEUR ELEVEE EN ACIDE**
[72] PRADEEP, PONOLY RAMACHANDRAN, IN
[72] DAS, SATYEN KUMAR, IN
[72] KOTTAKUNA, ARJUN KUMAR, IN
[72] RAJESH, IN
[72] P K, MAHENDRA, IN
[72] BHATTACHARYYA, DEBASIS, IN
[72] MAZUMDAR, SANJIV KUMAR, IN
[72] RAMAKUMAR, SANKARA SRI VENKATA, IN
[72] PRASAD, TERAPALLI HARI VENKATA DEVI, IN
[73] INDIAN OIL CORPORATION LIMITED, IN
[86] (3024814)
[87] (3024814)
[22] 2018-11-20
[30] IN (201821002414) 2018-01-20

[11] **3,025,846**
[13] C
[51] **Int.Cl. G06F 17/00 (2019.01)**
[25] EN
[54] **DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-11-28
[86] 2015-06-30 (PCT/CN2015/082803)
[87] (WO2017/000202)

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[13] C
[51] **Int.Cl. H05K 7/20 (2006.01)**
[25] EN
[54] **DATA CENTRE COOLING SYSTEM**
[54] **SYSTEME DE REFROIDISSEMENT DE CENTRE DE DONNEES**
[72] EDGE, ADRIAN, GB
[72] THORNTON, WILLIAM, GB
[73] BRIPCO BVBA, BE
[85] 2018-12-13
[86] 2016-06-23 (PCT/EP2016/064626)
[87] (WO2016/207323)
[30] GB (1511070.3) 2015-06-23

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[13] C
[51] **Int.Cl. B60N 2/30 (2006.01) B60R 5/04 (2006.01)**
[25] EN
[54] **PERSONAL TRANSPORTATION VEHICLE WITH PIVOTING SEAT AND CARGO BAY**
[54] **VEHICULE DE TRANSPORT PERSONNEL A SIEGE PIVOTANT ET PORTE DE CARGO**
[72] MCGRAW, GREGORY H., US
[72] REEVES, BILLY, JR., US
[72] BUTLER, JOSEPH MARK, US
[73] CLUB CAR, LLC, US
[86] (3030234)
[87] (3030234)
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[30] US (15/872,678) 2018-01-16

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[13] C
[51] **Int.Cl. G01N 33/28 (2006.01) G01N 1/20 (2006.01)**
[25] EN
[54] **CONDITIONING A SAMPLE TAKEN FROM A HYDROCARBON STREAM**
[54] **CONDITIONNEMENT D'UN ECHANTILLON PRELEVE A PARTIR D'UN FLUX D'HYDROCARBURES**
[72] ENGLISH, JASON, US
[72] HACKETT, CRAIG, US
[73] BP CORPORATION NORTH AMERICA INC., US
[85] 2019-01-09
[86] 2017-06-21 (PCT/US2017/038497)
[87] (WO2018/013306)
[30] US (62/362,150) 2016-07-14

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[13] C
[51] **Int.Cl. C12N 1/14 (2006.01) A23K 10/16 (2016.01) A61K 36/06 (2006.01) A61P 33/10 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING DUDDINGTONIA FLAGRANS**
[54] **COMPOSITION COMPRENANT DU DUDDINGTONIA FLAGRANS**
[72] HEALEY, KEVIN, AU
[72] LAWLOR, CHRIS, AU
[72] KNOX, MALCOLM, AU
[73] INTERNATIONAL ANIMAL HEALTH PRODUCTS PTY LTD, AU
[85] 2019-01-14
[86] 2017-07-25 (PCT/AU2017/050764)
[87] (WO2018/023151)
[30] AU (2016903096) 2016-08-05

[11] **3,031,118**
[13] C
[51] **Int.Cl. G06F 9/50 (2006.01) H04W 28/26 (2009.01) H04L 47/74 (2022.01) H04L 47/765 (2022.01) H04B 5/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ALLOCATING SHARED RESOURCES**
[54] **MECANISMES ET METHODES D'ATTRIBUTION DE RESSOURCES PARTAGEES**
[72] HARPER, GREGORY RICHARD, CA
[72] HORVATH, PETER, CA
[72] CARR, AUDREY MADELEINE, CA
[72] ALVES, ALINE DA ROSA, CA
[72] LI, VANESSA, CA
[72] ALLEN, LAWRENCE ANTHONY, CA
[72] LAM, KIMBERLY ELIZABETH, CA
[72] SHEN, MIN, CA
[72] THOMAS, RICHARD, CA
[72] MENDOZA, MELANIE JUDITH, CA
[72] ALLEN, TRICIA ELIZABETH, CA
[72] ANTONUCCI. ALEXANDRA, CA
[72] MOGHAIZEL, JOE, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (3031118)
[87] (3031118)
[22] 2019-01-23
[30] US (62/649,896) 2018-03-29

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[51] **Int.Cl. G06F 13/36 (2006.01) G06F 13/16 (2006.01) G06F 13/20 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **SYSTEMS, APPARATUSES AND METHODS FOR DUAL LINE INBOUND DETECTION ON A DATA COMMUNICATION BUS**
[54] **SYSTEMES, APPAREILS ET PROCEDES DE DETECTION DE TRANSMISSION ENTRANTE A DEUX LIGNES SUR UN BUS DE COMMUNICATION DE DONNEES**
[72] ILIJIC, NIK, AU
[72] JONES, ANDREW RHYDIAN, AU
[73] HUBBELL INCORPORATED, US
[85] 2019-01-18
[86] 2016-11-28 (PCT/US2016/063838)
[87] (WO2018/022126)
[30] US (62/367,266) 2016-07-27

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[51] **Int.Cl. B01D 53/86 (2006.01) F01N 3/08 (2006.01)**
[25] EN
[54] **EXHAUST GAS TREATMENT WITH WASTE HEAT RECOVERY AND NITROGEN OXIDE REMOVAL**
[54] **TRAITEMENT DES GAZ D'ECHAPPEMENT AU MOYEN DE LA RECUPERATION DE LA CHALEUR ET DE L'ELIMINATION DE L'OXYDE D'AZOTE**
[72] TANAKA, HIROSHI, JP
[72] HIRATA, TAKUYA, JP
[72] KAMIJO, TAKASHI, JP
[72] TSUJIUCHI, TATSUYA, JP
[73] MITSUBISHI HEAVY INDUSTRIES ENGINEERING, LTD., JP
[85] 2019-02-11
[86] 2018-02-20 (PCT/JP2018/005944)
[87] (WO2019/162991)

[11] **3,032,245**
[13] C
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **ON THE USAGE OF CONTROL RESOURCES FOR DATA TRANSMISSION**
[54] **UTILISATION DE RESSOURCES DE COMMANDE POUR LA TRANSMISSION DE DONNEES**
[72] PAJUKOSKI, KARI P., FI
[72] TIIROLA, ESA T., FI
[72] HAKOLA, SAMI-JUKKA, FI
[72] LAHETKANGAS, EEVA, FI
[73] NOKIA TECHNOLOGIES OY, FI
[85] 2019-01-28
[86] 2017-08-01 (PCT/IB2017/054707)
[87] (WO2018/025185)
[30] US (62/369,241) 2016-08-01

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[51] **Int.Cl. H04N 21/2383 (2011.01) H04N 19/40 (2014.01) G06F 16/955 (2019.01)**
[25] EN
[54] **REAL-TIME ADVERTISEMENT PREPARATION SYSTEM**
[54] **SYSTEME DE PREPARATION DE PUBLICITE EN TEMPS REEL**
[72] MILFORD, MATTHEW A., US
[72] DENIS, XAVIER P., US
[72] ROMRELL, DAVID A., US
[73] ARRIS ENTERPRISES LLC, US
[86] (3034846)
[87] (3034846)
[22] 2019-02-25
[30] US (62/634,328) 2018-02-23

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[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/27 (2019.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TRACKING, CAPTURING, AND SYNCHRONIZING ACTIVITY DATA ACROSS MULTIPLE DEVICES**
[54] **PROCEDE ET APPAREIL DE SUIVI, DE CAPTURE ET DE SYNCHRONISATION DE DONNEES D'ACTIVITE A TRAVERS DE MULTIPLES DISPOSITIFS**
[72] SHAABAN, AHMED FAROUK, US
[72] THANDRA, VENKAT, US
[73] FULCRUM GLOBAL TECHNOLOGIES INC., US
[85] 2019-02-27
[86] 2017-08-31 (PCT/US2017/049529)
[87] (WO2018/045126)
[30] US (15/253,639) 2016-08-31

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[13] C
[51] **Int.Cl. G01M 13/00 (2019.01) B03B 5/62 (2006.01) G01N 15/02 (2006.01)**
[25] EN
[54] **A PARTICLE SIZE TRACKING (PST) SYSTEM FOR PREDICTIVE MAINTENANCE, BATTERY TUNING AND MANIFOLD DISTRIBUTION COMPENSATION**
[54] **SYSTEME DE SUIVI DE LA TAILLE DE PARTICULE POUR LA MAINTENANCE PREVENTIVE, REGLAGE DE BATTERIE ET COMPENSATION DE DISTRIBUTION DE COLLECTEUR**
[72] DAVIS, MICHAEL A., US
[73] CIDRA CORPORATE SERVICES LLC, US
[85] 2019-03-20
[86] 2017-09-21 (PCT/US2017/052634)
[87] (WO2018/057689)
[30] US (62/397,601) 2016-09-21

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[25] EN
[54] **PRECOOLED AIR BREATHING ENGINE**
[54] **MOTEUR AEROBIE PRE-REFROIDI**
[72] DASS, PRADEEP, CA
[72] JOHANSEN, CRAIG, CA
[72] JAGANNATHAN, RANGESH, CA
[72] TRIVEDI, MAULIN, CA
[73] 1589549 ALBERTA LTD., CA
[85] 2019-05-06
[86] 2016-11-04 (PCT/CA2016/051289)
[87] (WO2017/075717)
[30] US (62/250,884) 2015-11-04

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[51] **Int.Cl. F02K 7/00 (2006.01) F02K 1/46 (2006.01) F15D 1/08 (2006.01)**
[25] EN
[54] **SUPPRESSION OF BOUNDARY LAYER SEPARATION IN AIR-BREATHING ENGINES**
[54] **SUPPRESSION DE SEPARATION DE COUCHE DE LIMITE DANS DES MOTEURS AEROBIE**
[72] DASS, PRADEEP, CA
[72] JOHANSEN, CRAIG, CA
[72] TEH, E. JIEH, CA
[73] 1589549 ALBERTA LTD., CA
[85] 2019-05-06
[86] 2016-11-04 (PCT/CA2016/051290)
[87] (WO2017/075718)
[30] US (62/250,914) 2015-11-04

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[25] EN
[54] **CONTROL OF PLAYER CHARACTER WITH ENHANCED MOTION FUNCTIONALITY**
[54] **CONTROLE DU PERSONNAGE JOUEUR AVEC FONCTION DE MOUVEMENT AMELIOREE**
[72] GUIMARAES, RANGNER FERRAZ, CA
[72] LIMA, RODRIGO BARROS, CA
[73] SQUARE ENIX LTD., GB
[86] (3044587)
[87] (3044587)
[22] 2019-05-28

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[51] **Int.Cl. B29C 59/16 (2006.01) B82Y 40/00 (2011.01) B81C 1/00 (2006.01) G02B 1/11 (2015.01) G02B 1/12 (2006.01) G02B 5/18 (2006.01) H01L 21/00 (2006.01)**
[25] EN
[54] **CONFIGURING OPTICAL LAYERS IN IMPRINT LITHOGRAPHY PROCESSES**
[54] **CONFIGURATION DE COUCHES OPTIQUES DANS DES PROCEDES DE LITHOGRAPHIE PAR IMPRESSION**
[72] SINGH, VIKRAMJIT, US
[72] MILLER, MICHAEL NEVIN, US
[72] XU, FRANK Y., US
[73] MOLECULAR IMPRINTS, INC., US
[85] 2019-05-27
[86] 2017-09-14 (PCT/US2017/051444)
[87] (WO2018/102002)
[30] US (62/429,214) 2016-12-02

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[51] **Int.Cl. B01D 53/14 (2006.01)**
[25] EN
[54] **TWO-STAGE ABSORPTION FOR ACID GAS AND MERCAPTAN REMOVAL**
[54] **ABSORPTION EN DEUX ETAPES POUR ELIMINATION DE GAZ ACIDE ET DE MERCAPTAN**
[72] VAN WAGENSVELD, STEVEN, US
[72] GRAHAM, CURT, US
[72] SCHULTE, DAVE, US
[72] LYNCH, BRYANT, US
[73] FLUOR TECHNOLOGIES CORPORATION, US
[85] 2019-06-19
[86] 2017-03-24 (PCT/US2017/024108)
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[30] US (62/457,015) 2017-02-09
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[25] EN
[54] **ADJUVANT TREATMENT OF HER2-POSITIVE BREAST CANCER**
[54] **TRAITEMENT PAR ADJUVANTS DU CANCER DU SEIN HER2 POSITIF**
[72] BENYUNES, MARK C., US
[72] ROSS, GRAHAM ALEXANDER, GB
[73] GENENTECH, INC., US
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2019-06-27
[86] 2018-02-28 (PCT/US2018/020154)
[87] (WO2018/160654)
[30] US (62/466,239) 2017-03-02
[30] US (62/469,317) 2017-03-09
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[25] EN
[54] **CATHETER**
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[72] BRIDGEMAN, JOHN, US
[72] JINDRA, DANIEL, US
[72] BO, PETER, US
[73] TELEFLEX LIFE SCIENCES LIMITED, MT
[86] (3050931)
[87] (3050931)
[22] 2018-06-06
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[25] EN
[54] **SLIDE RAIL ASSEMBLY AND LANDING GEAR ASSEMBLY WITH EMBEDDED HARDPOINT CONNECTORS**
[54] **ENSEMBLE RAIL COULISSANT ET ENSEMBLE DE TRAIN D`ATTERRISSAGE AVEC CONNECTEURS DE POINT D`ATTACHE INTEGRES**
[72] MCCLOUD, TRAVIS SMITH, US
[72] REICHARD, RONNAL P., US
[72] WYLEZINSKI, ANDRZEJ, US
[72] STORZ, SCOTT A., US
[73] WABASH NATIONAL, L.P., US
[86] (3051997)
[87] (3051997)
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[25] EN
[54] **SYSTEMS AND METHODS FOR ITEM DELIVERY USING ANONYMIZED DELIVERY POINTS**
[54] **SYSTEMES ET METHODES DE LIVRAISON D'ARTICLES EMPLOYANT LES POINTS DE LIVRAISON ANONYMES**
[72] MILLER, NAOMI, US
[72] DIXON, ROBERT E., JR., US
[72] REBLIN, GARY C., US
[73] UNITED STATES POSTAL SERVICE, US
[85] 2019-08-23
[86] 2019-04-02 (PCT/US2019/025434)
[87] (WO2019/195326)
[30] US (62/652,728) 2018-04-04
[30] US (62/732,894) 2018-09-18

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[54] **INVERSION PROCESSING OF WELL LOG DATA**
[54] **TRAITEMENT D'INVERSION DE DONNEES DE DIAGRAPHIE DE PUITS**
[72] WU, HSU-HSIANG, US
[72] WILSON, GLENN ANDREW, US
[72] SONG, RENCHENG, SG
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-08-16
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[54] **DRILLING SYSTEM AND MODULAR DRILLING HEAD FOR DEEP HOLE DRILLING**
[54] **SYSTEME DE FORAGE ET TETE DE FORAGE MODULAIRE POUR FORAGE A GRANDE PROFONDEUR**
[72] DELUCA, SALVATORE D., US
[72] DUMMERMUTH, LUCAS S., US
[72] DREHER, MICHAEL D., US
[73] ALLIED MACHINE & ENGINEERING CORP., US
[85] 2019-08-29
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[25] EN
[54] **PAYMENT SYSTEM BASED ON SHARED FUNDS-MANAGEMENT SERVER, AND METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR UN SERVEUR PARTAGE DE GESTION DE FONDS, ET PROCEDE, DISPOSITIF ET SERVEUR ASSOCIES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3055644)
[87] (3055644)
[22] 2015-05-28
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[25] EN
[54] **WATER FILTER**
[54] **FILTRE A EAU**
[72] HOLMEN, KRISTIAN, NO
[72] HOLMEN, SVEIN, NO
[73] MOSSHYDRO AS, NO
[85] 2019-10-09
[86] 2018-03-23 (PCT/EP2018/057516)
[87] (WO2018/188934)
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[51] **Int.Cl. A62C 27/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR RESPONSE VEHICLE PUMP CONTROL**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE POMPE DE VEHICULE D'INTERVENTION**
[72] LINSMEIER, ERIC R., US
[72] PILLER, BRIAN, US
[72] ARCHER, DAVID W., US
[72] DOLPHIN, CHAD T., US
[73] OSHKOSH CORPORATION, US
[85] 2019-10-10
[86] 2018-01-10 (PCT/US2018/013156)
[87] (WO2018/190923)
[30] US (15/487,146) 2017-04-13

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[51] **Int.Cl. B66B 9/08 (2006.01)**
[25] EN
[54] **METHOD OF PLANNING A PLATFORM LIFT**
[54] **PROCEDE DE PLANIFICATION DE PLATE-FORME ELEVATRICE**
[72] SCHIERENBECK, ANDREAS, DE
[72] FELIS, THOMAS, US
[72] SESMA SANCHEZ, FRANCISCO JAVIER, ES
[72] XU, JIE, US
[72] DE KLEER, PIETER-BAS, NL
[72] HERNANDEZ ALVAREZ, JONATAN, ES
[72] QUIROGA SANCHEZ, ANA BELEN, ES
[72] PEREZ PEREZ, MARCOS, ES
[73] TK ELEVATOR INNOVATION AND OPERATIONS GMBH, DE
[85] 2019-10-16
[86] 2018-04-19 (PCT/EP2018/060044)
[87] (WO2018/193034)
[30] US (62/487,624) 2017-04-20

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[13] C
[51] **Int.Cl. G06Q 20/08 (2012.01) G06Q 20/38 (2012.01)**
[25] EN
[54] **PAYMENT SYSTEM BASED ON DIFFERENT FUNDS SERVERS, AND PAYMENT METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT REPOSANT SUR DIFFERENTS SERVEURS DE FONDS, METHODE DE PAIEMENT, DISPOSITIF ET SERVEUR ASSOCIES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3061224)
[87] (3061224)
[22] 2015-04-30
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[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/172 (2006.01)**
[25] EN
[54] **WIRELESS COMMUNICATION FOR ON-BODY MEDICAL DEVICES**
[54] **COMMUNICATION SANS FIL POUR DES DISPOSITIFS MEDICAUX PORTES SUR LE CORPS**
[72] SEARLE, GARY, US
[72] BURNS, DEBORAH, US
[72] BURNS, BRUCE, US
[72] MASON, DAVID, US
[72] HWANG, CHARLES, US
[73] BECTON, DICKINSON AND COMPANY, US
[86] (3062048)
[87] (3062048)
[22] 2013-03-05
[62] 2,865,986
[30] US (61/606,929) 2012-03-05

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[51] **Int.Cl. B64D 29/06 (2006.01) E05B 15/04 (2006.01) E05C 3/12 (2006.01) E05C 19/02 (2006.01)**
[25] EN
[54] **PRESSURE RELIEF LATCH**
[54] **LOQUET DETENDEUR DE PRESSION**
[72] DO, THAI, US
[73] HOWMET AEROSPACE INC., US
[86] (3062203)
[87] (3062203)
[22] 2016-07-29
[62] 2,992,151
[30] US (62/200,971) 2015-08-04

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[51] **Int.Cl. H04W 52/18 (2009.01) H04W 52/14 (2009.01)**
[25] EN
[54] **METHOD OF POWER CONTROL FOR UPLINK TRANSMISSION**
[54] **PROCEDE DE COMMANDE DE PUISSANCE POUR UNE TRANSMISSION DE LIAISON MONTANTE**
[72] GONG, ZHENGWEI, CA
[72] MAAREF, AMINE, CA
[72] CAO, YU, CA
[72] ISLAM, TOUFIQUL, CA
[72] XIAO, WEIMIN, US
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-11-04
[86] 2018-04-28 (PCT/CN2018/085137)
[87] (WO2018/202014)
[30] US (62/502,396) 2017-05-05

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[51] **Int.Cl. B65D 6/16 (2006.01) B65D 6/02 (2006.01) B65D 19/12 (2006.01) B65D 19/16 (2006.01)**
[25] EN
[54] **A COLLAPSIBLE MULTI-TRAY PACKAGING WITH FLEXIBLE INSERT CELLS FOR TRANSPORT OF GOODS**
[54] **EMBALLAGE MULTIPLATEAUX PLIABLE DOTE DE CELLULES D`INSERTION FLEXIBLES POUR LE TRANSPORT DE MARCHANDISES**
[72] HERENYI, ANDREJ, CZ
[72] KNOB. JOSEF, CZ
[73] PPO GROUP CZ, S.R.O., CZ
[86] (3062498)
[87] (3062498)
[22] 2019-11-25
[30] CZ (CZ2019-36343) 2019-06-25

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[51] **Int.Cl. G01B 11/06 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR MEASURING A LAYER THICKNESS OF AN OBJECT**
[54] **PROCEDE ET DISPOSITIF POUR MESURER UNE EPAISSEUR DE COUCHE D'UN OBJET**
[72] LITTAU, BENJAMIN, DE
[72] SCHOBER, GIOVANNI, DE
[72] KREMLING, STEFAN, DE
[73] INOEX GMBH, DE
[85] 2019-11-05
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[25] EN
[54] **SYSTEM AND METHOD FOR PHOTO-BASED ESTIMATION WITH FRAUD PREVENTION**
[54] **SYSTEME ET METHODE D'ESTIMATION AXEE SUR LES PHOTOS AVEC PREVENTION DE LA FRAUDE**
[72] KURUVILLA, DENNY DEVASIA, CA
[72] GJINI, ESLI, CA
[72] REEVE, SARAH, CA
[72] SETO, JUSTIN, CA
[72] FETH, NAOMI SARAH, CA
[72] THAKUR, ANURAG, CA
[72] PANAG, HARJOT SINGH, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (3062665)
[87] (3062665)
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[25] EN
[54] **APPARATUS AND METHOD FOR PET WASTE CONTAINMENT AND DISPOSAL**
[54] **APPAREIL ET PROCEDE DE CONFINEMENT ET D'ELIMINATION DE DEJECTIONS D'ANIMAL DE COMPAGNIE**
[72] MARTIN, JOHN, US
[72] PALMER, PETER, US
[73] MICROFINE, INC., US
[85] 2019-10-29
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[51] **Int.Cl. G01V 1/28 (2006.01)**
[25] EN
[54] **FAULT DETECTION BASED ON SEISMIC DATA INTERPRETATION**
[54] **DETECTION DE FAILLES SUR LA BASE DE L'INTERPRETATION DE DONNEES SISMIQUES**
[72] MAO, YOULI, US
[72] MANDAPAKA, BHASKAR, US
[72] DEV, ASHWANI, US
[72] PRIYADARSHY, SATYAM, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2019-11-15
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[30] US (62/547,648) 2017-08-18

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[51] **Int.Cl. A61M 25/06 (2006.01) A61M 5/142 (2006.01) A61M 19/00 (2006.01)**
[25] EN
[54] **CONTINUOUS ANESTHESIA NERVE CONDUCTION APPARATUS, SYSTEM AND METHOD**
[54] **APPAREIL, SYSTEME ET METHODE D'ANESTHESIE CONTINUE DE LA CONDUCTION NERVEUSE**
[72] KOPACZ, DAN JOEL, US
[72] RAJENDRAN, SUNDAR, US
[73] SOLO-DEX, INC., US
[86] (3065357)
[87] (3065357)
[22] 2012-05-18
[62] 2,835,354
[30] US (61/487,555) 2011-05-18
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[25] EN
[54] **DEVICE FOR ENDOVASCULAR AORTIC REPAIR AND METHOD OF USING THE SAME**
[54] **DISPOSITIF POUR UNE REPARATION AORTIQUE ENDOVASCULAIRE ET PROCEDE D'UTILISATION DU DISPOSITIF**
[72] SHAHRIARI, ALI, US
[73] AORTIC INNOVATIONS LLC, US
[86] (3066306)
[87] (3066306)
[22] 2012-12-06
[62] 3,051,684
[30] US (61/567,458) 2011-12-06
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[51] **Int.Cl. H04W 16/14 (2009.01) H04W 36/14 (2009.01) H04W 84/02 (2009.01) H04W 88/06 (2009.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR DYNAMIC CONTROL OF CONNECTIONS TO CO-EXISTING RADIO ACCESS NETWORKS**
[54] **PROCEDES ET APPAREIL DE COMMANDE DYNAMIQUE DE CONNEXIONS A DES RESEAUX D'ACCES RADIO CO-EXISTANTS**
[72] GUNASEKARA, DON, US
[72] DIVVI, VENKATA RAMANA, US
[72] BENCHEIKH, AHMED, US
[73] CHARTER COMMUNICATIONS OPERATING, LLC, US
[85] 2019-12-06
[86] 2018-05-30 (PCT/US2018/035221)
[87] (WO2018/226486)
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[25] EN
[54] **DETECTOR WITH REDUCED FLUORESCENCE RANGE NOISE**
[54] **DETECTEUR A BRUIT DE PLAGE DE FLUORESCENCE REDUIT**
[72] FUNG, TRACY H., US
[72] SABOUNCHI, POORYA, US
[72] HIRSCHBEIN, BERNARD, US
[72] PINTO, JOSEPH, US
[72] KHURANA, TARUN, US
[72] SMITH, RANDALL, US
[72] FENG, WENYI, US
[73] ILLUMINA, INC., US
[85] 2019-12-12
[86] 2018-11-30 (PCT/US2018/063395)
[87] (WO2019/133182)
[30] US (62/611,464) 2017-12-28
[30] US (62/644,804) 2018-03-19

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[13] C
[51] **Int.Cl. H02B 1/30 (2006.01) H02B 1/38 (2006.01) H02J 3/06 (2006.01)**
[25] EN
[54] **ELECTRICAL DOCKING STATION**
[54] **STATION D`ACCUEIL ELECTRIQUE**
[72] SUNDE, JONATHAN A., US
[72] SMITH, JARED A., US
[72] HEBEL, GRIFFIN A., US
[73] TRYSTAR, LLC, US
[86] (3067399)
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[22] 2019-11-29
[30] US (62/773,556) 2018-11-30
[30] US (16/698,667) 2019-11-27

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[51] **Int.Cl. H01R 13/639 (2006.01) H01R 13/658 (2011.01) H01R 13/66 (2006.01)**
[25] EN
[54] **INTELLIGENT POWER LINE AND HOME APPLIANCE PROVIDED WITH SAME**
[54] **LIGNE ELECTRIQUE INTELLIGENTE ET APPAREIL MENAGER L'UTILISANT**
[72] TIAN, YUN, CN
[72] HUANG, PEILIN, CN
[72] JIN, GUANGHAI, CN
[72] HU, QIONG, CN
[73] GUANGDONG MIDEA KITCHEN APPLIANCES MANUFACTURING CO., LTD., CN
[73] MIDEA GROUP CO., LTD., CN
[85] 2020-01-10
[86] 2017-12-28 (PCT/CN2017/119512)
[87] (WO2019/061917)
[30] CN (201710915303.X) 2017-09-30

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[51] **Int.Cl. B61L 15/00 (2006.01)**
[25] EN
[54] **A CABLE ASSEMBLY FOR ACCESSING DATA FROM A FIELDBUS IN ROLLING STOCK**
[54] **ENSEMBLE CABLE POUR ACCEDER A DES DONNEES A PARTIR D'UN BUS DE TERRAIN DANS UN MATERIEL ROULANT**
[72] MOUSSET, CHARLES-HENRI, BE
[73] RAILNOVA SA, BE
[85] 2020-01-17
[86] 2018-07-19 (PCT/EP2018/069651)
[87] (WO2019/029970)
[30] EP (17185376.5) 2017-08-08

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[13] C
[51] **Int.Cl. B65D 30/20 (2006.01) B65D 33/08 (2006.01) B65D 71/06 (2006.01)**
[25] EN
[54] **CONVERTIBLE BEVERAGE CONTAINER PACKAGE HAVING AN INTEGRATED COOLER COMPARTMENT**
[54] **EMBALLAGE DE RECIPIENTS DE BOISSON CONVERTIBLE A COMPARTIMENT GLACIERE INTEGRE**
[72] KELLY, JASON M., US
[72] SMITH, HERBERT BRUCE, CA
[72] HO FUNG, CHARLES, US
[72] MCKNIGHT, DARIN, US
[72] HAAS, ERIC A., US
[73] COORS BREWING COMPANY, US
[85] 2020-01-21
[86] 2018-07-20 (PCT/US2018/042985)
[87] (WO2019/018708)
[30] US (62/535,562) 2017-07-21

[11] **3,070,867**
[13] C
[51] **Int.Cl. B26D 7/26 (2006.01) B26D 1/36 (2006.01)**
[25] EN
[54] **KNIFE ASSEMBLIES FOR SLICING MACHINES AND MACHINES EQUIPPED THEREWITH**
[54] **ENSEMBLES COUTEAUX DESTINES A DES MACHINES A TRANCHER ET MACHINES DOTEES DE CES DERNIERS**
[72] BAXTER, COREY EVERETTE, US
[72] JACKO, MICHAEL SCOT, US
[72] RUST, RYAN ANDREW, US
[72] BARBER, KEITH ALAN, US
[73] URSCHEL LABORATORIES, INC., US
[73] PEPSICO, INC., US
[85] 2020-01-22
[86] 2019-01-04 (PCT/US2019/012377)
[87] (WO2019/136270)
[30] US (62/613,840) 2018-01-05

[11] **3,071,302**
[13] C
[51] **Int.Cl. E04B 2/88 (2006.01) E04F 13/072 (2006.01)**
[25] EN
[54] **EXTERIOR WALL PANEL ASSEMBLIES**
[54] **PANNEAUX MURAUX EXTERIEURS**
[72] STRICKLAND, MICHAEL R., CA
[73] INVENT TO BUILD INC., CA
[86] (3071302)
[87] (3071302)
[22] 2020-02-06
[30] US (62/802,552) 2019-02-07
[30] US (62/849,696) 2019-05-17

[11] **3,073,512**
[13] C
[51] **Int.Cl. A61M 5/315 (2006.01)**
[25] EN
[54] **DOSE DETECTION MODULE FOR A MEDICATION DELIVERY DEVICE**
[54] **MODULE DE DETECTION DE DOSE POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**
[72] ANTONELLI, MATTHEW THOMAS, US
[72] BURKE, WILLIAM CHURCHILL TALIAFERRO, US
[72] BYERLY, ROY HOWARD, US
[72] MCCASLIN, CHRISTOPHER ROBERT, US
[72] PEASE, ETHAN EDWARD, US
[72] RITSHER, KENNETH ALAN, US
[73] ELI LILLY AND COMPANY, US
[85] 2020-02-20
[86] 2018-02-22 (PCT/US2018/019108)
[87] (WO2019/040117)
[30] US (62/547,962) 2017-08-21

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[13] C
[51] **Int.Cl. E04B 2/88 (2006.01) E04B 1/66 (2006.01) E04B 1/68 (2006.01)**
[25] EN
[54] **WET SEAL SYSTEM**
[54] **SYSTEME DE JOINT D'ETANCHEITE HUMIDE**
[72] STRICKLAND, MICHAEL R., CA
[73] INVENT TO BUILD INC., CA
[85] 2020-02-21
[86] 2018-09-11 (PCT/CA2018/051118)
[87] (WO2019/046971)
[30] US (62/556,861) 2017-09-11
[30] US (62/648,754) 2018-03-27
[30] US (62/714,022) 2018-08-02

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[13] C
[51] **Int.Cl. A61M 5/315 (2006.01) A61M 5/31 (2006.01)**
[25] EN
[54] **DOSE DETECTION WITH PIEZOELECTRIC SENSING FOR A MEDICATION DELIVERY DEVICE**
[54] **DETECTION DE DOSE AVEC DETECTION PIEZOELECTRIQUE POUR UN DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**
[72] KATUIN, JOSEPH EDWARD, US
[72] PSZENNY, SEAN MATTHEW, US
[73] ELI LILLY AND COMPANY, US
[85] 2020-02-21
[86] 2018-08-22 (PCT/US2018/047442)
[87] (WO2019/046053)
[30] US (62/552,659) 2017-08-31

[11] **3,076,236**
[13] C
[51] **Int.Cl. G06F 9/4401 (2018.01) G06F 9/451 (2018.01)**
[25] EN
[54] **REMOTELY CONTROLLED TECHNICIAN SURROGATE DEVICE**
[54] **DISPOSITIF SUBSTITUE AU TECHNICIEN A COMMANDE A DISTANCE**
[72] LEFEBVRE, JEREMY, CA
[72] STUBBS, JOSEPH JONATHAN, CA
[72] MCMULLIN, GREGORY THOMAS, CA
[73] INFINITY TRIBE GROUP INC., CA
[85] 2020-03-17
[86] 2018-09-20 (PCT/US2018/051935)
[87] (WO2019/060534)
[30] US (62/560,704) 2017-09-20
[30] US (62/560,707) 2017-09-20
[30] US (62/560,708) 2017-09-20
[30] US (62/560,710) 2017-09-20

[11] **3,076,475**
[13] C
[51] **Int.Cl. H04W 72/23 (2023.01) H04W 72/21 (2023.01)**
[25] EN
[54] **ARRANGEMENT OF PHASE TRACKING REFERENCE SIGNAL IN RADIO FRAME**
[54] **DISPOSITION DE SUIVI PAR PHASE DU SIGNAL DE REFERENCE DANS UNE TRAME RADIO**
[72] SAITO, KEISUKE, JP
[72] TAKEDA, KAZUAKI, JP
[72] NAGATA, SATOSHI, JP
[72] KAKISHIMA, YUICHI, US
[73] NTT DOCOMO, INC., JP
[85] 2020-03-19
[86] 2017-09-25 (PCT/JP2017/034508)
[87] (WO2019/058548)

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[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/12 (2012.01)**
[25] EN
[54] **NETWORK TRANSACTION PAYMENT METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE PAIEMENT DE TRANSACTION DE RESEAU**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3077167)
[87] (3077167)
[22] 2015-04-30
[62] 2,986,821

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[51] **Int.Cl. H04H 60/02 (2009.01) H04H 60/25 (2009.01)**
[25] EN
[54] **APPARATUS FOR TRANSMITTING BROADCAST SIGNAL, APPARATUS FOR RECEIVING BROADCAST SIGNAL, METHOD FOR TRANSMITTING BROADCAST SIGNAL, AND METHOD FOR RECEIVING BROADCAST SIGNAL**
[54] **APPAREIL POUR EMETTRE UN SIGNAL DE DIFFUSION, APPAREIL POUR RECEVOIR UN SIGNAL DE DIFFUSION, PROCEDE POUR EMETTRE UN SIGNAL DE DIFFUSION ET PROCEDE POUR RECEVOIR UN SIGNAL DE DIFF USION**
[72] KWAK, MINSUNG, KR
[72] YANG, SEUNGRYUL, KR
[72] MOON, KYOUNGSOO, KR
[72] KO, WOOSUK, KR
[72] HONG, SUNGRYONG, KR
[73] LG ELECTRONICS INC., KR
[86] (3077439)
[87] (3077439)
[22] 2015-04-27
[62] 2,941,597
[30] US (61/984,854) 2014-04-27
[30] US (61/991,624) 2014-05-12
[30] US (62/000,515) 2014-05-19
[30] US (62/003,039) 2014-05-27

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[51] **Int.Cl. E04C 2/04 (2006.01) B28B 1/29 (2006.01) B32B 3/02 (2006.01) B32B 13/08 (2006.01) B32B 37/15 (2006.01) B32B 38/10 (2006.01) E04B 1/86 (2006.01)**
[25] EN
[54] **TAPERED PLASTERBOARDS AND METHODS FOR MAKING THEM**
[54] **PLAQUES DE PLATRE EFFILEES ET LEURS PROCEDES DE FABRICATION**
[72] BRIDENSTINE, JOHN, US
[72] RILEY, CHRISTOPHER G., US
[72] DIMITRAKOPOULOS, JAMES, US
[73] CERTAINTEED GYPSUM, INC., US
[85] 2020-03-30
[86] 2018-09-28 (PCT/US2018/053584)
[87] (WO2019/068008)
[30] US (62/566,381) 2017-09-30

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[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) B32B 27/34 (2006.01) B32B 27/36 (2006.01) B65D 65/00 (2006.01)**
[25] EN
[54] **LAMINATE STRUCTURE FOR BARRIER PACKAGING**
[54] **STRUCTURE STRATIFIEE DESTINEE A UN EMBALLAGE BARRIERE**
[72] BLOK, JAKOB ROBERT, CH
[72] VON KIRCHBACH, HANS PAUL HENNING, NL
[72] KARSTEN, PETRUS JOHANNES ANTONIUS, NL
[73] RENOLIT SE, DE
[85] 2020-04-20
[86] 2018-10-04 (PCT/EP2018/077009)
[87] (WO2019/081175)
[30] EP (17198034.5) 2017-10-24

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[13] C
[51] **Int.Cl. B01D 61/14 (2006.01) B01D 61/18 (2006.01) B01D 61/20 (2006.01)**
[25] EN
[54] **CONTINUOUS DIAFILTRATION BY MEANS OF TANK CYCLING**
[54] **DIAFILTRATION CONTINUE AU MOYEN D'UN CYCLAGE DE RESERVOIR**
[72] GOODRICH, ELIZABETH M., US
[72] GUPTA, AKSHAT, US
[72] LUTZ, HERBERT, US
[73] EMD MILLIPORE CORPORATION, US
[85] 2020-04-28
[86] 2018-11-01 (PCT/US2018/058660)
[87] (WO2019/094249)
[30] US (62/585,132) 2017-11-13

[11] **3,080,878**
[13] C
[51] **Int.Cl. A47K 5/00 (2006.01) A47K 1/08 (2006.01)**
[25] EN
[54] **SOAP DISPENSER FOR USE IN HOTEL BATHROOM**
[54] **DISTRIBUTEUR DE SAVON A UTILISER DANS UNE SALLE DE BAIN D`HOTEL**
[72] LI, JINGJING, CN
[72] CHEN, MINGYANG, CN
[72] LUO, AIJUN, CN
[73] JIANGSU OPPEAL DAILY COSMETICS CORP., LTD, CN
[86] (3080878)
[87] (3080878)
[22] 2020-05-13
[30] CN (201921754263.6) 2019-10-18

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[13] C
[51] **Int.Cl. G06Q 10/083 (2023.01) G06T 7/62 (2017.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MOBILE PARCEL DIMENSION CALCULATION AND PREDICTIVE CONDITION ANALYSIS**
[54] **SYSTEMES ET PROCEDES DE CALCUL DE DIMENSION DE COLIS MOBILES ET D'ANALYSE DE CONDITIONS PREDICTIVES**
[72] GOJA, ASHEEH, US
[72] ALMBERG, ERIC, US
[73] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2020-05-05
[86] 2019-01-14 (PCT/US2019/013508)
[87] (WO2019/140395)
[30] US (62/616,855) 2018-01-12
[30] US (16/245,916) 2019-01-11

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[11] **3,084,073**
[13] C
[51] **Int.Cl. C07D 495/04 (2006.01)**
[25] EN
[54] **SALTS OF 4-AMINO-N-(1-((3-CHLORO-2-FLUOROPHENYL)AMINO)-6-METHYLISOQUINOLIN-5-YL)THIENO[3,2-D]PYRIMIDINE-7-CARBOXAMIDE, AND CRYSTALLINE FORMS THEREOF**
[54] **SELS DE 4-AMINO-N- (1-((3-CHLORO-2-FLUOROPHENYL) AMINO)-6-METHYLISOQUINOLINE-5-YL) THIENO [3,2-D] PYRIMIDINE-7-CARBOXAMIDE ET LEURS FORMES CRISTALLINES**
[72] PARK, CHANG HEE, KR
[72] JUNG, SEUNG HYUN, KR
[72] AHN, YOUNG GIL, KR
[72] SUH, KWEE HYUN, KR
[73] HANMI PHARM. CO., LTD., KR
[85] 2020-05-29
[86] 2018-11-29 (PCT/KR2018/014968)
[87] (WO2019/107971)
[30] US (62/592,676) 2017-11-30

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[51] **Int.Cl. C02F 1/44 (2006.01) B01D 61/02 (2006.01) B01D 61/04 (2006.01) B01D 61/12 (2006.01) B01D 61/58 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING PRODUCED WATER**
[54] **PROCEDE DE TRAITEMENT D'EAU PRODUITE**
[72] KORPIEL, JOHN, US
[72] NAGGHAPPAN, LNSP, US
[72] BIAGINI, BRAD, US
[73] VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT, FR
[85] 2020-06-04
[86] 2018-12-03 (PCT/US2018/063564)
[87] (WO2019/112933)
[30] US (62/595,806) 2017-12-07

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[13] C
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **ELECTRONIC ATOMIZING DEVICE AND ATOMIZER THEREOF**
[54] **DISPOSITIF DE VAPORISATION ELECTRONIQUE ET VAPORISATEUR CONNEXE**
[72] CHEN, SHOUHAO, CN
[73] SHENZHEN SMOORE TECHNOLOGY LIMITED, CN
[86] (3085674)
[87] (3085674)
[22] 2020-07-03
[30] CN (201921042335.4) 2019-07-04

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[13] C
[51] **Int.Cl. A24F 47/00 (2020.01) H04W 4/029 (2018.01) H04W 4/80 (2018.01) A61M 15/06 (2006.01) G01S 5/00 (2006.01) G01S 5/18 (2006.01)**
[25] EN
[54] **APPARATUS FOR LOCATING AN AEROSOL GENERATION DEVICE**
[54] **APPAREIL DE LOCALISATION D'UN DISPOSITIF PRODUISANT UN AEROSOL**
[72] ESTRIPEAU, FREDERIC CLAUDE HERVE, FR
[73] JT INTERNATIONAL SA, CH
[85] 2020-06-18
[86] 2018-12-18 (PCT/EP2018/085644)
[87] (WO2019/121778)
[30] EP (17208194.5) 2017-12-18

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[13] C
[51] **Int.Cl. A61F 2/32 (2006.01) A61B 17/17 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **HIP JOINT DEVICE, SYSTEM AND METHOD**
[54] **DISPOSITIF DE PROTHESE DE HANCHE, SYSTEME ET METHODE**
[72] FORSELL, PETER, CH
[73] IMPLANTICA PATENT LTD., MT
[86] (3086872)
[87] (3086872)
[22] 2010-07-12
[62] 2,983,754
[30] SE (0900957-2) 2009-07-10
[30] SE (0900958-0) 2009-07-10
[30] SE (0900978-8) 2009-07-10
[30] SE (0900976-2) 2009-07-10
[30] SE (0900974-7) 2009-07-10
[30] SE (0900973-9) 2009-07-10
[30] SE (0900972-1) 2009-07-10
[30] SE (0900970-5) 2009-07-10
[30] SE (0900969-7) 2009-07-10
[30] SE (0900968-9) 2009-07-10
[30] SE (0900966-3) 2009-07-10
[30] SE (0900965-5) 2009-07-10
[30] SE (0900963-0) 2009-07-10
[30] SE (0900962-2) 2009-07-10
[30] SE (0900960-6) 2009-07-10
[30] SE (0900959-8) 2009-07-10
[30] SE (0900981-2) 2009-07-10
[30] US (61/229,735) 2009-07-30
[30] US (61/229,796) 2009-07-30
[30] US (61/229,789) 2009-07-30
[30] US (61/229,786) 2009-07-30
[30] US (61/229,738) 2009-07-30
[30] US (61/229,778) 2009-07-30
[30] US (61/229,767) 2009-07-30
[30] US (61/229,761) 2009-07-30
[30] US (61/229,755) 2009-07-30
[30] US (61/229,752) 2009-07-30
[30] US (61/229,751) 2009-07-30
[30] US (61/229,748) 2009-07-30
[30] US (61/229,747) 2009-07-30
[30] US (61/229,746) 2009-07-30
[30] US (61/229,745) 2009-07-30
[30] US (61/229,743) 2009-07-30
[30] US (61/229,739) 2009-07-30

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[13] C
[51] **Int.Cl. E21B 17/04 (2006.01) E21B 17/18 (2006.01)**
[25] EN
[54] **JUMPER TUBE SUPPORT MEMBER**
[54] **ELEMENT DE SUPPORT DE BRETELLE FLEXIBLE**
[72] ER, BOON YEN, SG
[72] NOVELEN, RYAN MICHAEL, US
[72] GOMMEL, MATTHEW, US
[72] WRIGHT, AUSTIN LEE, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-06-25
[86] 2019-01-23 (PCT/US2019/014675)
[87] (WO2019/156810)
[30] US (62/628,775) 2018-02-09

[11] **3,088,628**
[13] C
[51] **Int.Cl. E04G 9/02 (2006.01) E04G 9/08 (2006.01) E04G 13/02 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR MOLDING STRUCTURES**
[54] **SYSTEMES, DISPOSITIFS, ET PROCEDES SERVANT A MOULER DES STRUCTURES**
[72] LANE, KEVIN, US
[73] CREATE A CASTLE, LLC, US
[85] 2020-07-15
[86] 2018-01-18 (PCT/US2018/014293)
[87] (WO2018/136674)
[30] US (62/447,496) 2017-01-18
[30] US (29/630,894) 2017-12-22
[30] US (29/630,901) 2017-12-22
[30] US (29/630,919) 2017-12-22
[30] US (29/630,914) 2017-12-22
[30] US (29/630,909) 2017-12-22
[30] US (29/630,922) 2017-12-22

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[13] C
[51] **Int.Cl. G06F 16/33 (2019.01) G06F 16/2457 (2019.01) G06F 16/338 (2019.01) G06F 16/38 (2019.01) G06N 20/00 (2019.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DECODING USER INTENT FROM NATURAL LANGUAGE QUERIES**
[54] **PROCEDE ET SYSTEME DE DECODAGE D'INTENTION D'UTILISATEUR A PARTIR DE REQUETES EN LANGAGE NATUREL**
[72] PODGORNY, IGOR, US
[72] SHARAFI, FARAZ, US
[72] CANNON, MATTHEW, US
[72] CARVALHO, VITOR, US
[73] INTUIT INC., US
[85] 2020-07-15
[86] 2019-07-25 (PCT/US2019/043497)
[87] (WO2020/086131)
[30] US (16/170,585) 2018-10-25

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[13] C
[51] **Int.Cl. H04L 47/10 (2022.01)**
[25] EN
[54] **PACKET SENDING METHOD AND RELATED DEVICE**
[54] **PROCEDE D'ENVOI DE PAQUETS DE DONNEES ET DISPOSITIF ASSOCIE**
[72] ZHU, JIANJIAN, CN
[72] DENG, YU, CN
[72] LIU, WEI, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-08-11
[86] 2019-01-25 (PCT/CN2019/073261)
[87] (WO2019/154134)
[30] CN (201810148231.5) 2018-02-12

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[13] C
[51] **Int.Cl. E21B 41/00 (2006.01)**
[25] EN
[54] **PETROLEUM RESERVOIR BEHAVIOR PREDICTION USING A PROXY FLOW MODEL**
[54] **PREDICTION DE COMPORTEMENT DE RESERVOIR DE PETROLE AU MOYEN D'UN MODELE D'ECOULEMENT DE SUBSTITUTION**
[72] MADASU, SRINATH, US
[72] ZAGAYEVSKIY, YEVGENIY, US
[72] WONG, TERRY, US
[72] CAMILLERI, DOMINIC, US
[72] WANG, CHARLES HAI, US
[72] BECK, COURTNEY LEEANN, US
[72] MAO, HANZI, US
[72] DONG, HUI, US
[72] VORA, HARSH BIREN, US
[73] LANDMARK GRAPHICS CORPORATON, US
[85] 2020-08-11
[86] 2018-05-15 (PCT/US2018/032816)
[87] (WO2019/221717)

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[13] C
[51] **Int.Cl. C08J 5/18 (2006.01) G02B 1/14 (2015.01) C08L 67/02 (2006.01) G02B 27/28 (2006.01)**
[25] EN
[54] **PROTECTIVE FILM, AND METHOD AND APPARATUS FOR CUTTING PROTECTIVE FILM**
[54] **FILM PROTECTEUR ET PROCEDE ET DISPOSITIF DE COUPE DE FILM PROTECTEUR**
[72] LIN, JIAO, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-08-26
[86] 2019-02-13 (PCT/CN2019/074920)
[87] (WO2019/158065)
[30] CN (201810150575.X) 2018-02-13
[30] CN (201810170848.7) 2018-03-01

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[13] C
[51] **Int.Cl. H02J 13/00 (2006.01) H02H 3/06 (2006.01) H02J 3/38 (2006.01)**
[25] EN
[54] **UTILITY DISTRIBUTION FAULT RESTORATION SYSTEM**
[54] **SYSTEME DE RETABLISSEMENT DE COURANT APRES DEFAILLANCE D`UN SYSTEME DE DISTRIBUTION DE SERVICE**
[72] PORTER, DAVID, US
[72] MEISINGER, MICHAEL, US
[72] BISHOP, MARTIN, US
[72] WILLIAMS, STEPHEN, US
[73] S&C ELECTRIC COMPANY, US
[86] (3092041)
[87] (3092041)
[22] 2020-09-03
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[25] EN
[54] **METHOD FOR REMOVING FLUORIDE FROM A ZINC-CONTAINING SOLUTION OR SUSPENSION, DEFLUORIDATED ZINC SULFATE SOLUTION AND USE THEREOF, AND METHOD FOR PRODUCING ZINC AND HYDROGEN FLUORIDE OR HYDROFLUORIC ACID**
[54] **PROCEDE POUR ELIMINER LE FLUORURE D'UNE SOLUTION OU SUSPENSION CONTENANT DU ZINC, SOLUTION DE SULFATE DE ZINC DEFLUORE ET SON UTILISATION AINSI QUE PROCEDE POUR PRODUIRE DU ZINC ET DU FLUORURE D'HYDROGENE OU DE L'ACIDE FLUORHYDRIQUE**
[72] LUDEWIG, FRITZ, AT
[72] STEINLECHNER, STEFAN, AT
[72] ANTREKOWITSCH, JURGEN, AT
[73] MONTANUNIVERSITAT LEOBEN, AT
[85] 2020-08-28
[86] 2017-04-06 (PCT/EP2017/058303)
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[25] EN
[54] **PV MODULE MOUNTING ASSEMBLY WITH CLAMP/STANDOFF ARRANGEMENT**
[54] **ENSEMBLE DE MONTAGE DE MODULE PHOTOVOLTAIQUE, DOTE D'AGENCEMENT D'ELEMENT DE SERRAGE/DOUILLE-ENTRETOISE**
[72] HADDOCK, DUSTIN M.M., US
[72] HOLLEY, NIKOLAUS JO, US
[72] LEITCH, PAUL BENJAMIN, US
[73] RMH TECH LLC, US
[85] 2020-09-18
[86] 2019-03-21 (PCT/US2019/023423)
[87] (WO2019/183388)
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[25] EN
[54] **METAL SUPPORTED POWDER CATALYST MATRIX AND PROCESSES FOR MULTIPHASE CHEMICAL REACTIONS**
[54] **MATRICE DE CATALYSEUR EN POUDRE A SUPPORT METALLIQUE ET PROCESSUS POUR DES REACTIONS CHIMIQUES MULTI-PHASES**
[72] HARP, GARY P., US
[72] KNOPF, JEFFREY A., JR., US
[72] NAPIER, WILLIAM J., III, US
[73] W. L. GORE & ASSOCIATES, INC., US
[85] 2020-09-23
[86] 2018-04-11 (PCT/US2018/027020)
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[13] C
[51] **Int.Cl. C12N 1/20 (2006.01) A23K 10/18 (2016.01) B01D 53/84 (2006.01)**
[25] EN
[54] **BACILLUS SUBTILIS CJBS303 AND COMPOSITION COMPRISING SAME**
[54] **BACILLUS SUBTILIS CJBS303 ET COMPOSITION LE COMPRENANT**
[72] KIM, YU JIN, KR
[72] PARK, MIN AH, KR
[72] OH, EUN SEON, KR
[72] WOO, SEO HYUNG, KR
[73] CJ CHEILJEDANG CORPORATION, KR
[85] 2020-09-25
[86] 2020-01-03 (PCT/KR2020/000133)
[87] (WO2020/179999)
[30] KR (10-2019-0026476) 2019-03-07
[30] KR (10-2020-0000489) 2020-01-02

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[13] C
[51] **Int.Cl. C07D 215/233 (2006.01) A61K 31/4709 (2006.01)**
[25] EN
[54] **QUINOLINE OR QUINAZOLINE COMPOUND AND APPLICATION THEREOF**
[54] **COMPOSE DE QUINOLEINE OU DE QUINAZOLINE ET UTILISATION ASSOCIEE**
[72] DING, KE, CN
[72] GENG, MEIYU, CN
[72] CHAN, SHINGPAN, CN
[72] DING, JIAN, CN
[72] TAN, LI, CN
[72] AI, JING, CN
[72] ZHANG, ZHANG, CN
[72] PENG, XIA, CN
[72] REN, XIAOMEI, CN
[72] JI, YINCHUN, CN
[72] TU, ZHENGCHAO, CN
[72] DAI, YANG, CN
[72] LU, XIAOYUN, CN
[73] JINAN UNIVERSITY, CN
[73] SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES, CN
[73] HAIHE BIOPHARMA CO., LTD., CN
[85] 2020-09-28
[86] 2019-03-29 (PCT/CN2019/080659)
[87] (WO2019/185064)
[30] CN (201810277244.2) 2018-03-30

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[13] C
[51] **Int.Cl. G10L 19/008 (2013.01) G10L 25/06 (2013.01)**
[25] EN
[54] **APPARATUS, METHOD OR COMPUTER PROGRAM FOR ESTIMATING AN INTER-CHANNEL TIME DIFFERENCE**
[54] **APPAREIL, PROCEDE OU PROGRAMME D'ORDINATEUR POUR ESTIMER UNE DIFFERENCE DE TEMPS ENTRE CANAUX**
[72] FOTOPOULOU, ELENI, DE
[72] BUETHE, JAN, DE
[72] RAVELLI, EMMANUEL, DE
[72] MABEN, PALLAVI, DE
[72] DIETZ, MARTIN, DE
[72] REUTELHUBER, FRANZ, DE
[72] DOEHLA, STEFAN, DE
[72] KORSE, SRIKANTH, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2020-10-02
[86] 2019-04-03 (PCT/EP2019/058434)
[87] (WO2019/193070)
[30] EP (18165882.4) 2018-04-05

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[13] C
[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/315 (2006.01)**
[25] EN
[54] **STATUS SENSING SYSTEM FOR INJECTION DEVICE**
[54] **SYSTEME DE DETECTION D'ETAT POUR DISPOSITIF D'INJECTION**
[72] KOURTIS, LAMPROS, US
[72] PSZENNY, SEAN MATTHEW, US
[72] REGELE, OLIVER BRIAN, US
[73] ELI LILLY AND COMPANY, US
[85] 2020-10-09
[86] 2019-04-12 (PCT/US2019/027125)
[87] (WO2019/204133)
[30] US (62/659,883) 2018-04-19

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[13] C
[51] **Int.Cl. F16L 11/08 (2006.01) B32B 1/00 (2006.01) F16L 11/12 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT HOSE**
[54] **TUYAU SOUPLE DE FAIBLE POIDS**
[72] BLOCK, ANDREW P., US
[72] STOKES, STEVE, US
[73] LAWN & GARDEN, LLC, US
[85] 2020-10-13
[86] 2019-04-25 (PCT/IB2019/053429)
[87] (WO2019/207530)
[30] US (62/663,634) 2018-04-27

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[13] C
[51] **Int.Cl. H04W 72/40 (2023.01) H04W 72/25 (2023.01) H04W 4/40 (2018.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR SIDELINK COMMUNICATIONS AND RESOURCE ALLOCATION**
[54] **PROCEDES ET APPAREIL DE COMMUNICATION DE LIAISON LATERALE ET D'ATTRIBUTION DE RESSOURCES**
[72] CAO, YU, CA
[72] MAAREF, AMINE, CA
[72] MA, JIANGLEI, CA
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-10-28
[86] 2019-04-26 (PCT/CN2019/084540)
[87] (WO2019/210811)
[30] US (62/665,286) 2018-05-01
[30] US (16/392,827) 2019-04-24

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[13] C
[51] **Int.Cl. H01M 50/469 (2021.01) H01M 50/107 (2021.01) H01M 6/02 (2006.01)**
[25] EN
[54] **ELECTROCHEMICAL CELL SEPARATOR**
[54] **SEPARATEUR DE CELLULE ELECTROCHIMIQUE**
[72] KALISZ, DAVID WALTER, US
[72] VERIKAKIS, MARIA G., US
[72] BOLYOS, CHRISTOPHER S., US
[73] ENERGIZER BRANDS, LLC, US
[85] 2020-10-30
[86] 2019-06-12 (PCT/US2019/036781)
[87] (WO2019/245823)
[30] US (62/687,509) 2018-06-20

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[13] C
[51] **Int.Cl. G16H 40/60 (2018.01)**
[25] EN
[54] **MEDICAL DEVICE DATA MANAGEMENT CONFIGURATION SYSTEMS AND METHODS OF USE**
[54] **SYSTEMES DE CONFIGURATION DE GESTION DE DONNEES DE DISPOSITIF MEDICAL ET PROCEDES D'UTILISATION**
[72] AYSIN, BENHUR, US
[72] CHITTAJALLU, SIVA, US
[72] FLIS, MICHAEL, US
[72] LONG, JAMES, US
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2020-11-03
[86] 2019-05-22 (PCT/US2019/033446)
[87] (WO2019/226728)
[30] US (15/986,979) 2018-05-23

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[13] C
[51] **Int.Cl. H04L 9/40 (2022.01) H04L 67/14 (2022.01)**
[25] EN
[54] **CONNECTING CLIENT DEVICES TO ANONYMOUS SESSIONS VIA HELPERS**
[54] **CONNEXION DE DISPOSITIFS CLIENTS A DES SESSIONS ANONYMES VIA DES ASSISTANTS**
[72] FROST, SIMON, US
[72] CHARNELL, WILLIAM THOMAS GEORGE, US
[72] INNES, ANDREW, US
[73] CITRIX SYSTEMS, INC., US
[85] 2020-11-10
[86] 2019-05-02 (PCT/US2019/030394)
[87] (WO2019/217197)
[30] US (15/976,980) 2018-05-11

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[51] **Int.Cl. E21B 17/10 (2006.01) E21B 34/06 (2006.01) E21B 43/04 (2006.01) E21B 43/08 (2006.01) E21B 43/10 (2006.01)**
[25] EN
[54] **ELECTRONIC FLOW CONTROL NODE TO AID GRAVEL PACK & ELIMINATE WASH PIPE**
[54] **N□UD DE COMMANDE D'ECOULEMENT ELECTRONIQUE POUR AIDER LE FILTRAGE AUX GRAVIERS ET ELIMINER UN TUYAU DE LAVAGE**
[72] FRIPP, MICHAEL LINLEY, US
[72] GRECI, STEPHEN MICHAEL, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-11-23
[86] 2019-06-11 (PCT/US2019/036560)
[87] (WO2020/018199)
[30] US (62/700,787) 2018-07-19

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[51] **Int.Cl. B08B 9/053 (2006.01) B08B 9/055 (2006.01) B08B 9/057 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD OF CLEANING FIRED HEATER COILS**
[54] **SYSTEME ET PROCEDE DE NETTOYAGE DE SERPENTINS DE DISPOSITIF DE CHAUFFAGE A COMBUSTION**
[72] DE LORENZO, ROBERT VICTOR, US
[72] MAYER, PHILIPP, US
[72] VAN TOOR, ARIE JACOBUS, US
[72] VAN VEEN, BENJAMIN DAVID, US
[72] HAUGEN, TIMOTHY, US
[73] QUEST INTEGRITY GROUP, LLC, US
[85] 2020-11-24
[86] 2019-05-24 (PCT/US2019/034021)
[87] (WO2019/227058)
[30] US (62/676,355) 2018-05-25

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[51] **Int.Cl. B28B 23/00 (2006.01) E04B 1/41 (2006.01) E04B 2/86 (2006.01) E04G 11/08 (2006.01) E04G 17/06 (2006.01) F16B 35/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR FORMING VOIDS IN CONCRETE**
[54] **DISPOSITIF ET PROCEDE DE FORMATION DE VIDES DANS DU BETON**
[72] ROSSART, RAELENE MARIE, US
[73] RAISE THE BAR DETAILING, US
[85] 2020-11-25
[86] 2019-06-19 (PCT/US2019/037982)
[87] (WO2019/246259)
[30] US (62/688,844) 2018-06-22

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[13] C
[51] **Int.Cl. F21S 8/02 (2006.01) F21V 29/74 (2015.01) F21K 9/00 (2016.01) F21V 13/02 (2006.01) F21V 21/04 (2006.01) F21V 23/00 (2015.01) F21V 23/06 (2006.01)**
[25] EN
[54] **LIGHTING MODULE FOR RECESSED LIGHTING SYSTEMS**
[54] **MODULE D'ECLAIRAGE POUR SYSTEMES D'ECLAIRAGE ENCASTRES**
[72] BAILEY, MICHAEL D., US
[72] DANESH, MICHAEL D., US
[73] DMF, INC., US
[86] (3102022)
[87] (3102022)
[22] 2016-05-27
[62] 2,931,588
[30] US (62/168,510) 2015-05-29

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[13] C
[51] **Int.Cl. E06B 9/54 (2006.01) E05F 15/643 (2015.01) E05B 47/00 (2006.01) E05B 63/00 (2006.01) E05B 63/06 (2006.01) E05B 65/08 (2006.01) E05C 19/00 (2006.01) E05D 15/06 (2006.01) E05C 7/00 (2006.01)**
[25] EN
[54] **FRAMEWORK WITH IN-BUILT ANTI-POLLEN/MOSQUITO NET**
[54] **HUISSERIE AVEC FILET ANTI-MOUSTIQUES/ANTI-POLLEN INTEGRE**
[72] MACHADO RAINHA, HUGO MIGUEL, PT
[73] BBG, S.A., PT
[85] 2020-12-02
[86] 2018-06-07 (PCT/PT2018/050024)
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[13] C
[51] **Int.Cl. G06Q 20/38 (2012.01)**
[25] EN
[54] **METHOD AND DEVICE FOR REJECTING RECEIPT OF CERTIFICATE**
[54] **PROCEDE ET DISPOSITIF PERMETTANT DE REJETER LA RECEPTION D'UN CERTIFICAT**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3102854)
[87] (3102854)
[22] 2015-07-21
[62] 2,994,577

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[51] **Int.Cl. H02M 7/48 (2007.01)**
[25] EN
[54] **POWER CONVERSION DEVICE**
[54] **DISPOSITIF DE CONVERSION DE PUISSANCE**
[72] YAMAMOTO, YUSHIN, JP
[72] OGASAWARA, SATOSHI, JP
[72] OHARA, SHUNSUKE, JP
[73] TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION, JP
[73] NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, JP
[85] 2020-12-08
[86] 2019-03-07 (PCT/JP2019/009163)
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[51] **Int.Cl. H04L 1/22 (2006.01) H04W 28/04 (2009.01) H03M 13/11 (2006.01) H03M 13/27 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR ENCODING AND DECODING LOW DENSITY PARITY CHECK CODES**
[54] **PROCEDE ET APPAREIL DE CODAGE ET DE DECODAGE DE CONTROLE DE PARITE A FAIBLE DENSITE**
[72] JEONG, HONG-SIL, KR
[72] KIM, KYUNG-JOONG, KR
[72] MYUNG, SE-HO, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[86] (3103110)
[87] (3103110)
[22] 2014-06-13
[62] 2,915,740
[30] US (61/835,096) 2013-06-14
[30] US (61/841,502) 2013-07-01
[30] US (61/862,208) 2013-08-05
[30] KR (10-2014-0058599) 2014-05-15

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[13] C
[51] **Int.Cl. B01F 35/82 (2022.01) B01F 23/451 (2022.01) B01F 35/213 (2022.01) G05D 11/13 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR INLINE MIXING OF HYDROCARBON LIQUIDS BASED ON DENSITY OR GRAVITY**
[54] **METHODES ET SYSTEMES POUR LE MELANGE EN CONDUITE DE LIQUIDES D`HYDROCARBURES EN FONCTION DE LA DENSITE OU DE LA GRAVITE**
[72] MILLER, KYLE E., US
[73] MARATHON PETROLEUM COMPANY LP, US
[86] (3103413)
[87] (3103413)
[22] 2020-12-21
[30] US (17/247,700) 2020-12-21
[30] US (62/954,960) 2019-12-30
[30] US (62/705,538) 2020-07-02
[30] US (63/198.356) 2020-10-13

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[51] **Int.Cl. C23C 22/00 (2006.01) C23C 22/30 (2006.01)**
[25] EN
[54] **ELECTRICAL STEEL SHEET WITH INSULATING FILM AND METHOD FOR MANUFACTURING THE SAME**
[54] **TOLE D'ACIER ELECTROMAGNETIQUE SUR LAQUELLE EST FIXE UN FILM DE REVETEMENT ISOLANT, ET PROCEDE POUR LA PRODUIRE**
[72] TADA, CHIYOKO, JP
[72] NAKAGAWA, NOBUKO, JP
[72] WADA, TAKASHI, JP
[72] TSUJI, SHOTA, JP
[72] MURAMATSU, NAOKI, JP
[73] JFE STEEL CORPORATION, JP
[85] 2020-12-22
[86] 2019-07-08 (PCT/JP2019/026919)
[87] (WO2020/049854)
[30] JP (2018-164344) 2018-09-03

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[13] C
[51] **Int.Cl. C09K 8/524 (2006.01) C09K 8/58 (2006.01) E21B 43/16 (2006.01)**
[25] EN
[54] **METHODS OF USING IONIC LIQUIDS AS PARAFFIN INHIBITORS, POUR POINT DEPRESSANTS AND COLD FLOW IMPROVERS**
[54] **PROCEDES D'UTILISATION DE LIQUIDES IONIQUES EN TANT QU'INHIBITEURS DE PARAFFINE, AMELIORANTS DE POINT D'ECOULEMENT ET D'ECOULEMENT A FROID**
[72] WEERS, JERRY, US
[73] BAKER HUGHES HOLDINGS LLC, US
[85] 2020-12-23
[86] 2019-07-11 (PCT/US2019/041473)
[87] (WO2020/014529)
[30] US (62/696,544) 2018-07-11

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[13] C
[51] **Int.Cl. E21B 33/035 (2006.01) E21B 43/01 (2006.01)**
[25] EN
[54] **APPARATUS, METHOD, AND PROGRAM FOR ESTIMATING A STATE OF A NATURAL RESOURCE TO BE EXTRACTED**
[54] **APPAREIL, PROCEDE, ET PROGRAMME POUR ESTIMER UN ETAT D'UNE RESSOURCE NATURELLE A EXTRAIRE**
[72] HIDAKA, YOSHIHISA, JP
[72] OKABE, NOBUO, JP
[72] YOSHIMA, NAOKI, JP
[73] YOKOGAWA ELECTRIC CORPORATION, JP
[85] 2020-12-29
[86] 2019-07-08 (PCT/JP2019/027061)
[87] (WO2020/013146)
[30] JP (2018-133509) 2018-07-13

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[13] C
[51] **Int.Cl. C07C 5/25 (2006.01) B01D 3/12 (2006.01) C07C 7/04 (2006.01) C08F 10/10 (2006.01)**
[25] EN
[54] **PROCESSES FOR THE MANUFACTURE OF ISOBUTYLENE, POLYISOBUTYLENE, AND DERIVATIVES THEREOF**
[54] **PROCESSUS DE FABRICATION D'ISOBUTYLENE, DE POLYISOBUTYLENE ET DE LEURS DERIVES**
[72] BAXTER, CLYDE EDWARD, JR., US
[73] NTP TEC, LLC, US
[85] 2020-12-29
[86] 2019-06-28 (PCT/US2019/039869)
[87] (WO2020/006437)
[30] US (62/763,714) 2018-06-29
[30] US (62/763,982) 2018-07-13

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[13] C
[51] **Int.Cl. G06F 21/10 (2013.01) G06F 21/60 (2013.01) G06F 21/64 (2013.01) H04L 9/32 (2006.01)**
[25] EN
[54] **A METHOD AND SYSTEM FOR MANAGING DIGITAL EVIDENCE USING A BLOCKCHAIN**
[54] **PROCEDE ET SYSTEME DE GESTION DE PREUVE NUMERIQUE A L'AIDE D'UNE CHAINE DE BLOCS**
[72] SACHS, PAUL, GB
[73] THOMSON REUTERS ENTERPRISE CENTRE GMBH, CH
[85] 2021-01-05
[86] 2019-06-28 (PCT/GB2019/051851)
[87] (WO2020/012156)
[30] GB (1811263.1) 2018-07-10

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[13] C
[51] **Int.Cl. H04N 19/159 (2014.01) H04N 19/117 (2014.01) H04N 19/176 (2014.01) H04N 19/182 (2014.01) H04N 19/186 (2014.01) H04N 19/80 (2014.01) H04N 19/86 (2014.01) G06T 9/00 (2006.01)**
[25] EN
[54] **MOVING IMAGE ENCODING DEVICE, MOVING IMAGE DECODING DEVICE, MOVING IMAGE CODING METHOD, AND MOVING IMAGE DECODING METHOD**
[54] **APPAREIL DE CODAGE DE VIDEO ANIMEE, APPAREIL DE DECODAGE DE VIDEO ANIMEE, PROCEDE DE CODAGE DE VIDEO ANIMEE ET PROCEDE DE DECODAGE DE VIDEO ANIMEE**
[72] MINEZAWA, AKIRA, JP
[72] SEKIGUCHI, SHUNICHI, JP
[72] SUGIMOTO, KAZUO, JP
[73] MITSUBISHI ELECTRIC CORPORATION, JP
[86] (3105771)
[87] (3105771)
[22] 2011-07-21
[62] 3,052,614
[30] JP (2010-221471) 2010-09-30

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[13] C
[51] **Int.Cl. B65B 51/10 (2006.01) B31B 50/64 (2017.01) B65D 75/36 (2006.01) B65B 47/02 (2006.01)**
[25] EN
[54] **HEAT PLATE LOCK ASSEMBLY FOR A HEAT SEALING MACHINE**
[54] **ASSEMBLAGE DE VERROUILLAGE DE PLAQUE CHAUFFANTE POUR UNE MACHINE A SCELLER A CHAUD**
[72] WORDEN, RONALD F., US
[73] SONOCO DEVELOPMENT, INC., US
[86] (3106187)
[87] (3106187)
[22] 2021-01-15
[30] US (16/786,002) 2020-02-10

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[13] C
[51] **Int.Cl. B65B 43/34 (2006.01) B65B 35/30 (2006.01) B65B 39/12 (2006.01) B65B 43/12 (2006.01) B65B 43/26 (2006.01)**
[25] EN
[54] **APPARATUSES, SYSTEMS, AND METHODS FOR THE AUTOMATED DISPENSING OF AND PACKAGING OF ARTICLES**
[54] **APPAREILS, SYSTEMES ET PROCEDES POUR LA DISTRIBUTION AUTOMATISEE ET L'EMBALLAGE D'ARTICLES**
[72] WHITE, DAVID J., US
[72] BRAUN, PATRICK J., US
[73] OMNICELL, INC., US
[85] 2021-01-22
[86] 2020-06-18 (PCT/US2020/038357)
[87] (WO2020/263666)
[30] US (16/456,636) 2019-06-28

[11] **3,108,002**
[13] C
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/216 (2014.01) A63F 13/30 (2014.01) A63F 13/85 (2014.01)**
[25] EN
[54] **ATTRACT BASED ON MOBILE DEVICE**
[54] **ATTRAIT FONDE SUR L'APPAREIL MOBILE**
[72] NELSON, DWAYNE R., US
[72] LEMAY, STEVEN G., US
[73] IGT, US
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[54] **SYSTEM AND METHOD FOR GENERATING AND REFINING CYBER THREAT INTELLIGENCE DATA**
[54] **SYSTEME ET PROCEDE DE PRODUCTION ET DE RAFFINAGE DES DONNEES SUR LES CYBERMENACES**
[72] MACAULAY, TYSON, CA
[73] BCE INC., CA
[86] (3108494)
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[54] **TRIPOD FISHING ROD HOLDER AND PROTECTIVE STORAGE TUBE**
[54] **SUPPORT DE CANNE A PECHE A TREPIED ET TUBE DE STOCKAGE PROTECTEUR**
[72] KREVALD, WALTER K., US
[73] KREVALD, WALTER K., US
[85] 2021-02-05
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[25] EN
[54] **DATA DRIVEN SPEECH ENABLED SELF-HELP SYSTEMS AND METHODS OF OPERATING THEREOF**
[54] **SYSTEMES D'AUTO-ASSISTANCE ACTIVES PAR LA PAROLE ET DIRIGES PAR LES DONNEES ET PROCEDES DE FONCTIONNEMENT DE CES DERNIERS**
[72] LEV, YONI, US
[72] TAPUHI, TAMIR, US
[72] FAIZAKOF, AVRAHAM, US
[72] LEV-TOV, AMIR, US
[72] KONIG, YOCHAI, US
[73] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US
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[25] EN
[54] **PREPARATION OF INTERMEDIATE USEFUL FOR SYNTHESIS OF A DIPHENYLMETHANE DERIVATIVE FOR USE AS A SGLT INHIBITOR**
[54] **PREPARATION D'UN INTERMEDIAIRE UTILE POUR LA SYNTHESE D'UN DERIVE DE DIPHENYLMETHANE A UTILISER COMME INHIBITEUR DU SGLT**
[72] LI, QING RI, KR
[72] YOON, HEE KYOON, KR
[73] DAEWOONG PHARMACEUTICAL CO., LTD., KR
[85] 2021-02-08
[86] 2019-08-09 (PCT/KR2019/010123)
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[54] **SIGNAL TRANSMISSION METHOD, TERMINAL DEVICE AND NETWORK DEVICE**
[54] **PROCEDE D'EMISSION DE SIGNAUX, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-02-12
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[54] **NANOPOROUS WICK AND OPEN-CELLULAR POROUS STRUCTURES AND METHOD OF MANUFACTURE**
[54] **STRUCTURES POREUSES A CELLULES OUVERTES DE MECHES NANOPOREUSES ET PROCEDE DE FABRICATION**
[72] STARKOVICH, JOHN A., US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2021-02-16
[86] 2019-07-16 (PCT/US2019/041960)
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[51] **Int.Cl. B21C 23/20 (2006.01) B65D 35/06 (2006.01)**
[25] EN
[54] **CAN PACKAGING, CAN PACKAGING BLANK AND DEVICE AND METHOD FOR ITS PRODUCTION**
[54] **EMBALLAGE DE CANNETTE, FLAN D'EMBALLAGE DE CANNETTE ET DISPOSITIF ET METHODE DE PRODUCTION**
[72] EBNER, STEPHAN, DE
[72] GROSS, GUSTAV-KONSTANTIN, DE
[73] LINHARDT GMBH & CO. KG, DE
[85] 2021-02-16
[86] 2019-08-07 (PCT/EP2019/071219)
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[54] **SERVICE POOL ARCHITECTURE FOR MULTITENANT SERVICES TO SUPPORT CANARY RELEASE**
[54] **ARCHITECTURE DE GROUPE DE SERVICES POUR SERVICES A LOCATAIRES MULTIPLES DESTINEE A PRENDRE EN CHARGE UNE VERSION CANARI**
[72] WOODMANSEE, KEVIN, US
[72] SINGLETON, LEO C., IV, US
[72] SEENIRAJ, SAM ARUN, US
[73] CITRIX SYSTEMS, INC., US
[85] 2021-02-16
[86] 2019-08-22 (PCT/US2019/047663)
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[25] EN
[54] **COLD-ROLLED FLAT STEEL PRODUCT FOR PACKAGING MATERIALS**
[54] **PRODUIT D'ACIER PLAT LAMINE A FROID POUR DES MATERIAUX D'EMBALLAGE**
[72] KAUP, BURKHARD, DE
[72] MASSICOT, BLAISE, DE
[72] HEINE, LUISA-MARIE, DE
[73] THYSSENKRUPP RASSELSTEIN GMBH, DE
[86] (3110988)
[87] (3110988)
[22] 2021-03-03
[30] DE (10 2020 106 164.1) 2020-03-06

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[25] EN
[54] **ANNULAR SAFETY VALVE**
[54] **SOUPAPE DE SECURITE ANNULAIRE**
[72] BROWN, IRVINE CARDNO, GB
[72] TAYLOR, RONALD GEORGE, GB
[72] DAVIES, KATHERINE ANN, GB
[72] INGLIS, PETER DEREK WALTER, GB
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-02-26
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[30] US (62/773,640) 2018-11-30
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[25] EN
[54] **CONSTANT FORCE MULTIPLE SPRING CURTAIN WINDING SYSTEM**
[54] **SYSTEME D'ENROULEMENT DE STORE A RESSORTS MULTIPLES DE FORCE CONSTANTE**
[72] ZHANG, NIANQING, CN
[72] WEI, SHEHUA, CN
[73] MINGYANG WINDECO TECHNOLOGY CORPORATION, CN
[86] (3111944)
[87] (3111944)
[22] 2021-03-12
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[25] EN
[54] **ELECTRIC SUBMERSIBLE PUMP WITH DISCHARGE RECYCLE**
[54] **POMPE ELECTRIQUE IMMERGEE A RECYCLAGE DU REFOULEMENT**
[72] DINKINS, WALTER, US
[72] HOUSTON, DAVID, US
[72] BROWN, DONN J., US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-03-08
[86] 2018-10-03 (PCT/US2018/054245)
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[54] **METHODS AND SYSTEMS FOR TIME-SHIFTING CONTENT**
[54] **PROCEDES ET SYSTEMES POUR CONTENU A DECALAGE DANS LE TEMPS**
[72] HOLDEN, DANIAL, US
[72] URQUHART, VIRGIL BOYETTE, US
[72] ROBERTS, NEAL, US
[73] COMCAST CABLE COMMUNICATIONS, LLC, US
[86] (3112184)
[87] (3112184)
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[25] EN
[54] **SYSTEMS AND METHODS FOR DISPLAYING PATIENT DATA**
[54] **SYSTEMES ET PROCEDES D'AFFICHAGE DE DONNEES D'UN PATIENT**
[72] MOORE, STEPHEN TREY, US
[72] WADE, THOMAS SCOTT, US
[72] BROWN, LLOYD KORY, US
[72] POWELL, WILLIAM CAMERON, US
[72] BLAKE, DANIEL LEE, US
[72] MCQUEEN, NEIL R., US
[72] PEDRAZA, AUGUSTINE VIDAL, IV, US
[72] PORTELA, ALAN WILLIAMS, US
[73] AIRSTRIP IP HOLDINGS, LLC, US
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[87] (3113943)
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[25] FR
[54] **EQUIPMENT FOR FORMING SURFACES, METHOD OF MANUFACTURE AND USE OF THE EQUIPMENT FOR FORMING SURFACES AND MOBILE UNIT INCLUDING THE EQUIPMENT FOR FORMING SURFACES**
[54] **EQUIPEMENT DE FORMAGE DE SURFACES, PROCEDE DE FABRICATION ET UTILISATION DE L'EQUIPEMENT DE FORMAGE DE SURFACES ET UNITE MOBILE INCLUANT L'EQUIPEMENT DE FORMAGE DE SURFACES**
[72] LANDRY, JOCELYN, CA
[72] COULOMBE, MARTIN, CA
[73] 9277-9347 QUEBEC INC., CA
[86] (3114364)
[87] (3114364)
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[51] **Int.Cl. G01D 21/00 (2006.01) G01S 19/42 (2010.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COLLECTING AND UPDATING GEOGRAPHICAL DATA**
[54] **SYSTEME ET PROCEDE DE COLLECTE ET DE MISE A JOUR DE DONNEES GEOGRAPHIQUES**
[72] TUCKER, PAGE, US
[72] JONES, SCOTT AUSTIN, US
[72] BECKNER, MARK, US
[72] SAWYER, TOM Y., JR., US
[73] PROSTAR GEOCORP, INC., US
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[87] (3114919)
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[30] US (60/781719) 2006-03-14
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[25] EN
[54] **SMOOTH HIGH SOLIDS FILM COATING COMPOSITION COMPRISING WATER SOLUBLE CELLULOSE ETHER, PROCESS FOR PREPARING THE SAME AND METHOD OF USE THEREOF**
[54] **COMPOSITION DE REVETEMENT EN FILM A HAUTE TENEUR EN SOLIDES LISSE COMPRENANT DE L'ETHER DE CELLULOSE HYDROSOLUBLE, ET PROCEDE DE PREPARATION ASSOCIE**
[72] KARAN, KAPISH, US
[72] HACH, RONALD, US
[72] PORTER, STUART C., US
[73] ISP INVESTMENTS LLC, US
[85] 2021-04-06
[86] 2019-10-07 (PCT/US2019/054923)
[87] (WO2020/073034)
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[51] **Int.Cl. A61B 18/14 (2006.01)**
[25] EN
[54] **CONTINUOUS ROTATION OF A SURGICAL INSTRUMENT**
[54] **ROTATION CONTINUE D'UN INSTRUMENT CHIRURGICAL**
[72] WILLIAMS, MASON, US
[72] CONCELMAN, JULIA, US
[73] CONMED CORPORATION, US
[85] 2021-04-06
[86] 2019-10-24 (PCT/US2019/057788)
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[25] EN
[54] **ANTI-SARS-COV-2-SPIKE GLYCOPROTEIN ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS**
[54] **ANTICORPS ANTI-GLYCOPROTEINE SPIKE DU SARS-COV 2 ET FRAGMENTS DE LIAISON A L'ANTIGENE DE CEUX-CI**
[72] BABB, ROBERT, US
[72] BAUM, ALINA, US
[72] CHEN, GANG, US
[72] GERSON, CINDY, US
[72] HANSEN, JOHANNA, US
[72] HUANG, TAMMY, US
[72] KYRATSOUS, CHRISTOS, US
[72] LEE, WEN-YI, US
[72] MALBEC, MARINE, US
[72] MURPHY, ANDREW, US
[72] OLSON, WILLIAM, US
[72] STAHL, NEIL, US
[72] YANCOPOULOS, GEORGE D., US
[73] REGENERON PHARMACEUTICALS, INC., US
[85] 2021-04-06
[86] 2020-06-25 (PCT/US2020/039707)
[87] (WO2021/045836)
[30] US (63/004,312) 2020-04-02
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[51] **Int.Cl. F24F 7/007 (2006.01) F24F 1/028 (2019.01) F04D 25/06 (2006.01) F04D 25/08 (2006.01) F24F 1/04 (2011.01) F26B 5/00 (2006.01)**
[25] EN
[54] **PORTABLE BLOWER FAN ASSEMBLY**
[54] **ASSEMBLAGE DE SOUFFLANTE PORTATIVE**
[72] STASZAK, JEFFREY R., US
[72] ASKLING, KEVIN LAWRENCE, US
[72] DEMONTE, TODD R., US
[72] BRUNNER, TODD, US
[72] POSTER, MATTHEW J., US
[72] MOBLEY, JENEE LAPLACE, US
[72] TRELEVEN, DAVID, US
[72] WANG, XUEQIAO, US
[72] CARLSON, LAURENCE A., US
[73] THERMA-STOR LLC, US
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[87] (3116786)
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[51] **Int.Cl. C04B 28/02 (2006.01) C04B 14/38 (2006.01) C04B 40/00 (2006.01)**
[25] EN
[54] **ADDITIVES OF GRAPHENE NANOMATERIALS FOR THE IMPROVEMENT OF CEMENTITIOUS COMPOSITIONS, CEMENTITIOUS COMPOSITION, A PROCESS FOR PREPARING A REINFORCED CONCRETE, A REINFORCED CONCRETE AND ITS USE**
[54] **ADDITIFS DE NANOMATERIAUX DE GRAPHENE POUR L'AMELIORATION DE COMPOSITIONS CIMENTAIRES, COMPOSITION CIMENTAIRE, PROCEDE DE PREPARATION D'UN BETON ARME, BETON ARME ET SON UTILISATIO N**
[72] ROMERO IZQUIERDO, AMAYA, ES
[72] LAVIN LOPEZ, MARIA DEL PRADO, ES
[72] RUIZ MOYA, JUAN ANGEL, ES
[73] GRAPHENANO S.L., ES
[73] RUIZ MOYA, JUAN ANGEL, ES
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[25] EN
[54] **MIST HUMIDIFIER BLOWER METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES POUR VENTILATEUR D`HUMIDIFICATEUR A VAPEUR**
[72] LOTFI, SHAHRAM, CA
[72] BAKKER, TOBIAS FRANCISCUS HENDRIKUS, NL
[73] CONDAIR GROUP AG, CH
[86] (3117976)
[87] (3117976)
[22] 2019-07-09
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[51] **Int.Cl. G06F 3/041 (2006.01) G06F 3/16 (2006.01)**
[25] EN
[54] **HARDWARE DEVICE FOR ENTERING A PIN VIA TAPPING ON A TOUCH SCREEN DISPLAY**
[54] **DISPOSITIF MATERIEL POUR ENTRER UN NIP EN TAPANT SUR UN ECRAN TACTILE**
[72] WHITAKER ABRAMS, JACOB, US
[72] BLATTMAN, JEFFREY, US
[73] FISERV, INC., US
[86] (3119607)
[87] (3119607)
[22] 2021-05-26
[30] US (17/330,287) 2021-05-25
[30] US (63/034,276) 2020-06-03

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[51] **Int.Cl. B31B 70/81 (2017.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR SECURING A ZIPPER CLOSURE TO POLYMERIC FILM**
[54] **APPAREIL ET PROCEDE POUR FIXER UNE FERMETURE A GLISSIERE A UN FILM POLYMERE**
[72] SOLLER, CRAIG, US
[72] CHAPEK, CARLOS, US
[72] THOMPSON, ZACHARY, US
[72] WELLS, AARON, US
[72] HECKMAN, GREGORY, US
[73] REYNOLDS PRESTO PRODUCTS INC., US
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[25] FR
[54] **ZEOLITE AGGLOMERATE MATERIAL, METHOD OF PRODUCTION, AND USE FOR THE NON-CRYOGENIC SEPARATION OF GAS**
[54] **MATERIAU AGGLOMERE ZEOLITHIQUE, PROCEDE DE PREPARATION ET UTILISATION POUR LA SEPARATION NON-CRYOGENIQUE DE GAZ**
[72] ORTIZ, GUILLAUME, FR
[72] LUTZ, CECILE, FR
[72] PERSILLON, QUITTERIE, FR
[72] SZENDROVICS, SYLVIE, FR
[73] ARKEMA FRANCE, FR
[85] 2021-06-09
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[30] FR (1873871) 2018-12-21

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[54] **EFFICIENT COOLED CHANNEL COMPONENTS**
[54] **COMPOSANTS DE CANAL DE REFROIDISSEMENT EFFICACES**
[72] DAVIDSON, NIALL T., CA
[73] ADC TECHNOLOGIES INC., CA
[85] 2020-12-22
[86] 2018-06-22 (PCT/CA2018/050773)
[87] (WO2019/000082)
[30] US (62/525,535) 2017-06-27

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[51] **Int.Cl. G02B 27/01 (2006.01) H04N 13/344 (2018.01) G02B 30/22 (2020.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR GENERATING VIRTUAL CONTENT DISPLAY WITH A VIRTUAL OR AUGMENTED REALITY APPARATUS**
[54] **METHODES ET SYSTEMES DE GENERATION D'UN AFFICHAGE DE CONTENU VIRTUEL AU MOYEN D'UN APPAREIL DE REALITE VIRTUELLE OU AUGMENTEE**
[72] TEKOLSTE, ROBERT D., US
[72] KLUG, MICHAEL, US
[73] MAGIC LEAP, INC., US
[86] (3124368)
[87] (3124368)
[22] 2015-05-29
[62] 2,950,432
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[51] **Int.Cl. E02D 25/00 (2006.01) E02D 15/00 (2006.01)**
[25] EN
[54] **METHOD OF CONSTRUCTING UNDERWATER CONCRETE BLOCK STRUCTURE**
[54] **PROCEDE DE CONSTRUCTION POUR STRUCTURE SOUS-MARINE EN BLOCS DE BETON**
[72] KIM, SANG GI, KR
[73] YUJOO CO., LTD., KR
[85] 2021-07-20
[86] 2020-02-19 (PCT/KR2020/002356)
[87] (WO2020/175844)
[30] KR (10-2019-0024109) 2019-02-28

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[51] **Int.Cl. A24D 3/10 (2006.01) A24D 3/04 (2006.01)**
[25] EN
[54] **PAPER-BASED GEL THREAD, MANUFACTURING METHOD THEREOF AND CIGARETTE COMPRISING THE PAPER-BASED GEL THREAD**
[54] **FIL DE GEL A BASE DE PAPIER, SON PROCEDE DE PREPARATION ET CIGARETTE LE CONTENANT**
[72] LEI, PING, CN
[72] YANG, WEN, CN
[72] TANG, JIANGUO, CN
[72] GONG, WEIMIN, CN
[72] MAO, DESHOU, CN
[72] HAN, JINGMEI, CN
[72] WANG, YIFAN, CN
[72] CHENG, JINGHUI, CN
[72] ZHENG, XUDONG, CN
[72] SHANG, SHANZHAI, CN
[72] WANG, CHENGYA, CN
[72] WU, JUN, CN
[72] HONG, LIU, CN
[72] LI, ZHIQIANG, CN
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[72] DOU, YUANCHUN, CN
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[54] **INHALER**
[54] **INHALATEUR**
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[72] ENDERT, GUIDO, DE
[72] WERGEN, HORST, DE
[73] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
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[54] **TORCH NOZZLE FOR PLASMA POWDER WELDING**
[54] **BUSE DE CHALUMEAU POUR LE SOUDAGE A POUDRE AU PLASMA**
[72] MATSUBARA, MOTOYUKI, JP
[72] NAKAMURA, SHIGEKI, JP
[72] HASHIMOTO, KUNIHIDE, JP
[73] KUBOTA CORPORATION, JP
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[25] EN
[54] **LOOP RESTORATION SWITCHING DEVICE ASSEMBLY INCLUDING MULTIPLE SWITCHES WITH COMMON CONTROL**
[54] **DISPOSITIF DE COMMUTATION DE RESTAURATION DE BOUCLE COMPRENANT DE MULTIPLES COMMUTATEURS A COMMANDE CENTRALE**
[72] DESMOND, DANIEL, US
[72] FRENCH, JOHN, US
[72] LAKIROVICH, KONSTANTIN, US
[72] QUINLAN, MICHAEL, US
[72] MONTENEGRO, ALEJANDRO, US
[72] PORTER, DAVID G., US
[72] MILTON, JOSEPH W., US
[72] DYER, THOMAS J., US
[73] S & C ELECTRIC COMPANY, US
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[25] FR
[54] **OVEN COOKING MODULE FOR BAKERY, DANISH PASTRY AND SIMILAR PRODUCTS AND LINEAR TUNNEL OVEN COMPRISING AT LEAST ONE SUCH MODULE**
[54] **MODULE DE CUISSON DE FOUR POUR PRODUITS DE BOULANGERIE, VIENNOISERIE ET SIMILAIRES ET FOUR TUNNEL LINEAIRE COMPORTANT AU MOINS UN TEL MODULE**
[72] SERGENT, OLIVIER, FR
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[54] **PREPARATION METHOD AND USE FOR ARTIFICIAL EXOSOME COMPLEX**
[54] **METHODE DE PREPARATION ET UTILISATION POUR UN COMPLEXE D'EXOSOME ARTIFICIEL**
[72] ZHU, CAIBIN, CN
[72] LI, JUNXIANG, CN
[73] SHANGHAI CHEERMORE BIOLOGICAL TECHNOLOGY CO., LTD, CN
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[54] **JEUX DE CASINO REGULES ET DISPOSITIFS INFORMATIQUES CONFIGURES POUR OFFRIR DES JEUX BASE SUR DES PARIS**
[72] OBERBERGER, MICHAEL M., US
[72] STANKEVICH, THOMAS M., US
[73] AKKADIAN ENTERPRISES, US
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[54] **SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR MOBILE DEVICE TRANSACTIONS**
[54] **SYSTEME, PROCEDE ET PROGRAMME INFORMATIQUE POUR OPERATIONS LIEES AUX APPAREILS MOBILES**
[72] KAJA, VENKATA NAGA PRADEEP KUMAR, US
[72] KONKATHI, VIJAYARAJU, US
[73] VISA INTERNATIONAL SERVICE ASSOCIATION, US
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[25] EN
[54] **CURING FOR RECURSIVE NUCLEIC ACID-GUIDED CELL EDITING**
[54] **CURAGE POUR L'EDITION RECURSIVE DE CELLULES GUIDEE PAR UN ACIDE NUCLEIQUE**
[72] TIAN, TIAN, US
[72] JOHNSON, CHARLES, US
[72] SPINDLER, EILEEN, US
[73] INSCRIPTA, INC., US
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[54] **METHOD AND APPARATUS FOR TREATING CONTAMINATED PARTICULATE MATERIAL**
[54] **PROCEDE ET APPAREIL POUR LE TRAITEMENT DE MATIERES PARTICULAIRES CONTAMINEES**
[72] MCGLADE, PHILIP, GB
[73] CDE GLOBAL LIMITED, GB
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[54] **ILLUMINATED HOCKEY PUCK ASSEMBLY**
[54] **ASSEMBLAGE DE RONDELLE DE HOCKEY ILLUMINEE**
[72] CZECH, STEPHEN, US
[72] CZECH, MATTHEW, US
[73] CZECH, STEPHEN, US
[73] CZECH, MATTHEW, US
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[54] **VISION RESPECTUEUSE DE LA RESOLUTION ET FLUIDE DE GRANDS VOLUMES DE DONNEES CHRONOLOGIQUES**
[72] TOROMAN, VUKASIN, US
[72] KEARNS, DANIEL, US
[72] SUBRAMANIAN, LENIN KUMAR, US
[72] MEHTA, NIKUNJ R., US
[73] FALKONRY INC., US
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[54] **LAMINATING AND DE-BUBBLING SYSTEM FOR ELECTRONIC MOBILE DEVICE SCREENS**
[54] **SYSTEME DE STRATIFICATION ET DE DEBULLAGE POUR ECRANS DE DISPOSITIFS MOBILES ELECTRONIQUES**
[72] HAJIPETROU, GEORGIOS CHRISTODOULOY, ZA
[72] CLAUSSEN, HANS, DE
[72] KALYVAS, CHARALAMPOS, GR
[73] MOBILE ADVANCED TECHNOLOGIES, LLC, US
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[54] **MODIFICATION D'EMISSION DE LUMIERE**
[72] GARBAR, ARKADY, US
[72] SIMMONS, BONNIE G., US
[72] VISSER, ROBERT, US
[73] EYESAFE INC., US
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[54] **WEBPAGE EDITING METHOD AND DEVICE**
[54] **PROCEDE ET APPAREIL D'EDITION DE PAGE WEB**
[72] SUN, HAITAO, CN
[72] SHI, YAQIU, CN
[72] DING, YIMING, CN
[72] YANG, CHENGYING, CN
[72] SUN, QIAN, CN
[73] 10353744 CANADA LTD., CA
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[54] **ELECTROLYTE FOR ELECTROCHEMICAL CAPACITOR**
[54] **ELECTROLYTE POUR CONDENSATEUR ELECTROCHIMIQUE**
[72] RUSTOMJI, CYRUS S., US
[72] LEE, JUNGWOO, US
[72] ROYER, JAMES, US
[73] SOUTH 8 TECHNOLOGIES, INC., US
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[54] **SYSTEME DE BIOREACTEUR ET PROCEDE DE NITRIFICATION ET DE DENITRIFICATION**
[72] RUSSO, FRANK M., US
[73] THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, US
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[54] **CATALYSTS, RELATED METHODS AND REACTION PRODUCTS**
[54] **CATALYSEURS, PROCEDES ET PRODUITS REACTIONNELS ASSOCIES**
[72] SCHUETZLE, ROBERT, US
[72] SCHUETZLE, DENNIS, US
[73] GREYROCK TECHNOLOGY, LLC, US
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[54] **REAL-TIME QUALITY MONITORING OF BEVERAGE BATCH PRODUCTION USING DENSITOMETRY**
[54] **SUIVI DE QUALITE EN TEMPS REEL DE PRODUCTION DE LOT DE BOISSONS AU MOYEN DE LA DENSITOMETRIE**
[72] CHOUBAK, SAMAN, US
[72] AHTCHI-ALI, BADREDDINE, US
[73] PEPSICO, INC., US
[85] 2022-08-12
[86] 2021-02-12 (PCT/US2021/017891)
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[25] EN
[54] **A PHOTOVOLTAIC DEVICE**
[54] **DISPOSITIF PHOTOVOLTAIQUE**
[72] LINDSTROM, HENRIK, SE
[72] FILI, GIOVANNI, SE
[73] EXEGER OPERATIONS AB, SE
[85] 2022-09-02
[86] 2021-03-17 (PCT/EP2021/056888)
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[25] EN
[54] **PHOTOLITHOGRAPHY MASK AND PHOTOLITHOGRAPHY SYSTEM COMPRISING SAID PHOTOLITHOGRAPHY MASK**
[54] **MASQUE PHOTOGRAPHIQUE ET SYSTEME PHOTOGRAPHIQUE COMPRENANT LEDIT MASQUE PHOTOGRAPHIQUE**
[72] BEAUDRY, RICHARD, CA
[73] TECHNOLOGIES DIGITHO INC., CA
[85] 2022-12-06
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[54] **DIGITAL ASSEMBLY AND MANUFACTURING METHOD FOR FLAME EXHAUST PIPE OF SERVO MECHANISM**
[54] **ENSEMBLE NUMERIQUE ET PROCEDE DE FABRICATION POUR TUYAU D'ECHAPPEMENT DE FLAMME DE SERVOMECANISME**
[72] CAI, QIYU, CN
[72] CHEN, YONG, CN
[72] SHEN, YONG, CN
[72] LU, QIQIANG, CN
[72] ZHANG, XINLAN, CN
[72] TANG, SHUAI, CN
[72] WANG, JIYAN, CN
[72] WANG, TUOKUN, CN
[72] ZHOU, CHENGCHENG, CN
[72] LIN, LEI, CN
[72] JIANG, SONGLIN, CN
[72] HU, ZHOU, CN
[72] NING, HAO, CN
[72] ZHONG, HAN, CN
[72] ZHU, ZHI, CN
[72] WANG, XIAORUI, CN
[73] SICHUAN AEROSPACE CHANGZHENG EQUIPMENG MANUFACTURING CO., LTD., CN
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[54] **TOWME IS A SOFTWARE APPLICATION THAT CONNECTS CONSUMERS WITH ROADSIDE ASSISTANCE PROVIDERS**
[54] **TOWME EST UNE APPLICATION LOGICIELLE QUI MET EN CONTACT LES CLIENTS AVEC DES FOURNISSEURS D'ASSISTANCE ROUTIERE**
[72] DAS, ROMEO, CA
[72] PUTROS, PETER, CA
[71] DAS, ROMEO, CA
[71] PUTROS, PETER, CA
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[25] EN
[54] **BICYCLE REAR HUB DRIVE MECHANISM**
[54] **MECANISME D'ENTRAINEMENT DE MOYEU ARRIERE DE VELO**
[72] HSU, JOSE, CA
[71] HSU, JOSE, CA
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[51] **Int.Cl. A47J 36/38 (2006.01) A47J 36/06 (2006.01)**
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[54] **DEVICE FOR SMOKELESS COOKING**
[54] **DISPOSITIF DE CUISSON SANS FUMEE**
[72] SELLAL, FAYCAL, CA
[71] SELLAL, FAYCAL, CA
[22] 2021-10-12
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[51] **Int.Cl. H01L 21/67 (2006.01) H01L 21/02 (2006.01)**
[25] EN
[54] **METHOD OF PROCESSING WAFER**
[54] **METHODE DE TRANSFORMATION DE TRANCHE**
[72] LATINA, STEVE, US
[71] DISCO CORPORATION, JP
[22] 2021-10-12
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[51] **Int.Cl. B01D 5/00 (2006.01) B03D 1/08 (2006.01) E21B 43/34 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **DIRECT CONTACT PROCESS AND METHOD FOR PRODUCING HOT WATER USING MATURE FINE TAILINGS (MFT) FEEDWATER**
[54] **PROCEDE A CONTACT DIRECT ET METHODE DE PRODUCTION DIRECTE AU MOYEN D'UNE EAU D'ALIMENTATION DE RESIDUS FINS MURS**
[72] ZHUANG, QUAN, CA
[72] GEDDIS, PHIL, CA
[72] CLEMENTS, BRUCE, CA
[72] HATALEY, BRIANNA, CA
[72] ASIRI, MOHAMMAD, CA
[72] HERAGE, TED, CA
[72] CHEN, STEVEN, CA
[72] WU, LIJUN, CA
[71] HER MAJESTY THE QUEEN, IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF ENERGY, MINES AND RESOURCES CANADA, CA
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[51] **Int.Cl. E04B 1/24 (2006.01)**
[25] EN
[54] **DROP-IN CEILING WALL SYSTEM**
[54] **SYSTEME DE MUR ET PLAFOND SUSPENDU**
[72] HINTON, THOM, CA
[72] ORDOG, IMRE, CA
[72] SMED, CLAYTON, CA
[71] FALKBUILT LTD., CA
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[51] **Int.Cl. E05B 73/00 (2006.01) B65D 81/24 (2006.01)**
[25] EN
[54] **A METHOD FOR DELIVERING SECURE AND TAMPER FREE FOOD**
[54] **METHODE DE LIVRAISON D'ALIMENTS SECURITAIRE ET SANS ALTERATION**
[72] PITTER, LLOYD, CA
[71] PITTER, LLOYD, CA
[22] 2021-10-12
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[51] **Int.Cl. B60L 53/00 (2019.01) B60L 53/50 (2019.01) H02J 7/00 (2006.01)**
[25] EN
[54] **A TRANSFORMER AND ELECTRIC VEHICLE CHARGER COMBINATION**
[54] **COMBINAISON DE TRANSFORMATEUR ET DE CHARGEUR DE VEHICULE ELECTRIQUE**
[72] GRZYB, DUANE, CA
[71] CLASS 1 ZONE 1 ENGINEERING INC., CA
[22] 2021-10-12
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[51] **Int.Cl. H01M 50/204 (2021.01) B60L 58/10 (2019.01) H01M 50/50 (2021.01) B60K 1/04 (2019.01) H01M 10/44 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **ELECTRIC VEHICLE EXTENDED RANGE SYSTEM**
[54] **SYSTEME TRES GRANDE PORTEE DE VEHICULE ELECTRIQUE**
[72] YU, CHANG QING, CA
[71] YU, CHANG QING, CA
[22] 2021-10-13
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[51] **Int.Cl. G01D 5/56 (2006.01) A61B 5/318 (2021.01) A61B 5/021 (2006.01) A61B 5/053 (2021.01)**
[25] EN
[54] **ELECTRICAL SENSOR AND BLOOD PRESSURE MONITORING SYSTEM**
[54] **CAPTEUR ELECTRIQUE ET SYSTEME DE SURVEILLANCE DE LA PRESSION SANGUINE**
[72] KIM, WOO SOO, CA
[72] KIM, TAEHO, CA
[71] SIMON FRASER UNIVERSITY, CA
[22] 2021-10-14
[41] 2023-04-14

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[13] A1
[51] **Int.Cl. A61L 2/20 (2006.01) A61L 2/18 (2006.01)**
[25] EN
[54] **DISINFECTION METHOD COMPRISING A DISINFECTANT FORMED BY REACTION OF H2O2 AND NO2 IN SITU WITH RETARDED RELEASE OF THE ACTIVE SUBSTANCE**
[54] **METHODE DE DESINFECTION COMPRENANT UN DESINFECTANT FORME PAR LA REACTION DE H2O2 ET DE NO2 SUR PLACE ET LA LIBERATION RETARDEE DE LA SUBSTANCE ACTIVE**
[72] SCHMIDT-BLEKER, ANSGAR, DE
[72] WINTER, JORN, DE
[72] WELTMANN, KLAUS-DIETER, DE
[71] LEIBNIZ-INSTITUT FUR PLASMAFORSCHUNG UND TECHNOLOGIE E.V., DE
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[51] **Int.Cl. E04G 21/18 (2006.01) B25H 7/02 (2006.01) B43L 7/027 (2006.01) B43L 7/033 (2006.01)**
[25] EN
[54] **FLOOR JOIST SQUARE**
[54] **CARRE DE SOLIVE DE PLANCHER**
[72] SLOCUM, ANDREW FLOYD, CA
[71] SLOCUM, ANDREW FLOYD, CA
[22] 2021-10-15
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[51] **Int.Cl. E04B 1/38 (2006.01) E04B 1/76 (2006.01) E04F 13/21 (2006.01) E04F 13/26 (2006.01) F16B 1/00 (2006.01)**
[25] EN
[54] **MOUNTING CLIP ASSEMBLY PROVIDING THERMAL BARRIER**
[54] **ASSEMBLAGE D'AGRAFE DE VERROUILLAGE FOURNISSANT UNE BARRIERE THERMIQUE**
[72] DELANEY, DON, CA
[72] BAZ, JOE, CA
[71] FLYNN CANADA LTD., CA
[22] 2021-10-14
[41] 2023-04-14

[21] **3,134,378**
[13] A1
[51] **Int.Cl. C12N 15/115 (2010.01) C12Q 1/6804 (2018.01) C12Q 1/6876 (2018.01) C12Q 1/28 (2006.01) C12N 9/08 (2006.01)**
[25] EN
[54] **DNA APTAMERS FOR EOSINOPHIL PEROXIDASE DETECTION**
[54] **APTAMERES D'ADM POUR LA DETECTION DE PEROXYDASE EOSINOPHILE**
[72] BRENNAN, JOHN, CA
[72] ALI, MONSUR, CA
[72] WOLFE, MICHAEL, CA
[72] WHITE, DAWN, CA
[72] MUKHERJEE, MANALI, CA
[72] NAIR, PARAMESWARAN, CA
[72] CAPRETTA, ALFREDO, CA
[71] MCMASTER UNIVERSITY, CA
[22] 2021-10-15
[41] 2023-04-15

[21] **3,134,575**
[13] A1
[51] **Int.Cl. B61B 1/00 (2006.01) B61C 13/00 (2006.01)**
[25] EN
[54] **HYPER-SPEED TRANSPORTATION SYSTEM**
[54] **SYSTEME DE TRANSPORT A TRES GRANDE VITESSE**
[72] GUIBORD, GEORGES E., CA
[71] GUIBORD, GEORGES E., CA
[22] 2021-10-15
[41] 2023-04-15

[21] **3,134,576**
[13] A1
[51] **Int.Cl. C02F 3/34 (2006.01) C02F 3/00 (2006.01) C02F 3/32 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD MICROALGAE-BASED BIOFILTER FOR REMOVAL OF HEAVY METALS**
[54] **SYSTEME ET METHODE DE FILTRE BIOLOGIQUE A BASE DE MICROALGUES POUR LE RETRAIT DE METAUX LOURDS**
[72] MEMARI, HAMID RAJABI, CA
[72] MEMARI, MOHAMMAD REZA RJAJABI, CA
[72] PARTOW, SIAVASH, CA
[71] FILTRO LABS INC., CA
[22] 2021-10-15
[41] 2023-04-15

[21] **3,135,250**
[13] A1
[51] **Int.Cl. A61K 9/107 (2006.01) A23L 29/10 (2016.01) A23L 33/12 (2016.01) A23L 33/15 (2016.01) A23D 7/005 (2006.01) A23L 2/52 (2006.01) A61K 31/122 (2006.01) A61K 31/20 (2006.01) A61K 31/355 (2006.01) A61K 31/59 (2006.01) A61P 3/02 (2006.01)**
[25] EN
[54] **STABLE EMULSIFIED VITAMIN AND OMEGA FATTY ACID COMPOSITIONS AND PROCESS FOR PREPARING SAME**
[54] **COMPOSITIONS DE VITAMINE ET D'ACIDE GRAS OMEGA EMULSIFIEES STABLES ET PROCEDE DE PREPARATION**
[72] RAHMANLOO, BEHNAM, IR
[72] TAHAJOMI, MOHAMMADREZA, IR
[72] TAHAJOMI, SATTAR, IR
[72] TAHAJOMI, AMIRHOSSEIN, IR
[72] ARAGHI, MEYSAM, IR
[72] NAEIMI PANJAKI, ALIREZA, IR
[71] ZECTO INCORPORATED, CA
[22] 2021-10-21
[41] 2023-04-11

[21] **3,135,475**
[13] A1
[51] **Int.Cl. B63H 16/20 (2006.01) B63B 34/20 (2020.01) B63H 5/20 (2006.01) B63H 21/17 (2006.01) B63H 23/12 (2006.01)**
[25] EN
[54] **WATERCRAFT AND ASSOCIATED PEDAL DRIVE SYSTEM**
[54] **EMBARCATION ET SYSTEME D'ENTRAINEMENT A PEDALES CONNEXE**
[72] KUEHMICHEL, BLAINE G., US
[71] JOHNSON OUTDOORS INC., US
[22] 2021-10-22
[41] 2023-04-12
[30] US (17/499,621) 2021-10-12

[21] **3,135,708**
[13] A1
[51] **Int.Cl. E01F 9/30 (2016.01) B60W 60/00 (2020.01)**
[25] EN
[54] **ROADSIDE RFID SYSTEM FOR VEHICLE SELF DRIVING**
[54] **SYSTEME RFID ROUTIER POUR LA CONDUITE AUTONOME D'UN VEHICULE**
[72] YU, CHANG QING, CA
[71] YU, CHANG QING, CA
[22] 2021-10-12
[41] 2023-04-12

[21] **3,138,138**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/54 (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] **SOYBEAN VARIETY 5PEUR38**
[54] **VARIETE DE SOYA 5PEUR38**
[72] RICE, REID ROLLAND, US
[72] SALOIS, CATLYNN GAIL, US
[72] SEDA, BRIAN FREDERICK, US
[72] ZILA, CHARLES THOMAS, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-11-08
[41] 2023-04-11
[30] US (17/450,467) 2021-10-11

[21] **3,138,537**
[13] A1
[51] **Int.Cl. A01B 59/00 (2006.01) A01B 59/04 (2006.01)**
[25] EN
[54] **TRAILED IMPLEMENT WITH VISION GUIDANCE**
[54] **APPAREIL TRAINE AVEC GUIDAGE VISIONIQUE**
[72] FLICK, DANIEL, US
[72] HUNDT, KARL, US
[72] MONHOLLEN, NOLAN, US
[71] MACDON INDUSTRIES LTD., CA
[22] 2021-11-09
[41] 2023-04-12
[30] US (17/499,237) 2021-10-12
[30] US (17/499,333) 2021-10-12

[21] **3,138,754**
[13] A1
[51] **Int.Cl. B67C 11/02 (2006.01)**
[25] EN
[54] **FUNNEL**
[54] **ENTONNOIR**
[72] EL-ZABET, OMEED, CA
[71] EL-ZABET, OMEED, CA
[22] 2021-11-12
[41] 2023-04-14
[30] US (63/255,504) 2021-10-14

[21] **3,140,258**
[13] A1
[51] **Int.Cl. G01V 1/40 (2006.01)**
[25] EN
[54] **FRACTURE GEOMETRY AND ORIENTATION IDENTIFICATION WITH A SINGLE DISTRIBUTED ACOUSTIC SENSOR FIBER**
[54] **DETERMINATION DE LA GEOMETRIE ET DE L'ORIENTATION DE FRACTURE AU MOYEN D'UN SEUL DETECTEUR ACOUSTIQUE REPARTI A FIBRE OPTIQUE**
[72] ZHENG, ZHAO, US
[72] MUKHTAROV, TIMUR, CA
[72] BLAND, HENRY CLIFFORD, CA
[71] HALLIBURTON ENERGY SERVICES, INC., US
[22] 2021-11-23
[41] 2023-04-14
[30] US (17/501,211) 2021-10-14

[21] **3,140,306**
[13] A1
[51] **Int.Cl. A47J 37/04 (2006.01) A47J 37/07 (2006.01) A47J 43/18 (2006.01)**
[25] EN
[54] **BARBECUE BASKET**
[54] **PANIER A BARBECUE**
[72] WANG, MIN, CN
[71] HAOHONG ELECTRIC TECHNOLOGY (HUBEI) CO., LTD., CN
[22] 2021-11-24
[41] 2023-04-12
[30] CN (202111190061.5) 2021-10-12

[21] **3,140,407**
[13] A1
[51] **Int.Cl. C01G 41/00 (2006.01) C01G 41/02 (2006.01) C04B 35/495 (2006.01) C22B 3/04 (2006.01)**
[25] EN
[54] **HIGH TEMPERATURE CHEMICAL PROCESS FOR THE PREPARATION OF CESIUM TUNGSTATE**
[54] **PROCEDE CHIMIQUE A TEMPERATURE ELEVEE POUR LA PREPARATION DE TUNGSTATE DE CESIUM**
[72] CARDARELLI, FRANCOIS, CA
[71] CARDARELLI, FRANCOIS, CA
[22] 2021-11-25
[41] 2023-04-11
[30] US (63/254,471) 2021-10-11

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[21] **3,142,589**
[13] A1
[51] **Int.Cl. E04B 1/38 (2006.01) E04B 1/04 (2006.01) E04B 1/24 (2006.01) E04B 2/38 (2006.01) E04C 5/12 (2006.01)**
[25] EN
[54] **BEAM POCKET KIT AND ASSEMBLY**
[54] **TROUSSE ET ASSEMBLAGE DE RETRAIT DE POUTRE**
[72] KARIUS, PAUL, US
[72] MONROE, PETER, US
[71] BEAM POCKET LLC, US
[22] 2021-12-16
[41] 2023-04-15
[30] US (17/502,968) 2021-10-15

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[21] **3,153,398**
[13] A1
[51] **Int.Cl. E02D 37/00 (2006.01) B60S 5/02 (2006.01) E04H 1/12 (2006.01) E04G 23/02 (2006.01)**
[25] EN
[54] **WRAP, SYSTEM, AND METHOD FOR THE REPAIR OF GAS STATION FUEL PUMP ISLANDS AND THE LIKE**
[54] **ENVELOPPE, SYSTEME ET METHODE POUR LA REPARATION D'ILOTS DE POMPES A ESSENCE DE STATION-SERVICE ET D'APPAREILS SEMBLABLES**
[72] D'ALFONSO, AUGUSTO, CA
[72] D'ALFONSO, MARCO, CA
[71] COUNTRYSIDE CONCRETE SERVICES LTD., CA
[22] 2022-03-25
[41] 2023-04-15
[30] US (63/256,255) 2021-10-15

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[21] **3,153,811**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **DYNAMIC BEHAVIORAL PROFILING USING TRAINED MACHINE-LEARNING AND ARTIFICIAL-INTELLIGENCE PROCESSES**
[54] **PROFILAGE COMPORTEMENTAL DYNAMIQUE AU MOYEN DE PROCEDES D'APPRENTISSAGE AUTOMATIQUE ET D'INTELLIGENCE ARTIFICIELLE ENTRAINES**
[72] JORLETT, DEVON DAVID, CA
[72] VICKERY, ADRIENNE, CA
[72] MISLER, MATTHEW WALTER, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-03-30
[41] 2023-04-13
[30] US (17/707,658) 2022-03-29
[30] US (63/255,293) 2021-10-13

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[21] **3,155,285**
[13] A1
[51] **Int.Cl. A47B 46/00 (2006.01) A47B 88/40 (2017.01) B25H 5/00 (2006.01)**
[25] EN
[54] **SHELF SYSTEM**
[54] **SYSTEME DE RAYONS**
[72] PUSH, ZACHARY JOHN, US
[71] ADRIAN STEEL COMPANY, US
[22] 2022-04-14
[41] 2023-04-14
[30] US (17/450,843) 2021-10-14

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[21] **3,159,784**
[13] A1
[51] **Int.Cl. A63B 21/02 (2006.01) A63B 21/04 (2006.01)**
[25] EN
[54] **INTERACTIVE RESISTANCE BAND TRAINING SYSTEMS**
[54] **SYSTEMES D'ENTRAINEMENT INTERACTIFS A BANDE ELASTIQUE**
[72] DAVID, EYAL, IL
[72] BAR, GUY, IL
[72] AFIK, JACK, IL
[72] POPLINGER, ELISHA, IL
[72] JURIS, PAUL M., IL
[72] COOPER, JEFFREY, US
[72] STRIK, DAN, US
[72] ELKALAI, ELAD, IL
[71] HYGEAR INC., US
[22] 2022-05-19
[41] 2023-04-12
[30] US (63/254,776) 2021-10-12
[30] US (17/650,524) 2022-02-09

[21] **3,165,890**
[13] A1
[51] **Int.Cl. C10G 3/00 (2006.01) C01B 3/34 (2006.01) C12P 7/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF CONVERTING RENEWABLE FEEDSTOCKS INTO INTERMEDIATE HYDROCARBON BLEND STOCKS AND TRANSPORTATION FUELS**
[54] **SYSTEMES ET METHODES DE CONVERSION DE CHARGES D'ALIMENTATION RENOUVELABLES DANS DES ESSENCES DE BASE D'HYDROCARBURES INTERMEDIAIRES ET DES CARBURANTS DE TRANSPORT**
[72] WOMELDORFF, JUSTIN L., US
[72] SEXTON, JEFFREY A., US
[72] LININGTON, DAVID, US
[71] MARATHON PETROLEUM COMPANY LP, US
[22] 2022-06-28
[41] 2023-04-12
[30] US (63/262,426) 2021-10-12
[30] US (17/848,443) 2022-06-24

[21] **3,167,198**
[13] A1
[51] **Int.Cl. E04F 13/07 (2006.01) E04F 13/072 (2006.01) E04F 13/074 (2006.01) E04F 13/076 (2006.01)**
[25] EN
[54] **A SPLICED WALL PANEL**
[54] **PANNEAU MURAL EPISSE**
[72] DONG, CHENGLONG, CN
[71] HANGZHOU JINMENG ROAD ESTABLISHMENT CO., LTD., CN
[22] 2022-07-11
[41] 2023-04-15
[30] CN (2021224873359) 2021-10-15

[21] **3,168,239**
[13] A1
[51] **Int.Cl. G06N 5/02 (2023.01) G06F 17/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INTEGRATING KNOWLEDGE FROM A PLURALITY OF DATA SOURCES**
[54] **SYSTEMES ET METHODES D'INTEGRATION DES CONNAISSANCES DE PLUSIEURS SOURCES DE DONNEES**
[72] GEDGE, WARREN ANDREW, CA
[72] SAWCHUK, SHELDON WARREN, CA
[72] AFFONSO, BRUCE SEBASTIAN, CA
[72] KODEIH, MAYA, CA
[72] GEDGE, SYLVIA, CA
[71] SCRIPT STRING LIMITED, CA
[22] 2022-07-19
[41] 2023-04-13
[30] US (63/255,138) 2021-10-13

[21] **3,170,444**
[13] A1
[51] **Int.Cl. F16G 11/12 (2006.01) B66D 3/02 (2006.01)**
[25] EN
[54] **RATCHETING CHAIN BINDER**
[54] **CHAINE D'ATTACHE A CLIQUETIS**
[72] KREIDLER, JASON JOHN, US
[72] KUCKSDORF, KEVIN ROGER, US
[71] J.J. KELLER & ASSOCIATES, INC., US
[22] 2022-08-16
[41] 2023-04-13
[30] US (17/500,021) 2021-10-13

[21] **3,171,524**
[13] A1
[51] **Int.Cl. B60K 35/00 (2006.01) B62D 55/07 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FACILITATING TRAVEL OF AN ELECTRIC OFF-ROAD VEHICLE ON AN UNCHARTED ROUTE**
[54] **SYSTEME ET METHODE FACILITANT LE DEPLACEMENT D'UN VEHICULE HORS ROUTE ELECTRIQUE SUR UNE ROUTE NON CARTOGRAPHIEE**
[72] BRUNEAU, SAMUEL, CA
[71] TAIGA MOTORS INC., CA
[22] 2022-08-26
[41] 2023-04-14
[30] US (63/336,366) 2022-04-29
[30] US (63/255,518) 2021-10-14

[21] **3,171,587**
[13] A1
[51] **Int.Cl. B64D 33/00 (2006.01) F02C 7/32 (2006.01) F16B 35/00 (2006.01) F16M 7/00 (2006.01)**
[25] EN
[54] **ADJUSTABLE MOUNT FOR ENGINE ACCESSORY**
[54] **SUPPORT AJUSTABLE POUR EQUIPEMENT-MOTEUR**
[72] GAJOWNICZEK, KRYZSZTOF, PL
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-26
[41] 2023-04-15
[30] US (17/502,763) 2021-10-15

[21] **3,171,600**
[13] A1
[51] **Int.Cl. B60K 35/00 (2006.01) B60F 5/00 (2006.01) B62D 55/07 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF FACILITATING AN OPERATION OF AN ELECTRIC OFF-ROAD VEHICLE**
[54] **SYSTEMES ET METHODES FACILITANT L'OPERATION D'UN VEHICULE HORS ROUTE ELECTRIQUE**
[72] BRUNEAU, SAMUEL, CA
[71] TAIGA MOTORS INC., CA
[22] 2022-08-26
[41] 2023-04-14
[30] US (63/255,518) 2021-10-14
[30] US (63/336,366) 2022-04-29

[21] **3,171,836**
[13] A1
[51] **Int.Cl. B60Q 1/50 (2006.01) F21S 43/00 (2018.01) B60Q 5/00 (2006.01) B62D 47/02 (2006.01) B62D 63/04 (2006.01) F21V 23/04 (2006.01)**
[25] EN
[54] **SCHOOL BUS HAVING A PEDESTRIAN LIGHTING SYSTEM**
[54] **AUTOBUS SCOLAIRE COMPRENANT UN SYSTEME D'ECLAIRAGE PIETONNIER**
[72] MERCHANT, FOZIA, US
[71] INTERNATIONAL TRUCK INTELLECTUAL PROPERTY COMPANY, LLC, US
[22] 2022-08-31
[41] 2023-04-12
[30] US (17/499,224) 2021-10-12

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[21] **3,171,974**
[13] A1
[51] **Int.Cl. B60Q 1/00 (2006.01) B60Q 1/50 (2006.01)**
[25] EN
[54] **PROVIDING PEDESTRIAN LIGHTING FROM A SCHOOL BUS**
[54] **FOURNITURE D'UN ECLAIRAGE PIETONNIER SUR UN AUTOBUS SCOLAIRE**
[72] MERCHANT, FOZIA, US
[71] INTERNATIONAL TRUCK INTELLECTUAL PROPERTY COMPANY, LLC, US
[22] 2022-09-02
[41] 2023-04-12
[30] US (17/499,274) 2021-10-12

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[21] **3,172,105**
[13] A1
[51] **Int.Cl. C11D 3/12 (2006.01) B08B 3/00 (2006.01) C11D 1/00 (2006.01) C11D 3/60 (2006.01)**
[25] EN
[54] **VEHICLE HARD SURFACE COMPOSITION CONTAINING GRAPHENE**
[54] **COMPOSITION DE SURFACE DURE DE VEHICULE CONTENANT DU GRAPHENE**
[72] NGUYEN, CHI QUANG, US
[72] ESCOTO, JOHN ISIDORO, JR., US
[72] PHANG, TZE-LEE, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2022-08-30
[41] 2023-04-13
[30] US (63/255,073) 2021-10-13

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[21] **3,172,687**
[13] A1
[51] **Int.Cl. E02F 5/02 (2006.01) E02F 5/08 (2006.01)**
[25] EN
[54] **ROTARY DITCHING ATTACHMENT FOR A TOOL MANIPULATING ARM**
[54] **ACCESSOIRE D'EXCAVATION ROTATIF POUR UN BRAS DE MANIPULATION D'OUTIL**
[72] DAVIS, TIMOTHY D., US
[72] MEJIA, TYLER AUSTIN, US
[72] WALTON, STEVEN R., US
[72] SHIRK, TONY, US
[72] HERZOG, JACOB D., US
[71] HERZOG RAILROAD SERVICES, INC., US
[22] 2022-09-01
[41] 2023-04-15
[30] US (63/256,063) 2021-10-15

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[21] **3,172,833**
[13] A1
[51] **Int.Cl. A41G 3/00 (2006.01) A41G 5/00 (2006.01)**
[25] EN
[54] **HAIR EXTENSIONS, METHODS OF MAKING, AND METHODS OF USING THE SAME**
[54] **RALLONGES POUR CHEVEUX, METHODES DE FABRICATION ET METHODES D'UTILISATION**
[72] GREY, NATASHA, US
[71] GREY, NATASHA, US
[22] 2022-09-09
[41] 2023-04-11
[30] US (63/254,400) 2021-10-11
[30] US (63/342,722) 2022-05-17
[30] US (17/815,312) 2022-07-27

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[21] **3,173,566**
[13] A1
[51] **Int.Cl. B65D 53/00 (2006.01) B65D 43/02 (2006.01)**
[25] EN
[54] **A WATERPROOF CONTAINER**
[54] **CONTENANT ETANCHE A L'EAU**
[72] WANG, ENLIANG, CA
[71] BLACKBERRY LIMITED, CA
[22] 2022-09-08
[41] 2023-04-15
[30] US (17/503,154) 2021-10-15

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[21] **3,174,003**
[13] A1
[51] **Int.Cl. E02F 3/38 (2006.01) E02F 3/36 (2006.01)**
[25] EN
[54] **LOADER WITH MOVING APPARATUS**
[54] **CHARGEUSE ET APPAREIL DE DEPLACEMENT**
[72] KENNEDY, THOMAS L., US
[71] DEERE & COMPANY, US
[22] 2022-09-13
[41] 2023-04-15
[30] US (17/451,024) 2021-10-15

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[21] **3,174,018**
[13] A1
[51] **Int.Cl. E02F 3/34 (2006.01) E02F 3/36 (2006.01)**
[25] EN
[54] **LOADER WITH MOVING APPARATUS**
[54] **CHARGEUSE ET APPAREIL DE DEPLACEMENT**
[72] KENNEDY, THOMAS L., US
[71] DEERE & COMPANY, US
[22] 2022-09-13
[41] 2023-04-15
[30] US (17/451,024) 2021-10-15

[21] **3,175,209**
[13] A1
[51] **Int.Cl. C25B 9/65 (2021.01) H01M 8/0228 (2016.01) H01M 8/0245 (2016.01) C25B 1/23 (2021.01) C25B 13/07 (2021.01) C25B 1/04 (2021.01) H01M 8/1246 (2016.01)**
[25] EN
[54] **INTERCONNECTOR FOR SOLID-OXIDE ELECTROCHEMICAL CELL STACK AND SOLID-OXIDE ELECTROCHEMICAL CELL STACK**
[54] **INTERCONNECTEUR POUR ASSEMBLAGE DE PILES ELECTROCHIMIQUES A OXYDE SOLIDE ET ASSEMBLAGE MENTIONNE**
[72] KOBAYASHI, SHOHEI, JP
[72] KAMEDA, TSUNEJI, JP
[72] ASAYAMA, MASAHIRO, JP
[72] YOSHINO, MASATO, JP
[72] OSADA, NORIKAZU, JP
[72] INUZUKA, RIKO, JP
[71] TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION, JP
[22] 2022-09-21
[41] 2023-04-15
[30] JP (2021-169833) 2021-10-15
[30] JP (2022-140458) 2022-09-05

[21] **3,175,335**
[13] A1
[51] **Int.Cl. H04L 9/40 (2022.01) H04L 61/4511 (2022.01) H04L 67/02 (2022.01)**
[25] EN
[54] **LOCAL NETWORK DEVICE CONNECTION CONTROL**
[54] **CONTROLE DE LA CONNEXION D'UN DISPOSITIF A UN RESEAU LOCAL**
[72] ALAM, SYD, US
[72] GRIFFITHS, CHRIS, US
[72] KANGAS, SANTERI, US
[71] CUJO LLC, US
[22] 2022-09-16
[41] 2023-04-13
[30] US (17/499986) 2021-10-13

[21] **3,175,564**
[13] A1
[51] **Int.Cl. A61K 47/26 (2006.01) A23L 27/00 (2016.01) A23L 29/00 (2016.01) A23P 10/20 (2016.01) A61K 9/20 (2006.01)**
[25] EN
[54] **DEXTROSE TABLETS WITH IMPROVED MOUTHFEEL**
[54] **COMPRIMES DE DEXTROSE A SENSATION EN BOUCHE AMELIOREE**
[72] WITTORFF, HELLE, DK
[71] FERTIN PHARMA A/S, DK
[22] 2022-09-20
[41] 2023-04-15
[30] US (17/502,322) 2021-10-15

[21] **3,175,782**
[13] A1
[51] **Int.Cl. A41D 31/08 (2019.01) A42B 1/046 (2021.01) A41D 3/00 (2006.01) A41H 43/00 (2006.01) A62B 17/00 (2006.01) A62B 17/04 (2006.01) B32B 37/12 (2006.01) D06M 17/00 (2006.01)**
[25] EN
[54] **A GARMENT AND A COMPOSITE FABRIC FOR USE IN HAZARDOUS ENVIRONMENTS**
[54] **VETEMENT ET TISSU COMPOSITE A UTILISER DANS LES ENVIRONNEMENTS DANGEREUX**
[72] ROBERTSON, BARRY, GB
[71] ROBERTSON, BARRY, GB
[71] ROBERTSON, STUART, GB
[22] 2022-09-15
[41] 2023-04-15
[30] GB (2114797.0) 2021-10-15
[30] GB (PCT/GB2022/052185) 2022-08-25

[21] **3,175,872**
[13] A1
[51] **Int.Cl. A61L 2/232 (2006.01) A61L 2/26 (2006.01) B05D 1/02 (2006.01) B05D 1/26 (2006.01) B05D 5/00 (2006.01)**
[25] EN
[54] **COATING OF VEHICULAR INTERIOR TRIM APPARATUS**
[54] **REVETEMENT D'UN APPAREIL DE BOISERIE INTERIEURE DE VEHICULE**
[72] FARRAR, GREGORY JAMES, CA
[72] REDDY, MURALI MOHAN, CA
[71] CPK INTERIOR PRODUCTS INC., CA
[22] 2022-09-22
[41] 2023-04-12
[30] US (17/499,142) 2021-10-12

[21] **3,176,382**
[13] A1
[51] **Int.Cl. B25B 27/06 (2006.01) B25B 27/073 (2006.01) B30B 9/00 (2006.01) B30B 15/28 (2006.01)**
[25] EN
[54] **JOINT PRESS**
[54] **JOINT A PRESSION**
[72] BENDORF, SCOTT A., US
[71] SNAP-ON INCORPORATED, US
[22] 2022-09-27
[41] 2023-04-15
[30] US (17/502,796) 2021-10-15

[21] **3,176,551**
[13] A1
[51] **Int.Cl. B65D 51/02 (2006.01) B65D 51/06 (2006.01) B65D 51/12 (2006.01) B65D 51/24 (2006.01)**
[25] EN
[54] **PROTECTION APPARATUS**
[54] **APPAREIL DE PROTECTION**
[72] BENARDE, MICHAEL, US
[72] BENARDE, SHIRAH, US
[71] NIGHT CAP IT, LLC, US
[22] 2022-09-27
[41] 2023-04-11
[30] US (63/254,265) 2021-10-11

[21] **3,176,777**
[13] A1
[51] **Int.Cl. A61B 17/24 (2006.01) A61F 13/15 (2006.01)**
[25] EN
[54] **EPISTAXIS CLIP**
[54] **PINCE POUR LE SAIGNEMENT DE NEZ**
[72] STARKWEATHER, JENNIFER, US
[72] SUBRAMANYA, TEJASVI, US
[71] FREUDENBERG MEDICAL, LLC, US
[22] 2022-09-22
[41] 2023-04-15
[30] US (17/502,042) 2021-10-15

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[21] **3,176,822**
[13] A1
[25] EN
[54] **LIB ANODE COATING MEASUREMENT WITH DUAL X-RAY**
[54] **REVETEMENT D'ANODE POUR BATTERIE AU LITHIUM-ION A DEUX CAPTEURS A RAYONS X**
[72] HOFMAN, GERTJAN JOB, US
[72] TIXIER, SEBASTIEN, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2022-09-28
[41] 2023-04-13
[30] US (17/450762) 2021-10-13

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[21] **3,177,273**
[13] A1
[51] **Int.Cl. C04B 41/83 (2006.01) C09D 7/61 (2018.01) C09D 201/00 (2006.01) F01N 3/28 (2006.01)**
[25] EN
[54] **CATALYST-CONTAINING POLYMER COATINGS FORMED BY CHEMICAL GRAFTING**
[54] **REVETEMENTS POLYMERES CONTENANT UN CATALYSEUR FORMES PAR GREFFAGE CHIMIQUE**
[72] THOTTATHIL, PAUL, US
[72] MUKHERJEE, SATYABRATA, US
[72] KESAVAN, PURUSHOTHAMAN, US
[72] RYAN, JOHN M., US
[71] CATALYTIC INDUSTRIAL GROUP, INC., US
[22] 2022-09-28
[41] 2023-04-13
[30] US (63/255,075) 2021-10-13

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[21] **3,177,363**
[13] A1
[51] **Int.Cl. B61L 29/08 (2006.01) E01F 13/04 (2006.01)**
[25] EN
[54] **QUICK-REPLACEMENT GEAR FOR GRADE CROSSING GATE MECHANISM**
[54] **ENGRENAGE A REMPLACEMENT RAPIDE POUR UN MECANISME DE PORTE DE PASSAGE A NIVEAU**
[72] IBARRA, MARCO ANTONIO, US
[72] SAGE, DEVIN STEVEN, US
[72] LAWSON, MICHAEL CARMEN, US
[71] C.D.L. ELECTRIC COMPANY, INC., US
[22] 2022-09-29
[41] 2023-04-11
[30] US (17/498,495) 2021-10-11

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[21] **3,177,579**
[13] A1
[51] **Int.Cl. B01D 53/22 (2006.01) B01D 53/62 (2006.01)**
[25] EN
[54] **BIOGAS UPGRADING APPARATUS AND PROCESS**
[54] **APPAREIL ET PROCEDE DE VALORISATION DE BIOGAZ**
[72] HENRY, DONALD E., US
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2022-09-29
[41] 2023-04-12
[30] US (17/498,890) 2021-10-12

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[21] **3,177,589**
[13] A1
[51] **Int.Cl. B60W 30/165 (2020.01)**
[25] EN
[54] **TARGET FOLLOWING METHOD, DEVICE, APPARATUS AND SYSTEM**
[54] **METHODE DE SUIVI DE CIBLE, DISPOSITIF, APPAREIL ET SYSTEME**
[72] CHEN, NIANCHUN, CN
[71] GUANGZHOU PROMINENT INDUSTRIAL CO., LTD, CN
[22] 2022-09-28
[41] 2023-04-09
[30] CN (202111176633.6) 2021-10-09

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[21] **3,177,733**
[13] A1
[51] **Int.Cl. B26B 21/52 (2006.01) B26B 21/08 (2006.01) B26B 21/22 (2006.01)**
[25] EN
[54] **HANDLE WITH AN EJECTOR FOR A WET RAZOR**
[54] **POIGNEE DOTEE D'UN EJECTEUR POUR UN RASOIR MOUILLE**
[72] DENKERT, UWE, DE
[72] KNAUER, ROLAND, DE
[72] TRIER, JONAS, DE
[71] FEINTECHNIK GMBH EISFELD, DE
[22] 2022-09-29
[41] 2023-04-13
[30] DE (10 2021 126 490.1) 2021-10-13

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[21] **3,177,847**
[13] A1
[51] **Int.Cl. A41D 13/11 (2006.01) A62B 7/10 (2006.01) A62B 17/04 (2006.01)**
[25] EN
[54] **SURGICAL HELMET INCLUDING AN ADJUSTMENT MECHANISM**
[54] **CASQUE CHIRURGICAL COMPRENANT UN MECANISME D'AJUSTEMENT**
[72] DAVIE, DANIEL, US
[72] KRENTZ, STEVE, US
[72] WEIMER, BLAKE, US
[71] STRYKER CORPORATION, US
[22] 2022-09-29
[41] 2023-04-11
[30] US (63/254,304) 2021-10-11

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[21] **3,178,007**
[13] A1
[51] **Int.Cl. A61B 7/04 (2006.01)**
[25] EN
[54] **ENHANCED RESOLUTION STETHOSCOPE**
[54] **STETHOSCOPE A RESOLUTION AMELIOREE**
[72] ISSINSKI, ANTON, CA
[71] ISSINSKI, ANTON, CA
[22] 2022-09-30
[41] 2023-04-12
[30] US (63/254,535) 2021-10-12

[21] **3,178,153**
[13] A1
[51] **Int.Cl. A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **TOMATO HYBRID DRTJ4056 AND PARENTS THEREOF**
[54] **TOMATE HYBRIDE DRTJ4056 ET PARENTS**
[72] BOSCH, BERNARDUS VAN DEN, US
[71] SEMINIS VEGETABLE SEEDS, INC., US
[22] 2022-09-30
[41] 2023-04-11
[30] US (63/254334) 2021-10-11
[30] US (17/891688) 2022-08-19

[21] **3,178,200**
[13] A1
[51] **Int.Cl. E06B 9/266 (2006.01) E06B 9/42 (2006.01)**
[25] EN
[54] **WINDOW BLIND MOUNTING SYSTEM**
[54] **SYSTEME DE MONTAGE DE STORE DE FENETRE**
[72] CHOU, TSER-WEN, US
[71] CHOU, TSER-WEN, US
[71] CHOU, MASON, US
[22] 2022-10-01
[41] 2023-04-15
[30] TW (110212167) 2021-10-15
[30] TW (110213505) 2021-11-16
[30] TW (111201897) 2022-02-23
[30] US (17/576,133) 2022-01-14
[30] US (17/687,189) 2022-03-04

[21] **3,178,428**
[13] A1
[51] **Int.Cl. E21B 15/00 (2006.01) E02F 9/16 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **EXTENSION MODULE OF SURFACE DRILL RIG**
[54] **MODULE D'EXTENSION D'UNE INSTALLATION DE FORAGE EN SURFACE**
[72] KAMARAINEN, TIMO, FI
[72] SAARELA, JUHA, FI
[71] ARCTIC DRILLING COMPANY OY LTD, FI
[22] 2022-10-05
[41] 2023-04-15
[30] FI (20216066) 2021-10-15

[21] **3,178,492**
[13] A1
[51] **Int.Cl. B60S 1/38 (2006.01) B60S 1/46 (2006.01) B64C 1/14 (2006.01)**
[25] EN
[54] **WIPER COMPOSITE BEAM BLADE ASSEMBLY WITH WASH TUBE INTEGRATION**
[54] **ASSEMBLAGE DE BALAI D'ESSUIE-GLACE A POUTRE MIXTE AVEC INTEGRATION DE TUBE DE LAVAGE**
[72] SRINIVAS, NOUDURI PHANI, IN
[72] KUPPUSWAMY, MURUGAN, IN
[71] ROSEMOUNT AEROSPACE INC., US
[22] 2022-10-05
[41] 2023-04-09
[30] IN (202141046063) 2021-10-09

[21] **3,178,505**
[13] A1
[51] **Int.Cl. B60S 1/38 (2006.01) B60S 1/52 (2006.01)**
[25] EN
[54] **WIPER COMPOSITE BEAM BLADE WITH INTERNAL WASH TUBE**
[54] **ASSEMBLAGE DE BALAI D'ESSUIE-GLACE A POUTRE MIXTE AVEC TUBE DE LAVAGE INTERNE**
[72] SRINIVAS, NOUDURI PHANI, IN
[72] KUPPUSWAMY, MURUGAN, IN
[71] ROSEMOUNT AEROSPACE INC., US
[22] 2022-10-05
[41] 2023-04-09
[30] IN (202141046062) 2021-10-09

[21] **3,178,525**
[13] A1
[51] **Int.Cl. A61B 5/372 (2021.01) A61B 5/291 (2021.01) A61B 5/31 (2021.01) A61B 5/369 (2021.01)**
[25] FR
[54] **ON-BOARD DEVICE FOR THE SYNCHRONIZED COLLECTION OF BRAIN WAVES AND ENVIRONMENTAL DATA**
[54] **DISPOSITIF EMBARQUE POUR LA COLLECTE SYNCHRONISEE D'ONDES CEREBRALES ET DE DONNEES ENVIRONNEMENTALES**
[72] DIDIER, BASTIEN, FR
[71] MENTALISTA, FR
[22] 2022-10-05
[41] 2023-04-15
[30] EP (21306444.7) 2021-10-15

[21] **3,178,597**
[13] A1
[51] **Int.Cl. F16L 37/367 (2006.01)**
[25] FR
[54] **QUICK COUPLING AND CONNECTOR ASSEMBLY COMPRISING SUCH QUICK COUPLING**
[54] **RACCORD RAPIDE ET ENSEMBLE DE CONNEXION COMPRENANT UN TEL RACCORD RAPIDE**
[72] DURIEUX, CHRISTOPHE, FR
[72] MARQUES BARROCA, SERAFIM, FR
[71] STAUBLI FAVERGES, FR
[22] 2022-10-07
[41] 2023-04-13
[30] FR (2110833) 2021-10-13

[21] **3,178,630**
[13] A1
[51] **Int.Cl. F16N 29/00 (2006.01) F16C 41/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR PROVIDING LUBRICATION TO A MACHINE**
[54] **SYSTEME DE LUBRIFICATION DE MACHINE**
[72] PAMENSKY, STEVEN, CA
[71] INDUSTRIAL MATRIX, CA
[22] 2022-10-06
[41] 2023-04-14
[30] US (63/255,588) 2021-10-14

[21] **3,178,694**
[13] A1
[25] EN
[54] **SENSOR FOR MEASURING FLUID PROPERTIES AND METHOD OF MANUFACTURE THEREOF**
[54] **CAPTEUR POUR MESURER DES CARACTERISTIQUES DE FLUIDE ET METHODE DE FABRICATION**
[72] CHEN, FEI, CA
[72] WANG, YULANG, CA
[72] REN, CAROLYN LIQING, CA
[72] WANG, XINYAO, CA
[72] ZENG, KAI, CA
[71] QUANTWAVE TECHNOLOGIES INC., CA
[22] 2022-10-07
[41] 2023-04-12
[30] US (63/254,836) 2021-10-12

[21] **3,178,714**
[13] A1
[25] FR
[54] **ISOLATED RADIO FREQUENCY ANTENNA DEVICE**
[54] **DISPOSITIF D'ANTENNES RADIOFREQUENCES ISOLEES**
[72] KARTOUT, MADANI, FR
[71] SAGEMCOM BROADBAND SAS, FR
[22] 2022-10-07
[41] 2023-04-15
[30] FR (2110982) 2021-10-15

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[21] **3,178,811**
[13] A1
[51] **Int.Cl. B65D 50/00 (2006.01)**
[25] EN
[54] **CHILD RESISTANT LOCKING CONTAINER**
[54] **CONTENANT VERROUILLE A L'EPREUVE DES ENFANTS**
[72] DIXON, JESSE, US
[72] ZHOU, MARY, CN
[71] GPA HONG KONG LIMITED, CN
[22] 2022-10-11
[41] 2023-04-11
[30] US (17/963,332) 2022-10-11
[30] US (63/254,456) 2021-10-11

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[21] **3,178,821**
[13] A1
[51] **Int.Cl. E04H 15/06 (2006.01) E04H 15/44 (2006.01)**
[25] EN
[54] **TENT EQUIPPED WITH A DEPLOYABLE CANOPY**
[54] **TENTE POSSEDANT UN AUVENT DEPLOYABLE**
[72] LAFOUX, BENJAMIN, FR
[72] BRUNETEAU, EMILIEN, FR
[71] DECATHLON, FR
[22] 2022-10-11
[41] 2023-04-15
[30] FR (2110967) 2021-10-15

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[21] **3,178,850**
[13] A1
[51] **Int.Cl. B62K 27/12 (2006.01)**
[25] EN
[54] **BICYCLE TRAILER HITCH**
[54] **ATTACHE DE REMORQUE A VELO**
[72] PERSSON, JOAKIM, SE
[72] PETERSSON, MAJA, SE
[72] CARLSSON, BJORN, SE
[71] THULE SWEDEN AB, SE
[22] 2022-10-06
[41] 2023-04-14
[30] EP (21202684.3) 2021-10-14

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[21] **3,178,881**
[13] A1
[51] **Int.Cl. E21B 41/00 (2006.01) E21B 33/03 (2006.01)**
[25] EN
[54] **FLUID CONDUIT ASSEMBLY FOR A FLUID SUPPLY SYSTEM**
[54] **ASSEMBLAGE DE CONDUITE DE FLUIDE POUR UN RESEAU D'ALIMENTATION EN FLUIDE**
[72] ROESNER, THOMAS GEORGE, US
[72] EVANS, DAVID LANE, US
[71] SCOUT SURFACE SOLUTIONS, LLC, US
[22] 2022-10-11
[41] 2023-04-14
[30] US (63/255,747) 2021-10-14

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[21] **3,178,893**
[13] A1
[25] EN
[54] **GENERATING MODELS FOR RECOMMENDING REPLACEMENT ITEMS FOR UNAVAILABLE IN -STORE PURCHASES**
[54] **GENERATION DE MODELES POUR LA RECOMMANDATION D'ARTICLES DE REMPLACEMENT POUR LES ACHATS EN MAGASIN NON DISPONIBLES**
[72] KRUCK, JOSHUA, US
[72] CAPELLE, KIMBERLY, US
[71] KOHL'S, INC., US
[22] 2022-10-11
[41] 2023-04-11
[30] US (63/254,343) 2021-10-11

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[21] **3,178,903**
[13] A1
[51] **Int.Cl. F16L 33/20 (2006.01) F16L 13/14 (2006.01)**
[25] EN
[54] **PRESS FITTING FOR A PIPE JOINT AND ASSEMBLY GROUP FOR A PRESS FITTING**
[54] **EMMANCHEMENT A LA PRESSE POUR UN JOINT DE TUYAUX ET GROUPE D'ASSEMBLAGE POUR UN EMMANCHEMENT A LA PRESSE**
[72] ROTSO, VESA, FI
[72] SOBOTA, GREGOR, DE
[72] DITTMAR, RAINER, DE
[71] UPONOR INNOVATION AB, SE
[22] 2022-10-11
[41] 2023-04-13
[30] DE (202021105547.2) 2021-10-13

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[21] **3,178,904**
[13] A1
[25] EN
[54] **CABLE CONNECTORS AND CABLE CONNECTOR SYSTEMS AND METHODS INCLUDING SAME**
[54] **CONNECTEURS DE CABLES ET SYSTEMES ET METHODES DE CONNECTEURS DE CABLES**
[72] JOHNSON, BARRY JAMES, CA
[72] BULZA, ALEXANDRU, CA
[72] MURUGIAH, SACHIDANANDAN, CA
[72] GUPPY, JONATHAN, CA
[72] RAHMAN, SARZIL, CA
[72] SERAJ, MAHMOUD, US
[72] MILLOT, BENOIT, FR
[72] AYRES, BRIAN, US
[72] KENNEDY, SEAN, US
[71] TYCO ELECTRONICS CANADA ULC, CA
[71] TYCO ELECTRONICS - SIMEL, FR
[71] TE CONNECTIVITY SOLUTIONS GMBH, CH
[22] 2022-10-11
[41] 2023-04-14
[30] EP (21306441.3) 2021-10-14

[21] **3,178,907**
[13] A1
[51] **Int.Cl. F16L 37/10 (2006.01) F16B 4/00 (2006.01) F16L 21/08 (2006.01) F16L 33/22 (2006.01)**
[25] EN
[54] **ASSEMBLY GROUP FOR A PRESS FITTING, PRESS FITTING AND ASSEMBLY METHOD FOR A PRESS FITTING**
[54] **GROUPE D'ASSEMBLAGE POUR UN EMMANCHEMENT A LA PRESSE, EMMANCHEMENT A LA PRESSE ET METHODE D'EMMANCHEMENT A LA PRESSE**
[72] SOBOTA, GREGOR, DE
[72] DITTMAR, RAINER, DE
[71] UPONOR INNOVATION AB, SE
[22] 2022-10-11
[41] 2023-04-13
[30] DE (102021126520.7) 2021-10-13

[21] **3,178,911**
[13] A1
[51] **Int.Cl. B27B 29/00 (2006.01) B27B 1/00 (2006.01) B27B 31/04 (2006.01) B27B 31/06 (2006.01) B27C 1/00 (2006.01) B27G 23/00 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PRODUCING SAWN TIMBER**
[54] **METHODE ET DISPOSITIF POUR PRODUIRE DU PETIT BOIS D'OEUVRE**
[72] MARTIN, ANDREAS, DE
[71] GEBRUDER LINCK, MASCHINENFABRIK "GATTERLINCK" GMBH & CO. KG, DE
[22] 2022-10-06
[41] 2023-04-14
[30] DE (10 2021 126 725.0) 2021-10-14

[21] **3,178,969**
[13] A1
[51] **Int.Cl. B60W 40/12 (2012.01)**
[25] EN
[54] **TRAILER TANDEM POSITION SENSOR**
[54] **CAPTEUR DE POSITION DE TRAIN ROULANT MULTIPOSITION DE REMORQUE**
[72] FORTHOFFER, DANIEL WILLIAM, US
[72] CAVANAGH, JOHN PATRICK, US
[71] R.A PHILLIPS INDUSTRIES, INC., US
[22] 2022-10-12
[41] 2023-04-12
[30] US (63/254945) 2021-10-12

[21] **3,178,972**
[13] A1
[51] **Int.Cl. E02D 37/00 (2006.01) B60S 5/02 (2006.01) E04G 23/02 (2006.01) E04H 1/12 (2006.01)**
[25] EN
[54] **WRAP, SYSTEM, AND METHOD FOR THE REPAIR OF GAS STATION FUEL PUMP ISLANDS AND THE LIKE**
[54] **ENVELOPPE, SYSTEME ET METHODE POUR LA REPARATION D'ILOTS DE POMPES A ESSENCE DE STATION-SERVICE ET D'APPAREILS SEMBLABLES**
[72] D'ALFONSO, AUGUSTO, CA
[72] D'ALFONSO, MARCO, CA
[71] COUNTRYSIDE CONCRETE SERVICES LTD., CA
[22] 2022-10-13
[41] 2023-04-15
[30] US (63/256,255) 2021-10-15
[30] CA (3,153,398) 2022-03-25

[21] **3,178,983**
[13] A1
[51] **Int.Cl. A01D 57/20 (2006.01) A01D 41/12 (2006.01)**
[25] EN
[54] **BELT CUTTING UNIT WITH RETROFITTING INTERFACE TO AN AIR CONVEYING SYSTEM**
[54] **UNITE DE COUPE A RUBAN AVEC INTERFACE D'ADAPTATION A UN SYSTEME DE CONVOYAGE PNEUMATIQUE**
[72] SUDHUES, STEFFEN, DE
[72] HARTMANN, CHRISTOPH, DE
[72] POKRIEFKE, MICHAEL, DE
[71] CARL GERINGHOFF GMBH & CO. KG, DE
[22] 2022-10-13
[41] 2023-04-14
[30] DE (10 2021 126 683.1) 2021-10-14

[21] **3,178,990**
[13] A1
[51] **Int.Cl. G06Q 20/14 (2012.01) G06Q 30/04 (2012.01) G06Q 50/06 (2012.01)**
[25] EN
[54] **SYSTEM, METHOD, AND DEVICE FOR AUTOMATING BILLING AND PAYMENTS**
[54] **SYSTEME, METHODE ET DISPOSITIF POUR AUTOMATISER LA FACTURATION ET LES PAIEMENTS**
[72] VAN STEE, TOMAS NATHAN, CA
[72] KIRKUP, MICHAEL GRANT, CA
[71] EN-POWERED INC., CA
[22] 2022-10-13
[41] 2023-04-13
[30] US (63/255,224) 2021-10-13

[21] **3,178,995**
[13] A1
[51] **Int.Cl. B32B 27/08 (2006.01) B29C 48/08 (2019.01) B32B 27/28 (2006.01) B32B 27/30 (2006.01) B32B 33/00 (2006.01) B65D 30/02 (2006.01) B65D 33/00 (2006.01) B65D 65/46 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COMPOSTABLE BAGS**
[54] **SYSTEMES ET METHODES DE SACS COMPOSTABLES**
[72] LEE, THOMAS R., US
[72] MEYER, JASON, US
[71] TRANSCONTINENTAL HOLDING CORP., US
[22] 2022-10-13
[41] 2023-04-13
[30] US (63/255,364) 2021-10-13

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[21] **3,179,003**
[13] A1
[51] **Int.Cl. G06Q 20/06 (2012.01) G06Q 20/38 (2012.01) G06F 16/27 (2019.01)**
[25] EN
[54] **MULTIPLE TRANSFERS OF BLOCKCHAIN-BASED TOKENS**
[54] **MULTIPLES TRANSFERTS DE JETONS FONDES SUR LA CHAINE DE BLOCS**
[72] WAGNER, JONATHAN M., US
[71] VIVID SEATS LLC, US
[22] 2022-09-30
[41] 2023-04-12
[30] US (17/499,784) 2021-10-12

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[21] **3,179,004**
[13] A1
[51] **Int.Cl. F24H 15/12 (2022.01) F24H 1/10 (2022.01) F24H 9/20 (2022.01) G01M 3/02 (2006.01)**
[25] EN
[54] **ELECTRIC TANKLESS WATER HEATER WITH INTEGRAL LEAK DETECTION SYSTEM**
[54] **CHAUFFE-EAU ELECTRIQUE SANS RESERVOIR AVEC SYSTEME DE DETECTION DE FUITES INTEGRE**
[72] FABRIZIO, EDWARD V., US
[71] CHRONOMITE LABORATORIES, INC., US
[22] 2022-10-01
[41] 2023-04-14
[30] US (63/255580) 2021-10-14

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[21] **3,179,021**
[13] A1
[51] **Int.Cl. B64D 37/06 (2006.01) B64C 1/00 (2006.01) B64D 37/32 (2006.01)**
[25] EN
[54] **FUEL TANK SYSTEMS AND METHODS FOR VEHICLES**
[54] **SYSTEMES ET METHODES DE RESERVOIRS DE COMBUSTIBLE POUR VEHICULES**
[72] LAKIC, BRANKO, US
[71] THE BOEING COMPANY, US
[22] 2022-10-11
[41] 2023-04-12
[30] US (17/499008) 2021-10-12

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[21] **3,179,025**
[13] A1
[51] **Int.Cl. C10G 11/20 (2006.01) C10G 75/00 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ENHANCING PROCESSING OF HYDROCARBONS IN A FLUID CATALYTIC CRACKING UNIT USING A RENEWABLE ADDITIVE**
[54] **METHODES ET SYSTEMES POUR AMELIORER LE TRAITEMENT DES HYDROCARBURES DANSUNE UNITE DE CRAQUAGE CATALYTIQUE FLUIDE AU MOYEN D'UN ADDITIF RENOUVELABLE**
[72] LARSEN, NIKOLAS A., US
[72] SEXTON, JEFFREY A., US
[72] BROOKS, RAY, US
[71] MARATHON PETROLEUM COMPANY LP, US
[22] 2022-10-11
[41] 2023-04-10
[30] US (63/262,342) 2021-10-10
[30] US (18/045,314) 2022-10-10

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[21] **3,179,030**
[13] A1
[51] **Int.Cl. C03C 8/02 (2006.01) C03C 17/04 (2006.01) C03C 3/087 (2006.01)**
[25] EN
[54] **FUSED LAYER AND CORE**
[54] **AME ET COUCHE FUSIONNES**
[72] BARTEL, ADAM, US
[72] BOHNEN, SCOTT, US
[72] HEIKKILA, KURT, US
[71] TUNDRA COMPOSITES, LLC, US
[22] 2022-10-11
[41] 2023-04-11
[30] US (17/862,944) 2022-07-12
[30] US (63/254,416) 2021-10-11

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[21] **3,179,040**
[13] A1
[51] **Int.Cl. B62K 23/02 (2006.01) B62K 11/14 (2006.01) B62K 21/12 (2006.01) B62K 23/00 (2006.01)**
[25] EN
[54] **BICYCLE CONTROL DEVICE**
[54] **DISPOSITIF DE COMMANDE DE VELO**
[72] CHUANG, CHENG-RU, TW
[71] GIANT MANUFACTURING CO., LTD., TW
[22] 2022-10-14
[41] 2023-04-15
[30] TW (110212194) 2021-10-15

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[21] **3,179,043**
[13] A1
[51] **Int.Cl. B66C 1/02 (2006.01) E04G 21/18 (2006.01)**
[25] EN
[54] **SLAB HANDLING SYSTEM**
[54] **SYSTEME DE MANIPULATION DE DALLE**
[72] GRIFFIN, CRAIG, US
[71] GMR QUALITY STONE PRODUCTS, US
[22] 2022-10-14
[41] 2023-04-14
[30] US (63/255,904) 2021-10-14
[30] US (63/307,160) 2022-02-06

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[21] **3,179,045**
[13] A1
[51] **Int.Cl. F04D 29/28 (2006.01) F04D 29/30 (2006.01)**
[25] EN
[54] **RADIAL IMPELLER**
[54] **ROUE RADIALE**
[72] HEIGOLD, THOMAS, DE
[72] GUNDEL, KLAUS, DE
[71] NICOTRA GEBHARDT GMBH, DE
[22] 2022-10-12
[41] 2023-04-15
[30] EP (21 202 991.2) 2021-10-15

[21] **3,179,053**
[13] A1
[51] **Int.Cl. A01D 34/74 (2006.01) A01D 34/67 (2006.01)**
[25] EN
[54] **MOWER**
[54] **TONDEUSE**
[72] WANG, TAO, CN
[72] SUN, XIAOPENG, CN
[72] CHEN, PINGSHAN, CN
[71] TECHTRONIC CORDLESS GP, US
[22] 2022-10-13
[41] 2023-04-15
[30] CN (202122493747.3) 2021-10-15

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[21] **3,179,056**
[13] A1
[25] EN
[54] **A MARINE BLOCKCHAIN CONTRACT AND SYSTEM CONNECTING A VESSEL AND ITS ENGINE TO STAKEHOLDERS**
[54] **CONTRAT DE CHAINE DE BLOCS MARITIME ET SYSTEME DE LIAISON D'UN NAVIRE ET DE SON MOTEUR AUX INTERVENANTS**
[72] JENKINS, CHRISTOPHER, US
[72] DARAGO, VINCENT, US
[72] LAABS, STACY, US
[71] JENKINS, CHRISTOPHER, US
[71] DARAGO, VINCENT, US
[71] LAABS, STACY, US
[22] 2022-10-13
[41] 2023-04-13
[30] US (63/255,321) 2021-10-13

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[21] **3,179,058**
[13] A1
[51] **Int.Cl. B21D 39/02 (2006.01)**
[25] EN
[54] **METHOD FOR JOINING EDGES AND/OR SURFACES OF A PROFILE, JOINING ROLLER ARRANGEMENT AND PROFILING INSTALLATION**
[54] **METHODE POUR JOINDRE DES BORDS ET/OU DES SURFACES D'UN PROFIL, JOINTAGE DE CONFIGURATION DE ROULEAUX ET INSTALLATION A PROFILER**
[72] TRAUB, TILMAN, DE
[72] GRULLICH, CHRISTOPH, DE
[71] DREISTERN GMBH & CO. KG, DE
[22] 2022-10-11
[41] 2023-04-12
[30] EP (21202237.0) 2021-10-12

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[21] **3,179,060**
[13] A1
[51] **Int.Cl. D06F 37/00 (2020.01) D06F 13/02 (2006.01)**
[25] EN
[54] **INFUSER OF LOW AND HIGH WATER LEVELS**
[54] **APPAREIL D'INFUSION A NIVEAUX D'EAU FAIBLES ET ELEVES**
[72] PLATAS AMARILLAS, SANTIAGO ALONSO, MX
[72] MERINO CERVANTES, RAMON, MX
[72] AMESQUITA VAZQUEZ, JUAN LUIS, MX
[72] TORRES ZURITA, ARTURO RENE, MX
[71] CONTROLADORA MABE S.A. DE C.V., MX
[22] 2022-10-13
[41] 2023-04-15
[30] MX (MX/A/2021/012691) 2021-10-15

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[21] **3,179,062**
[13] A1
[51] **Int.Cl. A61K 47/69 (2017.01) A61K 9/51 (2006.01) A61K 9/64 (2006.01) A61K 9/66 (2006.01) A61K 31/4745 (2006.01) A61K 38/20 (2006.01) A61K 39/39 (2006.01) A61K 47/40 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **NANOPARTICULATE FORMULATION**
[54] **FORMULATION NANOPARTICULAIRE**
[72] MOODY, MARK, US
[72] HORSBURGH, BRIAN, US
[71] IMMUNOVA THERAPEUTICS LTD, GB
[22] 2022-10-11
[41] 2023-04-11
[30] US (63/254,253) 2021-10-11
[30] GB (2201351.0) 2022-02-02
[30] US (63/321,886) 2022-03-21

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[21] **3,179,071**
[13] A1
[25] EN
[54] **ELECTRICAL OUTLET ASSEMBLY**
[54] **ASSEMBLAGE DE PRISE ELECTRIQUE**
[72] BARR, ROGER J., US
[72] YAGER, DERRICK C., US
[72] BYRNE, DANIEL P., US
[71] BYRNE, NORMAN R., US
[22] 2022-10-14
[41] 2023-04-15
[30] US (63/256412) 2021-10-15

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[21] **3,179,077**
[13] A1
[25] EN
[54] **TABLETOP DIGITAL MULTIMEDIA DISPLAY**
[54] **AFFICHAGE MULTIMEDIA NUMERIQUE DE TABLE**
[72] SAGOO, AMRIT, CA
[71] OONGALEE TECHNOLOGIES INC., CA
[22] 2022-10-12
[41] 2023-04-13
[30] US (63/262,469) 2021-10-13

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[21] **3,179,094**
[13] A1
[51] **Int.Cl. A61F 13/42 (2006.01)**
[25] EN
[54] **UNDERPAD WITH WETNESS INDICATOR**
[54] **SOUS-TAMPON AVEC INDICATEUR D'HUMIDITE**
[72] KURT, ALYSSA, US
[72] FUERSTE, COLE, US
[72] URIDIL, MORGAN, US
[72] IACULLO, JESSICA, US
[72] CALVERLEY, DANIELLE, US
[72] BASNET, KUSHAL, US
[72] SESSIONS, JACOB, US
[71] MEDLINE INDUSTRIES, LP, US
[22] 2022-10-12
[41] 2023-04-13
[30] US (17/500,464) 2021-10-13

[21] **3,179,095**
[13] A1
[51] **Int.Cl. A61F 5/00 (2006.01)**
[25] EN
[54] **GASTRIC OUTFLOW REGULATION DEVICES AND METHODS FOR WEIGHT LOSS**
[54] **DISPOSITIFS DE REGULATION DE SORTIE GASTRIQUE ET METHODES POUR LA PERTE DE POIDS**
[72] FAHMY, NADER SAYED, CA
[71] FAHMY, NADER SAYED, CA
[22] 2022-10-14
[41] 2023-04-15
[30] US (63/256,125) 2021-10-15

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[21] **3,179,116**
[13] A1
[51] **Int.Cl. A01K 23/00 (2006.01) A01K 27/00 (2006.01) E01H 1/12 (2006.01)**
[25] EN
[54] **FECES HOLDER CONFIGURED FOR RELEASABLE ATTACHMENT TO A DOG LEASH AND METHOD OF USE**
[54] **SUPPORT A MATIERES FECALES CONFIGURE POUR UNE FIXATION AMOVIBLE A UNE LAISSE DE CHIEN ET METHODE D'UTILISATION**
[72] CAPPUCCITTI, MARIA, CA
[71] CAPPUCCITTI, MARIA, CA
[22] 2022-10-14
[41] 2023-04-15
[30] US (63/256,003) 2021-10-15

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[21] **3,179,118**
[13] A1
[25] EN
[54] **LOCALIZATION FRAMEWORK FOR DYNAMIC ENVIRONMENTS FOR AUTONOMOUS INDOOR SEMI-AUTONOMOUS DEVICES**
[54] **CADRE DE LOCALISATION POUR DES ENVIRONNEMENTS DYNAMIQUES POUR DES DISPOSITIFS INTERIEURS SEMI-AUTONOMES**
[72] GALLANT, MARC, CA
[72] VANDERMEULEN, MARK, CA
[72] ERUSALIMCHIK, DAN, CA
[72] MOLINA CABRERA, PABLO ROBERTO, CA
[71] AVIDBOTS CORP, CA
[22] 2022-10-12
[41] 2023-04-12
[30] US (63/254549) 2021-10-12

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[21] **3,179,142**
[13] A1
[51] **Int.Cl. C12N 5/10 (2006.01) A01H 5/00 (2018.01) C07K 19/00 (2006.01) C12N 9/64 (2006.01) C12N 15/57 (2006.01) C12N 15/62 (2006.01) C12N 15/82 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **PRODUCTION OF ACE2-FC FUSION PROTEIN IN PLANTS AND USES THEREOF**
[54] **PRODUCTION DE PROTEINE DE FUSION ACE2-FC DANS LES PLANTES ET UTILISATIONS CONNEXES**
[72] COSSAR, JOHN DOUGLAS, CA
[72] MCLEAN, MICHAEL DOUGLAS, CA
[71] PLANTFORM CORPORATION, CA
[22] 2022-10-13
[41] 2023-04-13
[30] US (63/255256) 2021-10-13

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[21] **3,179,144**
[13] A1
[51] **Int.Cl. E04H 15/32 (2006.01) A63H 33/00 (2006.01)**
[25] EN
[54] **CONNECTING STRUCTURE FOR TOY TENT**
[54] **STRUCTURE DE RACCORD POUR UNE TENTE JOUET**
[72] TAN, SHUXIONG, CN
[71] JAM'N PRODUCTS, INC., US
[22] 2022-10-13
[41] 2023-04-15
[30] CN (202122494341.7) 2021-10-15
[30] CN (202130813414.7) 2021-12-09
[30] US (17/938272) 2022-10-05

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[21] **3,179,149**
[13] A1
[51] **Int.Cl. F41A 5/28 (2006.01) F41A 5/26 (2006.01)**
[25] EN
[54] **GAS BLOCK**
[54] **FRETTE DE PRISE DE GAZ**
[72] FLEINER, UWE, DE
[72] DOLL, STEFAN, DE
[72] KOPF, JOHANNES, DE
[71] HECKLER & KOCH GMBH, DE
[22] 2022-10-14
[41] 2023-04-15
[30] DE (10 2021 005 162.9) 2021-10-15

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[21] **3,179,164**
[13] A1
[51] **Int.Cl. F01D 5/14 (2006.01) F01D 9/04 (2006.01)**
[25] EN
[54] **TURBINE BLADE AIRFOIL PROFILE**
[54] **PROFIL DE CONTOUR D'AUBE DE TURBINE**
[72] AJALLI, FARIBA, CA
[72] TSIFOURDARIS, PANAGIOTA, CA
[72] SANZARI, LORENZO, CA
[72] GEMME, FRANCIS, CA
[72] BIGRAS, STEPHANE, CA
[72] MINDENHALL, WILLIAM, CA
[72] ROSHAN FEKR, MASOUD, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-10-13
[41] 2023-04-14
[30] US (17/501,499) 2021-10-14

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[21] **3,179,193**
[13] A1
[51] **Int.Cl. F41G 1/033 (2006.01)**
[25] EN
[54] **ADJUSTABLE SIGHT ASSEMBLY**
[54] **ASSEMBLAGE DE MIRE AJUSTABLE**
[72] HETZEL, MARKUS, DE
[72] THIMM, STEFAN, DE
[71] HECKLER & KOCH GMBH, DE
[22] 2022-10-14
[41] 2023-04-15
[30] DE (10 2021 005 161.0) 2021-10-15

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[21] **3,179,224**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 10/0635 (2023.01)**
[25] EN
[54] **BIAS DETECTION AND REDUCTION IN A MACHINE-LEARNING TECHNIQUES**
[54] **DETECTION ET REDUCTION DE BIAIS DANS DES TECHNIQUES D'APPRENTISSAGE AUTOMATIQUE**
[72] ZOU, MUFENG, US
[72] VEERAVELLY, SWATHI, US
[72] BRUHN, MARCUS, US
[71] EQUIFAX INC., US
[22] 2022-10-14
[41] 2023-04-15
[30] US (63/262,616) 2021-10-15

[21] **3,179,238**
[13] A1
[51] **Int.Cl. C22C 21/00 (2006.01) C22C 21/08 (2006.01)**
[25] EN
[54] **CASTABLE ALUMINUM ALLOYS**
[54] **ALLIAGES D'ALUMINIUM MOULABLES**
[72] ELSAYED, ABDALLAH, CA
[72] ZIMMER, ADAM, CA
[72] KOTIADIS, STEPHANIE, CA
[71] UNIVERSITY OF GUELPH, CA
[22] 2022-10-14
[41] 2023-04-15
[30] US (63/256,518) 2021-10-15

[21] **3,179,253**
[13] A1
[51] **Int.Cl. E04B 1/70 (2006.01) E04F 19/00 (2006.01)**
[25] EN
[54] **MID-WALL VENT AND SYSTEMS INCORPORATING THE SAME**
[54] **EVENT DE MI-MUR ET SYSTEMES L'INTEGRANT**
[72] TORRES, ANGELBERTO, US
[72] ANDERBERG, THOMAS AUTHOR, US
[72] PILZ, DON, US
[71] STOCKTON PRODUCTS, US
[22] 2022-10-14
[41] 2023-04-15
[30] US (63/256502) 2021-10-15

[21] **3,179,254**
[13] A1
[51] **Int.Cl. E04B 1/70 (2006.01)**
[25] EN
[54] **VENTILATION MEMBER AND SYSTEMS INCORPORATING THE SAME**
[54] **ELEMENT DE VENTILATION ET SYSTEMES L'INTEGRANT**
[72] TORRES, ANGELBERTO, US
[72] ANDERBERG, THOMAS AUTHOR, US
[72] PILZ, DON, US
[71] STOCKTON PRODUCTS, US
[22] 2022-10-14
[41] 2023-04-15
[30] US (63/256,506) 2021-10-15

[21] **3,179,286**
[13] A1
[51] **Int.Cl. G06T 7/00 (2017.01) G06T 7/10 (2017.01) G06N 3/02 (2006.01) G06T 1/40 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING A BOUNDARY IN IMAGES USING MACHINE LEARNING**
[54] **SYSTEME ET METHODE POUR DETECTER UNE LIMITE DANS LES IMAGES AU MOYEN DE L'APPRENTISSAGE AUTOMATIQUE**
[72] AHMADI, ELHAM, CA
[72] AMJADIAN, EHSAN, CA
[72] BERRILL, ARTHUR RICHARD, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2022-10-14
[41] 2023-04-15
[30] US (63/256,020) 2021-10-15

[21] **3,179,293**
[13] A1
[51] **Int.Cl. E01H 4/02 (2006.01)**
[25] EN
[54] **COMPUTER-AIDED METHOD FOR MAINTAINING A SNOW PISTE AND COMPUTER-AIDED SYSTEM FOR CARRYING OUT SUCH A METHOD**
[54] **METHODE ASSISTEE PAR ORDINATEUR POUR ENTRETENIR UNE PISTE DE NEIGE ET SYSTEME ASSISTE PAR ORDINATEUR POUR EXECUTER UNE TELLE METHODE**
[72] BEHMULLER, ANDREAS, DE
[72] HENGER, CLAUDIUS, DE
[71] KASSBOHRER GELANDEFAHRZEUG AG, DE
[22] 2022-10-14
[41] 2023-04-15
[30] EP (EP 22186655.1) 2022-07-25
[30] DE (DE 102021211674.4) 2021-10-15

[21] **3,179,297**
[13] A1
[51] **Int.Cl. B62B 5/00 (2006.01) B60D 1/145 (2006.01) B62B 3/02 (2006.01) B66F 19/00 (2006.01)**
[25] EN
[54] **LINKAGE FOR HAULING MATERIAL HANDLING EQUIPMENT**
[54] **LIAISON POUR MATERIEL DE MANUTENTION**
[72] BARBEAU, JEAN-YVES, CA
[72] LACHANCE, PIERRE-LUC, CA
[72] LAFLAMME, JONATHAN, CA
[72] GOYETTE, DANIEL, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-10-14
[41] 2023-04-15
[30] US (17/451,006) 2021-10-15

[21] **3,179,302**
[13] A1
[51] **Int.Cl. F01D 5/14 (2006.01) F01D 9/04 (2006.01)**
[25] EN
[54] **TURBINE BLADE AIRFOIL PROFILE**
[54] **PROFIL DE CONTOUR D'AUBE DE TURBINE**
[72] TARDIF, MARC, CA
[72] ROY, FRANCIS, CA
[72] DORAI, JONATHAN, CA
[72] ENNACER, HOMAMMED, CA
[72] LUYMES, BENJAMIN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-10-14
[41] 2023-04-15
[30] US (17/451.018) 2021-10-15

[21] **3,179,580**
[13] A1
[51] **Int.Cl. A01M 29/24 (2011.01) A01M 29/00 (2011.01)**
[25] EN
[54] **DEVICES AND METHODS RELATING TO ANIMAL DETERRENT SYSTEMS**
[54] **DISPOSITIFS ET METHODES CONCERNANT DES SYSTEMES POUR REPOUSSER LES ANIMAUX**
[72] MARTEL, DENNIS, CA
[71] MARTEL, DENNIS, CA
[22] 2022-10-17
[41] 2023-04-15
[30] US (63/362,601) 2021-10-15

[21] **3,181,735**
[13] A1
[51] **Int.Cl. A47K 13/10 (2006.01) A47K 13/12 (2006.01) E03D 9/00 (2006.01)**
[25] EN
[54] **TOILET DEVICE CONFIGURED TO PROVIDE A SELF-RISING TOILET SEAT AND METHOD OF USE THEREOF**
[54] **DISPOSITIF DE TOILETTE CONFIGURE POUR FOURNIR UN SIEGE DE TOILETTE A LEVAGE AUTOMATIQUE ET METHODE D'UTILISATION**
[72] BERRY, RICHARD ALAN, US
[71] BERRY, RICHARD ALAN, US
[22] 2022-11-10
[41] 2023-04-11
[30] US (17/524,538) 2021-11-11

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[21] **3,185,579**
[13] A1
[51] **Int.Cl. A61K 31/167 (2006.01) A61K 9/70 (2006.01) A61M 35/00 (2006.01)**
[25] EN
[54] **LIDOCAINE-CONTAINING PATCH**
[54] **TIMBRE CONTENANT DE LIDOCAINE**
[72] NAKASHIMA, KENTARO, JP
[72] TANAKA, YUSUKE, JP
[72] TSURUSHIMA, KEIICHIRO, JP
[71] HISAMITSU PHARMACEUTICAL CO., INC., JP
[22] 2022-12-20
[41] 2023-04-12
[30] JP (2022-075744) 2022-05-02

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[21] **3,188,464**
[13] A1
[51] **Int.Cl. B60B 35/16 (2006.01) B60B 35/00 (2006.01)**
[25] EN
[54] **AN ADJUSTABLE FRONT AXLE AND A VEHICLE HAVING SAME**
[54] **ESSIEU AVANT AJUSTABLE ET VEHICULE LE COMPRENANT**
[72] DU, DEHUI, CN
[72] FU, JIA, CN
[72] CHENG, BIN, CN
[71] SHANGHAI LINGHUO TRADING CO., LTD., CN
[22] 2023-02-03
[41] 2023-04-11
[30] CN (202223241482.9) 2022-12-02
[30] CN (202223243015.X) 2022-12-02
[30] CN (202223241559.2) 2022-12-02
[30] CN (202223243012.6) 2022-12-02

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[21] **3,193,008**
[13] A1
[51] **Int.Cl. B60B 35/16 (2006.01) B60B 35/00 (2006.01)**
[25] EN
[54] **AN ADJUSTABLE FRONT AXLE AND A VEHICLE HAVING SAME**
[54] **ESSIEU AVANT AJUSTABLE ET VEHICULE LE COMPRENANT**
[72] DU, DEHUI, CN
[72] FU, JIA, CN
[72] CHENG, BIN, CN
[71] SHANGHAI LINGHUO TRADING CO., LTD., CN
[22] 2023-02-03
[41] 2023-04-11
[62] 3,188,464
[30] CN (202223241482.9) 2022-12-02
[30] CN (202223243015.X) 2022-12-02
[30] CN (202223241559.2) 2022-12-02
[30] CN (202223243012.6) 2022-12-02

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[21] **3,193,021**
[13] A1
[51] **Int.Cl. B60B 35/16 (2006.01) B60B 35/00 (2006.01)**
[25] EN
[54] **AN ADJUSTABLE FRONT AXLE AND A VEHICLE HAVING SAME**
[54] **ESSIEU AVANT AJUSTABLE ET VEHICULE LE COMPRENANT**
[72] DU, DEHUI, CN
[72] FU, JIA, CN
[72] CHENG, BIN, CN
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[54] **PIPELINE CLOCK DRIVING CIRCUIT, COMPUTING CHIP, HASHBOARD AND COMPUTING DEVICE**
[54] **CIRCUIT D'ATTAQUE D'HORLOGE DE PIPELINE, PUCE INFORMATIQUE, TABLE DE HACHAGE ET DISPOSITIF INFORMATIQUE**
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[72] FAN, ZHIJUN, CN
[72] XU, CHAO, CN
[72] DUAN, LIANHUA, CN
[72] GUO, HAIFENG, CN
[71] SHENZHEN MICROBT ELECTRONICS TECHNOLOGY CO., LTD., CN
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[54] **APPARATUS FOR IRRIGATION AND SUCTIONING OF THE ORAL CAVITY**
[54] **APPAREIL D'IRRIGATION ET D'ASPIRATION DE LA CAVITE BUCCALE**
[72] MCCARTHY, DEANNE, CA
[72] GILLESPIE, CHRISTOPHER DAVID, CA
[72] ATWELL, KATHRYN MARGARET ANN, CA
[72] IRONSTONE, JOEL, CA
[72] ASSELIN, MATTHEW, CA
[72] TATCHELL, RORY, CA
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[54] **A FRACTURING DEVICE DRIVEN BY A VARIABLE-FREQUENCY ADJUSTABLE-SPEED INTEGRATED MACHINE AND A WELL SITE LAYOUT**
[54] **DISPOSITIF DE FRACTURATION ENTRAINE PAR UNE MACHINE INTEGREE A VITESSE AJUSTABLE ET A FREQUENCE VARIABLE ET AGENCEMENT DE SITE DE PUITS**
[72] CUI, SHUZHEN, CN
[72] CHANG, SHENG, CN
[72] ZHAO, DAWEI, CN
[72] LI, SHOUZHE, CN
[72] LV, LIANG, CN
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[54] **PROCEDE DE PREPARATION DE 2,6-BIS (HYDROXYMETHYL)PYRIDINE PAR CATALYSE ENZYMATIQUE**
[72] HELD, MARTIN, CH
[72] PANKE, SVEN, CH
[72] KARDASHLIEV, TSVETAN, CH
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[54] **ASSURANCE DE CHARGE UTILE AU NIVEAU DE MULTIPLES FRONTIERES DE RESEAU**
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[72] THORP, JOHN ALAN, GB
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[54] **METHOD AND SYSTEM OF UNDERGROUND DEPLOYMENT OF MATERIALS AND EQUIPMENT**
[54] **PROCEDE ET SYSTEME DE DEPLOIEMENT SOUTERRAIN DE MATERIELS ET D'EQUIPEMENTS**
[72] HELLIWELL, JAMES, GB
[72] MEEKS, ALAN, GB
[72] JORDAN, STEVE, GB
[71] HYPERTUNNEL IP LIMITED, GB
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[54] **MACROPHAGES ACTIVES PAR STAT, COMPOSITIONS ET UTILISATIONS ASSOCIEES**
[72] VILLAGRA, ALEJANDRO, US
[72] NOONEPALLE, SATISH, US
[72] HERNANDEZ, MARIA DEL MAR GRACIA, US
[71] THE GEORGE WASHINGTON UNIVERSITY, A CONGRESSIONALLY CHARTERED NOT-FOR-PROFIT CORPORATION, US
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[54] **METHOD AND APPARATUS FOR ASSISTING IN EXTRACTION OF FLUID FROM COAL-SEAMS**
[54] **PROCEDE ET APPAREIL PERMETTANT D'AIDER A L'EXTRACTION DE FLUIDE A PARTIR DE VEINES DE CHARBON**
[72] BRESNEHAN, RODNEY MICHAEL, AU
[71] CFT TECHNOLOGIES PTY LTD, AU
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[54] **PARKING SENSOR DEVICE FOR DETERMINING OCCUPANCY OF A PARKING SPACE**
[54] **DISPOSITIF DE DETECTION DE STATIONNEMENT POUR DETERMINER L'OCCUPATION D'UN ESPACE DE STATIONNEMENT**
[72] CLEMMER, JEFFREY RONALD, CA
[72] SNYDER, CHRIS, CA
[72] DAVIES, BRANDON, CA
[72] SWOBODA, JONATHAN, CA
[71] ELEVEN-X INCORPORATED, CA
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[25] EN
[54] **INJECTION MODULE**
[54] **MODULE D'INJECTION**
[72] JOHNSTON, DARREN, CA
[72] CULLEN, MARK, CA
[72] MACNEIL, TARA, CA
[71] 2287225 ALBERTA LTD., CA
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[25] EN
[54] **ULTRAVIOLET LIGHT-BLOCKING COATED PHARMACEUTICAL PACKAGES**
[54] **EMBALLAGES PHARMACEUTIQUES REVETUS BLOQUANT LA LUMIERE ULTRAVIOLETTE**
[72] FADEEV, ANDREI GENNADYEVICH, US
[72] HENRY, DAVID, FR
[72] LACARRIERE, VALERIE CLAUDINE, FR
[72] PEANASKY, JOHN STEPHEN, US
[72] ROY CHOUDHURY, SHREYA, US
[72] SIMONTON, KRISTI LYNN, US
[72] SMITH, BRYAN HENRY, US
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[71] CORNING INCORPORATED, US
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[54] **DISPOSITIF DE CHAUFFAGE ET DE MOUSSAGE DE LAIT**
[72] MOLINARO, GABRIELE, IT
[72] PICONE, GABRIELE LUCIANO, IT
[72] KUIPER, JELMER JEROEN, IT
[72] VERLOOP, THOMAS GERARD, IT
[71] LUIGI LAVAZZA S.P.A., IT
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[72] VAN DER MEULEN, ROEL, BE
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[25] EN
[54] **CHARGING DEVICE FOR ELECTRICALLY OPERATED VEHICLES AND METHOD**
[54] **DISPOSITIF DE CHARGE POUR VEHICULES ELECTRIQUES ET PROCEDE ASSOCIE**
[72] WEGENER, WILLI, DE
[72] BANZHAF-SCHALL, BEATE, DE
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[54] **GRIL ET FUMOIR INTEGRES DE STYLE KAMADO**
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[72] GAZDICK, DONALD STEPHEN III, US
[72] MERCER, DANIEL, US
[72] PRUITT, JOSEPH, US
[72] AASNESS, KYLE, US
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[54] **SYSTEMS AND METHODS FOR MANAGING BRAIN INJURY AND MALFUNCTION**
[54] **SYSTEMES ET METHODES DE GESTION DE LESION CEREBRALE ET DE DYSFONCTIONNEMENT CEREBRAL**
[72] BECKER, LYNNE E., US
[71] POWER OF PATIENTS, LLC, US
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[54] **METHOD FOR WHITENING TOBACCO**
[54] **PROCEDE DE BLANCHISSEMENT DE TABAC**
[72] MCCLANAHAN, DAVID NEIL, US
[72] CASTELIJN, BAS, GB
[72] SUNDVALL, LARS OLOV, GB
[72] SVENSSON, RICHARD, GB
[71] NICOVENTURES TRADING LIMITED, GB
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[54] **PROCEDE DE DETERMINATION DE PARAMETRES PHYSIQUES D'UN TISSU VASCULAIRE D'UNE PLANTE**
[72] VERBIEST, GERARD JAN, NL
[72] STEENEKEN, PETER GERARD, NL
[72] DUTTA, SATADAL, NL
[72] KAISER, MARTIN ELIAS, NL
[72] MATAMOROS, PRISCILA ROCIO MALCOLM, NL
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[71] WAGENINGEN UNIVERSITEIT, NL
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[54] **CLOSED-ENDED DNA VECTORS AND USES THEREOF FOR EXPRESSING PHENYLALANINE HYDROXYLASE (PAH)**
[54] **VECTEURS D'ADN A EXTREMITE FERMEE ET UTILISATIONS ASSOCIEES POUR EXPRIMER DE LA PHENYLALANINE HYDROXYLASE (PAH)**
[72] LIU, LEAH YU, US
[72] MONDS, RUSSELL, US
[72] CHIOCCO, MATTHEW JAMES, US
[72] SILVER, NATHANIEL, US
[72] SAMAYOA, PHILLIP, US
[72] KERR, DOUGLAS ANTHONY, US
[72] KEENAN, JESSICA LYNN, US
[71] GENERATION BIO CO., US
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[54] **SYSTEME DE MESURE DE DEBIT DE MILIEU FLUIDE**
[72] PAVARINI, GIULIANO, IT
[71] ARAG S.R.L., IT
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[54] **AGENTS ET PROCEDES POUR UNE ADMINISTRATION CIBLEE EN DIRECTION DE CELLULES**
[72] SAHIN, UGUR, DE
[72] WUSTEHUBE-LAUSCH, JOYCELYN, DE
[72] SCHMOLDT, HANS-ULRICH, DE
[71] BIONTECH SE, DE
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[54] **SYSTEME D'OBTENTION D'UN PREPOLYMERE PHOTOPOLYMERISE**
[72] INDYK, DENIS, US
[72] TRUSHIN, ALEXANDER, US
[72] TRUSHINA, ANNA, US
[72] DUBOV, ALEKSEI, US
[72] STARODUBTSEV, DMITRY, US
[72] SOLONITSYN, SLAVA, US
[71] MIGHTY BUILDINGS, INC., US
[85] 2023-03-06
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[25] EN
[54] **SYSTEM AND METHOD FOR CREATING AN OBJECT WITH A CONDUIT WITH PARTICULAR VASCULAR APPLICATIONS**
[54] **SYSTEME ET PROCEDE DE CREATION D'UN OBJET DOTE D'UN CONDUIT AUX APPLICATIONS VASCULAIRES PARTICULIERES**
[72] BENNETT, ERIC, US
[71] FRONTIER BIO CORPORATION, US
[85] 2023-03-06
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[25] EN
[54] **NEEDLE-FREE INJECTOR, ASSOCIATED RELOADABLE AND DISPOSABLE NOZZLES, AND METHODS OF INJECTION**
[54] **INJECTEUR SANS AIGUILLE, BUSES RECHARGEABLES ET JETABLES ASSOCIEES, ET METHODES D'INJECTION**
[72] MAZZAFERRO, DANIEL M., US
[72] BARTLETT, SCOTT P., US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[71] THE CHILDREN'S HOSPITAL OF PHILADELPHIA, US
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[25] EN
[54] **SYSTEMS AND METHODS FOR SEIZURE DETECTION WITH A STATISTICAL ANALYSIS AND AN ARTIFICIAL INTELLIGENCE ANALYSIS**
[54] **SYSTEMES ET METHODES DE DETECTION DE CRISES EPILEPTIQUESPAR ANALYSE STATISTIQUE ET ANALYSE D'INTELLIGENCE ARTIFICIELLE**
[72] HECOX, KURT E., US
[71] ADVANCED GLOBAL CLINICAL SOLUTIONS INC., US
[85] 2023-03-06
[86] 2021-09-07 (PCT/US2021/049249)
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[54] **RUBAN ADHESIF DURABLE ACTIVE PAR L'EAU**
[72] TYNAN, JOHN K., US
[72] CULLEN, JOHN, US
[72] ISSER, NATHAN, US
[71] INTERTAPE POLYMER CORP., US
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[54] **AT LEAST PARTIALLY COATED ELECTRODE ACTIVE MATERIAL, ITS MANUFACTURE AND USE**
[54] **MATERIAU ACTIF D'ELECTRODE AU MOINS PARTIELLEMENT REVETU, SA FABRICATION ET SON UTILISATION**
[72] WU, XIAOHAN, DE
[71] BASF SE, DE
[85] 2023-03-06
[86] 2021-08-27 (PCT/EP2021/073711)
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[30] EP (20195256.1) 2020-09-09

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[51] **Int.Cl. A61N 7/02 (2006.01)**
[25] EN
[54] **TRANSCRANIAL MR-GUIDED HISTOTRIPSY SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES D'HISTOTRIPSIE GUIDEE PAR RM TRANSCRANIENNE**
[72] XU, ZHEN, US
[72] NOLL, DOUGLAS, US
[72] HALL, TIMOTHY L., US
[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US
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[86] 2021-09-13 (PCT/US2021/050088)
[87] (WO2022/056394)
[30] US (63/077,440) 2020-09-11
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[25] EN
[54] **TOTAL ARTHROPLASTY OF THE CARPOMETACARPAL JOINT**
[54] **ARTHROPLASTIE TOTALE DE L'ARTICULATION CARPO-METACARPIENNE**
[72] HOTCHKISS, ROBERT, US
[72] DALUISKI, AARON, US
[72] WRIGHT, TIMOTHY, US
[72] QUEVEDO-GONZALEZ, FERNANDO, US
[72] LIPMAN, JOSEPH, US
[72] OSEI, DANIEL, US
[72] LO, DARRICK, US
[72] SARKAR, RITVIK, US
[71] NEW YORK SOCIETY FOR THE RELIEF OF THE RUPTURED AND CRIPPLED, MAINTAINING THE HOSPITAL FOR SPECIAL SURGERY, US
[85] 2023-03-07
[86] 2021-09-15 (PCT/US2021/050486)
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[25] EN
[54] **SYSTEMS AND METHODS FOR A HYBRID POWER GRID**
[54] **SYSTEMES ET PROCEDES POUR UN RESEAU ELECTRIQUE HYBRIDE**
[72] NIRANTARE, PRASANNA S., IN
[71] CUMMINS POWER GENERATION INC., US
[85] 2023-03-07
[86] 2021-09-09 (PCT/US2021/049645)
[87] (WO2022/056114)
[30] US (63/077,106) 2020-09-11

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[25] EN
[54] **DEVICE AND METHOD FOR ASSESSING DISCOMFORT AND/OR DISABILITY GLARE OF A SUBJECT**
[54] **DISPOSITIF ET PROCEDE D'EVALUATION DE L'EBLOUISSEMENT INCONFORTABLE ET/OU DE L'EBLOUISSEMENT PERTURBATEUR D'UN SUJET**
[72] GIRAUDET, GUILLAUME, FR
[72] TARTAGLIA, ELISA, FR
[72] SCHERLEN, ANNE-CATHERINE, FR
[72] PERROT, STEPHANE, FR
[72] DUBAIL, MARIE, FR
[71] ESSILOR INTERNATIONAL, FR
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[86] 2021-09-16 (PCT/EP2021/075538)
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[51] **Int.Cl. A61F 13/49 (2006.01)**
[25] EN
[54] **REUSABLE UNDERWEAR WITH REMOVABLY ATTACHABLE LINERS**
[54] **SOUS-VETEMENT REUTILISABLE AVEC DOUBLURES POUVANT ETRE FIXEES DE MANIERE AMOVIBLE**
[72] KURT, ALYSSA, US
[72] MATUS, KRISTY, US
[72] STEHLIK, JOSEPH, US
[72] PETERSON, ALLEE, US
[71] MEDLINE INDUSTRIES, LP, US
[85] 2023-03-07
[86] 2021-09-20 (PCT/US2021/051112)
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[51] **Int.Cl. C12M 1/00 (2006.01) C12M 3/06 (2006.01)**
[25] EN
[54] **FLUID TRANSPORT AND DISTRIBUTION MANIFOLD**
[54] **COLLECTEUR DE TRANSPORT ET DE DISTRIBUTION DE FLUIDE**
[72] BANCHIERI, ANDREW, US
[72] WEISER, DAVID, US
[72] HAUSER, BRIAN, US
[71] SUNFLOWER THERAPEUTICS, PBC, US
[85] 2023-03-07
[86] 2021-09-07 (PCT/US2021/049256)
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[30] US (63/075,447) 2020-09-08

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[51] **Int.Cl. C07J 7/00 (2006.01) C07J 17/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING (3A,5A)-3-HYDROXY-3-METHYL-PREGNAN -20- ONE (GANAXOLONE)**
[54] **PROCEDE DE PREPARATION DE (3A, 5A)-3-HYDROXY-3-METHYL-PREGNAN-20-ONE (GANAXOLONE)**
[72] LENNA, ROBERTO, IT
[72] FASANA, ANDREA, IT
[72] DELFRATE, CLAUDIO, IT
[72] ORTIZ BLACIO, JERRY DAVID, IT
[71] INDUSTRIALE CHIMICA S.R.L., IT
[85] 2023-03-07
[86] 2021-09-08 (PCT/IB2021/058149)
[87] (WO2022/053937)
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[25] EN
[54] **IMAGING MARKERS FOR VERIFYING BIOMETRY**
[54] **MARQUEURS D'IMAGERIE POUR VERIFIER LA BIOMETRIE**
[72] CHARLES, STEVEN T., US
[72] HOSSEINZADEH KASSANI, SAHAR, US
[71] ALCON INC., CH
[85] 2023-03-07
[86] 2021-09-17 (PCT/IB2021/058503)
[87] (WO2022/064337)
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[51] **Int.Cl. G01N 30/02 (2006.01) G01N 30/24 (2006.01) G01N 30/72 (2006.01)**
[25] EN
[54] **COMBINED DEVICE OF LIQUID-PHASE MASS SPECTROMETRY SAMPLING AND ELECTROSPRAY**
[54] **DISPOSITIF COMBINE D'ECHANTILLONNAGE PAR SPECTROMETRIE DE MASSE LIQUIDE ET ELECTRONEBULISATION**
[72] ZHU, JANSHON, CN
[71] GUANGDONG LIANJIE BIOTECHNOLOGY CO., LTD., CN
[85] 2023-03-07
[86] 2021-09-02 (PCT/CN2021/116191)
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[25] EN
[54] **POWDER COMPOSITION BASED ON MICROPARTICLES EMBEDDING NANOPARTICLES FOR THE DELIVERY OF THERAPEUTIC/DIAGNOSTIC COMPOUNDS**
[54] **COMPOSITION DE POUDRE A BASE DE MICROPARTICULES INCORPORANT DES NANOPARTICULES POUR L'ADMINISTRATION DE COMPOSES THERAPEUTIQUES/DIAGNOSTIQUES**
[72] CATALUCCI, DANIELE, IT
[72] IAFISCO, MICHELE, IT
[72] COLOMBO, PAOLO, IT
[72] QUARTA, ERIDE, IT
[71] CONSIGLIO NAZIONALE DELLE RICHERCHE, IT
[71] PLUMESTARS S.R.L., IT
[85] 2023-03-07
[86] 2021-09-09 (PCT/IB2021/058184)
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[25] FR
[54] **ASTROCYTIC TRPA1 CHANNEL INHIBITION AS A NOVEL NEUROPROTECTIVE THERAPEUTIC TARGET IN THE PRODROMAL PHASES OF ALZHEIMER'S DISEASE**
[54] **INHIBITION DU CANAL TRPA1 ASTROCYTAIRE COMME NOUVELLE CIBLE THERAPEUTIQUE NEUROPROTECTRICE DANS LES PHASES PRODROMALES DE LA MALADIE D'ALZHEIMER**
[72] ALBRIEUX, MIREILLE, FR
[72] PAUMIER, ADRIEN, FR
[72] BOSSON, ANTHONY, FR
[72] BUISSON, ALAIN, FR
[72] BOISSEAU, SYLVIE, FR
[71] UNIVERSITE GRENOBLES ALPES, FR
[71] INSTITUT NATIONAL DE LA SANT ET DE LA RECHERCHE MEDICALE (INSERM), FR
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[86] 2021-09-17 (PCT/IB2021/058487)
[87] (WO2022/058946)
[30] FR (2009509) 2020-09-18

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[13] A1
[51] **Int.Cl. E05C 17/52 (2006.01)**
[25] FR
[54] **DEVICE FOR HOLDING AN OPENING ELEMENT IN AN AJAR POSITION, COMPRISING A PROTECTIVE WALL**
[54] **DISPOSITIF DE MAINTIEN EN POSITION ENTREBAILLEE D'UN ELEMENT OUVRANT COMPRENANT UNE PAROI DE PROTECTION**
[72] BOURGEOIS, OLIVIER, FR
[72] LEON, BERTRAND, FR
[71] EXSTO THERMOPLASTICS, FR
[85] 2023-03-07
[86] 2021-09-10 (PCT/FR2021/051552)
[87] (WO2022/053767)
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[13] A1
[51] **Int.Cl. G01N 1/14 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **PIPETTE DISPENSER SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DISTRIBUTEUR DE PIPETTES**
[72] DENOMME, RYAN CAMERON, CA
[72] IYER, KRISHNA, CA
[72] STERLINA, PATRICK, US
[72] HALL, GORDON H., CA
[72] SUDARSAN, ARJUN, US
[71] NICOYA LIFESCIENCES INC., CA
[85] 2023-03-07
[86] 2021-09-07 (PCT/CA2021/051231)
[87] (WO2022/051840)
[30] US (63/075,541) 2020-09-08
[30] US (63/139,173) 2021-01-19
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[51] **Int.Cl. C07K 14/705 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS RELATING TO ASSESSMENT OF INFLAMMATORY CONDITIONS RELATING TO FERTILITY**
[54] **METHODES ET COMPOSITIONS SE RAPPORTANT A L'EVALUATION D'ETATS INFLAMMATOIRES LIES A LA FERTILITE**
[72] GUTIERREZ, GABRIELA LIDIA, AR
[72] AZPIROZ, MARIA AGUSTINA, US
[71] MICROGENESIS CORPORATION, US
[71] CONSEJO NACIONAL DE INVESTIGACIONES CIENTIFICAS Y TECNICAS (CONICET), AR
[85] 2023-03-07
[86] 2021-09-09 (PCT/US2021/049604)
[87] (WO2022/056090)
[30] US (63/076,690) 2020-09-10

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[51] **Int.Cl. F23H 3/02 (2006.01) F23H 7/14 (2006.01)**
[25] EN
[54] **WATER-COOLED GRATE BLOCK FOR AN INCINERATOR**
[54] **BLOC DE GRILLE REFROIDI PAR EAU POUR INCINERATEUR**
[72] WALDNER, MAURICE HENRI, CH
[72] BRENNWALD, WERNER, CH
[71] HITACHI ZOSEN INOVA AG, CH
[85] 2023-03-07
[86] 2021-09-09 (PCT/EP2021/074784)
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[30] EP (20195293.4) 2020-09-09

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[51] **Int.Cl. H02J 3/14 (2006.01) H02S 10/00 (2014.01) H02J 3/38 (2006.01) H02J 7/35 (2006.01)**
[25] EN
[54] **OFF-GRID ELECTRICAL POWER SYSTEM**
[54] **SYSTEME D'ALIMENTATION ELECTRIQUE HORS RESEAU**
[72] SILVA, WILLIAM GRANT, US
[72] ERICKSON, NEAL ROBERT, US
[71] UNITED RENEWABLE ENERGY, LLC, US
[85] 2023-03-07
[86] 2021-08-23 (PCT/US2021/047084)
[87] (WO2022/055695)
[30] US (17/019,744) 2020-09-14

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[51] **Int.Cl. A61F 13/02 (2006.01) A61M 5/14 (2006.01) A61M 25/02 (2006.01)**
[25] EN
[54] **MEDICAL CONNECTORS HAVING INTEGRATED ADHESIVE BACKING**
[54] **CONNECTEURS MEDICAUX AYANT UN SUPPORT ADHESIF INTEGRE**
[72] WINE, JASON ANDREW, US
[72] ZOLLINGER, CHRIS JESSE, US
[71] CAREFUSION 303, INC., US
[85] 2023-03-07
[86] 2021-09-20 (PCT/US2021/051144)
[87] (WO2022/066586)
[30] US (17/030,058) 2020-09-23

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[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/024 (2006.01) A61B 5/08 (2006.01) A61G 7/057 (2006.01)**
[25] EN
[54] **INTELLIGENT WEIGHT SYSTEM**
[54] **SYSTEME DE POIDS INTELLIGENT**
[72] MAIN, IAN, CA
[72] NAJAFI, MOHAMMAD, CA
[72] KNIGHT, MITCHELL ROBERT, CA
[72] CHUI, ADELE SYT FU, CA
[72] HECKBERT, DYLAN, CA
[72] VINCE, MURRAY ROSS, CA
[72] MALKINSON, BRUCE, CA
[72] GORJANC, TIM, CA
[71] XSENSOR TECHNOLOGY CORPORATION, CA
[85] 2023-03-07
[86] 2021-09-04 (PCT/IB2021/000598)
[87] (WO2022/053863)
[30] US (17/019,090) 2020-09-11
[30] US (63/080,271) 2020-09-18
[30] US (63/170,091) 2021-04-02
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[51] **Int.Cl. C11D 3/00 (2006.01) C11D 3/04 (2006.01) C11D 7/10 (2006.01) C11D 11/00 (2006.01) C11D 7/06 (2006.01)**
[25] EN
[54] **REDUCING AGENT AS CORROSION INHIBITOR FOR MACHINE WAREWASH**
[54] **AGENT REDUCTEUR UTILISE EN TANT QU'INHIBITEUR DE CORROSION POUR LAVAGE DE VAISSELLE EN MACHINE**
[72] LUNDBERG, STEVEN, US
[72] JENSEN, ANDREW M., US
[72] MANSERGH, JOHN, US
[72] SILVERNAIL, CARTER M., US
[72] OLSON, ERIK C., US
[72] ANDERSON, DERRICK, US
[72] EXLINE, MARA, US
[71] ECOLAB USA INC., US
[85] 2023-03-07
[86] 2021-10-29 (PCT/US2021/057336)
[87] (WO2022/094265)
[30] US (63/107,513) 2020-10-30
[30] US (63/260,237) 2021-08-13

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[51] **Int.Cl. B01J 8/02 (2006.01) B01J 8/04 (2006.01)**
[25] EN
[54] **PROCESS VESSEL ENTRY ZONES**
[54] **ZONES D'ENTREE DE RECIPIENT DE TRAITEMENT**
[72] GLOVER, BRADLEY, US
[72] SCHNEIDER, AUSTIN, US
[72] GLOVER, JOHN N., US
[72] HAM, PETER GREGORY, US
[71] CRYSTAPHASE PRODUCTS, INC., US
[85] 2023-03-07
[86] 2021-09-09 (PCT/US2021/049704)
[87] (WO2022/056154)
[30] US (63/076,226) 2020-09-09

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[51] **Int.Cl. A61B 5/11 (2006.01) G06T 7/246 (2017.01) G16H 30/40 (2018.01) G16H 50/30 (2018.01) G06N 20/00 (2019.01) G06V 40/10 (2022.01) G06N 3/0455 (2023.01) A61B 5/103 (2006.01) G06T 5/00 (2006.01)**
[25] EN
[54] **METHODS AND APAPRATUS FOR MACHINE LEARNING TO ANALYZE MUSCULO-SKELETAL REHABILITATION FROM IMAGES**
[54] **PROCEDES ET APPAREIL D'APPRENTISSAGE MACHINE POUR ANALYSER UNE READAPTATION MUSCULO-SQUELETTIQUE A PARTIR D'IMAGES**
[72] BAEK, STEPHEN, US
[72] ROBILLARD, JEAN, US
[72] DIAZ-ARIAS, ALEC, US
[72] MESSMORE, MITCHELL, US
[72] SHIN, DMITRY, US
[72] RACHID, JOHN, US
[71] UNIVERSITY OF IOWA RESEARCH FOUNDATION, US
[71] INSEER, INC., US
[85] 2023-03-07
[86] 2021-09-10 (PCT/US2021/049876)
[87] (WO2022/056271)
[30] US (63/077,335) 2020-09-11
[30] US (63/202,298) 2021-06-04

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[13] A1
[51] **Int.Cl. A61N 1/40 (2006.01) A61N 2/00 (2006.01) A61N 2/02 (2006.01)**
[25] EN
[54] **STIMULATION DEVICE FOR STIMULATING A NERVE**
[54] **DISPOSITIF DE STIMULATION D'UN NERF**
[72] MULLER-BRUHN, RONJA, CH
[72] DEGEN, THOMAS, CH
[72] FENGELS, DIRK, CH
[71] STIMIT AG, CH
[85] 2023-03-08
[86] 2021-09-23 (PCT/EP2021/076273)
[87] (WO2022/063934)
[30] CH (01209/20) 2020-09-23
[30] CH (01347/20) 2020-10-19

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[13] A1
[51] **Int.Cl. A23C 11/10 (2021.01) A23L 33/185 (2016.01) A23L 11/60 (2021.01) A23G 9/04 (2006.01) A23G 9/32 (2006.01) A23G 9/38 (2006.01) A23G 9/52 (2006.01) A23J 3/14 (2006.01)**
[25] EN
[54] **PLANT BASED SOFT SERVE FROZEN DESSERT COMPOSITION**
[54] **COMPOSITION DE DESSERT GLACE MOU A BASE DE PLANTES**
[72] WOOSTER, TIMOTHY JAMES, CH
[72] BORTOLIN, MARINA, CH
[72] RICHON, PIERRE-ALAIN, CH
[72] GERBER, BEAT, CH
[72] HUGO, JULIEN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2023-03-08
[86] 2021-09-10 (PCT/EP2021/074969)
[87] (WO2022/053633)
[30] EP (20195593.7) 2020-09-10

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[13] A1
[51] **Int.Cl. B32B 5/26 (2006.01) B32B 17/02 (2006.01) B32B 33/00 (2006.01) B32B 38/00 (2006.01) E04C 2/296 (2006.01)**
[25] FR
[54] **PANEL FOR AIR-CONDITIONING DUCTS**
[54] **PANNEAU POUR CONDUITS DE CLIMATISATION**
[72] PEREZ, MARIA LUISA, ES
[72] DIEZ, ALFONSO, ES
[72] RICO, MARIANO, ES
[72] LOPEZ, GREGORIO, ES
[71] SAINT-GOBAIN ISOVER, FR
[85] 2023-03-08
[86] 2021-09-14 (PCT/EP2021/075168)
[87] (WO2022/053700)
[30] FR (2009279) 2020-09-14

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[13] A1
[51] **Int.Cl. A61B 10/02 (2006.01)**
[25] EN
[54] **ABSORPTIVE TIP BRUSH BIOPSY DEVICE, KIT AND METHOD**
[54] **DISPOSITIF, KIT ET PROCEDE DE BIOPSIE A POINTE DE BROSSE ABSORBANTE**
[72] MALANOWSKA-STEGA, ZANETTA, US
[72] STEGA, DAMIAN, US
[71] TECHMED VENTURES, LLC, US
[71] MALANOWSKA-STEGA, ZANETTA, US
[71] STEGA, DAMIAN, US
[85] 2023-03-08
[86] 2021-09-08 (PCT/US2021/049527)
[87] (WO2022/056038)
[30] US (63/075,728) 2020-09-08

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[13] A1
[51] **Int.Cl. H01T 13/08 (2006.01) H01T 13/46 (2006.01) H01T 13/54 (2006.01)**
[25] EN
[54] **SPARK PLUG AND METHOD FOR PRODUCING A SPARK PLUG**
[54] **BOUGIE D'ALLUMAGE ET PROCEDE DE PRODUCTION DE BOUGIE D'ALLUMAGE**
[72] PRANKL, STEFAN, AT
[72] KLAUSNER, JOHANN, AT
[72] GRABNER, ROBERT, AT
[71] GE JENBACHER GMBH & CO OG, AT
[85] 2023-03-08
[86] 2020-10-22 (PCT/AT2020/060378)
[87] (WO2022/082232)

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[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/38 (2006.01) C12Q 1/26 (2006.01) G01N 33/84 (2006.01)**
[25] EN
[54] **ANTI-CERULOPLASMIN ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-CERULOPLASMINE ET LEURS UTILISATIONS**
[72] POTTER, DAVID GEORGE, US
[72] DZIELAWA, JENNIFER ANN, US
[72] CARTER, BRENDA SUE, US
[72] MA, MARK, US
[71] ALEXION PHARMACEUTICALS, INC., US
[85] 2023-03-08
[86] 2021-09-10 (PCT/US2021/049890)
[87] (WO2022/056278)
[30] US (63/077,155) 2020-09-11

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[13] A1
[51] **Int.Cl. G01R 15/18 (2006.01) G01R 1/04 (2006.01) G01R 15/20 (2006.01)**
[25] EN
[54] **ROGOWSKI COIL POSITIONING AND RETAINING APPARATUS**
[54] **APPAREIL DE POSITIONNEMENT ET DE RETENUE D'ENROULEMENT DE ROGOWSKI**
[72] RIBEIRO, CLAUDIO SANTIAGO, US
[72] GEBHARDT, JASON, US
[72] MARABOTTO, EDUARDO, US
[71] UBICQUIA, INC., US
[85] 2023-03-08
[86] 2021-10-08 (PCT/US2021/054317)
[87] (WO2022/076921)
[30] US (63/089,480) 2020-10-08
[30] US (17/497,839) 2021-10-08

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[13] A1
[51] **Int.Cl. B01D 29/11 (2006.01) B01D 35/06 (2006.01) B01D 35/30 (2006.01) B03C 1/00 (2006.01) F16L 55/24 (2006.01)**
[25] EN
[54] **MAGNETIC BAFFLE INSERT FOR USE WITH A BASKET STRAINER**
[54] **INSERT DE DEFLECTEUR MAGNETIQUE DESTINE A ETRE UTILISE AVEC UNE CREPINE A PANIER**
[72] RICHTER, JAMES R., US
[72] ROGIN, MARTIN I., US
[72] BOLLITO, KATHLEEN ELIZABETH, US
[72] PATIL, GANESH APPASAHEB, US
[71] THE METRAFLEX COMPANY, US
[85] 2023-03-08
[86] 2021-08-20 (PCT/US2021/046816)
[87] (WO2022/060524)
[30] US (17/021,186) 2020-09-15

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[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 25/28 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **METHOD OF TREATING AMYLOIDOSIS**
[54] **METHODE DE TRAITEMENT DE L'AMYLOSE**
[72] SPECTOR, MICHAEL, US
[72] SOBOLOV-JAYNES, SUSAN B., US
[72] KAHSAI, MICHAEL, US
[72] LUBINIECKI, ANTHONY S., US
[72] RAVIWONG, JESSICA G., US
[71] CAELUM BIOSCIENCES, INC., US
[85] 2023-03-08
[86] 2021-09-14 (PCT/US2021/050316)
[87] (WO2022/056484)
[30] US (63/078,258) 2020-09-14
[30] US (63/116,100) 2020-11-19
[30] US (63/176,015) 2021-04-16

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[51] **Int.Cl. A24F 40/465 (2020.01)**
[25] EN
[54] **HEATER DEVICE COMPONENT**
[54] **COMPOSANT DE DISPOSITIF CHAUFFANT**
[72] WRIGHT, ALEC, GB
[71] JT INTERNATIONAL S.A., CH
[85] 2023-03-08
[86] 2021-09-06 (PCT/EP2021/074514)
[87] (WO2022/053438)
[30] EP (20195058.1) 2020-09-08

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[51] **Int.Cl. C07D 405/12 (2006.01) C07D 215/16 (2006.01) C07D 401/12 (2006.01) C07D 403/12 (2006.01) C07D 413/12 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING MUSCULAR DYSTROPHIES**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE DYSTROPHIES MUSCULAIRES**
[72] CROSBIE, RACHELLE H., US
[72] SHU, CYNTHIA, US
[72] JOHN, VARGHESE, US
[72] CAMPAGNA, JESUS, US
[72] JAGODZINSKA, BARBARA, US
[72] PARFENOVA, LIUBOV, US
[72] MOKHONOVA, EKATERINA, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2023-03-08
[86] 2021-09-08 (PCT/US2021/049362)
[87] (WO2022/055926)
[30] US (63/077,329) 2020-09-11
[30] US (63/148,823) 2021-02-12

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[51] **Int.Cl. A61M 5/00 (2006.01) G16H 20/17 (2018.01) G06K 7/00 (2006.01) G06K 19/077 (2006.01) G06M 1/00 (2006.01)**
[25] EN
[54] **MEDICAL CONTAINER COMPRISING A RFID TAG FOR REMOTE IDENTIFICATION OF SAID MEDICAL CONTAINER**
[54] **RECIPIENT MEDICAL COMPRENANT UNE ETIQUETTE RFID POUR IDENTIFICATION A DISTANCE**
[72] RIVIER, CEDRIC, FR
[72] EUVRARD, NICOLAS, US
[71] BECTON, DICKINSON FRANCE, FR
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-03-08
[86] 2021-09-15 (PCT/EP2021/075395)
[87] (WO2022/058394)
[30] EP (20306050.4) 2020-09-18

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[51] **Int.Cl. A61F 2/16 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **OPHTHALMIC LENS WITH PHASE-SHIFT STRUCTURE AND METHOD**
[54] **LENTILLE OPHTALMIQUE AVEC STRUCTURE A DEPHASAGE ET PROCEDE**
[72] HONG, XIN, US
[71] ALCON INC., CH
[85] 2023-03-08
[86] 2021-10-07 (PCT/IB2021/059212)
[87] (WO2022/074604)
[30] US (63/089,146) 2020-10-08

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[13] A1
[51] **Int.Cl. F24F 11/62 (2018.01) F24F 11/38 (2018.01) G06N 20/00 (2019.01) F24F 3/167 (2021.01) H04L 67/50 (2022.01) G08B 21/02 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD AND/OR COMPUTER READABLE MEDIUM FOR MONITORING AND PREDICTIVELY CONTROLLING CLOSED ENVIRONMENTS**
[54] **SYSTEME, PROCEDE ET/OU SUPPORT LISIBLE PAR ORDINATEUR POUR SURVEILLER ET COMMANDER DE MANIERE PREDICTIVE DES ENVIRONNEMENTS FERMES**
[72] SOLOMON, VERNON, CA
[72] STYLES, AARON, CA
[72] TYPA, ADRIAN, CA
[72] CURRY, FORREST C., CA
[72] WHITE, JOHN R., CA
[72] ADAMS, CHRIS, CA
[72] BOWLES, JEFFREY R., CA
[72] BOWLES, ADAM, CA
[71] ESC INNOVATES INC., CA
[85] 2023-03-08
[86] 2022-08-23 (PCT/CA2022/051272)
[87] (WO2023/023850)
[30] US (63/235,973) 2021-08-23

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[13] A1
[51] **Int.Cl. F16J 15/18 (2006.01)**
[25] EN
[54] **REMOTELY ADJUSTABLE GLAND FOLLOWER FOR A SHAFT SEALING SYSTEM**
[54] **FOULOIR REGLABLE A DISTANCE POUR SYSTEME D'ETANCHEITE D'ARBRE**
[72] MONAHAN, THOMAS, US
[71] SEAL-RYT CORP., US
[85] 2023-03-08
[86] 2021-09-06 (PCT/US2021/049183)
[87] (WO2022/055830)
[30] US (63/075,742) 2020-09-08
[30] US (17/467,240) 2021-09-05

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[13] A1
[51] **Int.Cl. G06F 21/00 (2013.01) G06F 21/55 (2013.01)**
[25] EN
[54] **CONFIGURABLE DATA CONTAINER FOR FRAUD DETECTION SYSTEM**
[54] **CONTENEUR DE DONNEES CONFIGURABLE POUR SYSTEME DE DETECTION DE FRAUDE**
[72] SEVASTYANOV, ANDRIAN, CA
[72] TSENG, YI WEI, CA
[72] MCGEE, PERRY, CA
[72] KHERA, SUNITA, CA
[71] MASTERCARD TECHNOLOGIES CANADA ULC, CA
[85] 2023-03-08
[86] 2021-09-08 (PCT/CA2021/051237)
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[30] US (17/016,518) 2020-09-10

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[51] **Int.Cl. B01L 1/00 (2006.01) C12Q 1/686 (2018.01) B01L 3/00 (2006.01) B01L 7/00 (2006.01) C12M 1/34 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **PORTABLE DEVICES AND METHODS FOR ANALYZING SAMPLES**
[54] **DISPOSITIFS PORTABLES ET PROCEDES D'ANALYSE D'ECHANTILLONS**
[72] DEJOHN, MARC, US
[72] COX, CHRISTOPHER, US
[72] WELSH, THOMAS, US
[72] GARY, LUKE, US
[72] QUINN, ALEXIA, US
[71] BIOMEME, INC., US
[85] 2023-03-08
[86] 2021-09-17 (PCT/US2021/050862)
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[30] US (63/080,465) 2020-09-18

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[51] **Int.Cl. A23K 10/14 (2016.01) A23K 10/30 (2016.01) A23L 5/20 (2016.01) A23L 7/104 (2016.01)**
[25] EN
[54] **MEANS AND METHODS TO DETOXIFY MYCOTOXINS**
[54] **MOYENS ET PROCEDES DE DETOXIFICATION DE MYCOTOXINES**
[72] BINDER, EVA MARIA, AT
[72] STREIT, ELISABETH, AT
[72] BRADER, GUNTER, AT
[72] BERNARD, CLAUDIA, AT
[72] WEBER, BARBARA, AT
[72] MARTINEZ MONTERO, LIA, HU
[72] SCHRITTWIESER, JORG, AT
[72] KROUTIL, WOLFGANG, AT
[72] PASTAR, MILICA, AT
[72] SESSITSCH, ANGELA, AT
[72] DOLINSEK, JAN, AT
[71] DSM AUSTRIA GMBH, AT
[85] 2023-03-08
[86] 2021-09-30 (PCT/EP2021/076900)
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[30] EP (20199475.3) 2020-09-30

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[51] **Int.Cl. A61F 9/008 (2006.01) G01J 1/42 (2006.01) G01J 1/44 (2006.01) H03F 3/08 (2006.01)**
[25] EN
[54] **BEAM DETECTION WITH DUAL GAIN**
[54] **DETECTION DE FAISCEAU A DOUBLE GAIN**
[72] SAWICZ, CONRAD, US
[72] CHEN, DEREK, US
[71] ALCON INC., CH
[85] 2023-03-08
[86] 2021-10-01 (PCT/IB2021/059057)
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[30] US (63/090,911) 2020-10-13

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[51] **Int.Cl. A61B 3/00 (2006.01) A61B 3/10 (2006.01) A61B 3/103 (2006.01) A61B 3/107 (2006.01) A61B 3/113 (2006.01)**
[25] EN
[54] **MYOPIA PREDICTION, DIAGNOSIS, PLANNING, AND MONITORING DEVICE**
[54] **DISPOSITIF DE PREDICTION, DE DIAGNOSTIC, DE PLANIFICATION ET DE SURVEILLANCE DE LA MYOPIE**
[72] KUBOTA, RYO, US
[72] BUSCEMI, PHILIP M., US
[71] ACUCELA INC., US
[85] 2023-03-08
[86] 2021-09-30 (PCT/US2021/052893)
[87] (WO2022/072644)
[30] US (63/198,154) 2020-09-30

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[13] A1
[51] **Int.Cl. G10L 19/008 (2013.01)**
[25] EN
[54] **METHOD AND DEVICE FOR CLASSIFICATION OF UNCORRELATED STEREO CONTENT, CROSS-TALK DETECTION, AND STEREO MODE SELECTION IN A SOUND CODEC**
[54] **PROCEDE ET DISPOSITIF DE CLASSIFICATION DE CONTENU STEREO NON CORRELE, DETECTION DE DIAPHONIE ET SELECTION DE MODE STEREO DANS UN CODEC SONORE**
[72] MALENOVSKY, VLADIMIR, CZ
[72] VAILLANCOURT, TOMMY, CA
[71] VOICEAGE CORPORATION, CA
[85] 2023-03-08
[86] 2021-09-08 (PCT/CA2021/051238)
[87] (WO2022/051846)
[30] US (63/075,984) 2020-09-09

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[13] A1
[51] **Int.Cl. B44B 3/06 (2006.01) B44B 5/02 (2006.01)**
[25] EN
[54] **MARKING MACHINE**
[54] **MACHINE DE MARQUAGE**
[72] BARCILON BRAMBILLA, JAIME ALBERTO, IT
[71] AUTOMATOR MARKING SYSTEMS S.R.L., IT
[85] 2023-03-08
[86] 2021-09-10 (PCT/IB2021/058251)
[87] (WO2022/054000)
[30] IT (102020000021568) 2020-09-11

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[13] A1
[51] **Int.Cl. F16M 11/00 (2006.01) E05B 65/00 (2006.01) G06F 3/01 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR TRACKING MOTION AND PROVIDING HAPTIC FEEDBACK**
[54] **APPAREIL ET PROCEDE POUR SUIVRE UN MOUVEMENT ET FOURNIR UNE RETROACTION HAPTIQUE**
[72] GALLACHER, COLIN, US
[72] DESOURDY, FELIX, CA
[72] PHILBIN-BRISCOE, OLIVER, CA
[72] WEILL--DUFLOS, ANTOINE, CA
[72] LACKI, MACIEJ, CA
[72] ONG, NICHOLAS, US
[72] HENRY, JESSICA, CA
[72] DING, YI, CA
[71] HAPLY ROBOTICS, INC., CA
[85] 2023-03-08
[86] 2021-09-08 (PCT/IB2021/000644)
[87] (WO2022/053873)
[30] US (63/075,577) 2020-09-08
[30] US (63/203,028) 2021-07-06
[30] US (63/228,976) 2021-08-03
[30] US (63/231,451) 2021-08-10
[30] US (63/229,098) 2021-08-04

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[13] A1
[51] **Int.Cl. G09F 19/12 (2006.01) G09F 27/00 (2006.01)**
[25] EN
[54] **INTERACTIVE DISPLAY WITH SPECIAL EFFECTS ASSEMBLY**
[54] **DISPOSITIF D'AFFICHAGE INTERACTIF AVEC ENSEMBLE EFFETS SPECIAUX**
[72] DUFFY, KAITLYN MARIE, US
[72] TRAYNOR, MARK JAMES, US
[72] MELO, ANTHONY, US
[72] MALL, HOWARD BRUCE, US
[72] LIN, YU JEN, US
[72] PUGLISI, NICHOLAS ANTHONY, US
[72] HARKINS, CARIN, US
[72] BERNER, CAITLIN, US
[72] KNOX, SAMUEL J., US
[72] WRIGHT, SHAWN, US
[72] HARRIS, SUZANNE, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2023-03-08
[86] 2021-09-30 (PCT/US2021/052925)
[87] (WO2022/072667)
[30] US (63/085,275) 2020-09-30
[30] US (17/488,058) 2021-09-28

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[13] A1
[51] **Int.Cl. A63C 1/30 (2006.01) A63C 1/28 (2006.01)**
[25] EN
[54] **AN ICE SKATE**
[54] **PATIN A GLACE**
[72] ANDERSSON, FREDRIK, SE
[72] MARS, PER, SE
[71] FLOW MOTION TECHNOLOGY AB, SE
[85] 2023-03-08
[86] 2021-10-04 (PCT/EP2021/077269)
[87] (WO2022/069762)
[30] EP (20199753.3) 2020-10-02

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[13] A1
[51] **Int.Cl. C12P 19/02 (2006.01) C12P 19/12 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF A FILAMENTOUS FUNGUS WHOLE BROTH ENZYME COMPOSITION WITH LOW VISCOSITY**
[54] **PROCEDE DE PRODUCTION D'UNE COMPOSITION D'ENZYME DE BOUILLON COMPLET DE CHAMPIGNON FILAMENTEUX A FAIBLE VISCOSITE**
[72] GAMAUF, CHRISTIAN, DE
[72] CLAREN, JORG, DE
[71] CLARIANT PRODUKTE (DEUTSCHLAND) GMBH, DE
[85] 2023-03-08
[86] 2021-10-07 (PCT/EP2021/077659)
[87] (WO2022/074102)
[30] EP (20200815.7) 2020-10-08

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[13] A1
[51] **Int.Cl. H01F 1/00 (2006.01)**
[25] EN
[54] **MAGNETIC BEADS, METHOD OF MAKING AND METHOD OF USE THEREOF**
[54] **BILLES MAGNETIQUES, PROCEDE DE FABRICATION ET PROCEDE D'UTILISATION ASSOCIES**
[72] SARKAS, HARRY W., US
[72] CURETON, KEVIN, US
[71] NANOPHASE TECHNOLOGIES CORPORATION, US
[85] 2023-03-08
[86] 2021-09-14 (PCT/US2021/050269)
[87] (WO2022/060732)
[30] US (63/079,875) 2020-09-17

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[51] **Int.Cl. B42D 25/324 (2014.01) B42D 25/29 (2014.01) B42D 25/328 (2014.01) B42D 25/351 (2014.01) B42D 25/36 (2014.01) B42D 25/425 (2014.01) B42D 25/46 (2014.01)**
[25] EN
[54] **SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF**
[54] **DISPOSITIFS DE SECURITE ET LEURS PROCEDES DE FABRICATION**
[72] GODFREY, JOHN, GB
[72] LOCKE, REBECCA, GB
[71] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2023-03-08
[86] 2021-09-10 (PCT/GB2021/052364)
[87] (WO2022/053829)
[30] GB (2014325.1) 2020-09-11
[30] GB (2014326.9) 2020-09-11
[30] GB (2014327.7) 2020-09-11
[30] GB (2014328.5) 2020-09-11
[30] GB (2014329.3) 2020-09-11
[30] GB (2014330.1) 2020-09-11
[30] GB (2014331.9) 2020-09-11

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[51] **Int.Cl. H04W 4/38 (2018.01) A61B 5/113 (2006.01)**
[25] EN
[54] **SLEEP MONITORING BASED ON WIRELESS SIGNALS RECEIVED BY A WIRELESS COMMUNICATION DEVICE**
[54] **SURVEILLANCE DU SOMMEIL BASEE SUR DES SIGNAUX SANS FIL RECUS PAR UN DISPOSITIF DE COMMUNICATION SANS FIL**
[72] ZAKHAROV, MIKHAIL ALEXAND, CA
[72] KRAVETS, OLEKSIY, CA
[71] COGNITIVE SYSTEMS CORP., CA
[85] 2023-03-08
[86] 2021-10-05 (PCT/CA2021/051392)
[87] (WO2022/073112)
[30] US (63/087,583) 2020-10-05

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[13] A1
[51] **Int.Cl. B60R 22/02 (2006.01) B60R 22/32 (2006.01)**
[25] EN
[54] **REMOTE RELEASE, REDUNDANT RESTRAINT LATCH**
[54] **VERROU DE RETENUE REDONDANT A LIBERATION A DISTANCE**
[72] SIMONELLI, JAMES K., US
[72] WILSON, JOHN D., US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2023-03-08
[86] 2021-09-28 (PCT/US2021/052404)
[87] (WO2022/076203)
[30] US (63/087,513) 2020-10-05
[30] US (63/108,725) 2020-11-02
[30] US (17/174,009) 2021-02-11

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[13] A1
[51] **Int.Cl. B60L 53/30 (2019.01) B60L 53/50 (2019.01) B60L 53/53 (2019.01) B60L 53/57 (2019.01) B60L 53/62 (2019.01) B60L 58/10 (2019.01)**
[25] EN
[54] **CHARGING COLUMN**
[54] **COLONNE DE CHARGE**
[72] SOHL, ALEXANDER, DE
[72] ADLER, INES, DE
[71] ME ENERGY GMBH, DE
[85] 2023-03-08
[86] 2021-09-06 (PCT/EP2021/074500)
[87] (WO2022/053432)
[30] DE (10 2020 123 798.7) 2020-09-11

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[13] A1
[51] **Int.Cl. B05B 1/00 (2006.01)**
[25] EN
[54] **LIQUID DISPENSING SPRAY NOZZLE ASSEMBLY**
[54] **ENSEMBLE BUSE DE PULVERISATION POUR LA DISTRIBUTION DE LIQUIDE**
[72] COPLIN, THOMAS, US
[71] SPRAYING SYSTEMS CO., US
[85] 2023-03-08
[86] 2021-09-09 (PCT/US2021/049676)
[87] (WO2022/056136)
[30] US (63/076,001) 2020-09-09

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[13] A1
[51] **Int.Cl. G05F 1/56 (2006.01)**
[25] EN
[54] **COMPUTING DEVICE AND SERIES POWER SUPPLY METHOD**
[54] **DISPOSITIF INFORMATIQUE ET PROCEDE D'ALIMENTATION EN SERIE**
[72] GAO, YANG, CN
[72] WU, YUEFENG, CN
[72] YANG, ZUOXING, CN
[72] NING, HONGYAN, CN
[72] GUO, HAIFENG, CN
[71] SHENZHEN MICROBT ELECTRONICS TECHNOLOGY CO., LTD., CN
[85] 2023-03-08
[86] 2022-01-10 (PCT/CN2022/071021)
[87] (WO2022/213692)
[30] CN (202110372151.X) 2021-04-07

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[13] A1
[51] **Int.Cl. G01N 21/33 (2006.01) G01N 21/29 (2006.01) G01N 21/94 (2006.01)**
[25] EN
[54] **SYSTEM HAVING A RADIATION SOURCE, A SENSOR AND A MOBILE TERMINAL FOR DETECTING SURFACE STRUCTURES AND ANOMALIES**
[54] **SYSTEME COMPRENANT UNE SOURCE DE RAYONNEMENT, UN CAPTEUR ET UN TERMINAL MOBILE POUR DETECTER DES STRUCTURES SUPERFICIELLES ET DES ANOMALIES**
[72] CUDZILO, MARTIN, DE
[71] AR-CHECK GMBH & CO. KG, DE
[85] 2023-03-08
[86] 2021-09-08 (PCT/DE2021/100740)
[87] (WO2022/053107)
[30] DE (10 2020 123 423.6) 2020-09-08

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[13] A1
[51] **Int.Cl. C09D 183/10 (2006.01)**
[25] EN
[54] **POLYSILOXANE-BASED COATING COMPOSITION**
[54] **COMPOSITION DE REVETEMENT A BASE DE POLYSILOXANE**
[72] FAN, LANGFENG, CN
[72] SHI, JIANFEI, CN
[72] JIN, PING, CN
[72] SUN, LINGYUN, CN
[71] PPG COATINGS (KUNSHAN) CO., LTD., CN
[85] 2023-03-08
[86] 2021-09-29 (PCT/CN2021/121526)
[87] (WO2022/068841)
[30] CN (202011055746.4) 2020-09-30

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[13] A1
[51] **Int.Cl. C01B 3/02 (2006.01) C01B 3/34 (2006.01) C01B 3/38 (2006.01) C01C 1/04 (2006.01)**
[25] EN
[54] **METHOD FOR HEATING A FEED OF NATURAL GAS TO A STEAM REFORMER AND SYSTEM AND USE THEREOF**
[54] **METHODE DE CHAUFFAGE D'UNE ALIMENTATION EN GAZ NATUREL DESTINEE A UN REFORMEUR A VAPEUR ET SYSTEME ET UTILISATION ASSOCIES**
[72] SINGH, UDAYPAL, IN
[71] YARA INTERNATIONAL ASA, NO
[85] 2023-03-08
[86] 2021-09-24 (PCT/EP2021/076299)
[87] (WO2022/063949)
[30] IN (202011041823) 2020-09-25
[30] EP (20206677.5) 2020-11-10

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[13] A1
[51] **Int.Cl. B65D 21/08 (2006.01) B65D 25/16 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **INLET VALVE FOR AN INFUSION CONTAINER AND INFUSION CONTAINER**
[54] **VALVE D'ENTREE POUR RECIPIENT D'INFUSION ET RECIPIENT D'INFUSION**
[72] WUST, THEODOR, CH
[72] DEL BON, FRANCO, CH
[72] SCHERRER, JOSEPH ALAIN, CH
[71] SWISS TEA INNOVATION AG, CH
[85] 2023-03-08
[86] 2021-09-02 (PCT/EP2021/074277)
[87] (WO2022/053393)
[30] CH (01136/20) 2020-09-10

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[13] A1
[51] **Int.Cl. C09D 7/63 (2018.01) C09D 151/00 (2006.01) C09D 175/04 (2006.01)**
[25] EN
[54] **HIGH TRANSFER EFFICIENCY APPLICATION METHODS FOR LOW TEMPERATURE CURING COATING COMPOSITIONS AND COATED SUBSTRATES FORMED THEREBY**
[54] **PROCEDES D'APPLICATION A HAUTE EFFICACITE DE TRANSFERT DE COMPOSITIONS DE REVETEMENT A DURCISSEMENT A BASSE TEMPERATURE ET SUBSTRATS REVETUS AINSI FORMES**
[72] FENN, DAVID R., US
[71] PPG INDUSTRIES OHIO, INC., US
[85] 2023-03-08
[86] 2021-10-04 (PCT/US2021/053303)
[87] (WO2022/076276)
[30] US (63/087,550) 2020-10-05

[21] **3,192,113**
[13] A1
[51] **Int.Cl. A61K 31/724 (2006.01) C08L 5/16 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING SUGAMMADEX**
[54] **PROCEDE DE PREPARATION DE SUGAMMADEX**
[72] LAMBERTO, DAVID J., US
[72] AVALLE, PAOLO, CH
[72] CODAN, LORENZO, CH
[72] LARPENT, PATRICK, CH
[72] SCHOELL, JOCHEN, CH
[72] NEUHAUS, JEFFREY S., US
[71] MERCK SHARP & DOHME LLC, US
[71] WERTHENSTEIN BIOPHARMA GMBH, CH
[85] 2023-03-08
[86] 2021-09-08 (PCT/US2021/049350)
[87] (WO2022/055916)
[30] US (63/076,133) 2020-09-09

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[13] A1
[51] **Int.Cl. B42D 25/324 (2014.01) B42D 25/29 (2014.01) B42D 25/351 (2014.01) B42D 25/36 (2014.01) B42D 25/364 (2014.01) B42D 25/369 (2014.01) B42D 25/373 (2014.01) B42D 25/425 (2014.01) B42D 25/46 (2014.01)**
[25] EN
[54] **SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF**
[54] **DISPOSITIFS DE SECURITE ET LEURS PROCEDES DE FABRICATION**
[72] GODFREY, JOHN, GB
[72] LOCKE, REBECCA, GB
[71] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2023-03-08
[86] 2021-09-10 (PCT/GB2021/052363)
[87] (WO2022/053828)
[30] GB (2014325.1) 2020-09-11
[30] GB (2014326.9) 2020-09-11
[30] GB (2014327.7) 2020-09-11
[30] GB (2014328.5) 2020-09-11
[30] GB (2014329.3) 2020-09-11
[30] GB (2014330.1) 2020-09-11
[30] GB (2014331.9) 2020-09-11

[21] **3,192,115**
[13] A1
[51] **Int.Cl. B01D 53/86 (2006.01) B01J 23/40 (2006.01) B01J 35/04 (2006.01) B01J 37/02 (2006.01)**
[25] EN
[54] **HOMOGENEOUS CATALYTIC FIBER COATINGS AND METHODS OF PREPARING SAME**
[54] **REVETEMENTS DE FIBRES CATALYTIQUES HOMOGENES ET LEURS PROCEDES DE PREPARATION**
[72] SITERS, KEVIN E., US
[72] CARSON, JR. MICHAEL ROBERT, US
[72] BELISLE, MAURICE, US
[72] CROSS, JONATHAN, US
[72] SAYERS, DILLAN R., US
[72] KELSALL, ADAM, US
[72] TRAVERS, MARK, US
[71] UNIFRAX I LLC, US
[85] 2023-03-08
[86] 2021-09-21 (PCT/US2021/051266)
[87] (WO2022/061284)
[30] US (63/081,110) 2020-09-21
[30] US (63/107,240) 2020-10-29

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[13] A1
[51] **Int.Cl. B05C 17/005 (2006.01) B65D 35/12 (2006.01)**
[25] EN
[54] **PLUNGERS FOR SEALANT DISPENSING CARTRIDGES WITH COLLAPSIBLE SEALANT PACKAGING**
[54] **PLONGEURS POUR CARTOUCHES DE DISTRIBUTION DE PRODUIT D'ETANCHEITE AYANT UN EMBALLAGE DE PRODUIT D'ETANCHEITE PLIABLE**
[72] KUCHINSKI, PAUL, US
[72] SANTILLAN, OSCAR, US
[71] PRC-DESOTO INTERNATIONAL, INC., US
[85] 2023-03-08
[86] 2021-10-07 (PCT/US2021/054050)
[87] (WO2022/081417)
[30] US (63/090,991) 2020-10-13

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[51] **Int.Cl. A61B 5/00 (2006.01) A61B 8/00 (2006.01) A61B 8/12 (2006.01) G01S 5/18 (2006.01) G02B 6/036 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ULTRASOUND AND PHOTOACOUSTIC GUIDANCE OF CORONARY PROCEDURES**
[54] **SYSTEMES ET METHODES DE GUIDAGE ULTRASONORE ET PHOTOACOUSTIQUE D'INTERVENTIONS CORONAIRES**
[72] MILNER, THOMAS E., US
[72] FELDMAN, MARC D., US
[72] KATTA, NITESH, US
[71] RESEARCH DEVELOPMENT FOUNDATION, US
[85] 2023-03-08
[86] 2021-09-14 (PCT/US2021/050147)
[87] (WO2022/056426)
[30] US (63/078,096) 2020-09-14

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[13] A1
[51] **Int.Cl. A61K 31/4439 (2006.01) A61P 11/00 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **THERAPEUTIC COMPOUNDS, COMPOSITIONS, AND METHODS OF USE THEREOF**
[54] **COMPOSES THERAPEUTIQUES, COMPOSITIONS ET LEURS PROCEDES D'UTILISATION**
[72] HAYWARD, NEIL J., US
[72] POLLACK, CHARLES V. JR., US
[72] KURZ, MICHAEL A., US
[71] EXITHERA PHARMACEUTICALS INC., US
[85] 2023-03-08
[86] 2021-09-16 (PCT/US2021/050623)
[87] (WO2022/060952)
[30] US (63/079,742) 2020-09-17
[30] US (63/079,746) 2020-09-17

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[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01)**
[25] EN
[54] **MUSCLE-SPECIFIC HYBRID PROMOTER**
[54] **PROMOTEUR HYBRIDE SPECIFIQUE DES MUSCLES**
[72] WILLIAMS, JAMES A., US
[71] ALDEVRON, L.L.C., US
[85] 2023-03-08
[86] 2021-09-10 (PCT/US2021/049914)
[87] (WO2022/056291)
[30] US (63/077,339) 2020-09-11

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[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6883 (2018.01)**
[25] EN
[54] **METHODS OF ASSESSING RISK OF DEVELOPING A DISEASE**
[54] **PROCEDES D'EVALUATION DU RISQUE DE DEVELOPPER UNE MALADIE**
[72] WONG, KEVIN, AU
[72] MURPHY, NICK, AU
[72] DITE, GILLIAN, AU
[72] GAFNI, AVIV, AU
[72] ALLMAN, RICHARD, AU
[71] GENETIC TECHNOLOGIES LIMITED, AU
[85] 2023-03-08
[86] 2021-10-19 (PCT/AU2021/051218)
[87] (WO2022/082261)
[30] AU (2020903793) 2020-10-20

[21] **3,192,123**
[13] A1
[51] **Int.Cl. F28D 7/00 (2006.01) F28D 7/08 (2006.01) F28D 7/16 (2006.01) F28F 1/10 (2006.01)**
[25] EN
[54] **HEAT EXCHANGER**
[54] **ECHANGEUR DE CHALEUR**
[72] PUGERL, MAXIMILIAN, DE
[71] PUGERL, MAXIMILIAN, DE
[85] 2023-03-08
[86] 2021-08-26 (PCT/EP2021/073576)
[87] (WO2022/053324)
[30] DE (10 2020 123 751.0) 2020-09-11

[21] **3,192,125**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01)**
[25] EN
[54] **SALT OF COMPOUND FOR DEGRADING BTK, CRYSTAL FORM THEREOF, AND USE THEREOF IN MEDICINE**
[54] **SEL D'UN COMPOSE DESTINE A DEGRADER LA BTK, FORME CRISTALLINE DE CE SEL, ET SON UTILISATION EN MEDECINE**
[72] ZHANG, CHEN, CN
[72] LIAO, YUTING, CN
[72] WANG, JIANMIN, CN
[72] HUANG, LONGBIN, CN
[72] ZHU, GUOZHI, CN
[72] LI, YAO, CN
[72] YAN, PANGKE, CN
[71] HAISCO PHARMACEUTICALS PTE. LTD., SG
[85] 2023-03-08
[86] 2021-09-08 (PCT/CN2021/117174)
[87] (WO2022/052950)
[30] CN (202010933538.3) 2020-09-09
[30] CN (202110869600.1) 2021-08-03

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[13] A1
[51] **Int.Cl. C09D 5/02 (2006.01) C09D 7/43 (2018.01)**
[25] EN
[54] **HIGH TRANSFER EFFICIENCY APPLICATION METHODS AND SHEAR THINNING COATING COMPOSITIONS FOR APPLICATION USING THE METHODS**
[54] **PROCEDES D'APPLICATION A EFFICACITE DE TRANSFERT ELEVEE ET COMPOSITIONS DE REVETEMENT A FLUIDIFICATION PAR CISAILLEMENT POUR APPLICATION UTILISANT LES PROCEDES**
[72] MOHIN, JACOB W., US
[72] LU, XINYU, US
[72] ROCK, REZA M., US
[71] PPG INDUSTRIES OHIO, INC., US
[85] 2023-03-08
[86] 2021-10-04 (PCT/US2021/053290)
[87] (WO2022/076269)
[30] US (63/087,492) 2020-10-05

[21] **3,192,130**
[13] A1
[51] **Int.Cl. H01Q 9/28 (2006.01)**
[25] EN
[54] **HIGH PERFORMANCE FOLDED DIPOLE FOR MULTIBAND ANTENNAS**
[54] **DIPOLE REPLIE A HAUTE PERFORMANCE POUR ANTENNES MULTIBANDES**
[72] SUNDARARAJAN, NIRANJAN, US
[72] ZHU, JIAQIANG, US
[71] JOHN MEZZALINGUA ASSOCIATES, LLC, US
[85] 2023-03-08
[86] 2021-09-08 (PCT/US2021/049347)
[87] (WO2022/055915)
[30] US (63/075,394) 2020-09-08

[21] **3,192,131**
[13] A1
[51] **Int.Cl. H04L 1/00 (2006.01) H04W 84/12 (2009.01)**
[25] EN
[54] **TECHNIQUES FOR PRE AND POST FORWARD ERROR CORRECTION AND PACKET PADDING IN RADIO TRANSMISSION**
[54] **TECHNIQUES DE PRE- ET POST-CORRECTION D'ERREUR DIRECTE ET DE BOURRAGE DE PAQUET DANS UNE TRANSMISSION RADIO**
[72] SHILO, SHIMON, DE
[72] REDLICH, ODED, DE
[72] YU, JIAN, CN
[72] TSODIK, GENADIY, DE
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-03-08
[86] 2020-09-28 (PCT/CN2020/118420)
[87] (WO2022/061894)

[21] **3,192,135**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01)**
[25] EN
[54] **MEDICAL TUBE AND MEDICAL TUBE POSITION DETECTION SYSTEM**
[54]
[72] MIIKE, SHINYA, JP
[72] SUZUKI, YUTAKA, JP
[71] NEUROCEUTICALS INC., JP
[71] PAX CO., LTD., JP
[71] OTSUKA PHARMACEUTICAL FACTORY, INC., JP
[85] 2023-03-08
[86] 2021-09-08 (PCT/JP2021/033021)
[87] (WO2022/054833)
[30] JP (2020-151167) 2020-09-09

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[13] A1
[51] **Int.Cl. C07H 21/04 (2006.01) C12N 1/13 (2006.01)**
[25] EN
[54] **RECOMBINANT ALGAE HAVING HIGH LIPID PRODUCTIVITY**
[54] **ALGUES RECOMBINANTES PRESENTANT UNE PRODUCTIVITE LIPIDIQUE ELEVEE**
[72] IMAM, SAHEED, US
[72] MOELLERING, ERIC R., US
[72] PEACH, LUKE, US
[72] LAMBERT, WILLIAM F., US
[72] WEIR, JESSICA, US
[71] VIRIDOS, INC., US
[85] 2023-03-08
[86] 2021-09-09 (PCT/US2021/049708)
[87] (WO2022/056155)
[30] US (63/077,474) 2020-09-11

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[13] A1
[51] **Int.Cl. B01J 23/42 (2006.01) B01J 27/185 (2006.01) C01B 3/00 (2006.01)**
[25] EN
[54] **DEHYDROGENATION CATALYST**
[54] **CATALYSEUR DE DESHYDROGENATION**
[72] BESSARABOV, GEORGIEVICH DMITRI, ZA
[72] MODISHA, PHILLIMON MOKANNE, ZA
[72] OUMA, CECIL NAPHTALY MORO, ZA
[72] OBODO, KINGSLEY ONYEBUCHI, ZA
[71] CLEGG, ALAN MITCHELL, ZA
[85] 2023-03-08
[86] 2021-09-13 (PCT/IB2021/058308)
[87] (WO2022/054013)
[30] ZA (2020/01578) 2020-09-11

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[13] A1
[51] **Int.Cl. B60N 2/06 (2006.01) B60N 2/07 (2006.01)**
[25] EN
[54] **STABILITY ROLLERS FOR A LONG RAIL ASSEMBLY**
[54] **ROULEAUX DE STABILITE POUR UN ENSEMBLE RAIL LONG**
[72] FOLK, AVERY, US
[72] ZHAO, KAI, US
[72] VETERE II, LOUIS, US
[72] KURZEJA, KRISTOF M., US
[71] MAGNA SEATING INC., CA
[85] 2023-03-08
[86] 2021-09-27 (PCT/US2021/052166)
[87] (WO2022/067167)
[30] US (63/083,137) 2020-09-25

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[13] A1
[51] **Int.Cl. B42D 25/324 (2014.01) B42D 25/29 (2014.01) B42D 25/351 (2014.01) B42D 25/36 (2014.01) B42D 25/425 (2014.01) B42D 25/46 (2014.01)**
[25] EN
[54] **SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF**
[54] **DISPOSITIFS DE SECURITE ET LEURS PROCEDES DE FABRICATION**
[72] GODFREY, JOHN, GB
[72] LOCKE, REBECCA, GB
[71] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2023-03-08
[86] 2021-09-10 (PCT/GB2021/052361)
[87] (WO2022/053826)
[30] GB (2014325.1) 2020-09-11
[30] GB (2014326.9) 2020-09-11
[30] GB (2014327.7) 2020-09-11
[30] GB (2014328.5) 2020-09-11
[30] GB (2014329.3) 2020-09-11
[30] GB (2014330.1) 2020-09-11
[30] GB (2014331.9) 2020-09-11

[21] **3,192,142**
[13] A1
[25] EN
[54] **ACTION DETECTION USING MACHINE LEARNING MODELS**
[54] **DETECTION D'ACTION A L'AIDE DE MODELES D'APPRENTISSAGE AUTOMATIQUE**
[72] KUMAR, VIVEK, US
[72] GEUTHER, BRIAN Q., US
[71] THE JACKSON LABORATORY, US
[85] 2023-03-08
[86] 2021-09-16 (PCT/US2021/050572)
[87] (WO2022/060919)
[30] US (63/078,952) 2020-09-16

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[13] A1
[51] **Int.Cl. G06F 21/62 (2013.01)**
[25] EN
[54] **PREDICTING DATA TAMPERING USING AUGMENTED MACHINE LEARNING MODELS**
[54] **PREDICTION D'ALTERATION DE DONNEES A L'AIDE DE MODELES D'APPRENTISSAGE MACHINE AUGMENTES**
[72] SHEN, CUIZHEN, US
[72] MUNGUIA, PHILIP, US
[72] AGRAWAL, PRATEEK, US
[72] CHEN, LEDAO, US
[72] TIRUNELLAYI, SRIRAM, US
[71] EQUIFAX INC., US
[85] 2023-03-08
[86] 2021-09-27 (PCT/US2021/071607)
[87] (WO2022/072989)
[30] US (17/037,561) 2020-09-29

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[13] A1
[51] **Int.Cl. B42D 25/324 (2014.01) B42D 25/29 (2014.01) B42D 25/351 (2014.01) B42D 25/36 (2014.01) B42D 25/425 (2014.01) B42D 25/46 (2014.01)**
[25] EN
[54] **SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF**
[54] **DISPOSITIFS DE SECURITE ET LEURS PROCEDES DE FABRICATION**
[72] GODFREY, JOHN, GB
[72] LOCKE, REBECCA, GB
[71] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2023-03-08
[86] 2021-09-10 (PCT/GB2021/052362)
[87] (WO2022/053827)
[30] GB (2014325.1) 2020-09-11
[30] GB (2014326.9) 2020-09-11
[30] GB (2014327.7) 2020-09-11
[30] GB (2014328.5) 2020-09-11
[30] GB (2014329.3) 2020-09-11
[30] GB (2014330.1) 2020-09-11
[30] GB (2014331.9) 2020-09-11

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[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **BRIDGED TRICYCLIC CARBAMOYLPYRIDONE COMPOUNDS AND USES THEREOF**
[54] **COMPOSES DE CARBAMOYLPYRIDONE TRICYCLIQUE PONTES ET LEURS UTILISATIONS**
[72] CHU, HANG, US
[72] GUO, HONGYAN, US
[72] JIANG, LAN, US
[72] LI, JIAYAO, US
[72] LIN, DAVID W., US
[72] PYUN, HYUNG-JUNG, US
[72] WU, QIAOYIN, US
[72] YANG, HONG, US
[72] ZAJDLIK, ADAM D., US
[72] ZHANG, JENNIFER R., US
[71] GILEAD SCIENCES, INC., US
[85] 2023-03-08
[86] 2021-09-29 (PCT/US2021/052683)
[87] (WO2022/072520)
[30] US (63/085,704) 2020-09-30

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[13] A1
[51] **Int.Cl. E04F 13/08 (2006.01) E04F 13/14 (2006.01)**
[25] EN
[54] **BUILDING SURFACE PRODUCT INCLUDING ATTACHMENT CLIP, BUILDING SURFACE SYSTEM, AND METHOD OF MANUFACTURE**
[54] **PRODUIT DE SURFACE DE CONSTRUCTION COMPRENANT UNE AGRAFE DE FIXATION, SYSTEME DE SURFACE DE CONSTRUCTION ET PROCEDE DE FABRICATION**
[72] BRIGGS, TIMOTHY, US
[72] LENTLIE, WILLIAM, US
[72] JACOBITES, BROCK, US
[72] DUPONT-MADINIER, KIM, US
[72] KNUTSON, DAVID, US
[72] BUTLER, BRIAN, US
[72] BRUCKERHOFF, AARON, US
[71] CERTAINTEED GYPSUM, INC., US
[85] 2023-03-08
[86] 2021-08-27 (PCT/US2021/047858)
[87] (WO2022/047100)
[30] US (63/071,142) 2020-08-27
[30] US (63/235,504) 2021-08-20

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[13] A1
[51] **Int.Cl. B65D 90/02 (2019.01) B65D 90/08 (2006.01)**
[25] EN
[54] **SHIPPING CONTAINER AND METHOD OF CONSTRUCTION THEREOF**
[54] **CONTENEUR D'EXPEDITION ET SON PROCEDE DE CONSTRUCTION**
[72] TAYLOR, JOHN S., US
[72] MARCU, MIHAIL ION, CA
[72] MATTHEWS, BRENT W., CA
[71] IPA PATENTS, LLC, US
[71] TAYLOR, JOHN S., US
[71] MARCU, MIHAIL ION, CA
[71] MATTHEWS, BRENT W., CA
[85] 2023-03-08
[86] 2021-09-09 (PCT/US2021/049623)
[87] (WO2022/056101)
[30] US (63/076,061) 2020-09-09

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[13] A1
[51] **Int.Cl. A61K 47/60 (2017.01) A61P 1/16 (2006.01)**
[25] EN
[54] **GALACTOSYLATED DENDRIMERS FOR TARGETED INTRACELLULAR DELIVERY TO HEPATOCYTES**
[54] **DENDRIMERES GALACTOSYLES D'ADMINISTRATION INTRACELLULAIRE CIBLEE A DES HEPATOCYTES**
[72] RANGARAMANUJAM, KANNAN, US
[72] SHARMA, RISHI, US
[72] SHARMA, ANJALI, US
[72] PORTERFIELD, JOSHUA, US
[72] KANNAN, SUJATHA, US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2023-03-08
[86] 2021-09-08 (PCT/US2021/049392)
[87] (WO2022/055950)
[30] US (63/075,499) 2020-09-08

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[13] A1
[51] **Int.Cl. A01G 9/24 (2006.01) A01G 31/06 (2006.01)**
[25] EN
[54] **VERTICALLY BUILT CULTIVATION SYSTEM FOR CULTIVATING PLANTS AND OPERATING METHOD THEREOF**
[54] **SYSTEME DE CULTURE CONSTRUIT VERTICALEMENT POUR CULTIVER DES PLANTES ET PROCEDE DE FONCTIONNEMENT DE CELUI-CI**
[72] ALESSIO, ANDREA, IT
[72] MODESTO, DANIELE, IT
[71] ZERO SRL, IT
[85] 2023-03-08
[86] 2021-09-09 (PCT/IB2021/058212)
[87] (WO2022/053975)
[30] IT (102020000021334) 2020-09-09

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[13] A1
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 18/00 (2006.01) A61B 90/30 (2016.01)**
[25] EN
[54] **ELECTROSURGICAL DEVICE AND METHOD OF USE**
[54] **DISPOSITIF ELECTROCHIRURGICAL ET PROCEDE D'UTILISATION**
[72] FREY, LAURA CONSTANCE, IE
[72] MCFARLAND, SCOTT, IE
[72] SHERIDAN, PAUL, IE
[72] BURKE, MICHEAL, IE
[72] ERISMANN, FERNANDO, US
[71] STRYKER EUROPEAN OPERATIONS LIMITED, IE
[85] 2023-03-08
[86] 2021-09-09 (PCT/IB2021/000620)
[87] (WO2022/053870)
[30] US (63/076,089) 2020-09-09
[30] US (63/211,876) 2021-06-17

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[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) C12M 1/18 (2006.01) C12M 1/34 (2006.01) C12M 3/00 (2006.01) G01N 33/48 (2006.01) G01N 37/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TARGET DETECTION WITH APPLICATIONS IN CHARACTERIZING FOOD QUALITY AND IMPROVING FOOD SAFETY**
[54] **SYSTEME ET PROCEDE DE DETECTION DE CIBLE AVEC DES APPLICATIONS DANS LA CARACTERISATION DE LA QUALITE ALIMENTAIRE ET L'AMELIORATION DE LA SECURITE ALIMENTAIRE**
[72] HANDIQUE, KALYAN, US
[72] LEBOFSKY, RONALD, US
[72] MACKE, EMILIE CELINE CLAUDIE, FR
[72] DIEVART, REBECCA, FR
[72] QUIRING, CHRISTOPHE, FR
[72] PIERRE, SOPHIE, FR
[71] BIO-RAD EUROPE GMBH, CH
[71] BIO-RAD LABORATORIES, INC., US
[85] 2023-03-08
[86] 2021-10-12 (PCT/US2021/054562)
[87] (WO2022/081564)
[30] US (63/091,101) 2020-10-13

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[13] A1
[51] **Int.Cl. A63H 33/26 (2006.01)**
[25] EN
[54] **FIDGET ACCESSORY AND SYSTEM FOR PROVIDING THE SAME**
[54] **ACCESSOIRE A MANIPULER ET SYSTEME PERMETTANT D'OBTENIR CELUI-CI**
[72] CANTOLI-ALVES, VANESSA, US
[72] WILLSON, DAVID, US
[72] CHEN, IVAN, US
[72] KORY, MICHAEL J., US
[72] CZARNECKI, DAVID, US
[72] FONG, LAWRENCE HERMAN, US
[72] CHIANG, RANDY YANG, US
[72] BARNETT, DAVID B., US
[71] POPSOCKETS LLC, US
[85] 2023-03-08
[86] 2021-09-03 (PCT/US2021/049053)
[87] (WO2022/072120)
[30] US (17/037,383) 2020-09-29

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[13] A1
[51] **Int.Cl. E02B 1/00 (2006.01)**
[25] EN
[54] **WATER RESERVOIR PROTECTION SYSTEM**
[54] **SYSTEME DE PROTECTION DE RESERVOIR D'EAU**
[72] PETRICH, CHRISTIAN, NO
[72] ARNTSEN, BARD, NO
[71] ICE MATE AS, NO
[85] 2023-03-08
[86] 2021-10-25 (PCT/EP2021/079549)
[87] (WO2022/090161)
[30] NO (20201167) 2020-10-26

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 25/04 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01)**
[25] EN
[54] **USE OF LEPR AGONISTS FOR PAIN**
[54] **UTILISATION D'AGONISTES DE LEPR CONTRE LA DOULEUR**
[72] ORAL, ELIF ARIOGLU, US
[72] AKINCI, BARIS, TR
[72] FOSS DE FREITAS, MARIA CRISTINA, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2023-03-08
[86] 2021-09-15 (PCT/US2021/050443)
[87] (WO2022/060827)
[30] US (63/078,687) 2020-09-15

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[13] A1
[51] **Int.Cl. A01K 61/13 (2017.01)**
[25] EN
[54] **TRAWL DEVICE**
[54] **DISPOSITIF DE CHALUT**
[72] PAULSEN, STEFAN, NO
[71] GEIGA AS, NO
[85] 2023-03-08
[86] 2021-09-23 (PCT/EP2021/076275)
[87] (WO2022/063935)
[30] NO (20201047) 2020-09-23

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[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **2-AMINO-3-CARBONYL IMIDAZOPYRIDINE AND PYRAZOLOPYRIDINE COMPOUNDS**
[54] **COMPOSES DE 2-AMINO-3-CARBONYL IMIDAZOPYRIDINE ET DE PYRAZOLOPYRIDINE**
[72] GORAKSHNATH, GADHE CHANGDEV, KR
[72] NAM, HWAJUNG, KR
[72] JEON, YEONGUK, KR
[72] YANG, INYOUNG, KR
[72] LEE, JINHWA, KR
[72] JO, SUYEON, KR
[72] LIM, KEONSEUNG, KR
[72] PARK, A YEONG, KR
[72] HWANG, YEJIN, KR
[72] KIM, JAE EUN, KR
[72] KIM, MISOON, KR
[71] 1ST BIOTHERAPEUTICS, INC., KR
[85] 2023-03-08
[86] 2021-09-14 (PCT/IB2021/058378)
[87] (WO2022/058890)
[30] US (63/078,372) 2020-09-15

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[13] A1
[51] **Int.Cl. G21C 1/22 (2006.01) G21C 1/03 (2006.01) G21C 1/16 (2006.01) G21C 3/54 (2006.01)**
[25] EN
[54] **MOLTEN SALT COOLANT FOR NUCLEAR REACTOR**
[54] **FLUIDE DE REFRODISSEMENT A SELS FONDUS POUR REACTEUR NUCLEAIRE**
[72] SCOTT, IAN RICHARD, GB
[71] SCOTT, IAN RICHARD, GB
[85] 2023-03-08
[86] 2021-09-02 (PCT/EP2021/074301)
[87] (WO2022/053396)
[30] GB (2014181.8) 2020-09-09
[30] GB (2020536.5) 2020-12-23

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[13] A1
[51] **Int.Cl. C12Q 1/6895 (2018.01)**
[25] FR
[54] **METHOD FOR DETECTING VIRULENT STRAINS OF VENTURIA INAEQUALIS**
[54] **METHODE DE DETECTION DE SOUCHES DE VENTURIA INAEQUALIS VIRULENTES**
[72] LE CAM, BRUNO, FR
[72] SANNIER, MELANIE, FR
[72] LEMAIRE, CHRISTOPHE, FR
[72] COLLEMARE, JEROME, NL
[71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR
[71] INSTITUT NATIONAL SUPERIEUR DES SCIENCES AGRONOMIQUES, AGROALIMENTAIRES, HORTICOLES ET DU PAYSAGE, FR
[71] UNIVERSITE D'ANGERS, FR
[85] 2023-03-08
[86] 2021-09-09 (PCT/EP2021/074818)
[87] (WO2022/053558)
[30] FR (FR20 09176) 2020-09-10

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[13] A1
[51] **Int.Cl. H04L 5/00 (2006.01) H04W 52/02 (2009.01) H04W 72/04 (2023.01)**
[25] EN
[54] **TRACKING REFERENCE SIGNAL CONFIGURATION**
[54] **CONFIGURATION DE SIGNAUX DE REFERENCE DE SUIVI**
[72] JUNG, HYEJUNG, US
[72] NANGIA, VIJAY, US
[71] LENOVO (SINGAPORE) PTE. LTD., SG
[85] 2023-03-08
[86] 2021-10-21 (PCT/IB2021/059697)
[87] (WO2022/084896)
[30] US (63/094,823) 2020-10-21

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[13] A1
[51] **Int.Cl. A61K 39/07 (2006.01) A61K 39/40 (2006.01) A61P 1/00 (2006.01) C07K 16/12 (2006.01)**
[25] EN
[54] **SMALL MOLECULE INHIBITORS OF BACTERIAL TOXINS**
[54] **INHIBITEURS A PETITES MOLECULES DE TOXINES BACTERIENNES**
[72] HOEKSTRA, WILLIAM, US
[72] RYU, HYUNJI, US
[72] CHINTHA, PRIYANKA, US
[71] ARTIZAN BIOSCIENCES, INC., US
[85] 2023-03-08
[86] 2021-09-13 (PCT/US2021/050048)
[87] (WO2022/056369)
[30] US (63/077,354) 2020-09-11

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[13] A1
[51] **Int.Cl. H04N 7/18 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEM AND METHOD FOR THE SELF-LOADING OF A CAR IN A CARWASH**
[54] **APPAREIL, SYSTEME ET PROCEDE POUR L'AUTO-CHARGEMENT D'UNE VOITURE DANS UNE STATION DE LAVAGE AUTOMOBILE**
[72] KORNGOLD, ADAM, US
[72] UKHANOV, MAKSYM, UA
[71] WASHIFY SERVICES, LLC, US
[85] 2023-03-08
[86] 2021-09-15 (PCT/US2021/050367)
[87] (WO2022/060769)
[30] US (63/080,167) 2020-09-18

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[13] A1
[51] **Int.Cl. E01C 13/02 (2006.01) E02B 11/00 (2006.01) E02B 11/02 (2006.01) E03F 5/04 (2006.01) E04D 13/04 (2006.01)**
[25] EN
[54] **EXTENDABLE DRAIN AND SPRINKLER**
[54] **DRAIN EXTENSIBLE ET ARROSEUR**
[72] TUNNO, ROBERT U., US
[72] AMENDOLEA, RICHARD M., US
[71] SANDSAVE, LLC, US
[85] 2023-03-08
[86] 2021-09-10 (PCT/US2021/049893)
[87] (WO2022/056280)
[30] US (63/077,032) 2020-09-11
[30] US (17/470,290) 2021-09-09

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[13] A1
[51] **Int.Cl. C07D 413/04 (2006.01) A01N 43/80 (2006.01) C07D 413/14 (2006.01) C07D 417/04 (2006.01)**
[25] EN
[54] **HERBICIDAL PYRIMIDINE DERIVATIVES**
[54] **DERIVES DE PYRIMIDINE HERBICIDES**
[72] HOULSBY, IAN, GB
[72] ALLEN, BEN, GB
[71] MOA TECHNOLOGY LIMITED, GB
[85] 2023-03-08
[86] 2021-09-08 (PCT/GB2021/052319)
[87] (WO2022/053803)
[30] GB (2014350.9) 2020-09-11

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[13] A1
[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **OUTLET VALVE FOR AN INFUSION CONTAINER AND INFUSION CONTAINER**
[54] **VALVE DE SORTIE POUR RECIPIENT D'INFUSION ET RECIPIENT D'INFUSION**
[72] WUST, THEODOR, CH
[72] DEL BON, FRANCO, CH
[72] SCHERRER, JOSEPH ALAIN, CH
[71] SWISS TEA INNOVATION AG, CH
[85] 2023-03-08
[86] 2021-09-02 (PCT/EP2021/074282)
[87] (WO2022/053394)
[30] CH (01137/20) 2020-09-10

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[13] A1
[51] **Int.Cl. A61M 31/00 (2006.01)**
[25] EN
[54] **LUMEN INSERTABLE CAPSULE**
[54] **CAPSULE POUVANT ETRE INSEREE DANS UNE LUMIERE**
[72] MOURIDSEN, BRIAN, DK
[72] STICKER, DRAGO, DK
[72] GHAZAL, AGHIAD, DK
[72] LARSEN, ANDRE, DK
[72] JEPSEN, JACOB PYUNG HWA, DK
[71] NOVO NORDISK A/S, DK
[85] 2023-03-08
[86] 2021-09-29 (PCT/EP2021/076891)
[87] (WO2022/069604)
[30] EP (20199486.0) 2020-09-30

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[13] A1
[51] **Int.Cl. A61M 31/00 (2006.01)**
[25] EN
[54] **A SWALLOWABLE CAPSULE DEVICE**
[54] **DISPOSITIF DE CAPSULE A AVALER**
[72] WATER, JORRIT JEROEN, DK
[72] MOURIDSEN, BRIAN, DK
[72] STICKER, DRAGO, DK
[72] GHAZAL, AGHIAD, DK
[72] BOHR, ADAM JUN, DK
[72] JEPSEN, JACOB PYUNG HWA, DK
[72] HERSKIND, PETER, DK
[72] CLEVELAND, CODY EDWARD, DK
[72] LAURSEN, JENS LOLLE, DK
[71] NOVO NORDISK A/S, DK
[85] 2023-03-08
[86] 2021-09-29 (PCT/EP2021/076892)
[87] (WO2022/069605)
[30] EP (20199488.6) 2020-09-30

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[13] A1
[51] **Int.Cl. C07D 401/02 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) A61P 5/14 (2006.01) A61P 9/10 (2006.01) A61P 9/12 (2006.01)**
[25] EN
[54] **A COMPOUND AS A THYROID HORMONE BETA RECEPTOR AGONIST AND USE THEREOF**
[54] **COMPOSE SERVANT D'AGONISTE DU RECEPTEUR ? DE L'HORMONE THYROIDIENNE ET UTILISATIONS DU COMPOSE**
[72] DENG, JIANCHAO, CN
[72] LI, YONGXIANG, CN
[72] QIN, HAOXIONG, CN
[72] ZHENG, XIAOMIN, CN
[72] YU, JIANGHONG, CN
[72] GU, ZHENG, CN
[72] CHEN, DAOQIAN, CN
[72] ZHAO, HUANTIAN, CN
[72] LI, JIANHAO, CN
[71] SUNSHINE LAKE PHARMA CO., LTD., CN
[85] 2023-03-08
[86] 2021-09-16 (PCT/CN2021/118638)
[87] (WO2022/057845)
[30] CN (202010977443.1) 2020-09-17
[30] CN (202011413890.0) 2020-12-03

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[13] A1
[51] **Int.Cl. B65D 21/08 (2006.01) B65D 25/16 (2006.01)**
[25] EN
[54] **EXPANDABLE INFUSION CONTAINER**
[54] **RECIPIENT D'INFUSION EXTENSIBLE**
[72] WUST, THEODOR, CH
[72] DEL BON, FRANCO, CH
[72] SCHERRER, JOSEPH ALAIN, CH
[71] SWISS TEA INNOVATION AG, CH
[85] 2023-03-08
[86] 2021-09-02 (PCT/EP2021/074285)
[87] (WO2022/053395)
[30] CH (01138/20) 2020-09-10

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[13] A1
[51] **Int.Cl. C08G 59/42 (2006.01) C08G 59/20 (2006.01) C07C 67/08 (2006.01)**
[25] EN
[54] **BIOBASED CURING AGENTS FOR EPOXY RESINS**
[54] **AGENTS DE DURCISSEMENT BIOSOURCES POUR RESINES EPOXY**
[72] CURTIS, JONATHAN, CA
[72] PATEL, VINAY, CA
[71] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA
[85] 2023-03-08
[86] 2021-09-09 (PCT/CA2021/051247)
[87] (WO2022/051854)
[30] US (63/075,940) 2020-09-09

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[13] A1
[51] **Int.Cl. F23D 14/22 (2006.01) F23D 14/32 (2006.01)**
[25] EN
[54] **BURNER AND METHOD FOR OPERATING A BURNER**
[54] **BRULEUR ET PROCEDE DE FONCTIONNEMENT DE BRULEUR**
[72] GRIPENBERG, HENRIK, DE
[72] RANGMARK, LENNART, DE
[72] EKMAN, TOMAS, DE
[72] LODIN, JOHANNES, DE
[72] RICHARDSON, ANDREW PETER, DE
[71] LINDE GMBH, DE
[85] 2023-03-08
[86] 2021-09-09 (PCT/EP2021/025336)
[87] (WO2022/053176)
[30] EP (20020407.1) 2020-09-09

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[13] A1
[51] **Int.Cl. G06F 3/039 (2013.01) G06F 3/044 (2006.01)**
[25] EN
[54] **FINGERTIP PROTECTIVE COVER**
[54] **COUVRE-BOUT DE DOIGT DE PROTECTION**
[72] ALLEMAN, PADEN JOSEPH, US
[72] MOORE, JONATHAN ADAM, US
[72] MOORE, RICHARD ALLAN, US
[71] HOLE OPENER CORPORATION INTERNATIONAL, US
[85] 2023-03-08
[86] 2021-09-09 (PCT/US2021/049637)
[87] (WO2022/056109)
[30] US (63/075,895) 2020-09-09

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[13] A1
[51] **Int.Cl. E21B 17/02 (2006.01)**
[25] EN
[54] **HYBRID CABLE CRIMP**
[54] **SERTISSAGE DE CABLE HYBRIDE**
[72] FRANCO, JUAN, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2023-03-08
[86] 2021-09-03 (PCT/US2021/071372)
[87] (WO2022/056520)
[30] US (17/017,340) 2020-09-10

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[13] A1
[51] **Int.Cl. F02K 7/16 (2006.01) F02K 7/10 (2006.01)**
[25] EN
[54] **TURBORAMJET ENGINE**
[54] **TURBOSTATOREACTEUR**
[72] DASS, PRADEEP, CA
[71] DASS, PRADEEP, CA
[85] 2023-03-08
[86] 2021-09-08 (PCT/CA2021/051242)
[87] (WO2022/051849)
[30] US (63/075,678) 2020-09-08

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[13] A1
[51] **Int.Cl. A23L 33/115 (2016.01) A23L 33/125 (2016.01) A23L 33/15 (2016.01) A23L 33/16 (2016.01) A23L 33/175 (2016.01) A61K 31/195 (2006.01) A61P 35/02 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **METABOLIC THERAPY OF CANCER**
[54] **THERAPIE METABOLIQUE DU CANCER**
[72] LOPEZ-LAZARO, MIGUEL, ES
[72] CALDERON-MONTANO, JOSE MANUEL, ES
[72] JIMENEZ-ALONSO, JULIO JOSE, ES
[72] GUILLEN-MANCINA, EMILIO, ES
[72] JIMENEZ-GONZALEZ, VICTOR, ES
[72] MATE-BARRERO, ALFONSO, ES
[72] PEREZ-GUERRERO, MARIA CONCEPCION, ES
[72] BURGOS-MORON, ESTEFANIA, ES
[71] AMINOVITA S.L., ES
[71] UNIVERSIDAD DE SEVILLA, ES
[85] 2023-03-08
[86] 2020-09-23 (PCT/ES2020/070571)
[87] (WO2022/064079)

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[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 38/00 (2006.01) A61P 17/00 (2006.01) A61P 17/02 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING WOUNDS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE PLAIES**
[72] THAI, NGOC, US
[72] POLLETT, JONATHAN, US
[71] IMAGINE PHARMA LLC, US
[85] 2023-03-08
[86] 2021-12-07 (PCT/US2021/062281)
[87] (WO2022/125593)
[30] US (63/122,746) 2020-12-08

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[13] A1
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 18/16 (2006.01) A61B 18/18 (2006.01)**
[25] EN
[54] **ELECTROSURGICAL RESECTOR TOOL**
[54] **OUTIL DE RESECTION ELECTROCHIRURGICAL**
[72] ULLRICH, GEORGE CHRISTIAN, GB
[72] HANCOCK, CHRISTOPHER PAUL, GB
[71] CREO MEDICAL LTD, GB
[85] 2023-03-08
[86] 2021-10-06 (PCT/EP2021/077621)
[87] (WO2022/100934)
[30] GB (2017867.9) 2020-11-12

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[13] A1
[51] **Int.Cl. G03G 15/00 (2006.01) G03G 15/08 (2006.01)**
[25] EN
[54] **CARTRIDGE**
[54] **CARTOUCHE**
[72] TOSUJI, KENTA, JP
[72] ITABASHI, NAO, JP
[72] KAMIKAWA, KAZUYA, JP
[71] BROTHER KOGYO KABUSHIKI KAISHA, JP
[85] 2023-03-08
[86] 2021-08-26 (PCT/JP2021/031351)
[87] (WO2022/059452)
[30] JP (2020-155107) 2020-09-16

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[13] A1
[51] **Int.Cl. G05B 23/02 (2006.01) G06F 17/00 (2019.01) G06Q 10/00 (2023.01) G07C 5/00 (2006.01) G06Q 30/02 (2023.01)**
[25] EN
[54] **A METHOD DIRECTED TO INTERACTION IN A DIGITAL MAINTENANCE LOG SYSTEM**
[54] **PROCEDE RELATIF A UNE INTERACTION DANS UN SYSTEME DE JOURNAL DE MAINTENANCE NUMERIQUE**
[72] FRIDLUND, ANDERS, SE
[72] NORDGAARD, BJORN, SE
[71] FARMERS FIRST AB, SE
[85] 2023-03-08
[86] 2021-09-09 (PCT/SE2021/050861)
[87] (WO2022/055410)
[30] SE (2051068-1) 2020-09-11
[30] SE (2051069-9) 2020-09-11

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[13] A1
[51] **Int.Cl. G03G 21/16 (2006.01)**
[25] EN
[54] **REMOVING METHOD AND ATTACHING METHOD**
[54] **PROCEDE DE RETRAIT ET PROCEDE DE FIXATION**
[72] TOSUJI, KENTA, JP
[72] ITABASHI, NAO, JP
[72] KAMIKAWA, KAZUYA, JP
[71] BROTHER KOGYO KABUSHIKI KAISHA, JP
[85] 2023-03-08
[86] 2021-08-26 (PCT/JP2021/031354)
[87] (WO2022/059453)
[30] JP (2020-155108) 2020-09-16

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[13] A1
[51] **Int.Cl. C11C 5/02 (2006.01)**
[25] EN
[54] **A CANDLE, METHOD FOR ASSEMBLING A CANDLE, A CANDLE ASSEMBLY APPARATUS, AND A FUEL ELEMENT**
[54] **BOUGIE, PROCEDE D'ASSEMBLAGE D'UNE BOUGIE, APPAREIL D'ASSEMBLAGE DE BOUGIE ET ELEMENT COMBUSTIBLE**
[72] MAROUN, DEAN, AU
[72] ANDREWS, CRAIG, AU
[72] ZOCEK, PAVEL, AU
[71] BLAZING BRAVE PTY LTD, AU
[85] 2023-03-08
[86] 2021-08-25 (PCT/AU2021/050977)
[87] (WO2022/051799)
[30] AU (2020903222) 2020-09-08
[30] AU (2020904187) 2020-11-13
[30] AU (2021900261) 2021-02-04
[30] AU (2021900404) 2021-02-17

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[51] **Int.Cl. B05C 5/02 (2006.01) B05C 9/04 (2006.01) E04F 21/28 (2006.01) E06B 3/673 (2006.01)**
[25] EN
[54] **DEVICE FOR DISTRIBUTING SEALANT MATERIALS AND METHODS OF USING THE SAME**
[54] **DISPOSITIF DE DISTRIBUTION DE MATERIAUX D'ETANCHEITE ET SON PROCEDES D'UTILISATION**
[72] DAVIS, II WILLIAM, US
[71] VITRO FLAT GLASS LLC, US
[85] 2023-03-09
[86] 2021-09-28 (PCT/US2021/052456)
[87] (WO2022/067264)
[30] US (63/084,122) 2020-09-28

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[13] A1
[51] **Int.Cl. G01V 1/30 (2006.01)**
[25] EN
[54] **ESTIMATING PRIMARY AND SECONDARY ACOUSTIC VELOCITIES IN ROCK**
[54] **ESTIMATION DE VITESSES ACOUSTIQUES PRIMAIRES ET SECONDAIRES DANS UNE ROCHE**
[72] FLESCHE, HARALD, NO
[71] EQUINOR ENERGY AS, NO
[85] 2023-03-09
[86] 2021-09-10 (PCT/NO2021/050187)
[87] (WO2022/060227)
[30] GB (2014497.8) 2020-09-15

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[13] A1
[51] **Int.Cl. C05G 3/90 (2020.01) A01N 43/76 (2006.01) A01N 43/78 (2006.01) C07D 263/16 (2006.01) C07D 277/14 (2006.01) C07D 277/16 (2006.01) C07D 277/26 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 513/04 (2006.01)**
[25] EN
[54] **N-HETEROCYCLIC COMPOUNDS USED AS NITRIFICATION INHIBITOR**
[54] **COMPOSES N-HETEROCYCLIQUES UTILISES EN TANT QU'INHIBITEUR DE NITRIFICATION**
[72] HABERMULLER, HEIKO, DE
[72] HENKE, CATARINA, DE
[72] THOMAS, MANNHEIM, DE
[72] PETERS, NILS, DE
[72] BEECKMAN, FABIAN, BE
[72] MOTTE, HANS, BE
[72] DROZDZECKI, ANDRZEJ, BE
[72] AUDENAERT, DOMINIQUE, BE
[72] BEECKMAN, TOM, BE
[71] EUROCHEM ANTWERPEN, BE
[85] 2023-03-09
[86] 2021-09-12 (PCT/EP2021/075025)
[87] (WO2022/053660)
[30] EP (20196033.3) 2020-09-14
[30] EP (21155568.5) 2021-02-05

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[13] A1
[51] **Int.Cl. C12N 9/22 (2006.01) C12N 9/78 (2006.01) C12N 15/10 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **BASE EDITING ENZYMES**
[54] **ENZYMES D'EDITION DE BASE**
[72] LIN, JYUN-LIANG, US
[72] BROOKS, ALAN, US
[72] BUTTERFIELD, CRISTINA, US
[72] BROWN, CHRISTOPHER, US
[72] CASTELLE, CINDY, US
[71] METAGENOMI, INC., US
[85] 2023-03-09
[86] 2021-09-10 (PCT/US2021/049962)
[87] (WO2022/056324)
[30] US (63/077,057) 2020-09-11
[30] US (63/222,351) 2021-07-15

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[13] A1
[51] **Int.Cl. F21V 3/06 (2018.01)**
[25] EN
[54] **ILLUMINATED LIGHT STAND**
[54] **PIED DE PROJECTEUR ECLAIRE**
[72] ENGLISH, DAN, US
[71] ENGLISH, DAN, US
[85] 2023-03-09
[86] 2021-07-06 (PCT/US2021/040423)
[87] (WO2022/086605)
[30] US (17/073,691) 2020-10-19

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[13] A1
[51] **Int.Cl. C05G 3/90 (2020.01) C07D 471/04 (2006.01)**
[25] EN
[54] **PYRAZOLO[3,4-B]PYRIDINE-4-CARBOXAMIDE NITRIFICATION INHIBITOR**
[54] **INHIBITEUR DE NITRIFICATION PYRAZOLO [3,4-B] PYRIDINE-4-CARBOXAMIDE**
[72] HABERMULLER, HEIKO, DE
[72] HENKE, CATARINA, DE
[72] THOMAS, MANNHEIM, DE
[72] PETERS, NILS, DE
[72] BEECKMAN, FABIAN, BE
[72] MOTTE, HANS, BE
[72] DROZDZECKI, ANDRZEJ, BE
[72] AUDENAERT, DOMINIQUE, BE
[72] BEECKMAN, TOM, BE
[71] EUROCHEM ANTWERPEN, BE
[85] 2023-03-09
[86] 2021-09-12 (PCT/EP2021/075026)
[87] (WO2022/053661)
[30] EP (20196021.8) 2020-09-14

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[13] A1
[51] **Int.Cl. A61M 25/02 (2006.01)**
[25] EN
[54] **CATHETER ASSEMBLY WITH ANGLE CHANGING AND RELATED METHODS**
[54] **ENSEMBLE CATHETER A LUBRIFIANT A CHANGEMENT D'ANGLE ET PROCEDE ASSOCIES**
[72] BLANCHARD, CURTIS H., US
[72] HARDING, WESTON F., US
[72] SCHERICH, MEGAN, US
[72] BURKHOLZ, JONATHAN KARL, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-03-09
[86] 2021-09-14 (PCT/US2021/050146)
[87] (WO2022/060680)
[30] US (63/078,638) 2020-09-15

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[13] A1
[51] **Int.Cl. H04L 12/18 (2006.01) H04N 7/14 (2006.01) H04N 7/15 (2006.01)**
[25] EN
[54] **AN INCLUSIVE VIDEO-CONFERENCE SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE VIDEOCONFERENCE INCLUSIVE**
[72] MAHADEVA, SWAROOP, IN
[72] BARATHAN, JEYAKUMAR, IN
[72] KARUPPIAH, SADEESH KUMAR, IN
[72] RAMACHANDRAN, PRASANNESWAR, IN
[72] BHARADA, SMIT M., IN
[71] ARRIS ENTERPRISES LLC, US
[85] 2023-03-09
[86] 2021-08-25 (PCT/US2021/047514)
[87] (WO2022/055705)
[30] US (63/076,082) 2020-09-09

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[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01) A61K 51/10 (2006.01)**
[25] EN
[54] **ANTIBODY FRAGMENT AGAINST FAP**
[54] **FRAGMENT D'ANTICORPS CONTRE FAP**
[72] LAHOUTTE, TONY, BE
[72] DEVOOGDT, NICK, BE
[72] D'HUYVETTER, MATTHIAS, BE
[72] MASSA, SAM, BE
[71] PRECIRIX N.V., BE
[85] 2023-03-09
[86] 2021-09-10 (PCT/EP2021/075009)
[87] (WO2022/053651)
[30] EP (20195428.6) 2020-09-10

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[51] **Int.Cl. C07D 403/12 (2006.01) A61P 1/16 (2006.01) A61P 5/14 (2006.01) C07D 403/02 (2006.01)**
[25] EN
[54] **CRYSTAL FORM OF RESMETIROM, PREPARATION METHOD THEREFOR, AND USE THEREOF**
[54] **FORME CRISTALLINE DE RESMETIROM, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] CHEN, MINHUA, CN
[72] HUANG, CHUNXIANG, CN
[71] CRYSTAL PHARMACEUTICAL (SUZHOU) CO., LTD., CN
[85] 2023-03-09
[86] 2021-08-30 (PCT/CN2021/115205)
[87] (WO2022/052822)
[30] CN (202010948981.8) 2020-09-10

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[13] A1
[51] **Int.Cl. B21F 15/06 (2006.01) E04G 21/12 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR BINDING METAL WIRES AND SIMILAR PRODUCTS**
[54] **PROCEDE ET APPAREIL DE FIXATION DE FILS METALLIQUES ET PRODUITS SIMILAIRES**
[72] PRIULI, ELIA, IT
[71] SCHNELL S.P.A., IT
[85] 2023-03-09
[86] 2021-09-16 (PCT/IT2021/050283)
[87] (WO2022/059043)
[30] IT (102020000021862) 2020-09-16

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[13] A1
[51] **Int.Cl. F02K 5/00 (2006.01) H02J 1/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INTEGRATED FUEL CELL STACK AND BATTERY MANAGEMENT FOR TRANSPORTATION USE**
[54] **SYSTEMES ET PROCEDES POUR EMPILEMENT DE PILES A COMBUSTIBLE INTEGRES ET GESTION DE BATTERIE POUR UNE UTILISATION DE TRANSPORT**
[72] MIFTAKHOV, VALERY, US
[71] ZEROAVIA, INC., US
[85] 2023-03-09
[86] 2021-09-09 (PCT/US2021/049635)
[87] (WO2022/056107)
[30] US (63/076,382) 2020-09-10

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[13] A1
[51] **Int.Cl. B64C 25/18 (2006.01)**
[25] EN
[54] **LANDING GEAR WITH SHORTENING MOTION**
[54] **TRAIN D'ATTERRISSAGE AVEC MOUVEMENT DE RACCOURCISSEMENT**
[72] SACCOCCIA, MICHAEL, CA
[72] SCHMIDT, ROBERT KYLE, CA
[72] AMBERG, STEVE, CA
[71] SAFRAN LANDING SYSTEMS CANADA INC., CA
[85] 2023-03-09
[86] 2021-09-13 (PCT/CA2021/051267)
[87] (WO2022/056623)
[30] US (17/021,541) 2020-09-15

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[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 39/00 (2006.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **BISPECIFIC ANTIBODY AGAINST CD3 AND CD20 IN COMBINATION THERAPY FOR TREATING DIFFUSE LARGE B-CELL LYMPHOMA**
[54] **ANTICORPS BISPECIFIQUE CONTRE CD3 ET CD20 EN POLYTHERAPIE POUR LE TRAITEMENT UN LYMPHOME DIFFUS A GRANDES CELLULES B**
[72] ELLIOTT, BRIAN, US
[72] AHMADI, TAHAMTAN, US
[72] CHIU, CHRISTOPHER, US
[72] BREIJ, ESTHER C W, NL
[72] HIEMSTRA, IDA, NL
[72] JURE-KUNKEL, MARIAN, US
[71] GENMAB A/S, DK
[85] 2023-03-09
[86] 2021-09-10 (PCT/EP2021/075016)
[87] (WO2022/053654)
[30] US (63/076,797) 2020-09-10

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[13] A1
[51] **Int.Cl. C12P 19/18 (2006.01) C12P 19/14 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A STABLE FRUCTOOLIGOSACCHARIDE COMPOSITION, FRUCTOOLIGOSACCHARIDE COMPOSITION, AND USE THEREOF**
[54] **PROCEDE DE PRODUCTION D'UNE COMPOSITION STABLE DE FRUCTOOLIGOSACCHARIDES, COMPOSITION DE FRUCTOOLIGOSACCHARIDES ET SON UTILISATION**
[72] MERTENS, LINDA, BE
[71] BENEO-ORAFTI SA, BE
[85] 2023-03-09
[86] 2021-09-16 (PCT/EP2021/075543)
[87] (WO2022/058460)
[30] EP (20196590.2) 2020-09-17

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[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 39/00 (2006.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **BISPECIFIC ANTIBODY AGAINST CD3 AND CD20 IN COMBINATION THERAPY FOR TREATING DIFFUSE LARGE B-CELL LYMPHOMA**
[54] **ANTICORPS BISPECIFIQUE CONTRE CD3 ET CD20 EN POLYTHERAPIE DE TRAITEMENT DE LYMPHOME DIFFUS A GRANDES CELLULES B**
[72] ELLIOTT, BRIAN, US
[72] AHMADI, TAHAMTAN, US
[71] GENMAB A/S, DK
[85] 2023-03-09
[86] 2021-09-10 (PCT/EP2021/075021)
[87] (WO2022/053657)
[30] US (63/076,765) 2020-09-10

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[51] **Int.Cl. A61K 39/395 (2006.01) A61K 39/00 (2006.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **BISPECIFIC ANTIBODY AGAINST CD3 AND CD20 IN COMBINATION THERAPY FOR TREATING DIFFUSE LARGE B-CELL LYMPHOMA**
[54] **ANTICORPS BISPECIFIQUE ANTI-CD3 ET ANTI-CD20 EN POLYTHERAPIE POUR TRAITER UN LYMPHOME DIFFUS A GRANDES CELLULES B**
[72] ELLIOTT, BRIAN, US
[72] AHMADI, TAHAMTAN, US
[72] GARRIDO CASTRO, PATRICIA, NL
[71] GENMAB A/S, DK
[85] 2023-03-09
[86] 2021-09-10 (PCT/EP2021/075022)
[87] (WO2022/053658)
[30] US (63/076,818) 2020-09-10
[30] US (63/164,255) 2021-03-22

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[13] A1
[51] **Int.Cl. H04W 24/02 (2009.01) H04W 28/08 (2023.01) H04W 52/02 (2009.01) H04W 36/22 (2009.01) H04W 84/12 (2009.01)**
[25] EN
[54] **NETWORK DEVICE, METHOD AND COMPUTER READABLE MEDIUM FOR WIRELESS NETWORKS**
[54] **DISPOSITIF DE RESEAU, PROCEDE ET SUPPORT LISIBLE PAR ORDINATEUR DESTINES AUX RESEAUX SANS FIL**
[72] WANG, LIANG, CN
[71] ARRIS ENTERPRISES LLC, US
[85] 2023-03-09
[86] 2021-09-08 (PCT/US2021/049382)
[87] (WO2022/055942)
[30] CN (202010948945.1) 2020-09-10

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[13] A1
[51] **Int.Cl. A61K 9/08 (2006.01) A61K 47/10 (2017.01) A61P 31/14 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING CHLOROQUINE AND USES THEREOF**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DE LA CHLOROQUINE ET SES UTILISATIONS**
[72] CALVINO, FLORIAN ALEXIS, CH
[72] GUY, PHILIPPE ALEXANDRE, CH
[72] HOENG, JULIA, CH
[72] KOLLI, ADITYA REDDY, CH
[72] KUCZAJ, ARKADIUSZ, CH
[72] MAJEED, SHOAIB, CH
[72] MAZUROV, ANATOLY, US
[72] PEITSCH, MANUEL, CH
[72] SEMREN, TANJA ZIVKOVIC, CH
[72] VAN DER TOORN, MARCO, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2023-03-09
[86] 2021-09-13 (PCT/EP2021/075134)
[87] (WO2022/053693)
[30] EP (20196087.9) 2020-09-14

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[51] **Int.Cl. C07D 237/28 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 9/04 (2006.01) A61P 13/12 (2006.01) A61P 19/02 (2006.01) C07D 401/12 (2006.01) C07D 403/12 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **NEW COMPOUNDS**
[54] **NOUVEAUX COMPOSES**
[72] OEHLRICH, DANIEL, BE
[72] VAN GOOL, MICHIEL LUC MARIA, ES
[72] LEENAERTS, JOSEPH ELISABETH, BE
[72] MURATORE, MICHAEL ERIC, BE
[72] TRESADERN, GARY JOHN, BE
[72] LAMKANFI, MOHAMED, BE
[72] VAN OPDENBOSCH, NINA, BE
[72] HENDRICKS, ROBERT THAN, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2023-03-09
[86] 2021-09-23 (PCT/EP2021/076164)
[87] (WO2022/063876)
[30] EP (20382845.4) 2020-09-24

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[13] A1
[51] **Int.Cl. B65B 13/28 (2006.01) B65B 27/10 (2006.01) E04C 5/16 (2006.01) E04G 21/12 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR BINDING METAL WIRES AND SIMILAR PRODUCTS**
[54] **PROCEDE ET APPAREIL POUR LA LIAISON DE FILS METALLIQUES ET DE PRODUITS SIMILAIRES**
[72] PRIULI, ELIA, IT
[71] SCHNELL S.P.A., IT
[85] 2023-03-09
[86] 2021-09-16 (PCT/IT2021/050284)
[87] (WO2022/059044)
[30] IT (102020000021862) 2020-09-16

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[13] A1
[51] **Int.Cl. F17C 1/08 (2006.01)**
[25] EN
[54] **PRESSURE VESSEL LINER, PRESSURE VESSEL AND METHODS**
[54] **REVETEMENT DE RECIPIENT SOUS PRESSION, RECIPIENT SOUS PRESSION ET PROCEDES**
[72] KEMP, RONALD MARTIN JOHN, GB
[71] XCIENCE LTD, GB
[85] 2023-03-09
[86] 2021-09-09 (PCT/EP2021/074865)
[87] (WO2022/053585)
[30] GB (2014170.1) 2020-09-09

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[51] **Int.Cl. C07D 403/06 (2006.01) A61K 31/404 (2006.01)**
[25] EN
[54] **5-SUBSTITUTED INDOLE 3-AMIDE DERIVATIVE, PREPARATION METHOD AND USE THEREOF**
[54] **DERIVE D'INDOLE 3-AMIDE SUBSTITUE EN POSITION 5, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] YANG, SHENGYONG, CN
[72] LI, LINLI, CN
[71] ORIGIANT PHARMACEUTICAL CO., LTD, CN
[85] 2023-03-09
[86] 2021-09-02 (PCT/CN2021/116256)
[87] (WO2022/052861)
[30] CN (202010943478.3) 2020-09-09
[30] CN (202110426935.6) 2021-04-20

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[51] **Int.Cl. A23L 5/10 (2016.01) A47J 37/12 (2006.01) A47J 44/00 (2006.01)**
[25] EN
[54] **AUTOMATED FRYING SYSTEM**
[54] **SYSTEME DE FRITURE AUTOMATISE**
[72] TANAKA, SAMUEL LEWIS, US
[72] HEMPY, HOGAN HALL, US
[72] ISHIGURO, PETER ELLIOT, US
[72] LANGE, SHAWN MICHAEL, US
[72] LENT, CORY DAVID, US
[72] NORMAN, JOHN PAUL, US
[71] LAB2FAB, LLC, US
[85] 2023-03-09
[86] 2021-10-06 (PCT/US2021/053771)
[87] (WO2022/076558)
[30] US (63/088,162) 2020-10-06
[30] US (17/494,664) 2021-10-05

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[13] A1
[51] **Int.Cl. G21C 3/54 (2006.01) G21C 1/03 (2006.01) G21C 1/14 (2006.01) G21C 7/02 (2006.01) G21C 7/04 (2006.01) G21C 7/22 (2006.01) G21C 7/24 (2006.01) G21C 15/247 (2006.01) G21C 19/31 (2006.01)**
[25] EN
[54] **NUCLEAR REACTOR PASSIVE REACTIVITY CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DE REACTIVITE PASSIVE DE REACTEUR NUCLEAIRE**
[72] SCOTT, IAN RICHARD, GB
[71] SCOTT, IAN RICHARD, GB
[85] 2023-03-09
[86] 2021-09-01 (PCT/EP2021/074175)
[87] (WO2022/053374)
[30] GB (2014182.6) 2020-09-09

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[13] A1
[51] **Int.Cl. A61B 90/00 (2016.01) A61F 9/00 (2006.01) A61F 9/007 (2006.01)**
[25] EN
[54] **DRY EYE TREATMENT SYSTEM WITH DISPOSABLE TIP AND CORNEAL SHIELD**
[54] **SYSTEME DE TRAITEMENT DE L'?IL SEC AVEC EMBOUT JETABLE ET ELEMENT DE PROTECTION DE LA CORNEE**
[72] KLEINMAN BEN TSVI, MAY, IL
[72] BIRMAN, YOSEF, IL
[72] ALTMAN, HERNAN, IL
[71] LUMENIS BE LTD., IL
[85] 2023-03-09
[86] 2021-09-09 (PCT/IB2021/058217)
[87] (WO2022/053980)
[30] US (63/076,485) 2020-09-10

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[13] A1
[51] **Int.Cl. C07F 9/6571 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING DIMERIC PHOSPHAZENE DERIVED BRONSTED ACIDS**
[54] **PROCEDE DE PREPARATION D'ACIDES DE BRONSTED DERIVES DE PHOSPHAZENE DIMERE**
[72] LIST, BENJAMIN, DE
[72] SCHWENGERS, SEBASTIAN ARMIN, DE
[72] DE, CHANDRA KANTA, DE
[72] LI, YIHANG, DE
[71] STUDIENGESELLSCHAFT KOHLE GGMBH, DE
[85] 2023-03-09
[86] 2021-09-28 (PCT/EP2021/076645)
[87] (WO2022/073803)
[30] EP (20200632.6) 2020-10-07
[30] EP (21162986.0) 2021-03-16

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[51] **Int.Cl. C09K 3/00 (2006.01) C09D 11/00 (2014.01) G02B 1/00 (2006.01) H01L 31/0256 (2006.01)**
[25] EN
[54] **NOVEL ORGANOVOLTAIC MATERIALS AND USES THEREOF**
[54] **NOUVEAUX MATERIAUX ORGANOVOLTAIQUES ET LEURS UTILISATIONS**
[72] DAYNEKO, SERGEY V., CA
[72] FARAHAT, MAHMOUD E., CA
[72] WELCH, GREGORY C., CA
[71] BRILLIANT MATTERS ORGANIC ELECTRONICS INC., CA
[85] 2023-03-09
[86] 2021-09-16 (PCT/CA2021/051294)
[87] (WO2022/056636)
[30] US (63/079,147) 2020-09-16

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[13] A1
[51] **Int.Cl. C10L 5/10 (2006.01)**
[25] EN
[54] **BRIQUETTE**
[54] **BRIQUETTE**
[72] JOYCE, RICHARD, GB
[71] BINDING SOLUTIONS LTD, GB
[85] 2023-03-09
[86] 2021-09-20 (PCT/GB2021/052427)
[87] (WO2022/058747)
[30] GB (2014846.6) 2020-09-21

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[13] A1
[51] **Int.Cl. F23H 1/02 (2006.01) F23H 7/08 (2006.01) F23H 17/12 (2006.01)**
[25] EN
[54] **GRATE BLOCK WITH RISING NOSE**
[54] **BLOC DE GRILLE A NEZ MONTANT**
[72] WALDNER, MAURICE HENRI, CH
[72] BRENNWALD, WERNER, CH
[71] HITACHI ZOSEN INOVA AG, CH
[85] 2023-03-09
[86] 2021-09-09 (PCT/EP2021/074785)
[87] (WO2022/053551)
[30] EP (20195290.0) 2020-09-09

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[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) C12N 15/10 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **GENETICALLY ENGINEERED T CELLS WITH REGNASE-1 AND/OR TGFBRII DISRUPTION HAVE IMPROVED FUNCTIONALITY AND PERSISTENCE**
[54] **LYMPHOCYTES T GENETIQUEMENT MODIFIES A INTERRUPTION DE REGNASE-1 ET/OU DE TGFBRII AYANT UNE FONCTIONNALITE ET UNE PERSISTANCE AMELIOREES**
[72] DEQUEANT, MARY-LEE, US
[72] KALAITZIDIS, DEMETRIOS, US
[72] GHONIME, MOHAMMED, US
[71] CRISPR THERAPEUTICS AG, CH
[85] 2023-03-09
[86] 2021-09-23 (PCT/IB2021/058704)
[87] (WO2022/064428)
[30] US (63/082,357) 2020-09-23
[30] US (63/124,429) 2020-12-11
[30] US (63/225,673) 2021-07-26

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[13] A1
[51] **Int.Cl. A01K 61/60 (2017.01) A01K 61/10 (2017.01)**
[25] EN
[54] **A FISH FARMING FACILITY COMPRISING A CONTROLLABLE ENCLOSURE**
[54] **INSTALLATION DE PISCICULTURE COMPRENANT UNE ENCEINTE COMMANDABLE**
[72] SANDSTAD, ALF REIDAR, NO
[71] SEAFARMING SYSTEMS AS, NO
[85] 2023-03-09
[86] 2021-09-10 (PCT/NO2021/050188)
[87] (WO2022/055359)
[30] NO (20200994) 2020-09-10

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[13] A1
[51] **Int.Cl. C07C 5/48 (2006.01) C07C 7/04 (2006.01) C07C 7/10 (2006.01) C07C 7/11 (2006.01) C07C 11/04 (2006.01) C07C 11/06 (2006.01) C07C 11/08 (2006.01)**
[25] EN
[54] **HIGH TEMPERATURE AIR SEPARATION MODULE FOR AN ODH COMPLEX**
[54] **MODULE DE SEPARATION D'AIR A HAUTE TEMPERATURE POUR UN COMPLEXE D'ODH**
[72] SIMANZHENKOV, VASILY, CA
[72] OLAYIWOLA, BOLAJI, CA
[72] GOODARZNIA, SHAHIN, CA
[71] NOVA CHEMICALS (INTERNATIONAL) S.A., CH
[85] 2023-03-09
[86] 2021-10-06 (PCT/IB2021/059183)
[87] (WO2022/074591)
[30] US (63/089,076) 2020-10-08

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[13] A1
[51] **Int.Cl. A61F 5/445 (2006.01)**
[25] EN
[54] **OSTOMY DEVICES**
[54] **DISPOSITIFS DE STOMIE**
[72] EYAL, DROR, IL
[72] EYAL, NURIT, IL
[71] STOMTOP LTD., IL
[85] 2023-03-09
[86] 2021-10-05 (PCT/IL2021/051193)
[87] (WO2022/079708)
[30] US (63/091,419) 2020-10-14

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[13] A1
[51] **Int.Cl. A61F 2/70 (2006.01) A61F 2/66 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AN ACTIVE EXOSKELETON WITH LOCAL BATTERY**
[54] **SYSTEMES ET PROCEDES POUR EXOSQUELETTE ACTIF AVEC BATTERIE LOCALE**
[72] MOONEY, LUKE, US
[72] DUVAL, JEAN-FRANCOIS, US
[72] BENZ, NICHOLAS, US
[72] CUMMINGS, JONATHAN, US
[72] MOONEY, MATTHEW, US
[71] DEPHY, INC., US
[85] 2023-03-09
[86] 2021-08-24 (PCT/US2021/047295)
[87] (WO2022/060539)
[30] US (17/022,982) 2020-09-16

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[13] A1
[51] **Int.Cl. A21D 2/26 (2006.01) A21D 8/04 (2006.01)**
[25] EN
[54] **COMBINATION OF NONMALTOGENIC EXOAMYLASE AND GLUCOAMYLASE FOR IMPROVING BREAD RESILIENCE AND REDUCING AMOUNT OF ADDED SUGARS**
[54] **COMBINAISON D'EXOAMYLASE ET DE GLUCOAMYLASE NON MALTOGENIQUES POUR AMELIORER L'ELASTICITE DU PAIN ET REDUIRE LA QUANTITE DE SUCRES AJOUTES**
[72] CRAMER, JACOB FLYVHOLM, US
[72] GIFFORD, MORGAN LOUISE, US
[72] HAANING, SVEND, DK
[72] KRAGH, LENE, DK
[72] LILLELUND, VINNI HOYER, DK
[72] WARD, DONALD E., US
[71] DUPONT NUTRITION BIOSCIENCES APS, DK
[85] 2023-03-09
[86] 2021-09-21 (PCT/US2021/051241)
[87] (WO2022/061276)
[30] US (63/080,984) 2020-09-21

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[13] A1
[51] **Int.Cl. A61K 8/44 (2006.01) A61K 8/37 (2006.01) A61Q 5/12 (2006.01) A61Q 19/00 (2006.01) C11D 1/62 (2006.01)**
[25] EN
[54] **COMPOSITIONS CONTAINING DIALKYL AMINO ACID ESTER SALTS**
[54] **COMPOSITIONS CONTENANT DES SELS D'ESTER D'ACIDE AMINE DE DIALKYLE**
[72] MURPHY, DENNIS S., US
[72] BUTIKAS, RENATA A., US
[72] WOLFE, PATRICK SHANE, US
[72] VOLLMER, MATTHEW V., US
[71] STEPAN COMPANY, US
[85] 2023-03-09
[86] 2021-09-13 (PCT/US2021/050042)
[87] (WO2022/056366)
[30] US (63/077,809) 2020-09-14

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[13] A1
[51] **Int.Cl. B61K 9/10 (2006.01) B61L 23/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING FAULTS IN EXTENDED WAVEGUIDES**
[54] **SYSTEME ET PROCEDE POUR LA DETECTION DE DEFAUTS DANS DES GUIDES D'ONDES ALLONGES**
[72] CHAPUIS, BASTIEN, FR
[72] ALBERTINI, JULIEN, FR
[72] FISHER, CLEMENT, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2023-03-09
[86] 2021-09-10 (PCT/EP2021/074932)
[87] (WO2022/053611)
[30] FR (FR2009239) 2020-09-11

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[13] A1
[51] **Int.Cl. B01D 1/06 (2006.01) C07C 273/04 (2006.01) C07C 273/16 (2006.01)**
[25] EN
[54] **STRIPPER WITH BOTTOM CHAMBER**
[54] **EXTRACTEUR AVEC CHAMBRE INFERIEURE**
[72] PORRO, LINO GIOVANNI, BE
[72] BYNES, ADRIAN, BE
[71] YARA INTERNATIONAL ASA, NO
[85] 2023-03-09
[86] 2021-10-08 (PCT/EP2021/077806)
[87] (WO2022/074174)
[30] EP (20200839.7) 2020-10-08

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[13] A1
[51] **Int.Cl. F01K 25/10 (2006.01)**
[25] EN
[54] **PLANT FOR PRODUCING MECHANICAL ENERGY FROM A CARRIER FLUID UNDER CRYOGENIC CONDITIONS**
[54] **INSTALLATION DE PRODUCTION D'ENERGIE MECANIQUE A PARTIR D'UN FLUIDE PORTEUR EN CONDITIONS CRYOGENIQUES**
[72] RUSSO, VITALIANO, IT
[72] MUTI, PIETRO, IT
[71] SYLANS SAGL, CH
[85] 2023-03-09
[86] 2021-12-14 (PCT/IB2021/061679)
[87] (WO2022/130189)
[30] IT (102020000031184) 2020-12-17

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[13] A1
[51] **Int.Cl. C07B 59/00 (2006.01)**
[25] EN
[54] **REACTIONS OF RADIOACTIVE COMPOUNDS FACILITATED BY A SOLID PHASE**
[54] **REACTIONS DE COMPOSES RADIOACTIFS FACILITEES PAR UNE PHASE SOLIDE**
[72] LAURENT, NAVARRO, BE
[72] VERBRUGGE, NICOLAS, BE
[72] D`HUYVETTER, MATTHIAS, BE
[72] FRIEBE, MATTHIAS, CH
[72] TADINO, VINCENT, BE
[72] MAINDRON, NICOLAS, FR
[72] JOYARD, YOANN, FR
[71] PRECIRIX N.V., BE
[85] 2023-03-09
[86] 2021-09-07 (PCT/EP2021/074579)
[87] (WO2022/053459)
[30] EP (20306019.9) 2020-09-11

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[13] A1
[51] **Int.Cl. E06B 9/32 (2006.01) E06B 9/68 (2006.01) E06B 9/72 (2006.01) G08C 17/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR EXECUTING A RESET MODE FOR ARCHITECTURAL STRUCTURE COVERINGS**
[54] **SYSTEMES ET PROCEDES SERVANT A EXECUTER UN MODE DE REINITIALISATION POUR DES REVETEMENTS DE STRUCTURE ARCHITECTURALE**
[72] WESLEY, FELTEAU, US
[71] HUNTER DOUGLAS, INC., US
[85] 2023-03-09
[86] 2021-08-13 (PCT/US2021/045847)
[87] (WO2022/066312)
[30] US (63/082,136) 2020-09-23

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[13] A1
[51] **Int.Cl. A61F 2/02 (2006.01) A61L 27/56 (2006.01) B29C 43/00 (2006.01) B29C 43/14 (2006.01) B29C 67/20 (2006.01) C08J 9/26 (2006.01)**
[25] EN
[54] **METHOD FOR FORMING AN IMPLANTABLE MEDICAL DEVICE WITH VARIED COMPOSITION AND POROSITY**
[54] **PROCEDE DE FORMATION D'UN DISPOSITIF MEDICAL IMPLANTABLE AYANT UNE COMPOSITION ET UNE POROSITE VARIEES**
[72] FARRIS, JEFFERY A., US
[72] BROWN, KEVIN LEE, US
[72] SNELL, DOUGLAS B., US
[72] ROEDER, RYAN K., US
[72] MESSMAN, MARK G., US
[71] HAPPE SPINE LLC, US
[85] 2023-03-09
[86] 2021-09-13 (PCT/US2021/050074)
[87] (WO2022/056384)
[30] US (63/077,308) 2020-09-11

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[13] A1
[25] EN
[54] **DEVICES AND METHODS FOR GENERATING ELECTRICAL ENERGY**
[54] **DISPOSITIFS ET PROCEDES DE PRODUCTION D'ENERGIE ELECTRIQUE**
[72] JONES, BRYN, AU
[72] KELLY, JULIAN FREDERICK, AU
[71] ENTX LIMITED, AU
[85] 2023-03-09
[86] 2021-09-09 (PCT/AU2021/051044)
[87] (WO2022/051809)
[30] AU (2020903248) 2020-09-10

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[13] A1
[51] **Int.Cl. F28F 1/36 (2006.01) F28F 1/42 (2006.01) F28F 13/18 (2006.01)**
[25] EN
[54] **METAL HEAT EXCHANGER TUBE**
[54] **TUBE METALLIQUE D'ECHANGEUR DE CHALEUR**
[72] GOTTERBARM, ACHIM, DE
[72] KNAB, MANFRED, DE
[72] LUTZ, RONALD, DE
[71] WIELAND-WERKE AG, DE
[85] 2023-03-09
[86] 2021-10-07 (PCT/EP2021/000121)
[87] (WO2022/089773)
[30] DE (10 2020 006 684.4) 2020-10-31

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[13] A1
[51] **Int.Cl. C07D 213/65 (2006.01) A61P 25/28 (2006.01) C07D 401/06 (2006.01)**
[25] EN
[54] **HYDROXY-PYRIDINALDOXIME SCAFFOLDS**
[54] **ECHAFAUDAGES D'HYDROXY-PYRIDINALDOXIME**
[72] BAATI, RACHID, FR
[72] BROWN, RICHARD, GB
[72] DIAS, JOSE, FR
[72] MARYAN-INSTONE, ALEX, GB
[72] NACHON, FLORIAN, FR
[72] YERRI, JAGADEESH, FR
[72] VOROS, CAMILLE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] ETAT FRANCAIS, SERVICE DE SANTE DES ARMEES REPRESENTE PAR LE DELEGUE GENERAL DE L'ARMEMENT, FR
[71] UNIVERSITE DE STRASBOURG, FR
[85] 2023-03-09
[86] 2021-09-09 (PCT/EP2021/074846)
[87] (WO2022/053572)
[30] EP (20306013.2) 2020-09-11

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[13] A1
[51] **Int.Cl. C07K 16/22 (2006.01) A61P 9/12 (2006.01)**
[25] EN
[54] **ANTIBODIES OR ANTIGEN-BINDING FRAGMENTS SPECIFICALLY BINDING TO GREMLIN-1 AND USES THEREOF**
[54] **ANTICORPS OU FRAGMENTS DE LIAISON A L'ANTIGENE SE LIANT SPECIFIQUEMENT A LA GREMLIN-1 ET LEURS UTILISATIONS**
[72] LUDEWIG, BURKHARD, CH
[72] ONDER, LUCAS, AT
[72] GIL CRUZ, CRISTINA DEL CARMEN, CH
[72] PEREZ SHIBAYAMA, CHRISTIAN IVAN, CH
[71] KANTONSSPITAL ST. GALLEN, CH
[85] 2023-03-09
[86] 2021-10-20 (PCT/EP2021/079109)
[87] (WO2022/084400)
[30] EP (20202900.5) 2020-10-20
[30] EP (21161106.6) 2021-03-05
[30] EP (21200201.8) 2021-09-30

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[13] A1
[51] **Int.Cl. G01S 17/894 (2020.01) G01N 21/954 (2006.01) G01S 15/88 (2006.01)**
[25] EN
[54] **MANEUVERABLE PIPELINE INSPECTION DEVICE**
[54] **DISPOSITIF MAN?UVRABLE D'INSPECTION DE CANALISATION**
[72] KWAN, JEFFREY CHAK-FAI, CA
[71] PURE TECHNOLOGIES LTD., CA
[85] 2023-03-09
[86] 2021-10-29 (PCT/CA2021/051534)
[87] (WO2022/087747)
[30] US (63/107,882) 2020-10-30

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[13] A1
[51] **Int.Cl. A23L 33/21 (2016.01) A23K 10/12 (2016.01) A23K 10/14 (2016.01) A23K 10/16 (2016.01) A23K 10/30 (2016.01) A23K 10/37 (2016.01) A23K 20/163 (2016.01) A23K 50/10 (2016.01) A23K 50/30 (2016.01) A23K 50/60 (2016.01) A23K 50/75 (2016.01) A23L 7/10 (2016.01) A23L 7/104 (2016.01) A23L 33/105 (2016.01) A23J 1/14 (2006.01) A23J 3/34 (2006.01) C12P 19/14 (2006.01)**
[25] EN
[54] **FEED OR FOOD INGREDIENT DERIVED FROM FIBRE-RICH BIOMASS OF SOY HULLS**
[54] **INGREDIENT D'ALIMENT POUR ANIMAUX OU D'ALIMENT DERIVE DE BIOMASSE DE COQUES DE SOJA RICHE EN FIBRES**
[72] THIRUP, LAILA, DK
[72] RASMUSSEN, PERNILLE TOFT, DK
[72] BROKNER, CHRISTINE, DK
[72] DICKOW, JONATAN A., DK
[71] HAMLET PROTEIN A/S, DK
[85] 2023-03-09
[86] 2021-04-29 (PCT/EP2021/061281)
[87] (WO2022/069084)
[30] EP (20199889.5) 2020-10-02

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[13] A1
[51] **Int.Cl. F28F 1/36 (2006.01) F28F 1/42 (2006.01) F28F 13/18 (2006.01)**
[25] EN
[54] **METAL HEAT EXCHANGER TUBE**
[54] **TUBE METALLIQUE D'ECHANGEUR DE CHALEUR**
[72] GOTTERBARM, ACHIM, DE
[72] KNAB, MANFRED, DE
[72] LUTZ, RONALD, DE
[72] LUO, ZHONG, CN
[72] CAO, JIANYING, CN
[71] WIELAND-WERKE AG, DE
[85] 2023-03-09
[86] 2021-10-07 (PCT/EP2021/000120)
[87] (WO2022/089772)
[30] DE (10 2020 006 683.6) 2020-10-31

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[13] A1
[51] **Int.Cl. A61K 9/16 (2006.01) A61K 47/69 (2017.01) A61K 9/51 (2006.01)**
[25] EN
[54] **NANO-IN-MICRO ENCAPSULATED SIRNA DRY POWDER, METHOD FOR PRODUCING THE SAME AND USE OF A POWDER FORMULATION**
[54] **POUDRE SECHE DE PARNI ENCAPSULE NANO-DANS-MICRO, PROCEDE DE PRODUCTION DE CELLE-CI ET UTILISATION D'UNE FORMULATION DE POUDRE**
[72] MERKEL, OLIVIA MONIKA, DE
[72] KEIL, TOBIAS, DE
[72] ZIMMERMANN, CHRISTOPH MARTIN, DE
[72] BALDASSI, DOMIZIA, DE
[72] WITZIGMANN, DOMINIK, CA
[72] CULLIS, PIETER RUTTER, CA
[71] LUDWIG-MAXIMILIANS-UNIVERSITAT MUNCHEN, DE
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2023-03-09
[86] 2021-10-13 (PCT/EP2021/078320)
[87] (WO2022/079105)
[30] EP (20201629.1) 2020-10-13

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[13] A1
[51] **Int.Cl. B01D 53/14 (2006.01) F01K 23/10 (2006.01) F02B 47/10 (2006.01)**
[25] EN
[54] **CARBON CAPTURE SYSTEMS**
[54] **SYSTEMES DE CAPTURE DE CARBONE**
[72] DUNN, PAUL M., US
[71] ENHANCED ENERGY GROUP, LLC, US
[85] 2023-03-09
[86] 2021-09-03 (PCT/US2021/048988)
[87] (WO2022/055797)
[30] US (63/076,521) 2020-09-10
[30] US (17/464,199) 2021-09-01

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[13] A1
[51] **Int.Cl. C01B 3/12 (2006.01) C01B 32/50 (2017.01) C01B 3/56 (2006.01)**
[25] EN
[54] **SORPTION-ENHANCED WATER-GAS SHIFT PROCESS FOR THE FORMATION OF A CO2 PRODUCT STREAM AND AN H2 PRODUCT STREAM**
[54] **PROCEDE DE CONVERSION DU GAZ A L'EAU OPTIMISE PAR SORPTION POUR LA FORMATION D'UN COURANT DE PRODUIT DE CO2 ET D'UN COURANT DE PRODUIT D'H2**
[72] JAMES, JEBIN DUTHIE, NL
[72] SEBASTIANI, FRANCESCO, NL
[72] VAN DIJK, HENDRICUS ADRIANUS JOHANNES, NL
[72] BOON, JURRIAAN, NL
[71] NEDERLANDSE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOEK TNO, NL
[85] 2023-03-09
[86] 2021-09-13 (PCT/EP2021/075133)
[87] (WO2022/053692)
[30] EP (20195765.1) 2020-09-11

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[13] A1
[51] **Int.Cl. B09B 3/00 (2022.01) G01N 33/202 (2019.01) G01N 33/2022 (2019.01) G01N 33/2028 (2019.01)**
[25] EN
[54] **METHOD FOR RECYCLING ALUMINUM ALLOYS USING CONTAMINANT CONCENTRATION ESTIMATES FOR QUALITY CONTROL**
[54] **PROCEDE DE RECYCLAGE D'ALLIAGES D'ALUMINIUM UTILISANT DES ESTIMATIONS DE CONCENTRATION DE CONTAMINANTS POUR LE CONTROLE DE LA QUALITE**
[72] BITTON, DANIEL, CA
[71] HOUSE OF METALS COMPANY LIMITED, CA
[85] 2023-03-09
[86] 2021-07-27 (PCT/CA2021/051047)
[87] (WO2022/077096)
[30] US (63/090,925) 2020-10-13

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[13] A1
[51] **Int.Cl. H02J 50/10 (2016.01) H02J 50/40 (2016.01) G01K 1/024 (2021.01) G08C 17/04 (2006.01)**
[25] EN
[54] **INDUCTIVE POWER AND COMMUNICATIONS BUS**
[54] **BUS D'ALIMENTATION ET DE COMMUNICATION INDUCTIF**
[72] MEIER, IAN ROBERT, CA
[72] LOCKERBIE, MICHAEL DAVID, CA
[71] BITSTRATA SYSTEMS INC., CA
[85] 2023-03-09
[86] 2021-09-08 (PCT/CA2021/051234)
[87] (WO2022/051843)
[30] US (63/076,566) 2020-09-10

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[13] A1
[51] **Int.Cl. A01B 69/00 (2006.01) G05D 1/00 (2006.01) G05D 1/02 (2020.01)**
[25] FR
[54] **METHOD FOR WORKING A PLOT OF LAND BY A FLEET OF AT LEAST TWO AGRICULTURAL ROBOTS**
[54] **PROCEDE DE TRAVAIL D'UNE PARCELLE PAR UNE FLOTTE D'AU MOINS DEUX ROBOTS AGRICOLES**
[72] HOELLINGER, MARIE, FR
[72] POTIER, PHILIPPE, FR
[72] LABOUREY, QUENTIN, FR
[72] JARRASSIER, BENOIT, FR
[72] HOELLINGER, MARIE, FR
[72] POTIER, PHILIPPE, FR
[72] LABOUREY, QUENTIN, FR
[72] JARRASSIER, BENOIT, FR
[71] KUHN SAS, FR
[85] 2023-03-09
[86] 2021-09-14 (PCT/EP2021/075205)
[87] (WO2022/063637)
[30] FR (FR2009696) 2020-09-24

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[13] A1
[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6804 (2018.01) C12Q 1/6883 (2018.01)**
[25] EN
[54] **TOOLS & METHODS USEFUL FOR DETECTION OF LACTOSE INTOLERANCE AND USES THEREOF**
[54] **OUTILS ET PROCEDES UTILES POUR LA DETECTION D'INTOLERANCE AU LACTOSE ET LEURS UTILISATIONS**
[72] DUCREST, PERCEVENT, CH
[72] HARNISCHBERG, FRANCK, CH
[71] DUCREST, PERCEVENT, CH
[71] HARNISCHBERG, FRANCK, CH
[85] 2023-03-09
[86] 2021-09-13 (PCT/EP2021/075058)
[87] (WO2022/053665)
[30] EP (20195885.7) 2020-09-14

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[13] A1
[51] **Int.Cl. F16L 47/06 (2006.01) F16L 9/12 (2006.01) F16L 13/10 (2006.01) F16L 25/12 (2006.01)**
[25] EN
[54] **PIPE COUPLING ASSEMBLY AND METHOD**
[54] **ENSEMBLE RACCORD DE TUYAU ET PROCEDE**
[72] YU, LIANG, US
[72] MASON, JAMES FENWICK, US
[71] POLYFLOW LLC, US
[85] 2023-03-09
[86] 2021-09-07 (PCT/US2021/049265)
[87] (WO2022/055870)
[30] US (17/018,246) 2020-09-11

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[13] A1
[51] **Int.Cl. G16H 50/20 (2018.01) A61B 7/04 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PERFORMING TIME-DOMAIN PROCESSING OF A WAVEFORM SIGNAL**
[54] **PROCEDE ET SYSTEME DESTINES A REALISER UN TRAITEMENT DANS LE DOMAINE TEMPOREL D'UN SIGNAL DE FORME D'ONDE**
[72] SHPAK, YAROSLAV, UA
[72] DAVYDOV, MAKSIM, BY
[71] SPARROW ACOUSTICS INC., CA
[71] SHPAK, YAROSLAV, UA
[71] DAVYDOV, MAKSIM, BY
[85] 2023-03-09
[86] 2021-09-07 (PCT/CA2021/051232)
[87] (WO2022/051841)
[30] US (63/076,071) 2020-09-09

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTIBODIES THAT BIND TO IL1RAP AND USES THEREOF**
[54] **ANTICORPS QUI SE LIENT A LA IL1RAP ET LEURS UTILISATIONS**
[72] MACOIN, JULIE, CH
[72] CROSET, AMELIE, CH
[72] LOYAU, JEREMY, CH
[72] MONNEY, THIERRY, CH
[72] MBOW, LAMINE, CH
[72] DOUCEY, MARIE-AGNES, CH
[72] LABANCA, VALENTINA, CH
[71] ICHNOS SCIENCES SA, CH
[85] 2023-03-09
[86] 2021-09-14 (PCT/EP2021/075235)
[87] (WO2022/053715)
[30] EP (20195961.6) 2020-09-14
[30] EP (21151218.1) 2021-01-12
[30] EP (21159485.8) 2021-02-26
[30] EP (21179711.3) 2021-06-16

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[13] A1
[51] **Int.Cl. B01D 53/02 (2006.01) B01D 53/04 (2006.01) C01B 3/00 (2006.01) C01B 3/50 (2006.01) C10K 1/00 (2006.01)**
[25] EN
[54] **DISPLACEMENT PURGE ADSORPTION PROCESS FOR SEPARATING CO2 FROM ANOTHER GAS**
[54] **PROCEDE D'ADSORPTION DE PURGE PAR DEPLACEMENT POUR SEPARER LE CO2 D'UN AUTRE GAZ**
[72] BOON, JURRIAAN, NL
[72] VAN DIJK, HENDRICUS ADRIANUS JOHANNES, NL
[72] COBDEN, PAUL DEAN, NL
[72] JAMES, JEBIN DUTHIE, NL
[71] NEDERLANDSE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOEK TNO, NL
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[25] EN
[54] **METHODS FOR REMOVAL OF SULFUR DIOXIDE (SO2) FROM TRIFLUOROACETYL CHLORIDE (TFAC)**
[54] **PROCEDES D'ELIMINATION DE DIOXYDE DE SOUFRE (SO2) DANS DU CHLORURE DE TRIFLUOROACETYLE (TFAC)**
[72] KOPKALLI, HALUK, US
[72] WANG, HAIYOU, US
[72] YANG, TERRIS, US
[72] MCCLAINE, JENNIFER W., US
[72] WILCOX, RICHARD, US
[72] CLOSE, JOSHUA, US
[72] MALLEPALLY, RAJENDAR, US
[71] HONEYWELL INTERNATIONAL INC., US
[85] 2023-03-09
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[87] (WO2022/056544)
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[30] US (63/222,801) 2021-07-16
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[25] EN
[54] **AZEOTROPE OR AZEOTROPE-LIKE COMPOSITIONS OF TRIFLUOROIODOMETHANE (CF3I) AND WATER**
[54] **COMPOSITIONS AZEOTROPES OU DE TYPE AZEOTROPE DE TRIFLUOROIODOMETHANE (CF3I) ET D'EAU**
[72] KOPKALLI, HALUK, US
[72] MCCLAINE, JENNIFER W., US
[72] WANG, TAO, US
[72] WILCOX, RICHARD, US
[72] CHIU, YUON, US
[72] PHAM, HANG T., US
[71] HONEYWELL INTERNATIONAL INC., US
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[86] 2021-09-10 (PCT/US2021/071420)
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[54] **DUAL-AFFINITY PROBES FOR ANALYTE DETECTION**
[54] **SONDES A DOUBLE AFFINITE DE DETECTION D'ANALYTES**
[72] BUERKI, CHRISTINE, CA
[72] GREENE, ROBERT CRANDALL, CA
[72] URTATIZ, OSCAR, CA
[71] GEMINA LABORATORIES LTD., CA
[85] 2023-03-09
[86] 2021-09-10 (PCT/CA2021/051256)
[87] (3192327)
[30] US (63/076,918) 2020-09-10
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[25] EN
[54] **DEVICES AND METHODS FOR ENERGY EFFICIENT MULTI-LINK COMMUNICATION IN A WIRELESS NETWORK**
[54] **DISPOSITIFS ET PROCEDES DE COMMUNICATIONS MULTI-LIAISONS A FAIBLE CONSOMMATION D'ENERGIE DANS UN RESEAU SANS FIL**
[72] KLEIN, ARIK, DE
[72] SHILO, SHIMON, DE
[72] WEITZMAN, AVI, DE
[72] EPSTEIN, AVNER, DE
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-03-09
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[25] EN
[54] **NON-FLAMMABLE ELECTROLYTE FOR ENERGY STORAGE DEVICES**
[54] **ELECTROLYTE ININFLAMMABLE POUR DISPOSITIFS D'ACCUMULATION D'ENERGIE**
[72] EL-KADY, MAHER F., US
[72] MCVERRY, BRIAN T., US
[72] RAO, ETHAN, US
[72] KANER, RICHARD B., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] SILQ TECHNOLOGIES CORPORATION, US
[85] 2023-03-09
[86] 2021-09-10 (PCT/US2021/049837)
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[25] EN
[54] **METHOD FOR LARGE SCALE PRODUCTION OF ANTIBODIES USING A CELL-FREE PROTEIN SYNTHESIS SYSTEM**
[54] **PROCEDE DE PRODUCTION A GRANDE ECHELLE D'ANTICORPS UTILISANT UN SYSTEME ACELLULAIRE DE SYNTHESE DE PROTEINES**
[72] YIN, GANG, US
[71] SUTRO BIOPHARMA, INC., US
[85] 2023-03-09
[86] 2021-09-13 (PCT/US2021/050025)
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[30] US (63/078,254) 2020-09-14

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[25] EN
[54] **SYSTEM AND METHOD FOR AUTO-TAGGING BMS POINTS**
[54] **SYSTEME ET PROCEDE D'AUTO-MARQUAGE DE POINTS BMS**
[72] WANG, QINPENG, US
[72] CONTE, GREGORY, US
[71] SIEMENS INDUSTRY, INC., US
[85] 2023-03-09
[86] 2021-08-25 (PCT/US2021/047464)
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[25] EN
[54] **ENERGY STORAGE CELL**
[54] **CELLULE DE STOCKAGE D'ENERGIE**
[72] PIRES, ANDREW, US
[72] GORASIA, JAYESH BHARAT, US
[72] PRODAN, COLE, US
[71] TESLA, INC., US
[85] 2023-03-09
[86] 2021-09-21 (PCT/US2021/051343)
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[51] **Int.Cl. F17C 13/02 (2006.01) F03D 9/11 (2016.01) F03D 9/32 (2016.01)**
[25] EN
[54] **ARRANGEMENT FOR STORING GAS**
[54] **SYSTEME DE STOCKAGE DE GAZ**
[72] KRIESE, ALEXANDER, AT
[71] MESSER GASPACK GMBH, DE
[85] 2023-03-09
[86] 2021-09-08 (PCT/EP2021/074700)
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[51] **Int.Cl. A45C 1/06 (2006.01) G06Q 20/40 (2012.01) A45C 11/18 (2006.01) A45C 13/18 (2006.01)**
[25] EN
[54] **WALLET ASSEMBLY AND METHOD OF USE**
[54] **ENSEMBLE PORTEFEUILLE ET SON PROCEDE D'UTILISATION**
[72] SHIELDS, MICHAEL PETER, PA
[71] TODO BIO, S.A., PA
[85] 2023-03-09
[86] 2021-09-08 (PCT/US2021/049439)
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[51] **Int.Cl. E04G 5/12 (2006.01) E04G 5/14 (2006.01) E04G 21/24 (2006.01)**
[25] EN
[54] **IMPROVEMENTS RELATING TO SCAFFOLDING TIES**
[54] **AMELIORATIONS APPORTEES A DES ATTACHES D'ECHAFAUDAGE**
[72] BALUE, GAVIN, GB
[71] AVESTIN LIMITED, GB
[85] 2023-03-09
[86] 2021-09-15 (PCT/GB2021/052396)
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[30] GB (2014482.0) 2020-09-15

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[51] **Int.Cl. G06F 3/048 (2013.01) G06Q 10/10 (2023.01) G06Q 30/02 (2023.01) G06Q 30/06 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR REAL-LIFE INTERACTIVE EXPERIENCE BETWEEN EVENT PARTICIPANTS IN A VIRTUAL GATHERING**
[54] **SYSTEME ET PROCEDE D'EXPERIENCE INTERACTIVE DE VIE REELLE ENTRE DES PARTICIPANTS A UN EVENEMENT LORS D'UN RASSEMBLEMENT VIRTUEL**
[72] GUPTA, ANIRUDDHA, US
[72] GUPTA, ARULITA, US
[72] GUPTA, PREETI, US
[72] GUPTA, KISHOR KUMAR, US
[71] GUPTA, ANIRUDDHA, US
[71] GUPTA, ARULITA, US
[71] GUPTA, PREETI, US
[71] GUPTA, KISHOR KUMAR, US
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[86] 2021-09-12 (PCT/US2021/049978)
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[30] US (63/078,204) 2020-09-14
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[51] **Int.Cl. B61K 9/10 (2006.01) B61L 23/04 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR MANAGING RESOURCES FOR MONITORING ELONGATE STRUCTURES**
[54]
[72] CHAPUIS, BASTIEN, FR
[72] ALBERTINI, JULIEN, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2023-03-10
[86] 2021-09-10 (PCT/EP2021/074936)
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[30] FR (FR2009236) 2020-09-11

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[51] **Int.Cl. G06F 8/65 (2018.01) H04W 84/12 (2009.01) H04W 88/06 (2009.01) B61L 23/04 (2006.01)**
[25] EN
[54] **METHOD FOR UPDATING EMBEDDED SOFTWARE**
[54]
[72] CHAPUIS, BASTIEN, FR
[72] ALBERTINI, JULIEN, FR
[72] TRESARRIEU, ALBAN, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
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[51] **Int.Cl. A61B 17/22 (2006.01) A61B 17/221 (2006.01) A61F 2/01 (2006.01) A61F 2/06 (2013.01)**
[25] EN
[54] **METHOD OF THROMBUS REMOVAL AND RELATED DEVICES AND SYSTEMS**
[54] **PROCEDES D'ELIMINATION DE THROMBUS ET DISPOSITIFS ET SYSTEMES ASSOCIES**
[72] MCLAUGHLIN, ROBERT, US
[72] SOWARDS, STEFFAN, US
[72] ANDERSON, DEVAN, US
[72] MISENER, ANTHONY, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-03-10
[86] 2021-09-14 (PCT/US2021/050156)
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[51] **Int.Cl. C12N 15/113 (2010.01)**
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[54] **METHODS FOR THE REDUCTION OF Z-AAT PROTEIN LEVELS**
[54] **METHODES DE REDUCTION DES TAUX DE PROTEINE Z-AAT**
[72] CHRISTIANSON, DAWN, US
[72] HAMILTON, JAMES C., US
[72] GIVEN, BRUCE, US
[71] ARROWHEAD PHARMACEUTICALS, INC., US
[85] 2023-03-10
[86] 2021-09-14 (PCT/US2021/050247)
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[30] US (63/078,658) 2020-09-15
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[54] **BALCONY**
[54] **BALCON**
[72] PARTHIPAN, DEEPAN, GB
[71] DEEP CONTRACTORS LIMITED, GB
[85] 2023-03-10
[86] 2021-09-10 (PCT/GB2021/052348)
[87] (WO2022/053819)
[30] GB (2014352.5) 2020-09-11
[30] GB (2018716.7) 2020-11-27

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[51] **Int.Cl. B21C 23/21 (2006.01) B21C 23/04 (2006.01) B21C 23/08 (2006.01) B21C 23/14 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR PERFORMING SHEAR-ASSISTED EXTRUSION AND EXTRUSION PROCESSES**
[54] **DISPOSITIFS ET PROCEDES POUR REALISER DES PROCESSUS D'EXTRUSION ASSISTEE PAR CISAILLEMENT ET D'EXTRUSION**
[72] WHALEN, SCOTT A., US
[72] DARSELL, JENS T., US
[72] REZA-E-RABBY, MD., US
[72] TAYSOM, BRANDON SCOTT, US
[72] WANG, TIANHAO, US
[72] HERLING, DARRELL R., US
[72] LI, XIAO, US
[71] BATTELLE MEMORIAL INSTITUTE, US
[85] 2023-03-10
[86] 2021-09-13 (PCT/US2021/050022)
[87] (WO2022/056358)
[30] US (63/077,191) 2020-09-11
[30] US (17/242,166) 2021-04-27
[30] US (17/033,854) 2020-09-27

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[51] **Int.Cl. C07D 213/38 (2006.01) A61P 33/10 (2006.01) C07D 295/033 (2006.01) C07D 295/073 (2006.01)**
[25] EN
[54] **PIPERAZINYL COMPOUNDS AND METHODS FOR TREATING NEMATODE INFECTIONS**
[54] **COMPOSES DE PIPERAZINYLE ET PROCEDES DE TRAITEMENT D'INFECTIONS PAR DES NEMATODES**
[72] ROY, PETER, CA
[72] HARRINGTON, SEAN, CA
[72] PYCHE, JACOB, CA
[72] BURNS, ANDREW, CA
[72] BAKER, RACHEL, CA
[72] LAUTENS, MARK, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
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[86] 2021-09-10 (PCT/CA2021/051257)
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[51] **Int.Cl. G06Q 10/00 (2023.01)**
[25] EN
[54] **ASSET VISUALIZATION FOR MULTI-PARTY COMMERCIAL REAL ESTATE MANAGEMENT**
[54] **VISUALISATION D'ACTIFS PERMETTANT UNE GESTION DE BIENS IMMOBILIERS COMMERCIAUX MULTI-PARTIES**
[72] WALDREP, KYLE ANDREW, US
[72] HIBBARD, ALEX, US
[72] MILLER, SENECCA, US
[71] NVZ TECHNOLOGIES, INC., US
[85] 2023-03-10
[86] 2021-09-14 (PCT/US2021/050257)
[87] (WO2022/056460)
[30] US (63/078,154) 2020-09-14

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[51] **Int.Cl. H04W 28/06 (2009.01) H04W 28/20 (2009.01)**
[25] EN
[54] **PROTOCOL DATA UNIT PPDU TRANSMISSION METHOD AND APPARATUS**
[54] **PROCEDE ET DISPOSITIF DE TRANSMISSION D'UNITE DE DONNEES DE PROTOCOLE (PPDU)**
[72] LI, YUNBO, CN
[72] GAN, MING, CN
[72] YU, JIAN, CN
[72] GUO, YUCHEN, CN
[72] LI, YIQING, CN
[72] HUANG, GUOGANG, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-03-10
[86] 2021-11-18 (PCT/CN2021/131521)
[87] (WO2022/127505)
[30] CN (202011511846.3) 2020-12-18

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[51] **Int.Cl. F16L 59/00 (2006.01) F16L 59/02 (2006.01)**
[25] EN
[54] **THERMAL INSULATION BLANKET FOR UNDERSEA LINES**
[54] **ENVELOPPE POUR L'ISOLATION THERMIQUE DE CONDUITES SOUS-MARINES**
[72] GERALDO PAPPEN, GUSTAVO, BR
[72] FIORENZA DE LIMA, HENRI, BR
[71] PETROLEO BRASILEIRO S. A. - PETROBRAS, BR
[85] 2023-03-10
[86] 2021-09-09 (PCT/BR2021/050388)
[87] (WO2022/051829)
[30] BR (102020018635-3) 2020-09-11

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[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 25/28 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **.BETA.-AMYLOID VACCINE FOR THE TREATMENT OF ALZHEIMER'S DISEASE**
[54] **VACCIN A BASE DE ?-AMYLOIDE POUR LE TRAITEMENT DE LA MALADIE D'ALZHEIMER**
[72] BARBOUR, ROBIN, US
[72] KINNEY, GENE, US
[72] ZAGO, WAGNER, US
[71] OTHAIR PROTHENA LIMITED, IE
[85] 2023-03-10
[86] 2021-05-19 (PCT/US2021/033180)
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[30] US (63/079,806) 2020-09-17

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[51] **Int.Cl. G06Q 10/10 (2023.01) G06F 3/048 (2013.01)**
[25] EN
[54] **ELECTRICAL STIMULATION-BASED WEIGHT MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE POIDS BASE SUR UNE STIMULATION ELECTRIQUE**
[72] HOGG, BEVIL, US
[72] PEREZ, RAUL E., US
[71] ELIRA, INC., US
[85] 2023-03-10
[86] 2021-09-10 (PCT/US2021/071415)
[87] (WO2022/056539)
[30] US (63/076,834) 2020-09-10
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[13] A1
[51] **Int.Cl. A61P 35/00 (2006.01) C07K 14/00 (2006.01) C07K 14/435 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **CLINICAL DOSING OF SIRP1A CHIMERIC PROTEIN**
[54] **DOSAGE CLINIQUE DE PROTEINE CHIMERIQUE SIRP1A**
[72] PANDITE, ARUNDATHY, US
[72] RANGWALA, FATIMA, US
[72] LAMPKIN, TOM, US
[72] SCHREIBER, TAYLOR, US
[72] FROMM, GEORGE, US
[72] DE SILVA, SURESH, US
[71] SHATTUCK LABS, INC., US
[85] 2023-03-10
[86] 2021-09-17 (PCT/US2021/050888)
[87] (WO2022/061124)
[30] US (63/079,982) 2020-09-17
[30] US (63/231,578) 2021-08-10
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[51] **Int.Cl. G16B 20/00 (2019.01)**
[25] EN
[54] **METASTASIS PREDICTOR**
[54] **PREDICTEUR DE METASTASES**
[72] ABRAHAM, JIM, US
[72] SPETZLER, DAVID, US
[71] CARIS MPI, INC., US
[85] 2023-03-10
[86] 2021-09-10 (PCT/US2021/049966)
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[30] US (63/076,832) 2020-09-10

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[51] **Int.Cl. A61P 25/00 (2006.01) A61P 25/28 (2006.01) C07K 14/01 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **MULTIEPITOPE VACCINE FOR THE TREATMENT OF ALZHEIMER'S DISEASE**
[54] **VACCIN MULTI-EPITOPIQUE POUR LE TRAITEMENT DE LA MALADIE D'ALZHEIMER**
[72] BARBOUR, ROBIN, US
[72] KINNEY, GENE, US
[72] ZAGO, WAGNER, US
[71] OTHAIR PROTHENA LIMITED, IE
[85] 2023-03-10
[86] 2021-08-06 (PCT/US2021/045058)
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[30] US (63/080,619) 2020-09-18

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[51] **Int.Cl. C07K 16/30 (2006.01) C12N 5/09 (2010.01) G01N 33/533 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **DETECTION OF CIRCULATING TUMOR CELLS USING TUMOR-TARGETED NIR AGENTS**
[54] **DETECTION DE CELLULES TUMORALES CIRCULANTES A L'AIDE D'AGENTS NIR DE CIBLAGE DE TUMEURS**
[72] KULARATNE, SUMITH A., US
[72] MAYERS, CARRY, US
[71] ON TARGET LABORATORIES, LLC, US
[85] 2023-03-10
[86] 2021-09-16 (PCT/US2021/050596)
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[30] US (63/079,178) 2020-09-16

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[13] A1
[51] **Int.Cl. B01D 15/08 (2006.01) B01D 15/42 (2006.01) C22B 3/24 (2006.01) C22B 59/00 (2006.01)**
[25] EN
[54] **METHOD FOR SEPARATING LUTETIUM AND YTTERBIUM USING CHROMATOGRAPHY**
[54] **PROCEDE DE SEPARATION DE LUTECIUM ET D'YTTERBIUM SELON UN PROCEDE DE CHROMATOGRAPHIE**
[72] KOZLITIN, EVGEIY ANATOLEVICH, RU
[72] MILYUTIN, VITALIY VITALEVICH, RU
[72] FIRSOVA, LYUBOV ALEKSANDROVNA, RU
[72] HARITONOV, OLEG VIKTOROVICH, RU
[72] LOGUNOV, MIHAIL VASILEVICH, RU
[71] GLOBAL MORPHO PHARMA, FR
[85] 2023-03-10
[86] 2020-12-15 (PCT/RU2020/000691)
[87] (WO2022/055386)
[30] RU (2020130005) 2020-09-11

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[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **DOSING REGIMENS OF ANTI-ILT4 ANTIBODY OR ITS COMBINATION WITH ANTI-PD-1 ANTIBODY FOR TREATING CANCER**
[54] **SCHEMAS POSOLOGIQUES D'UN ANTICORPS ANTI-ILT4 OU SA COMBINAISON AVEC UN ANTICORPS ANTI-PD-1 POUR TRAITER LE CANCER**
[72] ABRAHAM, ANSON A., US
[72] ALTURA, RACHEL A., US
[72] WILSON, DOUGLAS C., US
[71] MERCK SHARP & DOHME LLC, US
[85] 2023-03-10
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[87] (WO2022/060767)
[30] US (63/079,976) 2020-09-17

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[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **TROPHOBLAST GLYCOPROTEIN RADIOIMMUNOTHERAPY FOR THE TREATMENT OF SOLID CANCERS**
[54] **RADIOIMMUNOTHERAPIE DE LA GLYCOPROTEINE TROPHOBLASTIQUE POUR LE TRAITEMENT DE CANCERS SOLIDES**
[72] LUDWIG, DALE L., US
[72] GEOGHEGAN, EILEEN, US
[71] ACTINIUM PHARMACEUTICALS, INC., US
[85] 2023-03-10
[86] 2021-09-13 (PCT/US2021/050009)
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[30] US (63/077,297) 2020-09-11

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[51] **Int.Cl. A61K 31/00 (2006.01) A61K 31/437 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING PULMONARY HYPERTENSION**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT OU DE PREVENTION DE L'HYPERTENSION PULMONAIRE**
[72] GUPTA, VIVEK, US
[71] PULMOSIM THERAPEUTICS LLC, US
[85] 2023-03-10
[86] 2021-09-10 (PCT/US2021/049766)
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[30] US (63/077,102) 2020-09-11

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[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4035 (2006.01) A61K 31/4545 (2006.01) A61K 31/4709 (2006.01) A61K 31/4985 (2006.01) A61K 31/502 (2006.01) A61K 31/517 (2006.01) A61K 31/536 (2006.01) A61K 31/538 (2006.01) A61K 31/55 (2006.01) A61K 31/553 (2006.01) A61P 35/00 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 513/04 (2006.01)**
[25] EN
[54] **PIPERIDINYL SMALL MOLECULE DEGRADERS OF HELIOS AND METHODS OF USE**
[54] **AGENTS DE DEGRADATION DE PROTEINE HELIOS A BASE DE PETITES MOLECULES DE PIPERIDINYL ET PROCEDES D'UTILISATION**
[72] LIU, HU, US
[72] ZHANG, TINGHU, US
[72] JONES, LYN, US
[72] CHE, JIANWEI, US
[72] BEAR, BRIAN, US
[72] PETRILLI, WHITNEY, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[71] NEOMORPH, INC., US
[85] 2023-03-10
[86] 2021-10-15 (PCT/US2021/055186)
[87] (WO2022/081976)
[30] US (63/092,610) 2020-10-16
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[51] **Int.Cl. B60C 1/00 (2006.01) C08C 1/14 (2006.01) C08K 3/04 (2006.01) C08K 5/00 (2006.01)**
[25] EN
[54] **PROCESS FOR OBTAINING NATURAL RUBBER, RUBBER COMPOSITION CONTAINING NATURAL RUBBER AND USE THEREOF**
[54] **PROCEDE POUR OBTENIR DU CAOUTCHOUC NATUREL, COMPOSITION DE CAOUTCHOUC COMPRENANT DU CAOUTCHOUC NATUREL, ET SON UTILISATION**
[72] RECKER, CARLA, DE
[72] HERZOG, KATHARINA, DE
[72] BEHM, FRANK, DE
[72] JANCZAK, NORBERT, DE
[72] VENZ, CARSTEN, DE
[72] MULLER, LOWIS-GERRIT-BOJE, DE
[72] PRUFER, DIRK, DE
[72] SCHULZE GRONOVER, CHRISTIAN, DE
[71] CONTINENTAL REIFEN DEUTSCHLAND GMBH, DE
[71] FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2023-03-10
[86] 2021-09-14 (PCT/EP2021/075151)
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[30] DE (10 2020 211 872.8) 2020-09-23

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[51] **Int.Cl. A61F 9/00 (2006.01) A61B 17/12 (2006.01) A61F 9/007 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR OCCLUDING THE PUNCTAL OPENING**
[54] **DISPOSITIFS ET PROCEDES POUR OCCLURE UNE OUVERTURE MEATIQUE**
[72] LATKANY, ROBERT, US
[72] CHRISTENSEN, JAMES MARLOW, US
[71] OASIS MEDICAL, INC., US
[85] 2023-03-10
[86] 2021-09-03 (PCT/US2021/049136)
[87] (WO2022/055825)
[30] US (17/017,529) 2020-09-10

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[51] **Int.Cl. A61M 5/14 (2006.01) A61M 5/168 (2006.01) A61M 39/22 (2006.01) A61M 39/24 (2006.01)**
[25] EN
[54] **PRESSURE ACTUATED FLOW CONTROL DEVICE FOR GRAVITY IV SETS**
[54] **DISPOSITIF DE REGULATION D'ECOULEMENT ACTIONNE PAR PRESSION POUR ENSEMBLES IV A GRAVITE**
[72] NANDAKUMAR, SRIDHAAR, IN
[72] PUTHUKKAD, RAHUL, IN
[71] CAREFUSION 303, INC., US
[85] 2023-03-10
[86] 2021-09-15 (PCT/US2021/050539)
[87] (WO2022/060895)
[30] US (17/025,948) 2020-09-18

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[51] **Int.Cl. C12P 19/34 (2006.01) C12Q 1/6806 (2018.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR NUCLEIC ACID ASSEMBLY**
[54] **PROCEDES ET COMPOSITIONS POUR L'ASSEMBLAGE D'ACIDES NUCLEIQUES**
[72] CHEE, MARK S., US
[71] CHEE, MARK S., US
[85] 2023-03-10
[86] 2021-09-13 (PCT/US2021/050126)
[87] (WO2022/056418)
[30] US (63/078,178) 2020-09-14

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[51] **Int.Cl. A61M 5/14 (2006.01) A61M 39/22 (2006.01)**
[25] EN
[54] **PRESSURE ACTUATED UNI-DIRECTIONAL FLOW CONTROL DEVICE FOR GRAVITY IV SETS**
[54] **DISPOSITIF DE REGULATION DE DEBIT UNIDIRECTIONNEL ACTIONNE PAR PRESSION POUR ENSEMBLES PERFUSION A GRAVITE**
[72] JADHAV, AMARSINH, IN
[72] THULASIRAM, RAKESH, IN
[72] HANUMANTHARAO, SUHAS, IN
[72] RAJU, ROY, IN
[72] RAJARAMAN, SRIRAM, IN
[72] RAJENDRAN, SABARINATHAN, IN
[71] CAREFUSION 303, INC., US
[85] 2023-03-10
[86] 2021-09-16 (PCT/US2021/050739)
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[30] US (63/080,567) 2020-09-18

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[51] **Int.Cl. A01K 29/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING MOTION OF AN ANIMAL**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DU MOUVEMENT D'UN ANIMAL**
[72] WERNIMONT, SUSAN, US
[72] THOMPSON, ROBIN, GB
[71] HILL'S PET NUTRITION, INC., US
[85] 2023-03-10
[86] 2021-07-30 (PCT/US2021/043833)
[87] (WO2022/066282)
[30] US (63/082,241) 2020-09-23

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[13] A1
[51] **Int.Cl. G16H 20/40 (2018.01) G16H 40/67 (2018.01)**
[25] EN
[54] **COMBINATION RESPIRATORY THERAPY DEVICE, SYSTEM AND METHOD**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE THERAPIES RESPIRATOIRES COMBINEES**
[72] BIRNKRANT, DAVID J., US
[72] BOERST, CHAD M., US
[72] CHANGGUO, MICHAEL YANG, US
[71] MHS CARE-INNOVATION LLC, US
[85] 2023-03-10
[86] 2020-09-25 (PCT/US2020/052637)
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[25] EN
[54] **TOY SYSTEM**
[54] **SYSTEME DE JOUET**
[72] DEL GIUDICE, DEAN, AU
[72] BUDD, CARL, AU
[72] SALVAGGIO, TORI, AU
[72] AUSTIN-SMITH, JAMES, AU
[72] MONKS, ROSS, AU
[72] EMBLIN, DAVID, AU
[71] MOOSE CREATIVE MANAGEMENT PTY LIMITED, AU
[85] 2023-03-10
[86] 2021-10-15 (PCT/US2021/055251)
[87] (WO2022/086820)
[30] US (63/094,190) 2020-10-20

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[13] A1
[51] **Int.Cl. A61M 35/00 (2006.01) A61J 1/06 (2006.01) B67B 7/92 (2006.01)**
[25] EN
[54] **AMPULE CRUSH TOOL**
[54] **OUTIL DE BROYAGE D'AMPOULE**
[72] SCAVOLA, EUGENE R., US
[72] DALY, PAUL, US
[72] ALCORN, GREGORY, US
[72] FLUCK, VICKI, US
[71] VERRICA PHARMACEUTICALS INC., US
[85] 2023-03-10
[86] 2021-10-13 (PCT/US2021/054752)
[87] (WO2022/086773)
[30] US (63/094,231) 2020-10-20

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[13] A1
[51] **Int.Cl. A61K 31/05 (2006.01) A61K 36/60 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **CANNABINOID COMPOSITION AND APPLICATION THEREOF IN PREPARATION OF DRUG FOR TREATING NEURODEGENERATIVE DISEASES SUCH AS PARKINSON'S DISEASE AND ALZHEIMER'S DISEASE**
[54] **COMPOSITION DE CANNABINOIDES ET SON APPLICATION DANS LA PREPARATION D'UN MEDICAMENT POUR LE TRAITEMENT DE MALADIES NEURODEGENERATIVES TELLES QUE LA MALADIE DE PARKINSON ET LA MALADIE D'ALZHEIME**
[72] ZOU, CHENDONG, CN
[72] TAI, HEI, CN
[72] WANG, GUIJIANG, CN
[72] XIAO, WAN, CN
[72] HUANG, SUI, CN
[71] HEMPIRE (SHANGHAI) PHARMACEUTICAL R&D LIMITED, CN
[85] 2023-03-10
[86] 2021-11-26 (PCT/CN2021/133379)
[87] (WO2023/015772)
[30] CN (202110916566.9) 2021-08-11

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[51] **Int.Cl. A23F 5/24 (2006.01) A23L 2/42 (2006.01) A23L 3/36 (2006.01)**
[25] EN
[54] **SYSTEMS FOR RETAINING POTENCY IN AN INFUSED BEVERAGE**
[54] **SYSTEMES DE CONSERVATION DE PUISSANCE DANS UNE BOISSON INFUSEE**
[72] HAN, CHUNXIAO, US
[71] VERTOSA INC., US
[85] 2023-03-10
[86] 2021-09-23 (PCT/US2021/051787)
[87] (WO2022/066936)
[30] US (63/082,148) 2020-09-23

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[51] **Int.Cl. B23K 26/362 (2014.01) B23K 26/046 (2014.01) B23K 26/0622 (2014.01) B02C 19/18 (2006.01) B23K 26/03 (2006.01) B23K 26/06 (2014.01)**
[25] EN
[54] **APPARATUS FOR AND METHOD OF FACILITATING AN ESTIMATION OF COMMINUTION ENERGY CONSUMPTION FOR ROCK COMMINUTION**
[54] **APPAREIL ET PROCEDE POUR FACILITER UNE ESTIMATION DE CONSOMMATION D'ENERGIE DE COMMINUTION DE COMMINUTION DE ROCHE**
[72] KANGAS, LASSE, FI
[72] LEVEINEN, JUSSI, FI
[71] AALTO UNIVERSITY FOUNDATION SR, FI
[85] 2023-03-10
[86] 2021-09-15 (PCT/FI2021/050610)
[87] (WO2022/058653)
[30] FI (20205892) 2020-09-16

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[51] **Int.Cl. A61K 31/166 (2006.01) A61K 31/4184 (2006.01) A61K 31/454 (2006.01) A61K 31/496 (2006.01) A61K 31/501 (2006.01) A61K 31/502 (2006.01) A61K 31/5025 (2006.01) A61K 31/551 (2006.01) A61K 31/5517 (2006.01) A61K 33/24 (2019.01) A61K 51/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PREPARATIONS OF RADIUM-224 AND PROGENIES FOR USE IN RADIONUCLIDE THERAPY IN COMBINATION WITH DNA REPAIR INHIBITORS**
[54] **PREPARATIONS DE RADIUM-224 ET DE DESCENDANCES RADIOACTIVES DESTINEES A ETRE UTILISEES DANS UNE THERAPIE PAR RADIONUCLEIDES EN ASSOCIATION AVEC DES INHIBITEURS DE REPARATION DE L'AD**
[72] ALFHEIM, JAN A., NO
[72] WESTROM, SARA, NO
[71] ONCOINVENT AS, NO
[85] 2023-03-10
[86] 2021-09-15 (PCT/EP2021/075301)
[87] (WO2022/058338)
[30] EP (20196215.6) 2020-09-15

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[51] **Int.Cl. A61K 33/26 (2006.01) A61K 33/243 (2019.01) A61K 31/555 (2006.01) A61K 51/00 (2006.01) A61P 13/12 (2006.01) A61P 35/00 (2006.01) A61P 39/00 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING CANCER WITH KIDNEY PROTECTION**
[54] **METHODE DE TRAITEMENT DU CANCER AVEC PROTECTION DES REINS**
[72] KEYSER, DONALD, US
[72] GUILLEM, ALVARO, US
[72] ZAGER, RICHARD, US
[71] RENIBUS THERAPEUTICS, INC., US
[85] 2023-03-10
[86] 2021-09-13 (PCT/US2021/050064)
[87] (WO2022/056378)
[30] US (62/706,829) 2020-09-11
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[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTOR COMPRISING NOVEL CO-STIMULATORY DOMAIN AND USE THEREOF**
[54] **RECEPTEUR ANTIGENIQUE CHIMERIQUE COMPRENANT UN NOUVEAU DOMAINE DE CO-STIMULATION ET UTILISATION ASSOCIEE**
[72] ZHOU, YALI, CN
[72] CHEN, GONG, CN
[72] JIANG, XIAOYAN, CN
[72] REN, JIANGTAO, CN
[72] HE, XIAOHONG, CN
[72] WANG, YANBIN, CN
[72] HAN, LU, CN
[71] BIOHENG THERAPEUTICS LIMITED, KY
[85] 2023-03-10
[86] 2021-09-09 (PCT/CN2021/117402)
[87] (WO2022/052981)
[30] CN (202010947407.0) 2020-09-10

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[51] **Int.Cl. C09K 5/10 (2006.01) H01M 10/625 (2014.01) H01M 10/6568 (2014.01) H01M 10/6569 (2014.01) C09K 5/04 (2006.01) H01L 23/473 (2006.01)**
[25] EN
[54] **COMPOSITION**
[54] **COMPOSITION**
[72] SHARRATT, ANDREW, GB
[72] LLOYD, GARY, GB
[72] LOW, ROBERT, GB
[71] MEXICHEM FLUOR S.A. DE C.V., MX
[85] 2023-03-10
[86] 2021-09-09 (PCT/GB2021/052333)
[87] (WO2022/058713)
[30] GB (2014635.3) 2020-09-17

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[13] A1
[51] **Int.Cl. G01R 27/26 (2006.01)**
[25] EN
[54] **IN-SITU TESTING OF ELECTRIC DOUBLE LAYER CAPACITORS IN ELECTRIC METERS**
[54] **ESSAI IN SITU DE CONDENSATEURS ELECTRIQUES A DOUBLE COUCHE DANS DES COMPTEURS ELECTRIQUES**
[72] KRAUS, MATTHEW E., US
[72] BOUDREAU, FRANK J. JR., US
[71] LANDIS+GYR INNOVATIONS, INC., US
[85] 2023-03-10
[86] 2021-09-15 (PCT/US2021/050391)
[87] (WO2022/060786)
[30] US (17/022,684) 2020-09-16

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[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/12 (2006.01) A61K 39/215 (2006.01) A61K 39/39 (2006.01) A61K 47/00 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **ENHANCING IMMUNITY USING CHIMERIC CD40 LIGAND AND CORONAVIRUS VACCINE**
[54] **AMELIORATION DE L'IMMUNITE AU MOYEN D'UN LIGAND CD40 CHIMERIQUE ET D'UN VACCIN CONTRE LE CORONAVIRUS**
[72] CANTWELL, MARK J., US
[71] MEMGEN, INC., US
[71] CANTWELL, MARK J., US
[85] 2023-03-10
[86] 2021-09-10 (PCT/US2021/049932)
[87] (WO2022/056302)
[30] US (63/077,204) 2020-09-11

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[51] **Int.Cl. A61K 31/194 (2006.01) A61K 35/15 (2015.01) A61P 1/16 (2006.01) A61P 13/12 (2006.01) A61P 17/02 (2006.01) A61P 17/06 (2006.01)**
[25] EN
[54] **TREATMENT OF IDIOPATHIC PULMONARY FIBROSIS**
[54] **TRAITEMENT DE LA FIBROSE PULMONAIRE IDIOPATHIQUE**
[72] BYRNE, ADAM, GB
[72] MAHER, TOBY, GB
[72] LLOYD, CLARE, GB
[72] OGGER, PIA PATRICIA, GB
[71] IMPERIAL COLLEGE INNOVATIONS LIMITED, GB
[85] 2023-03-10
[86] 2020-09-15 (PCT/GB2020/052218)
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[13] A1
[51] **Int.Cl. B60R 21/00 (2006.01) C08G 18/12 (2006.01) C08G 18/24 (2006.01) C08G 18/32 (2006.01) C08G 18/40 (2006.01) C08G 18/48 (2006.01) C08G 18/61 (2006.01) C08G 18/66 (2006.01) C08G 18/76 (2006.01) C08K 3/36 (2006.01)**
[25] EN
[54] **ISOCYANATE-FUNCTIONAL PREPOLYMER, COMPOSITION COMPRISING SAME, AND COATING FORMED THEREWITH**
[54] **PREPOLYMERE A FONCTION ISOCYANATE, COMPOSITION LE COMPRENANT, ET REVETEMENT FORME AVEC CELLE-CI**
[72] GRZESIAK, ADAM L., US
[72] ALLEN, MARK P., US
[72] REDER, AMY L., US
[72] SHAWL, DAVID A., US
[72] STARKE, TODD M., US
[71] DOW SILICONES CORPORATION, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2023-03-10
[86] 2021-09-10 (PCT/US2021/049848)
[87] (WO2022/056250)
[30] US (63/077,185) 2020-09-11

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[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **ORAL DRUG DELIVERY DEVICE WITH EXPANDING ARMS**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT PAR VOIE ORALE A BRAS EXTENSIBLES**
[72] BALSON, MARIA FERNANDEZ-MARTOS, US
[72] FORDHAM, MATTHEW KEITH, US
[72] HORNSBY, JACK ALEXANDER, US
[72] VASILAKIS, NIKOLAOS SOTIRIOS, US
[72] CLARK, SARAH LOUISE, US
[71] ELI LILLY AND COMPANY, US
[85] 2023-03-10
[86] 2021-09-15 (PCT/US2021/050431)
[87] (WO2022/060817)
[30] US (63/078,996) 2020-09-16

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[13] A1
[51] **Int.Cl. A61K 51/02 (2006.01) A61K 51/12 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **SIZE CONTROLLED RADIOLABELLED PARTICLES**
[54] **PARTICULES RADIOMARQUEES A TAILLE CONTROLEE**
[72] LARSEN, ROY H., NO
[72] BONSDORFF, TINA B., NO
[71] ONCOINVENT AS, NO
[85] 2023-03-10
[86] 2021-09-15 (PCT/EP2021/075300)
[87] (WO2022/058337)
[30] EP (20196202.4) 2020-09-15
[30] EP (21165246.6) 2021-03-26

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[13] A1
[51] **Int.Cl. C08F 290/04 (2006.01) C08K 3/013 (2018.01) C08K 3/04 (2006.01) C08K 3/14 (2006.01) C08K 3/22 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING A GRAPHENE-BASED MATERIAL AS LUBRICANT ADDITIVES**
[54] **COMPOSITIONS COMPRENANT UN MATERIAU A BASE DE GRAPHENE EN TANT QU'ADDITIFS DE LUBRIFIANT**
[72] BREUERS, VERENA, DE
[72] NESS, DANIEL, DE
[72] WIEBER, STEPHAN, DE
[72] LEICH, VALERI, DE
[72] HONIG, JONAS, DE
[72] HAGEMANN, MICHAEL GERHARD, CN
[72] WOMBACHER, WILLIBALD, DE
[72] DASCHLEIN, CHRISTIAN, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2023-03-10
[86] 2021-08-11 (PCT/EP2021/072411)
[87] (WO2022/058095)
[30] EP (20196912.8) 2020-09-18

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[13] A1
[51] **Int.Cl. B29C 64/118 (2017.01) B33Y 50/02 (2015.01) B29C 64/209 (2017.01) B29C 64/393 (2017.01) B29C 70/38 (2006.01)**
[25] EN
[54] **PRINT HEAD FOR ADDITIVE MANUFACTURING SYSTEM**
[54] **TETE D'IMPRESSION POUR SYSTEME DE FABRICATION ADDITIVE**
[72] BUDGE, TREVOR, US
[72] JAHNER, BROCK, US
[72] SMITH, JEREMIAH, US
[72] STRANBERG, NATHAN, US
[72] STULC, ANDREW, US
[72] VANDENBERG, SAMUEL, US
[72] WILSON, STEPHEN, US
[72] OVERBY, ANDREW, US
[71] CONTINUOUS COMPOSITES INC., US
[85] 2023-03-10
[86] 2021-07-27 (PCT/US2021/070977)
[87] (WO2022/056504)
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[30] US (17/443,421) 2021-07-26
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[30] US (17/443,428) 2021-07-26

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[51] **Int.Cl. B65D 1/26 (2006.01)**
[25] EN
[54] **CUP AND METHOD OF MANUFACTURING THE SAME**
[54] **COUPELLE ET SON PROCEDE DE PRODUCTION**
[72] SATO, ERIKA, JP
[72] MURASE, TAKESHI, JP
[72] TANAKA, SHOUTA, JP
[72] SASAJIMA, NOBUHIRO, JP
[71] TOYO SEIKAN CO., LTD., JP
[85] 2023-03-10
[86] 2021-08-25 (PCT/JP2021/031080)
[87] (WO2022/059441)
[30] JP (2020-155298) 2020-09-16

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[51] **Int.Cl. B29C 33/60 (2006.01) B21D 37/18 (2006.01) C21D 1/673 (2006.01)**
[25] EN
[54] **HOT FORGING PROCESS AND MOULD FOR CARRYING OUT SAID PROCESS**
[54] **PROCEDE DE FORGEAGE A CHAUD ET MOULE POUR LA MISE EN ?UVRE DUDIT PROCEDE**
[72] ANGELONI, GIOVANNI BATTISTA, IT
[71] ANGELONI, GIOVANNI BATTISTA, IT
[85] 2023-03-10
[86] 2021-10-22 (PCT/IB2021/059748)
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[30] IT (102020000025600) 2020-10-28

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[51] **Int.Cl. A61K 38/08 (2019.01) A61P 25/28 (2006.01) C07K 7/06 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **ALPHA-SYNUCLEIN VACCINE FOR THE TREATMENT OF SYNUCLEINOPATHIES**
[54] **VACCIN ALPHA-SYNUCLEINE POUR LE TRAITEMENT DE SYNUCLEINOPATHIES**
[72] BARBOUR, ROBIN, US
[72] KINNEY, GENE, US
[72] ZAGO, WAGNER, US
[71] PROTHEIMA BIOSCIENCES LIMITED, IE
[85] 2023-03-10
[86] 2021-08-06 (PCT/US2021/045055)
[87] (WO2022/060487)
[30] US (63/079,819) 2020-09-17

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[51] **Int.Cl. H02M 7/217 (2006.01) H02J 50/00 (2016.01) H02J 50/05 (2016.01) H02J 50/10 (2016.01)**
[25] EN
[54] **SYNCHRONOUS RECTIFIER FOR USE IN A WIRELESS POWER TRANSFER SYSTEM AND METHOD FOR SYNCHRONOUS RECTIFICATION IN WIRELESS POWER TRANSFER**
[54] **REDRESSEUR SYNCHRONE DESTINE A ETRE UTILISE DANS UN SYSTEME DE TRANSFERT D'ENERGIE SANS FIL ET PROCEDE DE REDRESSEMENT SYNCHRONE DE TRANSFERT D'ENERGIE SANS FIL**
[72] ROUSE, CHRIS, CA
[72] TAHAVORGAR, AMIR, CA
[71] SOLACE POWER INC., CA
[85] 2023-03-10
[86] 2021-09-10 (PCT/CA2021/051255)
[87] (WO2022/051860)
[30] US (63/076,982) 2020-09-11

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[51] **Int.Cl. B01L 3/00 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **INTERROGATION DEVICE AND/OR SYSTEM HAVING ALIGNMENT FEATURE(S) FOR WIRELESS TRANSPONDER TAGGED SPECIMEN CONTAINERS AND/OR CARRIERS**
[54] **DISPOSITIF ET/OU SYSTEME D'INTERROGATION DOTE D'UN OU PLUSIEURS ELEMENTS D'ALIGNEMENT DESTINES A DES RECIPIENTS ET/OU SUPPORTS D'ECHANTILLONS ETIQUETES PAR DES RADIO-ETIQUETTES SANS FI**
[72] BIXON, BRIAN JOSEPH, US
[72] MURRAY, ALAN, US
[72] LI, CHENGXI, US
[71] TMRW LIFE SCIENCES, INC., US
[85] 2023-03-10
[86] 2021-09-30 (PCT/US2021/052896)
[87] (WO2022/072646)
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[51] **Int.Cl. A61J 1/16 (2006.01) B25J 15/02 (2006.01) B65B 3/00 (2006.01) B65B 35/46 (2006.01) B65G 47/90 (2006.01)**
[25] EN
[54] **NEST REMOVER AND STERILE CHAMBER**
[54] **EXTRACTEUR DE LOGEMENT EMBOITABLE ET CHAMBRE STERILE**
[72] NAGLER, STEFAN, DE
[72] HOLL, PATRICK, DE
[72] ILGENFRITZ, MARKUS, DE
[72] KRAUSS, ULRICH, DE
[71] SYNTEGON TECHNOLOGY GMBH, DE
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[51] **Int.Cl. A61K 31/5383 (2006.01) A61P 9/14 (2006.01)**
[25] EN
[54] **ALLOSTERIC AKT INHIBITORS FOR USE IN THE TREATMENT OF HEREDITARY HEMORRHAGIC TELANGIECTASIA**
[54] **INHIBITEURS D'AKT ALLOSTERIQUES DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE LA TELANGIECTASIE HEMORRAGIQUE HEREDITAIRE**
[72] PICARD, DAMIEN, CH
[72] SAINT-MEZARD, PIERRE, CH
[71] VADERIS THERAPEUTICS AG, CH
[85] 2023-03-10
[86] 2021-09-29 (PCT/EP2021/076811)
[87] (WO2022/069552)
[30] GB (2015536.2) 2020-09-30

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[13] A1
[51] **Int.Cl. B01L 1/02 (2006.01)**
[25] EN
[54] **BETA COMPONENT OF A TRANSFER SYSTEM FOR A STERILE ISOLATION REGION, STERILE ISOLATION REGION, ASEPTIC FILLING SYSTEM, AND METHOD FOR OPERATING SUCH A FILLING SYSTEM**
[54] **COMPOSANT BETA D'UN SYSTEME DE TRANSFERT POUR UNE REGION D'ISOLATION STERILE, REGION D'ISOLATION STERILE, SYSTEME DE REMPLISSAGE ASEPTIQUE ET PROCEDE DE FONCTIONNEMENT D'UN TEL SYSTEME DE REMPLISSAG**
[72] KRAUSS, ULRICH, DE
[72] HOLL, PATRICK, DE
[72] ILGENFRITZ, MARKUS, DE
[72] BERNHARD, ANDREAS, DE
[71] SYNTEGON TECHNOLOGY GMBH, DE
[85] 2023-03-10
[86] 2021-09-16 (PCT/EP2021/075431)
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[13] A1
[51] **Int.Cl. A24D 3/04 (2006.01) A24D 3/06 (2006.01) A24D 3/16 (2006.01) A24D 3/02 (2006.01)**
[25] EN
[54] **DEVICE FOR FILTERING SMOKE**
[54] **DISPOSITIF DE FILTRATION DE FUMEE**
[72] SETZER, ANDREAS, AT
[71] SETZER, ANDREAS, AT
[85] 2023-03-10
[86] 2021-09-10 (PCT/EP2021/074904)
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[13] A1
[51] **Int.Cl. G05D 1/02 (2020.01)**
[25] EN
[54] **ROBOT NAVIGATION MANAGEMENT BETWEEN ZONES IN AN ENVIRONMENT**
[54] **GESTION DE NAVIGATION DE ROBOTS ENTRE ZONES D'UN ENVIRONNEMENT**
[72] JAQUEZ, LUIS, US
[72] JOHNSON, SEAN, US
[72] JOHNSON, MICHAEL CHARLES, US
[72] ALCUTT, ANDREW, US
[71] LOCUS ROBOTICS CORPORATION, US
[85] 2023-03-10
[86] 2021-09-09 (PCT/US2021/049553)
[87] (WO2022/056056)
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[51] **Int.Cl. A61K 31/439 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NEW PHARMACEUTICAL COMPOUNDS, METHODS AND USES THEREOF**
[54] **NOUVEAUX COMPOSES PHARMACEUTIQUES, LEURS METHODES ET UTILISATIONS**
[72] ATAIDE SARAIVA, LUCILIA HELENA, PT
[72] UMBELINO FERREIRA, MARIA JOSE, PT
[72] MULHOVO, SILVA FABIAO, MZ
[72] DA SILVA BORGES COSTA, JOSE LUIS, PT
[72] GOMES RAIMUNDO, LILIANA SOFIA, PT
[72] PATERNA, ANGELA, PT
[72] MEIXEDO CALHEIROS, JULIANA, PT
[71] UNIVERSIDADE DO PORTO, PT
[71] FACULDADE DE FARMACIA DA UNIVERSIDADE DE LISBOA, PT
[71] UNIVERSIDADE PEDAGOGICA, MZ
[71] INSTITUTO DE PATOLOGIA E IMUNOLOGIA MOLECULAR DA UNIVERSIDADE DO PORTO - IPATIMUP, PT
[85] 2023-03-10
[86] 2021-09-10 (PCT/IB2021/058241)
[87] (WO2022/053998)
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[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **DETERMINING LOCATIONS IN REPRODUCTIVE CELLULAR STRUCTURES**
[54] **DETERMINATION D'EMPLACEMENTS DANS DES STRUCTURES CELLULAIRES REPRODUCTRICES**
[72] SHAFIEE, HADI, US
[72] BORMANN, CHARLES, US
[72] KANAKASABAPATHY, MANOJ KUMAR, US
[72] THIRUMALARAJU, PRUDHVI, US
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US
[71] THE GENERAL HOSPITAL CORPOATION, US
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[86] 2021-09-13 (PCT/US2021/050050)
[87] (WO2022/056370)
[30] US (63/077,405) 2020-09-11
[30] US (63/077,398) 2020-09-11

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[13] A1
[25] EN
[54] **AUTOMATED ANEUPLOIDY SCREENING USING ARBITRATED ENSEMBLES**
[54] **CRIBLAGE AUTOMATISE D'ANEUPLOIDIE A L'AIDE D'ENSEMBLES ARBITRES**
[72] SHAFIEE, HADI, US
[72] BORMANN, CHARLES, US
[72] KANAKASABAPATHY, MANOJ KUMAR, US
[72] THIRUMALARAJU, PRUDHVI, US
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US
[71] THE GENERAL HOSPITAL CORPOATION, US
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[86] 2021-09-13 (PCT/US2021/050058)
[87] (WO2022/056374)
[30] US (63/077,405) 2020-09-11
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[51] **Int.Cl. G06Q 10/00 (2023.01) G06Q 10/06 (2023.01) G06Q 10/08 (2023.01)**
[25] EN
[54] **SEQUENCE ADJUSTMENT FOR EXECUTING FUNCTIONS ON ITEMS IN AN ORDER**
[54] **REGLAGE DE SEQUENCE POUR EXECUTER DES FONCTIONS SUR DES ARTICLES DANS UNE COMMANDE**
[72] JOHNSON, MICHAEL CHARLES, US
[72] JOHNSON, SEAN, US
[72] FAULK, RICK, US
[71] LOCUS ROBOTICS CORPORATION, US
[85] 2023-03-10
[86] 2021-09-07 (PCT/US2021/049239)
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[30] US (17/017,758) 2020-09-11

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[51] **Int.Cl. B23B 29/08 (2006.01) D21H 11/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR FORMING DUAL FLUTED CORRUGATED BOARD**
[54] **SYSTEMES ET PROCEDES POUR FORMER UN PANNEAU ONDULE CANNELE DOUBLE**
[72] KIESSNER, HANKO, US
[72] ALPINE, JOHN PAUL, US
[71] PACKSIZE LLC, US
[85] 2023-03-10
[86] 2021-09-15 (PCT/US2021/050397)
[87] (WO2022/060789)
[30] US (63/079,350) 2020-09-16
[30] US (63/150,899) 2021-02-18
[30] US (17/474,869) 2021-09-14

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[51] **Int.Cl. G16B 40/30 (2019.01) G06Q 10/04 (2023.01) C12Q 1/6869 (2018.01) G16B 50/50 (2019.01) G06N 3/04 (2023.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SUBSAMPLING OF CELLS FROM SINGLE-CELL GENOMICS DATASET**
[54] **PROCEDE ET SYSTEME DE SOUS-ECHANTILLONNAGE DE CELLULES A PARTIR D'UN ENSEMBLE DE DONNEES GENOMIQUES UNICELLULAIRES**
[72] DHAPOLA, PARASHAR, SE
[72] KARLSSON, GORAN, SE
[71] NYGEN ANALYTICS AB, SE
[85] 2023-03-10
[86] 2021-09-15 (PCT/EP2021/075306)
[87] (WO2022/058339)
[30] SE (2051077-2) 2020-09-15

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[13] A1
[51] **Int.Cl. G06Q 10/00 (2023.01) G06Q 10/08 (2023.01) G06Q 50/28 (2012.01)**
[25] EN
[54] **PRESORT SYSTEM FOR EXECUTING ROBOT-ASSISTED PUTAWAY TASKS**
[54] **SYSTEME DE TRI PRELIMINAIRE POUR EXECUTER DES TACHES DE CLASSEMENT ASSISTEES PAR ROBOT**
[72] JOHNSON, SEAN, US
[72] JAQUEZ, LUIS, US
[72] JOHNSON, MICHAEL CHARLES, US
[71] LOCUS ROBOTICS CORPORATION, US
[85] 2023-03-10
[86] 2021-09-07 (PCT/US2021/049236)
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[30] US (17/017,833) 2020-09-11

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[13] A1
[51] **Int.Cl. F25B 30/02 (2006.01) F24F 3/14 (2006.01) F25B 30/06 (2006.01) F25B 40/04 (2006.01)**
[25] EN
[54] **VARIABLE CAPACITY HEAT PUMP SYSTEM**
[54] **SYSTEME DE POMPE A CHALEUR A CAPACITE VARIABLE**
[72] HAMMOND, TIMOTHY A., US
[72] HARRIS, DENNIS L., US
[72] BROWN, ROBERT R., US
[71] WATERFURNACE INTERNATIONAL, INC., US
[85] 2023-03-10
[86] 2021-09-10 (PCT/US2021/049926)
[87] (WO2022/056298)
[30] US (63/076,991) 2020-09-11

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[13] A1
[51] **Int.Cl. A61M 60/13 (2021.01) A61M 60/221 (2021.01) A61M 60/242 (2021.01) A61M 60/416 (2021.01) A61M 60/804 (2021.01) A61M 60/81 (2021.01) A61M 60/812 (2021.01) A61M 60/827 (2021.01) A61M 60/857 (2021.01)**
[25] EN
[54] **CARDIOVASCULAR SUPPORT PUMP HAVING AN IMPELLER WITH A VARIABLE FLOW AREA**
[54] **POMPE DE SUPPORT CARDIOVASCULAIRE DOTEE D'UN IMPULSEUR A ZONE D'ECOULEMENT VARIABLE**
[72] BETTE, JOHANNES, DE
[72] POPOV, VLADIMIR, DE
[72] MITZE, MARVIN, DE
[71] KARDION GMBH, DE
[85] 2023-03-10
[86] 2021-09-10 (PCT/US2021/071419)
[87] (WO2022/056542)
[30] US (63/078,207) 2020-09-14

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[51] **Int.Cl. C04B 24/18 (2006.01) C04B 24/06 (2006.01) C04B 24/26 (2006.01) C04B 28/02 (2006.01) C04B 28/08 (2006.01)**
[25] EN
[54] **ADMIXTURE FOR CONCRETE**
[54] **ADJUVANT DU BETON**
[72] KAMESHIMA, KENTA, JP
[72] SAKUE, JIRO, JP
[72] KOIZUMI, SHINICHI, JP
[71] CONSTRUCTION RESEARCH & TECHNOLOGY GMBH, DE
[85] 2023-03-10
[86] 2021-10-21 (PCT/JP2021/038902)
[87] (WO2022/085754)
[30] JP (2020-178200) 2020-10-23

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[51] **Int.Cl. A23K 10/14 (2016.01) A23K 20/189 (2016.01) A23K 50/75 (2016.01) A23L 5/20 (2016.01) A61K 38/46 (2006.01)**
[25] EN
[54] **TETRAMERIC ALPHA/BETA HYDROLASE VARIANTS WITH INCREASED TEMPERATURE STABILITY AND METHODS OF USING AND PRODUCING THEREOF**
[54] **VARIANTS TETRAMERES D'HYDROLASE ALPHA/BETA PRESENTANT UNE STABILITE ACCRUE A LA TEMPERATURE ET PROCEDES D'UTILISATION ET DE PRODUCTION DE CEUX-CI**
[72] HOEBARTNER-GUSSL, ANDREAS, AT
[72] KILLINGER, MANUELA, AT
[72] VOGTENTANZ, GUDRUN, AT
[72] FRUHAUF, SEBASTIAN, AT
[72] KRAINER, FLORIAN, AT
[71] DSM AUSTRIA GMBH, AT
[85] 2023-03-10
[86] 2021-03-10 (PCT/EP2021/056026)
[87] (WO2022/073649)
[30] EP (20200918.9) 2020-10-08

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[13] A1
[51] **Int.Cl. G06Q 10/08 (2023.01)**
[25] EN
[54] **DYNAMIC ITEM PUTAWAY MANAGEMENT USING MOBILE ROBOTS**
[54] **GESTION DYNAMIQUE DE RANGEMENT EN STOCK D'ARTICLES A L'AIDE DE ROBOTS MOBILES**
[72] JOHNSON, SEAN, US
[72] JAQUEZ, LUIS, US
[72] JOHNSON, MICHAEL CHARLES, US
[71] LOCUS ROBOTICS CORPORATION, US
[85] 2023-03-10
[86] 2021-09-09 (PCT/US2021/049563)
[87] (WO2022/056061)
[30] US (17/017,766) 2020-09-11

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[51] **Int.Cl. C07K 16/10 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **SINGLE DOMAIN ANTIBODIES**
[54] **ANTICORPS A DOMAINE UNIQUE QUI CIBLENT LE SARS-COV-2**
[72] HUO, JIANDONG, GB
[72] OWENS, RAYMOND, GB
[72] NAISMITH, JAMES, GB
[71] THE ROSALIND FRANKLIN INSTITUTE, GB
[85] 2023-03-10
[86] 2021-09-14 (PCT/GB2021/052383)
[87] (WO2022/053839)
[30] GB (2014451.5) 2020-09-14
[30] GB (2014453.1) 2020-09-14
[30] GB (2108319.1) 2021-06-10

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[51] **Int.Cl. G06F 21/62 (2013.01) G06Q 10/10 (2023.01) G06F 21/16 (2013.01) G06F 16/21 (2019.01) G06F 16/93 (2019.01)**
[25] FR
[54] **METHOD AND PLATFORM FOR TRACING AN ATTACHED DOCUMENT GENERATED BY A THIRD PARTY FROM AN ORIGINAL DOCUMENT USING A BLOCK CHAIN SYSTEM**
[54] **PROCEDE ET PLATEFORME DE TRACABILITE D'UN DOCUMENT ANNEXE GENERE PAR UN TIERS A PARTIR D'UN DOCUMENT D'ORIGINE VIA UN SYSTEME A CHAINE DE BLOCS**
[72] DAVRON, ANNE-CECILE, FR
[72] DAVRON, DAVID, FR
[71] DAVRON DIGITAL, FR
[85] 2023-03-10
[86] 2021-09-22 (PCT/EP2021/076095)
[87] (WO2022/063844)
[30] FR (2009747) 2020-09-24

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[13] A1
[51] **Int.Cl. A63C 17/10 (2006.01) A63C 17/12 (2006.01)**
[25] EN
[54] **PERSONAL TRANSPORTATION APPARATUS**
[54] **APPAREIL DE TRANSPORT PERSONNEL**
[72] BALDWIN, DANIEL, AU
[71] BALDWIN, DANIEL, AU
[85] 2023-03-10
[86] 2021-09-10 (PCT/AU2021/051050)
[87] (WO2022/051815)
[30] AU (2020903260) 2020-09-11

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[13] A1
[51] **Int.Cl. G01S 1/14 (2006.01)**
[25] EN
[54] **ESTIMATING GEOLOCATION OF A USER TERMINAL**
[54] **ESTIMATION DE GEOLOCALISATION D'UN TERMINAL D'UTILISATEUR**
[72] CHEN, LIPING, US
[72] LEE, LIN-NAN, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2023-03-10
[86] 2021-10-04 (PCT/US2021/071704)
[87] (WO2022/082143)
[30] US (17/072,938) 2020-10-16

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[13] A1
[51] **Int.Cl. A47J 31/06 (2006.01)**
[25] EN
[54] **FILTER HOLDER AND COFFEE MACHINE**
[54] **PORTE-FILTRE ET MACHINE A CAFE**
[72] ROSLER, JAN, DE
[72] KORTE, RENE, DE
[71] 10 X INNOVATION GMBH & CO. KG, DE
[85] 2023-03-10
[86] 2021-09-02 (PCT/EP2021/074266)
[87] (WO2022/063544)
[30] DE (10 2020 124 966.7) 2020-09-24

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[13] A1
[51] **Int.Cl. A61K 49/10 (2006.01) C07F 5/00 (2006.01)**
[25] EN
[54] **NOVEL COMPOUND AND MRI CONTRAST AGENT CONTAINING SAME**
[54] **NOUVEAU COMPOSE ET AGENT DE CONTRASTE D'IRM LE CONTENANT**
[72] CHANG, YONG MIN, KR
[72] BAEK, AH RUM, KR
[71] KYUNGPOOK NATIONAL UNIVERSITY INDUSTRY-ACADEMIC COOPERATION FOUNDATION, KR
[85] 2023-03-10
[86] 2021-10-05 (PCT/KR2021/013576)
[87] (WO2022/092602)
[30] KR (10-2020-0143616) 2020-10-30

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[13] A1
[51] **Int.Cl. C07G 1/00 (2011.01) C08H 7/00 (2011.01) C08J 3/09 (2006.01) C08L 97/00 (2006.01)**
[25] EN
[54] **DEEP EUTECTIC SOLVENTS, USES THEREOF, AND METHOD FOR PREPARING A LIGNIN PREPOLYMER BASED ON THE DEEP EUTECTIC SOLVENTS**
[54] **SOLVANTS EUTECTIQUES PROFONDS, LEURS UTILISATIONS, ET PROCEDES DE PREPARATION D'UN PREPOLYMERE DE LIGNINE A BASE DE SOLVANTS EUTECTIQUES PROFONDS**
[72] SVENSSON, INGEMAR, ES
[72] BARRIO ULANGA, AITOR, ES
[71] FUNDACION TECNALIA RESEARCH & INNOVATION, ES
[85] 2023-03-10
[86] 2021-09-16 (PCT/EP2021/075506)
[87] (WO2022/058438)
[30] EP (20382818.1) 2020-09-16

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[13] A1
[51] **Int.Cl. H04W 84/04 (2009.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR LPWAN**
[54] **SYSTEME ET PROCEDE LPWAN**
[72] THIEME, WOLFGANG, DE
[71] BEHR TECHNOLOGIES INC., CA
[85] 2023-03-10
[86] 2021-09-09 (PCT/IB2021/058216)
[87] (WO2022/053979)
[30] US (63/076,532) 2020-09-10
[30] US (63/081,939) 2020-09-23

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[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **CD47-CD38 BISPECIFIC ANTIBODIES**
[54] **ANTICORPS BISPECIFIQUES CD47-CD38**
[72] BOUCHEZ, LAURE, CH
[72] POULEAU, BLANDINE, CH
[72] DOUCEY, MARIE-ANGES, CH
[72] DHEILLY, ELIE, CH
[72] BLEIN, STANISLAS, CH
[72] STUTZ, CIAN, CH
[72] ESTOPPEY, CAROLE, CH
[72] LOYAU, JEREMY, CH
[72] MONNEY, THIERRY, CH
[72] GRANDCELMENT, CAMILLE, CH
[72] SAMMICHELI, STEFANO, CH
[71] ICHNOS SCIENCES SA, CH
[85] 2023-03-10
[86] 2021-09-17 (PCT/EP2021/075687)
[87] (WO2022/058539)
[30] EP (20197033.2) 2020-09-18

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[13] A1
[51] **Int.Cl. G08G 9/02 (2006.01) B60T 17/22 (2006.01) G01S 13/931 (2020.01) G01S 11/02 (2010.01)**
[25] EN
[54] **PRE-OPERATIONAL INSPECTION FOR A MINING VEHICLE AND A MINING VEHICLE COLLISION AVOIDANCE SYSTEM**
[54] **INSPECTION PRE-OPERATIONNELLE POUR UN VEHICULE MINIER ET SYSTEME D'EVITEMENT DE COLLISION DE VEHICULE MINIER**
[72] BOUCHARD, JEAN-PHILLIP, CA
[71] NEWTRAX TECHNOLOGIES INC., CA
[85] 2023-03-10
[86] 2021-10-20 (PCT/CA2021/051473)
[87] (WO2022/099405)
[30] US (63/112,707) 2020-11-12

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[51] **Int.Cl. G06T 13/40 (2011.01) G06T 17/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BUILDING A MUSCLE-TO-SKIN TRANSFORMATION IN COMPUTER ANIMATION**
[54] **SYSTEMES ET PROCEDES POUR CONSTRUIRE UNE TRANSFORMATION MUSCLE-PEAU EN ANIMATION PAR ORDINATEUR**
[72] CHOI, BYUNG KUK, NZ
[71] UNITY TECHNOLOGIES SF, US
[85] 2023-03-10
[86] 2020-11-11 (PCT/NZ2020/050148)
[87] (WO2022/055365)
[30] US (63/076,856) 2020-09-10
[30] US (63/076,858) 2020-09-10
[30] US (17/082,859) 2020-10-28
[30] US (17/082,890) 2020-10-28
[30] US (17/082,895) 2020-10-28

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[13] A1
[51] **Int.Cl. F23K 5/08 (2006.01)**
[25] EN
[54] **ELECTRIC POWER PLANT AND METHOD FOR OPERATING ELECTRIC POWER PLANT**
[54] **CENTRALE ELECTRIQUE ET PROCEDE D'EXPLOITATION D'UNE CENTRALE ELECTRIQUE**
[72] AOYAMA, HISATO, JP
[71] JGC CORPORATION, JP
[85] 2023-03-10
[86] 2021-02-18 (PCT/JP2021/006200)
[87] (WO2022/176130)

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[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/215 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **METHODS OF PRODUCING EXTRACELLULAR VESICLES**
[54] **PROCEDES DE PRODUCTION DE VESICULES EXTRACELLULAIRES**
[72] SOOS, TIM, US
[72] NOYES, AARON, US
[72] DOOLEY, KEVIN P., US
[72] ZHANG, ERIC, US
[71] CODIAK BIOSCIENCES, INC., US
[85] 2023-03-10
[86] 2021-09-23 (PCT/US2021/051742)
[87] (WO2022/066898)
[30] US (63/082,453) 2020-09-23
[30] US (63/161,331) 2021-03-15

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[13] A1
[51] **Int.Cl. G01N 1/30 (2006.01) G01N 21/64 (2006.01)**
[25] EN
[54] **AUTOMATED TISSUE SECTION TRANSFER SYSTEM WITH HIGH THROUGHPUT**
[54] **SYSTEME DE TRANSFERT DE SECTION DE TISSU AUTOMATISE A HAUT DEBIT**
[72] YAGCI, BARIS, US
[72] FEINSTEIN, ERIC, US
[72] MITRA, PARTHA P., US
[72] PINTO, JERRY R., US
[72] ZHANG, CONG, US
[72] SHUSKO, ROBERT, US
[72] SEWKARRAN, JANAK, US
[72] CANTOR, CHARLES R., US
[71] CLARAPATH, INC., US
[85] 2023-03-08
[86] 2021-09-08 (PCT/US2021/049469)
[87] (WO2022/056001)
[30] US (63/075,441) 2020-09-08
[30] US (63/077,433) 2020-09-11
[30] US (17/469,351) 2021-09-08
[30] US (17/469,364) 2021-09-08

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[13] A1
[25] EN
[54] **SYSTEMS AND METHODS OF URBAN ROOFTOP AGRICULTURE WITH SMART CITY DATA INTEGRATION**
[54] **SYSTEMES ET PROCEDES D'AGRICULTURE DE TOIT URBAIN AVEC INTEGRATION DE DONNEES DE VILLE INTELLIGENTE**
[72] TIBALLI, CHRISTINE, US
[71] DIRTSAT, INC., US
[85] 2023-03-10
[86] 2021-09-16 (PCT/US2021/050608)
[87] (WO2022/060940)
[30] US (63/080,748) 2020-09-20

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[13] A1
[51] **Int.Cl. G01D 9/00 (2006.01) G01B 1/00 (2006.01) G01D 11/00 (2006.01)**
[25] EN
[54] **AEROPHONE INSTRUMENT USING AIR-FILLED OBJECT**
[54] **AEROPHONE UTILISANT UN OBJET REMPLI D'AIR**
[72] BAGATAVICIUS, ADAM JASON, CA
[72] MACDONALD, JAMUS ADRIAN, US
[71] ORB MUSIC INC., CA
[85] 2023-03-12
[86] 2021-09-16 (PCT/CA2021/051293)
[87] (WO2022/056635)
[30] US (63/079,896) 2020-09-17

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[13] A1
[51] **Int.Cl. F24S 10/50 (2018.01) F24S 70/20 (2018.01)**
[25] FR
[54] **SOLAR HEATING SYSTEM**
[54] **SYSTEME DE CHAUFFAGE SOLAIRE**
[72] HIGEL, FRANCOIS, FR
[71] HIGEL, FRANCOIS, FR
[85] 2023-03-13
[86] 2021-09-16 (PCT/FR2021/051587)
[87] (WO2022/058688)
[30] FR (FR2009456) 2020-09-18

[21] **3,192,480**
[13] A1
[51] **Int.Cl. A46B 13/02 (2006.01)**
[25] EN
[54] **DEVICE FOR REMOVAL OF BACTERIA AND BIOFILMS FROM SURFACES OF IMPLANTABLE MEDICAL DEVICES AS WELL AS FROM THE SURGICAL SITE**
[54] **DISPOSITIF POUR L'ELIMINATION DE BACTERIES ET DE BIOFILMS PRESENTS SUR DES SURFACES DE DISPOSITIFS MEDICAUX IMPLANTABLES AINSI QUE SUR UN SITE CHIRURGICAL**
[72] CARLI, ALBERTO, US
[72] STELMASZCZYK, KELLY, US
[71] NEW YORK SOCIETY FOR THE RELIEF OF THE RUPTURED AND CRIPPLED, MAINTAINING THE HOSPITAL FOR SPECIAL SURGERY, US
[85] 2023-03-13
[86] 2021-09-24 (PCT/US2021/051918)
[87] (WO2022/067014)
[30] US (63/082,917) 2020-09-24

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[13] A1
[51] **Int.Cl. G06F 3/0481 (2022.01) G16H 30/20 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IMAGE QUALITY REVIEW OF MEDICAL IMAGES**
[54] **SYSTEME ET METHODE DE CONTROLE DE LA QUALITE D'IMAGE D'IMAGES MEDICALES**
[72] ABDOLELL, MOHAMED, CA
[72] DUGGAN, RYAN, CA
[72] CHUNG, DESMOND, CA
[72] BARZILAI, DAN, IL
[71] DENSITAS INCORPORATED, CA
[85] 2023-03-13
[86] 2021-09-13 (PCT/CA2021/051270)
[87] (WO2022/051867)
[30] US (63/077,699) 2020-09-13

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[13] A1
[51] **Int.Cl. A61K 39/385 (2006.01) A61P 37/04 (2006.01) A61P 37/08 (2006.01) C07K 16/42 (2006.01)**
[25] EN
[54] **IMMUNOGENIC PRODUCT COMPRISING AN IGE FRAGMENT FOR TREATING IGE-MEDIATED INFLAMMATORY DISORDERS**
[54] **PRODUIT IMMUNOGENE COMPRENANT UN FRAGMENT D'IGE POUR LE TRAITEMENT DE TROUBLES INFLAMMATOIRES MEDIES PAR L'IGE**
[72] REBER, LAURENT, FR
[72] BRUHNS, PIERRE, FR
[72] CONDE GARCIA, EVA, FR
[72] BACKOVIC, MARIJA, FR
[72] SERRA, VINCENT, FR
[72] GROUARD-VOGEL, GERALDINE, FR
[72] BERTRAND, ROMAIN, CH
[71] NEOVACS, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] INSTITUT PASTEUR, FR
[85] 2023-03-13
[86] 2021-09-17 (PCT/EP2021/075732)
[87] (WO2022/058571)
[30] EP (20306047.0) 2020-09-17
[30] US (63/079,686) 2020-09-17

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[13] A1
[51] **Int.Cl. G06Q 10/06 (2023.01)**
[25] EN
[54] **BOT SUPERVISION**
[54] **SUPERVISION DE ROBOT**
[72] HIGGINS, MICHAEL, US
[72] CHEN, XI, US
[72] HE, CHUQING, US
[72] RICART, ENDER, US
[71] LIVEPERSON, INC., US
[85] 2023-03-13
[86] 2021-09-15 (PCT/US2021/050401)
[87] (WO2022/060792)
[30] US (63/078,718) 2020-09-15

[21] **3,192,509**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **STABLE FORMULATIONS OF PROGRAMMED DEATH RECEPTOR 1 (PD-1) ANTIBODIES AND HYALURONIDASE VARIANTS AND FRAGMENTS THEREOF AND METHODS OF USE THEREOF**
[54] **FORMULATIONS STABLES D'ANTICORPS DU RECEPTEUR DE MORT PROGRAMMEE 1 (PD-1), VARIANTS D'HYALURONIDASE ET FRAGMENTS DE CEUX-CI ET PROCEDES D'UTILISATION ASSOCIES**
[72] KRISHNAMACHARI, YOGITA, US
[72] MITTAL, SACHIN, US
[72] SANGANI, SAHIL S., US
[72] FORREST, WILLIAM P. JR., US
[72] SU, YONGCHAO, US
[72] ZHAO, XI, US
[72] SMITH, KATELYN JEAN, US
[71] MERCK SHARP & DOHME LLC, US
[85] 2023-03-13
[86] 2021-09-23 (PCT/US2021/051641)
[87] (WO2022/066832)
[30] US (63/082,888) 2020-09-24

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[13] A1
[51] **Int.Cl. A61G 10/00 (2006.01)**
[25] EN
[54] **DISPOSABLE PATHOGEN CONTAINMENT DEVICE**
[54] **DISPOSITIF DE CONFINEMENT D'AGENT PATHOGENE JETABLE**
[72] SJAUS, ANA, CA
[72] D'ENTREMONT, MATTHEW, CA
[71] SJAUS, ANA, CA
[71] D'ENTREMONT, MATTHEW, CA
[85] 2023-03-13
[86] 2021-10-06 (PCT/CA2021/000087)
[87] (WO2022/174320)
[30] CA (3095639) 2020-10-07

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[13] A1
[51] **Int.Cl. A61K 31/135 (2006.01) A61K 45/06 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR TREATING VIRUS INFECTIONS**
[54] **COMPOSES POUR LE TRAITEMENT D'INFECTIONS VIRALES**
[72] MANIERE, XAVIER, FR
[72] SALOME, MARC, FR
[71] MELETIOS THERAPEUTICS, FR
[85] 2023-03-13
[86] 2021-09-17 (PCT/EP2021/075679)
[87] (WO2022/058533)
[30] EP (20306048.8) 2020-09-17
[30] EP (21305200.4) 2021-02-18

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[13] A1
[51] **Int.Cl. F24S 25/00 (2018.01) H02S 20/00 (2014.01) H02S 30/00 (2014.01) H02S 30/10 (2014.01)**
[25] EN
[54] **SPRING CLIP FOR PHOTOVOLTAIC MODULE MOUNTING**
[54] **PINCE A RESSORT POUR MONTAGE DE MODULE PHOTOVOLTAIQUE**
[72] DE FRESART, BENJAMIN C., US
[71] ARRAY TECHNOLOGIES, INC., US
[85] 2023-03-13
[86] 2021-09-14 (PCT/US2021/050326)
[87] (WO2022/056487)
[30] US (63/078,177) 2020-09-14
[30] US (63/195,629) 2021-06-01
[30] US (17/474,607) 2021-09-14

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[13] A1
[51] **Int.Cl. A61K 31/167 (2006.01) A61K 31/4439 (2006.01) A61K 31/565 (2006.01)**
[25] EN
[54] **AQUEOUS PHARMACEUTICAL FORMULATION OF HYDROCORTISONE SODIUM PHOSPHATE AND MONOTHIOGLYCEROL**
[54] **FORMULATION PHARMACEUTIQUE AQUEUSE DE PHOSPHATE DE SODIUM D'HYDROCORTISONE ET DE MONOTHIOGLYCEROL**
[72] CHEN, XIAOMING, US
[72] ONG, SHAOWEI, US
[71] ANTARES PHARMA, INC., US
[85] 2023-03-13
[86] 2021-09-21 (PCT/US2021/051349)
[87] (WO2022/061303)
[30] US (63/081,164) 2020-09-21

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[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 31/165 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **DELAYED RELEASE COMPOSITIONS COMPRISING ARMODAFINIL**
[54] **COMPOSITIONS A LIBERATION RETARDEE COMPRENANT DE L'ARMODAFINIL**
[72] MEGHPARA, KANJI, US
[72] VAKA, SIVA RAM KIRAN, US
[72] DESAI, DIPEN, US
[72] SHAH, NAVNIT H., US
[71] AMNEAL COMPLEX PRODUCTS RESEARCH LLC, US
[85] 2023-03-13
[86] 2021-09-09 (PCT/US2021/049546)
[87] (WO2022/056052)
[30] US (63/077,276) 2020-09-11

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[13] A1
[51] **Int.Cl. A61K 31/43 (2006.01) A61K 31/65 (2006.01) A61K 38/16 (2006.01) A61P 31/04 (2006.01) C07K 14/315 (2006.01)**
[25] EN
[54] **COMPOSITION AND USE**
[54] **COMPOSITION ET UTILISATION**
[72] DIEP, DZUNG (DECEASED), NO
[72] OVCHINNIKOV, KIRILL, NO
[72] KRANJEC, CHRISTIAN, NO
[72] THORSTENSEN, TAGE, NO
[71] NORWEGIAN UNIVERSITY OF LIFE SCIENCES, NO
[71] NORWEGIAN INSTITUTE OF BIOECONOMY RESEARCH, NO
[85] 2023-03-13
[86] 2021-09-14 (PCT/EP2021/075210)
[87] (WO2022/053707)
[30] GB (2014427.5) 2020-09-14

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[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/026 (2006.01)**
[25] EN
[54] **MOTION-COMPENSATED LASER SPECKLE CONTRAST IMAGING**
[54] **IMAGERIE PAR CONTRASTE DE GRANULARITE LASER A COMPENSATION DE MOUVEMENT**
[72] DIJKSTRA, KLAAS, NL
[72] CALON, JOOST EMIEL MARCEL, NL
[72] VERMEULEN, AREND JAN WILHELMUS ABRAHAM, NL
[72] BOERMA, EVERT CHRISTIAAN, NL
[71] LIMIS DEVELOPMENT B.V., NL
[85] 2023-03-13
[86] 2021-09-17 (PCT/EP2021/075620)
[87] (WO2022/058499)
[30] NL (2026505) 2020-09-18

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[13] A1
[51] **Int.Cl. F16L 5/04 (2006.01) A62C 2/06 (2006.01)**
[25] EN
[54] **METHOD FOR FIRE-RESISTANT SEALING OF LINE FEEDTHROUGHS OF THIN PIPES, A SEAL ASSEMBLY PREFABRICATED FOR THIS PURPOSE AND METHOD FOR THE PRODUCTION THEREOF**
[54] **PROCEDE POUR FERMER DE MANIERE ETANCHE, CONFORMEMENT A DES EXIGENCES EN TERMES DE PROTECTION CONTRE LES INCENDIES, DES PASSAGES TRAVERSANTS POUR CONDUITES DE TUYAUX MINCES, ENSEMBLE D'ETANCHEITE PREFABRIQUE CONCU A CET EFFET, ET PROCEDE DE FABRICATION CORRESPONDAN**
[72] BOHN, UWE-MICHAEL, DE
[72] DREXL, MICHAEL, DE
[72] FORSTER, JULIA, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2023-03-13
[86] 2021-10-20 (PCT/EP2021/079078)
[87] (WO2022/090025)
[30] EP (20205113.2) 2020-11-02

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[13] A1
[51] **Int.Cl. B60B 7/01 (2006.01) B60B 7/02 (2006.01) B60B 7/06 (2006.01) B60B 7/14 (2006.01)**
[25] EN
[54] **SHIELD FOR A RIM OF A MOTOR VEHICLE**
[54] **DISPOSITIF POUR PROTEGER UNE JANTE DE ROUE D'UN VEHICULE A MOTEUR**
[72] ALTINSOY, FARUK, DE
[71] STELLA, LIVIO, DE
[71] SCHAFFARZ, CARSTEN, DE
[71] ALTINSOY, FARUK, DE
[85] 2023-03-13
[86] 2020-09-02 (PCT/EP2020/074411)
[87] (WO2022/048735)

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[13] A1
[51] **Int.Cl. A61K 47/69 (2017.01) A61K 47/59 (2017.01) A61K 47/60 (2017.01) A61P 27/02 (2006.01)**
[25] EN
[54] **SIALIC-ACID LIGAND DECORATED THERAPEUTICS**
[54] **AGENTS THERAPEUTIQUES DECORES PAR UN LIGAND D'ACIDE SIALIQUE**
[72] TOLENTINO, MICHAEL, US
[72] KUNIMOTO, DEREK Y., US
[72] KRISHNAN, ANITHA, US
[72] GENEAD, MOHAMED A., US
[72] SHINDE, RAJESH R., US
[72] BOONS, GERARDUS J.P.H., US
[72] LIU, QUIANG, US
[72] PRUDDEN, ANTHONY R., US
[72] CHOPRA, PRADEEP, US
[71] AVICEDA THERAPEUTICS, INC., US
[85] 2023-03-13
[86] 2021-09-16 (PCT/US2021/050671)
[87] (WO2022/060984)
[30] US (63/079,292) 2020-09-16

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[13] A1
[51] **Int.Cl. H04L 9/08 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **CERTIFICATE BASED SECURITY USING POST QUANTUM CRYPTOGRAPHY**
[54] **SECURITE BASEE SUR UN CERTIFICAT UTILISANT LA CRYPTOGRAPHIE POST-QUANTIQUE**
[72] GRAY, MICHAEL, AU
[72] MADINENI, NARAYANA, AU
[72] MCMAHON, SIMON, AU
[72] GREEN, MATTHEW, AU
[72] WALTENBERG, PETER, AU
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2023-03-13
[86] 2021-10-28 (PCT/EP2021/080014)
[87] (WO2022/090405)
[30] US (17/086,510) 2020-11-02

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[13] A1
[51] **Int.Cl. A61K 31/451 (2006.01) A61P 25/14 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **USE OF PRIDOPIDINE AND ANALOGS FOR THE TREATMENT OF ANXIETY AND DEPRESSION**
[54] **UTILISATION DE PRIDOPIDINE ET D'ANALOGUES POUR LE TRAITEMENT DE L'ANXIETE ET DE LA DEPRESSION**
[72] HAYDEN, MICHAEL, IL
[72] POULADI, MAHMOUD ABDULHOSSEIN, SG
[72] GEVA, MICHAL, IL
[71] PRILENIA NEUROTHERAPEUTICS LTD., IL
[85] 2023-03-13
[86] 2021-10-20 (PCT/IL2021/051243)
[87] (WO2022/084999)
[30] US (17/074,901) 2020-10-20
[30] US (17/498,075) 2021-10-11

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[13] A1
[51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **PERSONALIZED CONNECTIVITY SERVICE OFFERINGS**
[54] **OFFRES DE SERVICE DE CONNECTIVITE PERSONNALISEES**
[72] O'SULLIVAN, NIALL, US
[72] O'BRIEN, ULTAN, US
[72] MURRAY, FERGAL, US
[71] VIASAT INC., US
[85] 2023-03-13
[86] 2020-09-16 (PCT/US2020/051131)
[87] (WO2022/060356)

[21] **3,192,544**
[13] A1
[51] **Int.Cl. G06F 16/00 (2019.01)**
[25] EN
[54] **BATCH JOB PERFORMANCE IMPROVEMENT IN ACTIVE-ACTIVE ARCHITECTURE**
[54] **AMELIORATION DE PERFORMANCE DE TACHE PAR LOTS DANS UNE ARCHITECTURE ACTIVE-ACTIVE**
[72] LI, SHUO, CN
[72] WANG, XIAOBO, CN
[72] ZHONG, JIATIAN, CN
[72] SUN, SHENGYAN, CN
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2023-03-13
[86] 2021-11-17 (PCT/CN2021/131196)
[87] (WO2022/116828)
[30] US (17/110,523) 2020-12-03

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[13] A1
[51] **Int.Cl. F16K 47/04 (2006.01) F16K 1/42 (2006.01) F16K 3/26 (2006.01) F16K 25/04 (2006.01) F16K 47/08 (2006.01)**
[25] EN
[54] **ANTI-CAVITATION VALVE ASSEMBLY**
[54] **ENSEMBLE VANNE ANTICAVITATION**
[72] WOLFE, ROBERT MORGAN, US
[72] ROSE, DAVID MICHAEL, US
[72] LINK, JOHN FREDERIC, US
[71] GRISWOLD INDUSTRIES, US
[85] 2023-03-13
[86] 2021-07-01 (PCT/US2021/040130)
[87] (WO2022/076052)
[30] US (63/088,678) 2020-10-07
[30] US (17/356,858) 2021-06-24

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[13] A1
[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **OPTIMIZING PLACEMENTS OF WORKLOADS ON MULTIPLE PLATFORMS AS A SERVICE BASED ON COSTS AND SERVICE LEVELS**
[54] **OPTIMISATION DES PLACEMENTS DE CHARGES DE TRAVAIL SUR DE MULTIPLES PLATEFORMES EN TANT QUE SERVICE SUR LA BASE DE COUTS ET DE NIVEAUX DE SERVICE**
[72] ARONOVICH, LIOR, CA
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
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[87] (WO2022/116738)
[30] US (17/113,102) 2020-12-06

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[51] **Int.Cl. G11C 11/22 (2006.01)**
[25] EN
[54] **NON-VOLATILE ANALOG RESISTIVE MEMORY CELLS IMPLEMENTING FERROELECTRIC SELECT TRANSISTORS**
[54] **CELLULES DE MEMOIRE RESISTIVE ANALOGIQUE NON VOLATILE METTANT EN ?UVRE DES TRANSISTORS DE SELECTION FERROELECTRIQUES**
[72] GONG, NANBO, US
[72] ANDO, TAKASHI, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2023-03-13
[86] 2021-11-09 (PCT/CN2021/129586)
[87] (WO2022/121603)
[30] US (17/119,350) 2020-12-11

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[51] **Int.Cl. H01M 4/131 (2010.01) H01M 4/1391 (2010.01) H01M 4/525 (2010.01) H01M 10/052 (2010.01)**
[25] EN
[54] **PROCESS FOR THE MANUFACTURE OF A COATED CATHODE ACTIVE MATERIAL**
[54] **PROCEDE DE FABRICATION D'UN MATERIAU ACTIF DE CATHODE REVETU**
[72] HAN, ZHENJI, JP
[72] MATSUMOTO, MASATOSHI, JP
[72] NAKAYAMA, JUMPEI, JP
[72] KASHIWAGI, JUNJI, JP
[71] BASF SE, DE
[85] 2023-03-13
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[87] (WO2022/063669)
[30] EP (20198321.0) 2020-09-25

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[51] **Int.Cl. E04H 15/18 (2006.01) E04H 15/36 (2006.01) E04H 15/44 (2006.01)**
[25] EN
[54] **FOLDABLE TENT FRAME**
[54] **CADRE DE TENTE PLIABLE**
[72] BREZAN, JURAJ, SK
[71] ZEPELIN, S.R.O., SK
[85] 2023-03-13
[86] 2021-09-16 (PCT/SK2021/050011)
[87] (WO2022/060302)
[30] SK (PUV 50096-2020) 2020-09-16

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[51] **Int.Cl. B32B 5/02 (2006.01) B32B 5/26 (2006.01) B32B 25/14 (2006.01) B32B 27/18 (2006.01) B32B 27/22 (2006.01) B32B 27/32 (2006.01) B32B 27/34 (2006.01)**
[25] FR
[54] **MULTI-LAYER STRUCTURE FOR STORING HYDROGEN**
[54] **STRUCTURE MULTICOUCHE POUR LE STOCKAGE DE L'HYDROGENE**
[72] FLAT, JEAN-JACQUES, FR
[72] DANG, PATRICK, FR
[71] ARKEMA FRANCE, FR
[85] 2023-03-13
[86] 2021-09-28 (PCT/FR2021/051665)
[87] (WO2022/069826)
[30] FR (2010031) 2020-10-01

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[13] A1
[51] **Int.Cl. H01L 29/78 (2006.01)**
[25] EN
[54] **WRAP-AROUND CONTACTS INCLUDING LOCALIZED METAL SILICIDE**
[54] **CONTACTS ENVELOPPANT COMPRENANT DU SILICIURE METALLIQUE LOCALISE**
[72] MILLER, ERIC, US
[72] FROUGIER, JULIEN, US
[72] MIGNOT, YANN, US
[72] GREENE, ANDREW M., US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
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[30] US (17/124,458) 2020-12-16

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[51] **Int.Cl. B23B 3/00 (2006.01) B23B 3/26 (2006.01) B23C 3/12 (2006.01) B23D 1/00 (2006.01) B23D 1/24 (2006.01) B23D 5/02 (2006.01) B24B 9/00 (2006.01)**
[25] EN
[54] **EXTERNALLY MOUNTED FLANGE FACING SYSTEM**
[54] **SYSTEME A DRESSER LES FACES DE JOINT A MONTAGE EXTERNE**
[72] KING, MARK, US
[72] WADE, JIMI, US
[72] COLQUITT, MARK, US
[71] TEAM INDUSTRIAL SERVICES, INC., US
[85] 2023-03-13
[86] 2021-09-19 (PCT/US2021/051006)
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[30] US (63/083,365) 2020-09-25

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[51] **Int.Cl. G11C 13/04 (2006.01) B82Y 10/00 (2011.01) B82Y 20/00 (2011.01) G06N 10/00 (2022.01)**
[25] EN
[54] **APPARATUS COMPRISING ONE OR MORE PHOTONIC MEMORIES**
[54] **APPAREIL COMPRENANT UNE OU PLUSIEURS MEMOIRES PHOTONIQUES**
[72] MURRAY, RICHARD, GB
[72] NUNN, JOSHUA, GB
[72] FRANCIS-JONES, ROBERT, GB
[72] PARKER, TOM, GB
[72] KACZMAREK, KRYSZTOF, GB
[71] ORCA COMPUTING LIMITED, GB
[85] 2023-03-13
[86] 2021-09-21 (PCT/GB2021/052447)
[87] (WO2022/058757)
[30] GB (2014884.7) 2020-09-21

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[13] A1
[51] **Int.Cl. F27B 19/04 (2006.01)**
[25] EN
[54] **PROCESS AND SYSTEM FOR MELTING AGGLOMERATES**
[54] **PROCEDE ET SYSTEME DE FUSION D'AGGLOMERATS**
[72] GREYLING, FREDERIK PETRUS, ZA
[71] GREYLING, FREDERIK PETRUS, ZA
[85] 2023-03-13
[86] 2021-09-07 (PCT/IB2021/058118)
[87] (WO2022/069972)
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[51] **Int.Cl. G11C 11/22 (2006.01) H01L 27/10 (2006.01)**
[25] EN
[54] **FIELD EFFECT TRANSISTOR (FET) DEVICES**
[54] **DISPOSITIFS DE TRANSISTOR A EFFET DE CHAMP (FET)**
[72] VEGA, REINALDO, US
[72] ANDO, TAKASHI, US
[72] CHI, CHENG, US
[72] ADUSUMILLI, PRANEET, US
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
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[86] 2021-11-12 (PCT/IB2021/060504)
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[30] US (17/139,053) 2020-12-31

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[13] A1
[51] **Int.Cl. H01M 50/224 (2021.01) H01M 50/233 (2021.01) H01M 50/249 (2021.01) C22C 21/04 (2006.01)**
[25] EN
[54] **BATTERY TRAY BOTTOM FOR ELECTRIC VEHICLES**
[54] **FOND DE BAC BATTERIES POUR VEHICULES ELECTRIQUES**
[72] BARBIER, DAVID, FR
[72] LIST, JOCELYNE, FR
[72] MASSE, JEAN-PHILIPPE, FR
[71] CONSTELLIUM NEUF-BRISACH, FR
[85] 2023-03-13
[86] 2021-09-22 (PCT/FR2021/051628)
[87] (WO2022/064140)
[30] FR (FR2009649) 2020-09-23
[30] FR (FR2104966) 2021-05-11

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[13] A1
[51] **Int.Cl. A61K 31/5383 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **NOVEL JAK INHIBITOR COMPOUNDS, METHOD FOR SYNTHESIZING SAME AND USE THEREOF**
[54] **NOUVEAUX COMPOSES INHIBITEURS DE JAK, METHODE DE SYNTHESE ASSOCIEE ET UTILISATION ASSOCIEE**
[72] OUVRY, GILLES, GB
[72] MUSICKI, BRANISLAV, FR
[72] HARRIS, CRAIG, FR
[72] THOREAU, ETIENNE, FR
[71] GALDERMA HOLDING SA, CH
[85] 2023-03-13
[86] 2021-09-10 (PCT/IB2021/058266)
[87] (WO2022/054005)
[30] US (63/078,054) 2020-09-14

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[51] **Int.Cl. F25D 3/08 (2006.01)**
[25] EN
[54] **TRANSPORT CONTAINER**
[54]
[72] ROS, NICO, CH
[72] RETZKO, STEFAN, CH
[71] REP IP AG, CH
[85] 2023-03-13
[86] 2021-09-14 (PCT/IB2021/058341)
[87] (WO2022/054024)
[30] AT (A 210/2020) 2020-09-14

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[13] A1
[51] **Int.Cl. G01L 5/14 (2006.01)**
[25] EN
[54] **IDENTIFYING FALSE POSITIVE DATA WITHIN A SET OF BLAST EXPOSURE DATA**
[54] **IDENTIFICATION DE DONNEES DE FAUX POSITIF DANS UN ENSEMBLE DE DONNEES D'EXPOSITION A UN SOUFFLE**
[72] WIRI, SUTHEE, US
[72] ORTLEY, DAVID J., US
[71] APPLIED RESEARCH ASSOCIATES, INC., US
[85] 2023-03-13
[86] 2021-11-04 (PCT/US2021/058000)
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[51] **Int.Cl. B01D 21/01 (2006.01) C02F 1/48 (2006.01) C02F 1/52 (2006.01) C02F 3/12 (2006.01)**
[25] EN
[54] **IN CHANNEL MAGNETIC RECOVERY**
[54] **RECUPERATION MAGNETIQUE EN CANAL**
[72] LINDEMANN, TIMOTHY, US
[71] EVOQUA WATER TECHNOLOGIES LLC, US
[85] 2023-03-13
[86] 2021-09-10 (PCT/US2021/049821)
[87] (WO2022/056236)
[30] US (63/076,964) 2020-09-11

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[13] A1
[51] **Int.Cl. B65B 5/02 (2006.01) B65B 5/04 (2006.01) B65B 9/13 (2006.01) B65B 51/02 (2006.01) B65B 61/08 (2006.01) B65B 67/04 (2006.01)**
[25] EN
[54] **PACK TO POUCH SYSTEMS**
[54] **EMBALLAGE POUR SYSTEMES DE POCHE**
[72] MAGNELL, GREGORY P., US
[71] WESTROCK SHARED SERVICES, LLC, US
[85] 2023-03-13
[86] 2021-09-13 (PCT/US2021/050098)
[87] (WO2022/056403)
[30] US (63/077,644) 2020-09-13
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[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/25 (2006.01) C11D 1/00 (2006.01) C11D 3/37 (2006.01) C11D 17/06 (2006.01)**
[25] EN
[54] **MULTILAYER DISSOLVABLE SOLID ARTICLE CONTAINING SOLID PARTICLES FOR MAKING THE SAME**
[54] **ARTICLE SOLIDE MULTICOUCHE SOLUBLE CONTENANT DES PARTICULES SOLIDES POUR SA FABRICATION**
[72] MAC NAMARA, CARL DAVID, CN
[72] TAN, HONGSING, CN
[72] GLENN, ROBERT WAYNE JR., SG
[72] PANG, WENHU, CN
[72] DU, KEJING, CN
[72] LIU, YUXIANG, CN
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2023-03-13
[86] 2020-10-09 (PCT/CN2020/119952)
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[13] A1
[51] **Int.Cl. A61B 17/12 (2006.01) A61B 17/122 (2006.01) A61B 17/128 (2006.01)**
[25] EN
[54] **MINIMALLY INVASIVE OCCLUSION DEVICE AND METHODS THEREOF**
[54] **DISPOSITIF D'OCCLUSION MINIMALEMENT INVASIF ET PROCEDES CORRESPONDANTS**
[72] SAUER, JUDE S., US
[71] LSI SOLUTIONS, INC., US
[85] 2023-03-13
[86] 2021-09-24 (PCT/US2021/051860)
[87] (WO2022/066983)
[30] US (17/030,568) 2020-09-24

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[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 9/12 (2006.01) A61K 31/4706 (2006.01) A61K 47/10 (2017.01) A61P 31/14 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING HYDROXYCHLOROQUINE AND USES THEREOF**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DE L'HYDROXYCHLOROQUINE ET SES UTILISATIONS**
[72] CALVINO, FLORIAN ALEXIS, CH
[72] GUY, PHILIPPE ALEXANDRE, CH
[72] HOENG, JULIA, CH
[72] KOLLI, ADITYA REDDY, CH
[72] KUCZAJ, ARKADIUSZ, CH
[72] MAJEED, SHOAIB, CH
[72] MAZUROV, ANATOLY, US
[72] PEITSCH, MANUEL, CH
[72] SEMREN, TANJA ZIVKOVIC, CH
[72] VAN DER TOORN, MARCO, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2023-03-13
[86] 2021-09-13 (PCT/EP2021/075136)
[87] (WO2022/053694)
[30] EP (20196088.7) 2020-09-14

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[51] **Int.Cl. H02J 50/00 (2016.01) H02J 50/05 (2016.01) H02J 50/10 (2016.01) H02J 50/90 (2016.01) H02M 3/02 (2006.01) H02M 5/02 (2006.01) H02M 11/00 (2006.01)**
[25] EN
[54] **POWER TRANSFER SYSTEM AND METHODS**
[54] **SYSTEME ET PROCEDES DE TRANSFERT D'ENERGIE**
[72] MOHAMMADABADI, SOROUSH DEHGHANI, CA
[72] SHARIATZADEH, MOHAMMADJAVAD, CA
[72] ASOODEH, ALIREZA, CA
[72] DAON, EHUD, CA
[72] HAFSHEJANI, EHSAN HADIZADEH, CA
[71] DAANAA RESOLUTION INC., CA
[85] 2023-03-13
[86] 2021-09-13 (PCT/IB2021/000627)
[87] (WO2022/058790)
[30] US (63/078,824) 2020-09-15

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[13] A1
[51] **Int.Cl. C12Q 1/6804 (2018.01) C12Q 1/6876 (2018.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **ELECTROCHEMICAL BIOSENSOR FOR TARGET ANALYTE DETECTION**
[54] **BIOCAPTEUR ELECTROCHIMIQUE DE DETECTION D'ANALYTE CIBLE**
[72] SOLEYMANI, LEYLA, CA
[72] TRAYNOR, SARAH, CA
[72] LI, FENG, CA
[71] MCMASTER UNIVERSITY, CA
[85] 2023-03-13
[86] 2021-09-14 (PCT/CA2021/051281)
[87] (WO2022/051872)
[30] US (63/077,965) 2020-09-14

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[25] EN
[54] **VALIDITY NOTIFICATION FOR A MACHINE LEARNING MODEL**
[54] **NOTIFICATION DE VALIDITE POUR UN MODELE D'APPRENTISSAGE AUTOMATIQUE**
[72] KARAMPATSIS, DIMITRIOS, GB
[72] VAISHNAVI, ISHAN, DE
[71] LENOVO (SINGAPORE) PTE. LTD., SG
[85] 2023-03-13
[86] 2020-10-02 (PCT/EP2020/077733)
[87] (WO2022/069063)

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[13] A1
[51] **Int.Cl. H02G 9/04 (2006.01)**
[25] EN
[54] **STRUCTURE FOR ATTACHING GRATING LID ONTO RESIN TROUGH BODY; TROUGH TRACK; TROUGH TRACK FORMING METHOD; AND GRATING LID**
[54] **STRUCTURE POUR FIXER UN COUVERCLE DE GRILLE SUR UN CORPS DE GOULOTTE EN RESINE, PISTE CREUX, PROCEDE DE FORMATION DE PISTE CREUX, ET COUVERCLE DE RESEAU**
[72] MANABE, HIROKI, JP
[72] HORI, TAKASHI, JP
[71] FURUKAWA ELECTRIC CO.,LTD., JP
[85] 2023-03-13
[86] 2021-09-14 (PCT/JP2021/033625)
[87] (WO2022/059657)
[30] JP (2020-154918) 2020-09-15

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[13] A1
[51] **Int.Cl. H04L 1/00 (2006.01)**
[25] EN
[54] **PACKET EXTENSION METHOD, DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE D'EXTENSION DE PAQUETAGE, DISPOSITIF ET SUPPORT D'ENREGISTREMENT**
[72] HU, MENGSHI, CN
[72] YU, JIAN, CN
[72] GAN, MING, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-03-13
[86] 2022-03-28 (PCT/CN2022/083421)
[87] (WO2022/206686)
[30] CN (202110343378.1) 2021-03-30

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[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 31/04 (2006.01)**
[25] EN
[54] **FACTOR H FRAGMENT FC FUSIONS WITH IMPROVED POTENCY AND MANUFACTURABILITY**
[54] **FUSIONS DE FACTEUR H ET DE FRAGMENT FC A ACTIVITE ET FABRICABILITE AMELIOREES**
[72] WYCOFF, KEITH, US
[72] TRAN, Y, US
[71] PLANET BIOTECHNOLOGY, INC., US
[85] 2023-03-13
[86] 2021-09-15 (PCT/US2021/050533)
[87] (WO2022/060890)
[30] US (63/204,194) 2020-09-16
[30] US (63/258,022) 2021-04-05
[30] US (63/259,003) 2021-06-11

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[13] A1
[51] **Int.Cl. A61K 9/16 (2006.01) A61K 31/18 (2006.01) A61K 31/47 (2006.01)**
[25] EN
[54] **ANTIDIABETIC PHARMACEUTICAL COMPOSITIONS AND PREPARATION METHOD THEREOF**
[54] **COMPOSITIONS PHARMACEUTIQUES ANTIDIABETIQUES ET LEUR PROCEDE DE PREPARATION**
[72] TIAN, WU, US
[72] WANG, YAN, US
[71] ELITE PHARMACEUTICAL SOLUTION INC., US
[85] 2023-03-13
[86] 2021-08-27 (PCT/US2021/048104)
[87] (WO2022/066363)
[30] US (17/028,403) 2020-09-22

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[13] A1
[51] **Int.Cl. B60D 1/24 (2006.01) B60L 50/20 (2019.01) B60T 7/20 (2006.01) B60T 8/17 (2006.01) B62D 59/04 (2006.01)**
[25] EN
[54] **SYSTEM OF A MOTOR-DRIVEN TRAILER AND A TOWBAR**
[54] **SYSTEME D'UNE REMORQUE ENTRAINEE PAR UN MOTEUR ET D'UNE BARRE DE REMORQUAGE**
[72] KHAN, FAHAD AMAN, DE
[72] QAMMAR, MUHAMMAD ALI, DE
[71] NUWIEL GMBH, DE
[85] 2023-03-13
[86] 2021-08-19 (PCT/EP2021/073047)
[87] (WO2022/058119)
[30] EP (20196699.1) 2020-09-17

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[13] A1
[51] **Int.Cl. G21D 5/02 (2006.01) G21C 3/22 (2006.01) G21C 11/08 (2006.01)**
[25] EN
[54] **CARBIDE-BASED FUEL ASSEMBLY FOR THERMAL PROPULSION APPLICATIONS**
[54] **ASSEMBLAGE COMBUSTIBLE A BASE DE CARBURE POUR APPLICATIONS DE PROPULSION THERMIQUE**
[72] BARRINGER, ERIC A., US
[72] JENSEN, RUSSELL R., US
[72] GUSTAFSON, JEREMY L., US
[72] ALES, MATT, US
[72] BERGMAN, JOSHUA J., US
[72] SWANSON, RYAN T., US
[72] WITTER, JONATHAN K., US
[72] GALICKI, DANNY, US
[72] INMAN, JAMES B., US
[72] KRECICKI, MATT, US
[72] RIDGEWAY, ROGER, US
[71] BWXT ADVANCED TECHNOLOGIES, LLC, US
[71] BWXT NUCLEAR ENERGY, INC., US
[85] 2023-03-13
[86] 2021-08-12 (PCT/US2021/045638)
[87] (WO2022/081244)
[30] US (63/090,383) 2020-10-12
[30] US (17/399,881) 2021-08-11

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[13] A1
[51] **Int.Cl. B82Y 5/00 (2011.01) B82Y 40/00 (2011.01) C12Q 1/6834 (2018.01) G01N 33/487 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **STRUCTURE AND METHODS FOR DETECTION OF SAMPLE ANALYTES**
[54] **STRUCTURE ET METHODES DE DETECTION D'ANALYTES ECHANTILLONS**
[72] GOPINATH, ASHWIN, US
[72] ROTHEMUND, PAUL, US
[72] SHETTY, RISHABH, US
[72] BOWEN, SHANE, US
[71] SOMALOGIC OPERATING CO., INC., US
[85] 2023-03-13
[86] 2021-09-14 (PCT/US2021/050262)
[87] (WO2022/060728)
[30] US (63/078,837) 2020-09-15

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[13] A1
[51] **Int.Cl. B64G 1/40 (2006.01) G21C 3/07 (2006.01) G21C 3/20 (2006.01)**
[25] EN
[54] **CARBIDE-BASED FUEL ASSEMBLY FOR THERMAL PROPULSION APPLICATIONS**
[54] **ENSEMBLE COMBUSTIBLE A BASE DE CARBURE POUR APPLICATIONS DE PROPULSION THERMIQUE**
[72] BARRINGER, ERIC A., US
[72] JENSEN, RUSSELL R., US
[72] GUSTAFSON, JEREMY L., US
[72] ALES, MATT, US
[72] BERGMAN, JOSHUA J., US
[72] SWANSON, RYAN T., US
[72] WITTER, JONATHAN K., US
[72] GALICKI, DANNY, US
[72] INMAN, JAMES B., US
[72] KRECICKI, MATT, US
[72] RIDGEWAY, ROGER, US
[71] BWXT ADVANCED TECHNOLOGIES, LLC, US
[71] BWXT NUCLEAR ENERGY, INC., US
[85] 2023-03-13
[86] 2021-08-12 (PCT/US2021/045634)
[87] (WO2022/081242)
[30] US (63/090,373) 2020-10-12
[30] US (17/399,822) 2021-08-11

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[13] A1
[51] **Int.Cl. C10G 11/02 (2006.01) B01J 29/46 (2006.01) C10G 11/05 (2006.01)**
[25] EN
[54] **MAXIMIZATION OF LIGHT OLEFINS IN FCC PROCESS**
[54] **MAXIMISATION D'OLEFINES LEGERES DANS UN PROCEDE DE CRAQUAGE CATALYTIQUE FLUIDE (FCC)**
[72] ALLAHVERDI, MEHDI, US
[72] DIDDAMS, PAUL, CZ
[72] KANYI, CHARLES, US
[71] JOHNSON MATTHEY PROCESS TECHNOLOGIES, INC., US
[85] 2023-03-13
[86] 2021-09-22 (PCT/US2021/071550)
[87] (WO2022/076964)
[30] US (63/198,260) 2020-10-07

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[13] A1
[51] **Int.Cl. C08F 220/58 (2006.01)**
[25] EN
[54] **AQUEOUS DISPERSION OPACIFYING PIGMENT-BINDER HYBRID POLYMER PARTICLES**
[54] **PARTICULES POLYMERES HYBRIDES LIANT-PIGMENT OPACIFIANT EN DISPERSION AQUEUSE**
[72] DEROCHER, JONATHAN, US
[72] VAN DYK, ANTONY K., US
[72] ZHANG, QING, US
[71] ROHM AND HAAS COMPANY, US
[85] 2023-03-13
[86] 2021-08-19 (PCT/US2021/046610)
[87] (WO2022/055682)
[30] US (63/077,823) 2020-09-14

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[13] A1
[51] **Int.Cl. H01H 71/14 (2006.01)**
[25] EN
[54] **FAIL-SAFE LOCKOUT TRIP MECHANISM IN A CIRCUIT INTERRUPTING DEVICE**
[54] **MECANISME DECLENCHEUR DE VERROUILLAGE DE SECURITE DANS UN DISPOSITIF INTERRUPTEUR DE CIRCUIT**
[72] KINSEL, HUGH T., US
[72] ENDOZO, JOSELITO, US
[72] WATFORD, RUSSELL THOMAS, US
[71] SIEMENS INDUSTRY, INC., US
[85] 2023-03-13
[86] 2021-09-09 (PCT/US2021/049685)
[87] (WO2022/072132)
[30] US (17/038,073) 2020-09-30

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[13] A1
[51] **Int.Cl. A01B 79/02 (2006.01)**
[25] EN
[54] **METHOD FOR INCREASING CONTENT AND GENE EXPRESSION OF AROMATIC SUBSTANCE IN FRUITS AND VEGETABLES BY USING HYDROGEN-RICH WATER**
[54] **PROCEDE POUR L'AUGMENTATION DE LA TENEUR ET DE L'EXPRESSION GENIQUE D'UNE SUBSTANCE AROMATIQUE DANS DES FRUITS ET DES LEGUMES A L'AIDE D'EAU RICHE EN HYDROGENE**
[72] SHEN, WENBIAO, CN
[72] ZENG, YAN, CN
[72] LI, LONGNA, CN
[72] SUNDAR, M, US
[72] WANG, SHU, CN
[72] CHENG, XU, CN
[72] LIU, YUHAO, CN
[71] NANJING AGRICULTURAL UNIVERSITY, CN
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2023-03-13
[86] 2021-09-13 (PCT/CN2021/117890)
[87] (WO2022/053037)
[30] CN (202010959454.7) 2020-09-14

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[13] A1
[51] **Int.Cl. A01G 7/00 (2006.01) A01G 25/00 (2006.01) C01B 5/00 (2006.01)**
[25] EN
[54] **HYDROGEN NANOBUBBLES INFUSED WATER FOR INDUSTRIAL CROP IRRIGATION**
[54] **EAU INFUSEE DE NANOBULLES D'HYDROGENE POUR IRRIGATION DE CULTURE INDUSTRIELLE**
[72] MAHMUDOV, ROVSHAN, US
[72] FANG, SHU, US
[72] ZENG, YAN, CN
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2023-03-13
[86] 2021-09-13 (PCT/US2021/050131)
[87] (WO2022/056419)
[30] US (63/077,762) 2020-09-14

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[13] A1
[51] **Int.Cl. A01N 1/02 (2006.01) G01N 35/00 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **WORKSTATION AND APPARATUS TO FACILITATE TRANSFER OF BIOLOGICAL SPECIMENS STORED AT CRYOGENIC CONDITIONS**
[54] **POSTE DE TRAVAIL ET APPAREIL POUR FACILITER LE TRANSFERT D'ECHANTILLONS BIOLOGIQUES STOCKES DANS DES CONDITIONS CRYOGENIQUES**
[72] BIXON, BRIAN JOSEPH, US
[72] HUDSON, CYNTHIA, US
[72] MURRAY, ALAN LEROY, US
[71] TMRW LIFE SCIENCES, INC., US
[85] 2023-03-13
[86] 2021-09-23 (PCT/US2021/051803)
[87] (WO2022/066943)
[30] US (63/082,789) 2020-09-24

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[13] A1
[51] **Int.Cl. B64G 1/56 (2006.01) B64G 1/54 (2006.01) B64G 1/58 (2006.01) G21F 1/12 (2006.01)**
[25] EN
[54] **COMPOSITE MULTIFUNCTIONAL STRUCTURAL MATERIAL FOR HIGH ENERGETIC CHARGED PARTICLE RADIATION SHIELDING**
[54] **MATERIAU STRUCTUREL MULTIFONCTIONNEL COMPOSITE POUR PROTECTION CONTRE LE RAYONNEMENT DE PARTICULES CHARGEES HAUTEMENT ENERGETIQUES**
[72] SIHVER, LEMBIT, SE
[72] BARGHOUTY, ABDULNASSER, US
[71] COSMIC SHIELDING CORPORATION, US
[85] 2023-03-13
[86] 2021-11-24 (PCT/US2021/060836)
[87] (WO2022/115614)
[30] US (63/118,384) 2020-11-25

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[13] A1
[51] **Int.Cl. C07D 209/16 (2006.01) A61K 31/404 (2006.01) A61K 31/4045 (2006.01) A61P 25/28 (2006.01) C07D 209/04 (2006.01) C07D 209/14 (2006.01) C07D 209/30 (2006.01)**
[25] EN
[54] **ADVANTAGEOUS TRYPTAMINE COMPOSITIONS FOR MENTAL DISORDERS OR ENHANCEMENT**
[54] **COMPOSITIONS DE TRYPTAMINE AVANTAGEUSES POUR TROUBLES MENTAUX OU AMELIORATION MENTALE**
[72] BAGGOTT, MATTHEW, US
[71] TACTOGEN INC, US
[85] 2023-03-14
[86] 2021-09-20 (PCT/US2021/051129)
[87] (WO2022/061242)
[30] US (63/080,791) 2020-09-20
[30] US (63/120,198) 2020-12-01
[30] US (63/149,091) 2021-02-12

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[13] A1
[51] **Int.Cl. C07D 498/18 (2006.01) A61P 37/02 (2006.01) C07D 498/22 (2006.01)**
[25] EN
[54] **TYK2 INHIBITORS AND USES THEREOF**
[54] **INHIBITEURS DE TYK2 ET LEURS UTILISATIONS**
[72] JIN, BOHAN, US
[72] DONG, QING, US
[72] HUNG, GENE, US
[71] ALUMIS, INC., US
[85] 2023-03-14
[86] 2021-09-16 (PCT/US2021/050649)
[87] (WO2022/060973)
[30] US (63/079,217) 2020-09-16

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[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/245 (2006.01) A61P 31/22 (2006.01) C07K 14/005 (2006.01) C12N 7/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **HERPESVIRUS POLYEPITOPE VACCINES**
[54] **VACCINS A BASE DE POLYEPITOPES DU VIRUS HERPETIQUE**
[72] KHANNA, RAJIV, AU
[72] VIJAYENDRA, DASARI, AU
[71] THE COUNCIL OF THE QUEENSLAND INSTITUTE OF MEDICAL RESEARCH, AU
[85] 2023-03-14
[86] 2021-10-06 (PCT/IB2021/000689)
[87] (WO2022/074455)
[30] US (63/088,766) 2020-10-07

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[13] A1
[51] **Int.Cl. A61M 39/12 (2006.01) A61M 39/10 (2006.01)**
[25] EN
[54] **CONNECTOR WITH SEALING PORTION**
[54] **RACCORD DOTE D'UNE PARTIE SCELLAGE**
[72] LAU, CHOI TING, US
[71] CAREFUSION 303, INC., US
[85] 2023-03-14
[86] 2021-09-24 (PCT/US2021/052081)
[87] (WO2022/067117)
[30] US (17/035,131) 2020-09-28

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[13] A1
[51] **Int.Cl. B63H 21/17 (2006.01) B63B 34/10 (2020.01) B63B 34/52 (2020.01) B63B 7/08 (2020.01) B63H 5/08 (2006.01)**
[25] EN
[54] **WATERCRAFT**
[54]
[72] ROSEN, HERMANN, CH
[71] ROSEN SWISS AG, CH
[85] 2023-03-14
[86] 2021-09-15 (PCT/EP2021/075347)
[87] (WO2022/058358)
[30] DE (10 2020 124 041.4) 2020-09-15

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[13] A1
[51] **Int.Cl. A01G 9/14 (2006.01) F24S 20/60 (2018.01) F24S 60/30 (2018.01) A01G 9/24 (2006.01) A01G 25/16 (2006.01) F24D 11/00 (2022.01)**
[25] EN
[54] **MULTI-SOURCE HEAT EXCHANGE SYSTEM EMPLOYING A GROUND-ENERGY STORAGE SYSTEM FOR CONTROLLED ENVIRONMENT ENCLOSURES**
[54] **SYSTEME D'ECHANGE DE CHALEUR A SOURCES MULTIPLES UTILISANT UN SYSTEME DE STOCKAGE D'ENERGIE SOUTERRAIN POUR ENCEINTES A ENVIRONNEMENT CONTROLE**
[72] GORDON, RICHARD A., US
[72] KUMAR, SWAPNIL, US
[72] PINKE MARC, ADOLF ERNST, US
[72] HOUPE, CHRISTIAN LEE, US
[71] CERES GREENHOUSE SOLUTIONS LLC, US
[85] 2023-03-14
[86] 2021-09-16 (PCT/US2021/050760)
[87] (WO2022/061045)
[30] US (63/079,461) 2020-09-16

[21] **3,192,643**
[13] A1
[51] **Int.Cl. A61B 6/00 (2006.01) G01N 22/00 (2006.01)**
[25] EN
[54] **APPARATUS AND PROCESS FOR ELECTROMAGNETIC IMAGING**
[54] **APPAREIL ET PROCEDE D'IMAGERIE ELECTROMAGNETIQUE**
[72] BRANKOVIC, AIDA, AU
[72] ABBOSH, AMIN, AU
[71] EMVISION MEDICAL DEVICES LTD, AU
[85] 2023-03-14
[86] 2021-09-14 (PCT/AU2021/051058)
[87] (WO2022/051819)
[30] AU (2020903286) 2020-09-14

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[13] A1
[51] **Int.Cl. C07D 413/14 (2006.01)**
[25] EN
[54] **NLRX1 LIGANDS**
[54] **LIGANDS DE NLRX1**
[72] BASSAGANYA-RIERA, JOSEP, US
[72] LEBER, ANDREW, US
[72] TUBAU-JUNI, NURIA, US
[72] HONTECILLAS, RAQUEL, US
[71] LANDOS BIOPHARMA, INC., US
[85] 2023-03-14
[86] 2021-09-20 (PCT/US2021/051068)
[87] (WO2022/061224)
[30] US (63/081,016) 2020-09-21

[21] **3,192,649**
[13] A1
[51] **Int.Cl. A63F 9/24 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR SPORTS BETTING**
[54] **PROCEDES ET SYSTEMES DE PARI SPORTIF**
[72] KAPLOWITZ, JON, US
[72] MCCLINTIC, SCOT, US
[72] AURIEMMA, JOSHUA, US
[71] KAPLOWITZ, JON, US
[71] MCCLINTIC, SCOT, US
[71] AURIEMMA, JOSHUA, US
[85] 2023-03-14
[86] 2021-09-14 (PCT/US2021/050295)
[87] (WO2022/056474)
[30] US (63/078,150) 2020-09-14

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[13] A1
[51] **Int.Cl. B62D 21/02 (2006.01) B62D 21/09 (2006.01) B62D 21/12 (2006.01)**
[25] EN
[54] **FRAME CROSS MEMBER FOR BATTERY ELECTRIC VEHICLE**
[54] **ELEMENT TRANSVERSAL DE CHASSIS POUR UN VEHICULE ELECTRIQUE A BATTERIE**
[72] COLLIGNON, PATRICK, US
[72] COLLIGNON, MAXELL, US
[71] TROVA COMMERCIAL VEHICLES INC, US
[85] 2023-03-14
[86] 2021-09-13 (PCT/US2021/049998)
[87] (WO2022/060648)
[30] US (63/079,731) 2020-09-17

[21] **3,192,655**
[13] A1
[51] **Int.Cl. B21D 17/04 (2006.01) B21D 15/06 (2006.01)**
[25] EN
[54] **PIPE GROOVING DEVICE**
[54] **DISPOSITIF DE RAINURAGE DE TUYAU**
[72] DOLE, DOUGLAS R., US
[71] VICTAULIC COMPANY, US
[85] 2023-03-14
[86] 2021-09-07 (PCT/US2021/049222)
[87] (WO2022/066401)
[30] US (17/030,418) 2020-09-24

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[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/48 (2006.01) A61K 9/70 (2006.01)**
[25] EN
[54] **ORAL DRUG DELIVERY DEVICE WITH EXPANDING BAND**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT PAR VOIE ORALE AVEC BANDE D'EXPANSION**
[72] HASSENPFLUG, ERIC GUSTIN, US
[72] DUONG, ANTHONY DAVID, US
[72] EDWARDS, ERIK WILLIAM, US
[72] FORTNER, BRIAN R., US
[72] HOOKS, LARRY KEITH JR., US
[72] HUCKABY, STEVEN, US
[72] PETREL, TREVOR ALAN, US
[72] CLARK, SARAH LOUISE, US
[71] ELI LILLY AND COMPANY, US
[85] 2023-03-14
[86] 2021-09-15 (PCT/US2021/050434)
[87] (WO2022/060820)
[30] US (63/079,005) 2020-09-16

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[13] A1
[51] **Int.Cl. A61F 13/00 (2006.01) A61K 33/18 (2006.01) A61M 35/00 (2006.01) A61P 17/02 (2006.01)**
[25] EN
[54] **CONTACTLESS WOUND TREATMENT BARRIER AND METHOD OF CONTACTLESS WOUND TREATMENT**
[54] **BARRIERE DE TRAITEMENT DE PLAIE SANS CONTACT ET PROCEDE DE TRAITEMENT DE PLAIE SANS CONTACT**
[72] HACES, ALBERTO, US
[71] HACES, ALBERTO, US
[85] 2023-03-14
[86] 2021-09-09 (PCT/US2021/049726)
[87] (WO2022/066425)
[30] US (63/082,465) 2020-09-23
[30] US (17/339,879) 2021-06-04

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-HLA-DQ2.5 ANTIBODY AND ITS USE FOR THE TREATMENT OF CELIAC DISEASE**
[54] **ANTICORPS ANTI-HLA-DQ2.5 ET SON UTILISATION POUR LE TRAITEMENT DE LA MALADIE C?LIAQUE**
[72] IKAWA, YURI, SG
[72] OKURA, YUU, JP
[72] MIZOROKI, AKIHIKO, JP
[71] CHUGAI SEIYAKU KABUSHIKI-KAISHA, JP
[85] 2023-03-14
[86] 2021-09-17 (PCT/JP2021/034240)
[87] (WO2022/059766)
[30] JP (2020-157873) 2020-09-18

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[13] A1
[51] **Int.Cl. B01J 19/00 (2006.01) B01J 19/08 (2006.01) B01J 19/12 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR INDUCTIVELY HEATING MICRO- AND MESO-CHANNEL PROCESS SYSTEMS**
[54] **PROCEDE ET APPAREIL DE CHAUFFE PAR INDUCTION DE SYSTEMES DE TRAITEMENT DE MICRO- ET MESO-CANAUX**
[72] WEGENG, ROBERT S., US
[72] WALTERS, DENNIS, US
[71] STARS TECHNOLOGY CORPORATION, US
[85] 2023-03-14
[86] 2021-09-16 (PCT/US2021/050756)
[87] (WO2022/061041)
[30] US (63/079,420) 2020-09-16
[30] US (63/140,745) 2021-01-22

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[13] A1
[51] **Int.Cl. C08B 1/00 (2006.01) C08H 8/00 (2010.01) C08B 7/00 (2006.01) C08B 37/14 (2006.01) D21C 1/00 (2006.01) D21C 3/04 (2006.01) D21C 3/20 (2006.01) D21C 3/22 (2006.01) D21C 3/26 (2006.01)**
[25] EN
[54] **PROCESSES FOR REDUCING CHEMICAL USE AND EQUIPMENT CORROSION IN BIOMASS CONVERSION TO SUGARS, BIOCHEMICALS, BIOFUELS, AND/OR BIOMATERIALS**
[54] **PROCESSUS DE DIMINUTION D'UTILISATION DE PRODUIT CHIMIQUE ET DE CORROSION D'EQUIPEMENT DANS LA CONVERSION DE BIOMASSE EN SUCRES, PRODUITS BIOCHIMIQUES, BIOCOMBUSTIBLES ET/OU EN BIOMATERIAU**
[72] ZEBROSKI, RYAN, US
[71] GRANBIO INTELLECTUAL PROPERTY HOLDINGS, LLC, US
[85] 2023-03-14
[86] 2021-12-11 (PCT/US2021/062984)
[87] (WO2022/082121)

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[13] A1
[51] **Int.Cl. C01B 21/064 (2006.01) B02C 17/06 (2006.01) B02C 17/08 (2006.01) B02C 17/10 (2006.01) B02C 17/20 (2006.01)**
[25] EN
[54] **PRODUCTION OF BORON NITRIDE NANOSHEETS**
[54] **PRODUCTION DE NANOFEUILLES DE NITRURE DE BORE**
[72] LI, LUHUA, AU
[71] DEAKIN UNIVERSITY, AU
[85] 2023-03-14
[86] 2021-09-02 (PCT/AU2021/051016)
[87] (WO2022/056580)
[30] AU (2020903381) 2020-09-21

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[13] A1
[51] **Int.Cl. G06Q 30/02 (2023.01)**
[25] EN
[54] **AERIAL BILLBOARD**
[54] **PANNEAU D'AFFICHAGE AERIEN**
[72] TA, PETER, US
[72] MALISZEWSKI, GERALD, US
[71] PRODUCTIVE APPLICATION SOLUTIONS INC., US
[85] 2023-03-14
[86] 2021-04-09 (PCT/US2021/026525)
[87] (WO2022/060416)
[30] US (17/023,546) 2020-09-17

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[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 17/12 (2006.01) A61G 11/00 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **CHAMBER ASSEMBLY FOR PREMATURE FETUS**
[54] **ENSEMBLE CHAMBRE POUR F?TUS PREMATURE**
[72] FLAKE, ALAN W., US
[72] DAVEY, MARCUS GRAEME, US
[72] MARTIN, JOSHUA, US
[72] ZITNICK, DANA, US
[72] BROWN, SPENCER, US
[72] GAIDOS, DUSTIN, US
[72] GORDON, JOSEPH, US
[71] THE CHILDREN'S HOSPITAL OF PHILADELPHIA, US
[85] 2023-03-14
[86] 2021-09-15 (PCT/US2021/050386)
[87] (WO2022/060783)
[30] US (63/078,572) 2020-09-15

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[13] A1
[51] **Int.Cl. G01N 30/00 (2006.01)**
[25] EN
[54] **METHODS FOR DETERMINING THE DENSITY OF POLYMER PARTICLES FOR QUALITY CONTROL MATERIALS USING SPLIT FLOW THIN (SPLITT) CELL FRACTIONATION PRINCIPLE AND FRACTIONATION CELL FOR CARRYING OUT THE METHODS**
[54] **PROCEDES DESTINES A DETERMINER LA DENSITE DE PARTICULES POLYMERES POUR DES MATERIAUX DE CONTROLE DE QUALITE UTILISANT LE PRINCIPE DE FRACTIONNEMENT D'ECOULEMENT PAR DIVISION SUR CELLULE MINCE (SPLITT) ET CELLULE DE FRACTIONNEMENT DESTINEE A METTRE EN ?UVRE LES PROCEDES**
[72] REGHU, ARAVIND, US
[72] LIN, JUI MING, US
[72] RUSSELL, JAMES, US
[72] HAMMOND, JEREMY, US
[71] IDEXX LABORATORIES, INC., US
[85] 2023-03-14
[86] 2021-09-21 (PCT/US2021/051271)
[87] (WO2022/061286)
[30] US (63/081,029) 2020-09-21

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[13] A1
[51] **Int.Cl. G06Q 30/02 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROMOTING USER ENGAGEMENT**
[54] **SYSTEME ET PROCEDE DE PROMOTION D'ENGAGEMENT UTILISATEUR**
[72] SWARTZ, RYAN, US
[72] VON SCHOENBORN, DAMIAN, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2023-03-14
[86] 2021-09-17 (PCT/US2021/050782)
[87] (WO2022/061056)
[30] US (17/023,638) 2020-09-17

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[13] A1
[51] **Int.Cl. A61K 31/454 (2006.01)**
[25] EN
[54] **USE OF SPHINGOSINE-1-PHOSPHATE RECEPTOR AGONIST**
[54] **UTILISATION D'UN AGONISTE D'UN RECEPTEUR DE LA SPHINGOSINE-1-PHOSPHATE**
[72] KIM, KI CHAN, KR
[72] KIM, TAE HUN, KR
[71] LG CHEM, LTD., KR
[85] 2023-03-14
[86] 2021-09-27 (PCT/KR2021/013097)
[87] (WO2022/065939)
[30] KR (10-2020-0125583) 2020-09-28

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[13] A1
[51] **Int.Cl. G02F 1/167 (2019.01)**
[25] EN
[54] **DRIVING SEQUENCES TO REMOVE PRIOR STATE INFORMATION FROM COLOR ELECTROPHORETIC DISPLAYS**
[54] **SEQUENCES DE COMMANDE POUR ELIMINER DES INFORMATIONS D'ETAT ANTERIEUR D'AFFICHAGES ELECTROPHORETIQUES COULEUR**
[72] PAYKIN, IRINA, US
[72] TELFER, STEPHEN J., US
[72] CROUNSE, KENNETH R., US
[71] E INK CORPORATION, US
[85] 2023-03-14
[86] 2021-10-29 (PCT/US2021/057335)
[87] (WO2022/094264)
[30] US (63/108,713) 2020-11-02

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[13] A1
[51] **Int.Cl. B64G 1/10 (2006.01) H04W 52/02 (2009.01) B64G 1/42 (2006.01) H04B 7/185 (2006.01)**
[25] EN
[54] **MODULATING SATELLITE CAPACITY**
[54] **MODULATION DE LA CAPACITE D'UN SATELLITE**
[72] BUER, KENNETH V., US
[71] VIASAT INC., US
[85] 2023-03-14
[86] 2020-09-23 (PCT/US2020/052341)
[87] (WO2022/066154)

[21] **3,192,709**
[13] A1
[51] **Int.Cl. A61L 9/20 (2006.01)**
[25] EN
[54] **INTEGRATED AIR SANITIZER AND SURFACE DISINFECTOR**
[54] **ASSAINISSEUR D'AIR INTEGRE ET APPAREIL DE DESINFECTION DE SURFACE**
[72] KROSNEY, MARK D., US
[72] KHOURY, AMIN J., US
[71] MOLEKULE GROUP, INC., US
[85] 2023-03-14
[86] 2021-09-14 (PCT/US2021/050342)
[87] (WO2022/056498)
[30] US (63/078,082) 2020-09-14
[30] US (17/474,598) 2021-09-14

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[13] A1
[51] **Int.Cl. C08G 61/08 (2006.01) C07C 1/20 (2006.01) C08F 220/20 (2006.01) C07C 67/14 (2006.01) C07C 67/343 (2006.01) C08K 3/36 (2006.01) F16B 13/14 (2006.01)**
[25] EN
[54] **DUAL CURE SYSTEM FOR THE CHEMICAL FASTENING OF AN ANCHORING MEANS IN A BOREHOLE**
[54] **SYSTEME A DOUBLE DURCISSEMENT POUR LA FIXATION CHIMIQUE DE MOYENS D'ANCRAGE DANS UN TROU DE FORAGE**
[72] PFEIL, ARMIN, DE
[72] SLUGOVC, CHRISTIAN, AT
[72] WAPPL, CHRISTINA, AT
[71] HILTI AKTIENGESELLSCHAFT, LI
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[54] **COMPOSITIONS AND METHODS OF MANUFACTURING AMPHIPHILIC BLOCK COPOLYMERS THAT FORM NANOPARTICLES IN SITU**
[54] **COMPOSITIONS ET PROCEDES DE FABRICATION DE COPOLYMERES SEQUENCES AMPHIPHILES QUI FORMENT DES NANOPARTICULES IN SITU**
[72] LYNN, GEOFFREY MARTIN, US
[72] WILSON, DAVID ROBERT, US
[72] WANG, ELLEN, US
[72] FERGIE, KYLE JAMES, US
[72] WOLDRICHOVA, LUCIE, CZ
[72] ANDROVIC, LADISLAV, CZ
[72] LAGA, RICHARD, CZ
[71] VACCITECH NORTH AMERICA, INC., US
[71] INSTITUTE OF MACROMOLECULAR CHEMISTRY, CZ
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[54] **ANODE FOR ALKALINE WATER ELECTROLYSIS AND METHOD FOR PRODUCING SAME**
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[72] UCHIMOTO, YOSHIHARU, JP
[72] UCHIYAMA, TOMOKI, JP
[72] MITSUSHIMA, SHIGENORI, JP
[72] KURODA, YOSHIYUKI, JP
[72] NAGASAWA, KENSAKU, JP
[72] NISHIKI, YOSHINORI, JP
[71] KYOTO UNIVERSITY, JP
[71] NATIONAL UNIVERSITY CORPORATION YOKOHAMA NATIONAL UNIVERSITY, JP
[71] DE NORA PERMELEC LTD, JP
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[54] **METHOD AND PROCESSING LINE FOR MANUFACTURING A STATOR FOR ELECTRIC MOTORS**
[54] **PROCEDE ET LIGNE DE TRAITEMENT POUR LA FABRICATION D'UN STATOR POUR MOTEURS ELECTRIQUES**
[72] PARATI, GIAN BATTISTA, IT
[71] MARSILLI S.P.A., IT
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[54] **CLEANING CONTROL METHOD AND DEVICE, CLEANING ROBOT AND STORAGE MEDIUM**
[54] **PROCEDE ET DISPOSITIF DE COMMANDE DE NETTOYAGE, ROBOT DE NETTOYAGE ET SUPPORT D'ENREGISTREMENT**
[72] WANG, ZHENXU, CN
[72] AI, YU, CN
[71] YUNJING INTELLIGENCE (SHENZHEN) CO., LTD., CN
[71] YUNJING INTELLIGENCE TECHNOLOGY (DONGGUAN) CO., LTD., CN
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[54] **PROBIOTIC COMPOSITIONS FOR THE TREATMENT OF ACNE**
[54] **COMPOSITIONS PROBIOTIQUES POUR LE TRAITEMENT DE L'ACNE**
[72] NAVARRO LOPEZ, VICENTE, ES
[72] NAVARRO MORATALLA, LAURA, ES
[71] BIONOU RESEARCH S.L., ES
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[54] **DEVICES AND METHODS FOR LOW LATENCY ORAL AUTHENTICATION**
[54] **DISPOSITIFS ET PROCEDES D'AUTHENTIFICATION ORALE A FAIBLE LATENCE**
[72] DAVIDSON, PERRY, IL
[72] HAREL, OREN, IL
[72] ROVNIAGIN, YAKOV YURY, IL
[72] GUR, HAREL, IL
[72] AVERBUCH, OR, IL
[72] LANDA, SHAY, IL
[71] SYQE MEDICAL LTD., IL
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[25] EN
[54] **FUNCTIONALLY GRADIENT ALUMINUM ALLOY PRODUCTS AND METHODS OF MAKING**
[54] **PRODUITS EN ALLIAGE D'ALUMINIUM A GRADIENT FONCTIONNEL ET LEURS PROCEDES DE FABRICATION**
[72] WAGSTAFF, SAMUEL ROBERT, US
[72] HEGADEKATTE, VISHWANATH, US
[72] PARDESHI, RAVINDRA TARACHAND, US
[72] SUNDARAM, KUMAR, US
[72] SEN, FATIH GURCAG, US
[71] NOVELIS INC., US
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[54] **METHODS OF IDENTIFYING PROTEIN BINDING SITES ON RNA**
[54] **PROCEDE D'IDENTIFICATION DE SITES DE LIAISON A DES PROTEINES SUR L'ARN**
[72] YEO, EUGENE, US
[72] CORLEY, MEREDITH, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
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[54] **ENDOPROTHESE A CARACTERISTIQUES ANTI-MIGRATION**
[72] FOLAN, MARTYN G., IE
[72] GILMARTIN, GARY, IE
[71] BOSTON SCIENTIFIC SCIMED, INC., US
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[25] EN
[54] **MANIFOLD COMPATIBLE ELECTROLYTIC CELL (EO CELL) WITH COPLANAR FLUIDIC AND ELECTRICAL CONNECTION SCHEME**
[54] **CELLULE ELECTROLYTIQUE (CELLULE A OZONE ELECTROLYTIQUE (EO)) COMPATIBLE AVEC UN COLLECTEUR, AYANT UN SCHEMA DE CONNEXION FLUIDIQUE ET ELECTRIQUE COPLANAIRE**
[72] GUARAGNO, KENNETH, US
[72] HEWETT, CARL, US
[71] DENTSPLY SIRONA INC., US
[85] 2023-03-13
[86] 2021-10-01 (PCT/US2021/053066)
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[54] **RAILWAY TRUCK ASSEMBLY HAVING COMPRESSIBLE SIDE BEARINGS**
[54] **ENSEMBLE BOGIE DE CHEMIN DE FER AYANT DES PALIERS LATERAUX COMPRESSIBLES**
[72] HARRIS, ZACHARY B., US
[71] AMSTED RAIL COMPANY, INC., US
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[54] **METHOD FOR CALIBRATION OF TRANSCUTANEOUS NERVE STIMULATOR**
[54] **PROCEDE D'ETALONNAGE D'UN STIMULATEUR DE NERF TRANSCUTANE**
[72] BRANNON, AMI, US
[72] FALK, KERMIT, US
[72] MANOPOLI, VINCENT, US
[71] NEUVANA, LLC, US
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[25] EN
[54] **GENERATION OF CD4+ EFFECTOR AND REGULATORY T CELLS FROM HUMAN PLURIPOTENT STEM CELLS**
[54] **GENERATION DE LYMPHOCYTES T EFFECTEURS ET REGULATEURS CD4+ A PARTIR DE CELLULES SOUCHES PLURIPOTENTES HUMAINES**
[72] FONG, HELEN, US
[72] CONWAY, ANTHONY, US
[72] MENDEL, MATTHEW C., US
[71] SANGAMO THERAPEUTICS, INC., US
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[54] **BIODEGRADABLE DELIVERY PARTICLES**
[54] **PARTICULES D'ADMINISTRATION BIODEGRADABLES**
[72] PRIETO, SUSANA FERNANDEZ, BE
[72] EYKENS, VALERIE FRANCINE HANS, BE
[72] VANDERVEKEN, WALTER FRANCISCUS JOANNA, BE
[72] PEZZO, RITA DEL, BE
[72] SMETS, JOHAN, BE
[72] FENG, LINSHENG, US
[72] BARDSLEY, TRAVIS IAN, US
[72] CHAKAR, FADI SELIM, US
[72] BOBNOCK, ROBERT STANLEY, US
[71] ENCAPSYS, LLC, US
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[25] EN
[54] **CONTROLLING COLOR TEMPERATURE AND LUMINANCE IN LINEAR LED FIXTURES**
[54] **REGULATION DE LA TEMPERATURE DE COULEUR ET DE LA LUMINANCE DANS DES APPAREILS A DEL LINEAIRES**
[72] DALLEPEZZE, PETER ANGELO, US
[72] SVENDSEN, ANDREW MICHAEL, US
[71] AGS LIGHTING MANAGEMENT, LLC, US
[85] 2023-03-13
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[25] EN
[54] **LOOP SLURRY REACTOR COOLING PROCESSES AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES DE REFROIDISSEMENT DE REACTEUR A SUSPENSION A BOUCLE**
[72] KHANKAL, REZA, US
[72] HEIN, JAMES E., US
[72] GUPTA, ANURAG, US
[72] MANCILLAS, ENRIQUE J., US
[72] ODI, TIMOTHY O., US
[71] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
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[54] **DATA PROCESSING SYSTEMS INCLUDING OPTICAL COMMUNICATION MODULES**
[54] **SYSTEMES DE TRAITEMENT DE DONNEES COMPRENANT DES MODULES DE COMMUNICATION OPTIQUE**
[72] WINZER, PETER JOHANNES, US
[71] NUBIS COMMUNICATIONS INC., US
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[30] US (PCT/US2021/022730) 2021-03-17
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[30] US (63/223,685) 2021-07-20
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[25] EN
[54] **METHODS OF TREATING AN INDIVIDUAL THAT HAS FAILED AN ANTI-PD-1/ANTI-PD-L1 THERAPY**
[54] **METHODES DE TRAITEMENT D'UN INDIVIDU POUR LEQUEL UNE THERAPIE ANTI-PD-1/ANTI-PD-L1 A ECHOUE**
[72] GAZZANIGA, FRANCESCA S., US
[72] PARK, JOON SEOK, US
[72] SHARPE, ARLENE H., US
[72] KASPER, DENNIS, US
[72] FREEMAN, GORDON J., US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
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[30] US (63/079,245) 2020-09-16
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[54] **INHIBITION OF ENDOTHELIAL ETS FAMILY TRANSCRIPTION FACTORS PROMOTES FLOW-DEPENDENT OCULAR VESSEL REGRESSION**
[54] **INHIBITION DE FACTEURS DE TRANSCRIPTION DE LA FAMILLE ETS DES ENDOTHELIALES FAVORISANT LA REGRESSION DES VAISSEAUX OCULAIRES DEPENDANT DU FLUX**
[72] SCHAFER, CHRISTOPHER, US
[72] GRIFFIN, COURTNEY, US
[71] OKLAHOMA MEDICAL RESEARCH FOUNDATION, US
[85] 2023-03-13
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[25] EN
[54] **AAV-MEDIATED HOMOLOGY-INDEPENDENT TARGETED INTEGRATION GENE EDITING FOR CORRECTION OF DIVERSE DMD MUTATIONS IN PATIENTS WITH MUSCULAR DYSTROPHY**
[54] **EDITION DE GENE D'INTEGRATION CIBLEE INDEPENDANTE DE L'HOMOLOGIE MEDIEE PAR VAA POUR LA CORRECTION DE DIVERSES MUTATIONS DMD CHEZ DES PATIENTS ATTEINTS D'UNE DYSTROPHIE MUSCULAIRE**
[72] FLANIGAN, KEVIN, US
[72] STEPHENSON, ANTHONY AARON, US
[72] HAVENS, JULIAN, US
[71] RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, US
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[86] 2021-09-15 (PCT/US2021/050461)
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[51] **Int.Cl. C02F 1/46 (2006.01) C02F 1/00 (2006.01) C02F 1/44 (2006.01) C25B 1/00 (2021.01) C25B 1/04 (2021.01)**
[25] EN
[54] **HYDROXY GAS GENERATOR**
[54] **GENERATEUR D'OXYHYDROGENE**
[72] KESLER, KRIS, US
[72] HARKEY, DOUGLAS LEE, US
[71] MATTUR HOLDINGS, INC., US
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[51] **Int.Cl. B65D 6/18 (2006.01) B65D 25/00 (2006.01)**
[25] EN
[54] **CRATE WITH RETRACTABLE WALL**
[54] **CAISSE A PAROI RETRACTABLE**
[72] APPS, WILLIAM P., US
[72] HASSELL, JON P., US
[71] REHRIG PACIFIC COMPANY, US
[85] 2023-03-13
[86] 2021-09-14 (PCT/US2021/050264)
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[30] US (63/077,929) 2020-09-14
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[54] **PRE-INSULATED BLOCK**
[54] **BLOC PRE-ISOLE**
[72] LEAHY, CHARLES H., US
[71] LEAHY, CHARLES H., US
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[25] EN
[54] **METHODS, PROCESSES AND SYSTEMS FOR THE PRODUCTION OF HYDROGEN FROM WASTE, BIOGENIC WASTE AND BIOMASS**
[54] **PROCEDES, PROCESSUS ET SYSTEMES POUR LA PRODUCTION D'HYDROGENE A PARTIR DE DECHETS, DE DECHETS BIOGENES ET DE BIOMASSE**
[72] DO, ROBERT T., US
[72] MOTYCKA, SYLVAIN ANDRE LUC, US
[71] SG US HOLDINGS, LLC, US
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[86] 2021-09-14 (PCT/US2021/050244)
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[25] EN
[54] **POLYETHERAMINE SALTS AND THEIR USE AS CORROSION INHIBITORS AND FRICTION REDUCERS**
[54] **SELS DE POLYETHERAMINE ET LEUR UTILISATION EN TANT QU'INHIBITEURS DE CORROSION ET REDUCTEURS DE FROTTEMENT**
[72] ZHAO, HAIBO, US
[71] HUNTSMAN PETROCHEMICAL LLC, US
[85] 2023-03-13
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[51] **Int.Cl. G02C 7/02 (2006.01) G02B 1/10 (2015.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MAKING AN OPTICAL FUNCTIONAL FILM**
[54] **PROCEDES ET SYSTEMES DE FABRICATION D'UN FILM OPTIQUE FONCTIONNEL**
[72] HSU, ROGER WEN YI, US
[71] HSU, ROGER WEN YI, US
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[30] US (17/019,243) 2020-09-12

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[51] **Int.Cl. B23K 13/02 (2006.01) B29C 65/36 (2006.01) H05B 6/06 (2006.01)**
[25] EN
[54] **INDUCTIVE WELDING OF WORKPIECES**
[54] **SOUDAGE PAR INDUCTION DE PIECES USINEES**
[72] FROGNER, KENNETH, SE
[71] COREBON AB, SE
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[86] 2021-09-14 (PCT/EP2021/075250)
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[51] **Int.Cl. B01D 53/14 (2006.01) C02F 1/68 (2006.01) C10G 19/02 (2006.01) C10G 21/16 (2006.01) C10G 29/20 (2006.01) C10G 29/22 (2006.01) C10L 3/10 (2006.01)**
[25] EN
[54] **NITROGEN-FREE HYDROGEN SULPHIDE AND MERCAPTANS SCAVENGERS**
[54] **PIEGEURS DE SULFURE D'HYDROGENE EXEMPTS D'AZOTE ET DE MERCAPTANS**
[72] TORT, FREDERIC, FR
[72] MONDKAR, HEMANT SURENDRA, IN
[72] PERUMALSAMY, JAYACHANDRAN, IN
[71] TOTALENERGIES ONETECH, FR
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[25] EN
[54] **DRY FOAM COMPRISING AGAR-AGAR**
[54] **MOUSSE SECHE COMPRENANT DE L'AGAR-AGAR**
[72] VIDAL, VINCENT, FR
[72] HAUMONT, RAPHAEL, FR
[72] MARX, THIERRY, FR
[72] GUILLET, BENJAMIN, FR
[71] UNIVERSITE D'AIX-MARSEILLE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS -, FR
[71] ASSISTANCE PUBLIQUE HOPITAUX DE MARSEILLE, FR
[71] TM4, FR
[71] UNIVERSITE PARIS-SACLAY, FR
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[25] EN
[54] **MAMMALIAN CELL LINES WITH GENE KNOCKOUT**
[54] **LIGNEES CELLULAIRES DE MAMMIFERE AVEC INACTIVATION DE GENE**
[72] AUSLAENDER, SIMON, DE
[72] BAUER, NIELS, DE
[72] OSWALD, BENEDIKT, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2023-03-13
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[25] EN
[54] **SHEET MATERIAL PROCESSING UNIT AND METHODS FOR ASSESSING AN ALIGNMENT**
[54] **UNITE DE TRAITEMENT DE MATERIAU EN FEUILLE ET PROCEDES D'EVALUATION D'UN ALIGNEMENT**
[72] PILLOUD, FRANCIS, CH
[72] HOFMANN, THOMAS, CH
[72] FAUCONNEAU, OLIVIER, CH
[71] BOBST MEX SA, CH
[85] 2023-03-13
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[51] **Int.Cl. C12Q 1/6813 (2018.01) C12Q 1/6841 (2018.01)**
[25] EN
[54] **METHOD FOR NUCLEIC ACID DETECTION BY OLIGO HYBRIDIZATION AND PCR-BASED AMPLIFICATION**
[54] **PROCEDE DESTINE A LA DETECTION D'ACIDE NUCLEIQUE PAR HYBRIDATION DES OLIGOS ET AMPLIFICATION BASEE SUR LA PCR**
[72] POMBO, ANA, DE
[72] SPARKS, THOMAS, DE
[71] MAX-DELBRUCK-CENTRUM FUR MOLEKULARE MEDIZIN IN DER HELMHOLTZ-GEMEINSCHAFT, DE
[85] 2023-03-13
[86] 2021-10-22 (PCT/EP2021/079393)
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[51] **Int.Cl. A61F 7/00 (2006.01) A61F 7/02 (2006.01)**
[25] EN
[54] **APPARATUS FOR THERMAL THERAPY TREATMENT OF A SELECTED REGION OF THE BODY OF A HUMAN OR OF AN ANIMAL AND METHOD OF OPERATING SAID APPARATUS**
[54] **APPAREIL POUR LE TRAITEMENT PAR THERAPIE THERMIQUE D'UNE REGION SELECTIONNEE DU CORPS D'UN ETRE HUMAIN OU D'UN ANIMAL ET PROCEDE DE FONCTIONNEMENT DUDIT APPAREIL**
[72] STEGMANN, CHRISTIAN, DE
[71] HILOTHERM HOLDING AG, CH
[85] 2023-03-13
[86] 2021-11-11 (PCT/EP2021/081335)
[87] (WO2022/101320)
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[25] EN
[54] **ELECTROSURGICAL DEVICE & METHODS**
[54] **DISPOSITIF ET PROCEDES ELECTROCHIRURGICAUX**
[72] GODARA, NEIL, CA
[72] HARRISON, ROBERT, CA
[72] DASTJERDI, AHMAD, CA
[72] ESCOTO, ABELARDO, CA
[72] PENG, AARON, CA
[72] OLDHAM, ANDREW, CA
[72] HUYNH, JIMMY, CA
[72] LI, RYAN, CA
[71] BAYLIS MEDICAL TECHNOLOGIES INC., CA
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[25] EN
[54] **TRIAZINE DERIVATIVE HAVING VIRUS PROPAGATION INHIBITORY EFFECT, AND PHARMACEUTICAL COMPOSITION CONTAINING SAME**
[54] **DERIVE DE TRIAZINE AYANT UN EFFET INHIBITEUR SUR LA PROPAGATION DE VIRUS, ET COMPOSITION PHARMACEUTIQUE LE CONTENANT**
[72] TACHIBANA, YUKI, JP
[72] UEHARA, SHOTA, JP
[72] UNOH, YUTO, JP
[72] NAKAHARA, KENJI, JP
[72] TAODA, YOSHIYUKI, JP
[72] YAMATSU, YUKIKO, JP
[72] ANDO, SHIGERU, JP
[72] SASAKI, MICHIHITO, JP
[71] SHIONOGI & CO., LTD., JP
[71] NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, JP
[85] 2023-03-13
[86] 2022-02-17 (PCT/JP2022/006496)
[87] (WO2022/138988)
[30] JP (2021-068672) 2021-04-14
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[54] **PLAYBACK TRANSITIONS**
[54] **TRANSITIONS DE LECTURE**
[72] JONES, DANIEL, XX
[72] BANNON, RICHARD, XX
[72] HARWOOD, JAKE, XX
[72] HERBST, JONATHAN, XX
[72] SIA, HENRY, XX
[71] SONOS, INC., US
[85] 2023-04-11
[86] 2021-08-31 (PCT/US2021/048380)
[87] (WO2022/047361)
[30] US (63/072,888) 2020-08-31
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[25] EN
[54] **ARYLOXY ALKYLAMINES AS FUEL ADDITIVES FOR REDUCING INJECTOR FOULING IN DIRECT INJECTION SPARK IGNITION GASOLINE ENGINES**
[54] **ARYLOXY ALKYLAMINES UTILISEES COMME ADDITIFS DE CARBURANT POUR REDUIRE L'ENCRASSEMENT DES INJECTEURS DANS DES MOTEURS A ESSENCE, ALLUMAGE PAR ETINCELLE ET INJECTION DIRECTE**
[72] NG, MAN KIT, US
[72] CHERPECK, RICHARD EUGENE, US
[72] CHAN, CARRIE Y., US
[72] MENDENHALL, KRIS, US
[72] ICKES, ANDREW M., US
[72] FUENTES-AFFLICK, PETER A., US
[72] WANG, JUSTIN, US
[71] CHEVRON ORONITE COMPANY LLC, US
[71] CHEVRON U.S.A. INC., US
[85] 2023-03-13
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[54] **EXPANSION JOINT**
[54] **JOINT DE DILATATION**
[72] BROWN, MARK, GB
[72] JONES, CRAIG ALAN, GB
[71] RENTOKIL INITIAL 1927 PLC, GB
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[25] EN
[54] **MOBILE HYBRID RADIO RECEIVER SERVICE FOLLOWING SOURCE SELECTION**
[54] **SERVICE RECEPTEUR RADIO MOBILE HYBRIDE SUIVANT UNE SELECTION DE SOURCE**
[72] MUNDSCHENK, RUSS, US
[72] CHALMERS, HARVEY, US
[71] IBIQUITY DIGITAL CORPORATION, US
[85] 2023-03-14
[86] 2021-04-09 (PCT/US2021/026626)
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[30] US (63/079,463) 2020-09-16

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[51] **Int.Cl. H02J 3/00 (2006.01)**
[25] EN
[54] **CAPACITY FORECASTING**
[54] **PREVISION DE CAPACITES**
[72] HERTZ-SHARGEL, BENJAMIN, US
[72] MEHRA, VARUN, US
[72] DEBENEDITTIS, MICHAEL, US
[72] KONTAXIS, ANDREW, US
[71] ENERGYHUB, INC., US
[85] 2023-03-14
[86] 2021-09-03 (PCT/US2021/049093)
[87] (WO2022/055815)
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[51] **Int.Cl. H02J 3/00 (2006.01)**
[25] EN
[54] **AUTONOMOUS ELECTRICAL GRID MANAGEMENT**
[54] **GESTION DE RESEAU ELECTRIQUE AUTONOME**
[72] MEHRA, VARUN, US
[72] HERTZ-SHARGEL, BENJAMIN, US
[72] KONTAXIS, ANDREW, US
[72] CYBRIWSKY, WILLIAM, US
[71] ENERGYHUB, INC., US
[85] 2023-03-14
[86] 2021-09-03 (PCT/US2021/049097)
[87] (WO2022/066397)
[30] US (17/028,421) 2020-09-22
[30] US (17/028,445) 2020-09-22

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[13] A1
[51] **Int.Cl. B01D 15/18 (2006.01) B01D 15/38 (2006.01) C07K 1/36 (2006.01)**
[25] EN
[54] **PROCESS TECHNOLOGY FOR BIOLOGICAL PRODUCT MANUFACTURING AND DOWNSTREAM PURIFICATION**
[54] **TECHNOLOGIE DE PROCEDES POUR LA FABRICATION DE PRODUITS BIOLOGIQUES ET LA PURIFICATION EN AVAL**
[72] CRISCIONE, JASON, US
[72] ERSEN, ALI, US
[72] LINTON, JOHN R., US
[72] DATWANI, SAMMY S., US
[71] ENQUYST TECHNOLOGIES INC., US
[85] 2023-03-14
[86] 2021-09-14 (PCT/US2021/050274)
[87] (WO2022/056466)
[30] US (63/077,766) 2020-09-14
[30] US (63/154,108) 2021-02-26
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[51] **Int.Cl. B64C 39/06 (2006.01) B64C 1/10 (2006.01) B64C 1/26 (2006.01) B64C 3/10 (2006.01) B64C 29/00 (2006.01) B64C 39/08 (2006.01)**
[25] EN
[54] **AIRCRAFT STRUCTURE**
[54] **STRUCTURE D'AERONEF**
[72] MOORE, ANDREW DUDLEY, AU
[72] SWALLOW, ALFRED LEONARD, AU
[71] AMSL INNOVATIONS PTY LTD, AU
[85] 2023-03-14
[86] 2021-09-17 (PCT/AU2021/051078)
[87] (WO2022/056597)
[30] AU (2020903348) 2020-09-18

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[51] **Int.Cl. A43B 5/16 (2006.01) A43B 23/07 (2006.01)**
[25] EN
[54] **SKATE**
[54] **PATIN**
[72] FAUCHER, ALEXIS, CA
[72] LAPIERRE, PHILIPPE, CA
[72] CHAMPAGNE, ETIENNE, CA
[72] HUNG, AKY, TW
[71] SPORT MASKA INC., CA
[85] 2023-03-14
[86] 2021-09-15 (PCT/CA2021/051291)
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[30] US (63/078,656) 2020-09-15

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[51] **Int.Cl. C12Q 1/6806 (2018.01) C07D 417/12 (2006.01)**
[25] EN
[54] **METHOD FOR LABELING NUCLEIC ACID**
[54] **METHODE D'ETIQUETAGE D'ACIDE NUCLEIQUE**
[72] NAPPI, MANUEL, GB
[72] HOFER, ALEXANDRE, GB
[72] BALASUBRAMANIAN, SHANKAR, GB
[72] GAUNT, MATTHEW J., GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2023-03-14
[86] 2021-09-14 (PCT/EP2021/075252)
[87] (WO2022/053718)
[30] GB (2014404.4) 2020-09-14

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[51] **Int.Cl. G08B 13/196 (2006.01) G06N 5/04 (2023.01) H04N 7/00 (2011.01)**
[25] EN
[54] **ITEM MONITORING FOR DOORBELL CAMERAS**
[54] **SURVEILLANCE D'ELEMENTS POUR CAMERAS DE SONNETTES DE PORTES**
[72] QIAN, GANG, US
[72] BEACH, ALLISON, US
[72] TAHERI, SIMA, US
[72] BONDUGULA, SRAVANTHI, US
[72] LEE, SUNG CHUN, US
[72] RAMANATHAN, NARAYANAN, US
[71] OBJECTVIDEO LABS, LLC, US
[85] 2023-03-14
[86] 2021-09-16 (PCT/US2021/071481)
[87] (WO2022/061352)
[30] US (63/079,300) 2020-09-16

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[51] **Int.Cl. A61K 8/49 (2006.01) A61K 31/519 (2006.01) A61P 17/00 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **TOPICAL TREATMENT OF VITILIGO**
[54] **TRAITEMENT TOPIQUE DU VITILIGO**
[72] BUTLER, KATHLEEN, US
[72] LEE, JIM, US
[72] SUN, KANG, US
[72] KUO, FIONA, US
[72] HOWELL, MICHAEL, US
[71] INCYTE CORPORATION, US
[85] 2023-03-14
[86] 2021-09-16 (PCT/US2021/071479)
[87] (WO2022/061351)
[30] US (17/023,269) 2020-09-16

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[51] **Int.Cl. C08L 75/14 (2006.01) C05G 5/35 (2020.01) A01N 25/28 (2006.01) B01J 13/14 (2006.01) C08G 73/02 (2006.01) C08J 3/12 (2006.01)**
[25] EN
[54] **POLY ACRYLATE AND POLY(BETA-AMINO ESTER) CAPSULES WITH ENHANCED DEGRADABILITY**
[54] **CAPSULES DE POLY ACRYLATE ET DE POLY(BETA-ESTER) DOTEES D'UNE DEGRADABILITE AMELIOREE**
[72] FENG, LINSHENG, US
[71] ENCAPSYS, LLC, US
[85] 2023-03-14
[86] 2021-11-18 (PCT/US2021/059854)
[87] (WO2022/109112)
[30] US (63/116,116) 2020-11-19

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[51] **Int.Cl. A61F 2/16 (2006.01) A61F 2/02 (2006.01) A61F 2/14 (2006.01)**
[25] EN
[54] **SULCUS IMPLANTS AND METHODS OF USING THE SAME**
[54] **IMPLANTS DE SILLON ET LEURS METHODES D'UTILISATION**
[72] CABLE II, CRAIG ALAN, US
[72] KAHOOK, MALIK Y., US
[72] SUSSMAN, GLENN R., US
[72] DENNEWILL, JAMES R., US
[71] SPYGLASS PHARMA, INC., US
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE, US
[85] 2023-03-14
[86] 2021-10-28 (PCT/US2021/057104)
[87] (WO2022/094120)
[30] US (63/106,847) 2020-10-28
[30] US (63/106,849) 2020-10-28
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[51] **Int.Cl. B01L 3/00 (2006.01) C12M 1/00 (2006.01) C12M 1/34 (2006.01) C12M 3/00 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR SAMPLE PROCESSING**
[54] **DISPOSITIFS ET PROCEDES DE TRAITEMENT D'ECHANTILLONS**
[72] HUNG, JU-SUNG, US
[72] LINN, FELICIA, US
[72] ZAYAC, ANDREW, US
[71] COMBINATI INCORPORATED, US
[85] 2023-03-14
[86] 2021-09-27 (PCT/US2021/052206)
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[30] US (63/084,271) 2020-09-28

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[51] **Int.Cl. C22B 1/245 (2006.01) C22B 5/10 (2006.01) C22B 5/12 (2006.01)**
[25] EN
[54] **BIO-REDUCTION OF METAL ORES INTEGRATED WITH BIOMASS PYROLYSIS**
[54] **BIOREDUCTION DE MINERAIS METALLIQUES INTEGRES A LA PYROLYSE DE BIOMASSE**
[72] MENNELL, JAMES A., US
[72] DAUGAARD, DAREN, US
[72] SLACK, DUSTIN, US
[71] CARBON TECHNOLOGY HOLDINGS, LLC, US
[85] 2023-03-14
[86] 2021-09-25 (PCT/US2021/052101)
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[30] US (63/083,223) 2020-09-25

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[51] **Int.Cl. B01L 3/00 (2006.01)**
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[54] **TEMPERATURE-CONTROLLED FLUIDIC REACTION SYSTEM**
[54] **SYSTEME DE REACTIONS FLUIDIQUES A TEMPERATURE REGULEE**
[72] ROQUET, NATHANIEL, US
[72] MIHM, SEAN, US
[71] CATALOG TECHNOLOGIES, INC., US
[85] 2023-03-14
[86] 2021-09-21 (PCT/US2021/051301)
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[30] US (63/081,666) 2020-09-22

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[51] **Int.Cl. C07K 14/435 (2006.01) C12N 9/76 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS OF PROCESSING A SAMPLE FOR PEPTIDE MAPPING ANALYSIS**
[54] **PROCEDES DE TRAITEMENT D'UN ECHANTILLON POUR ANALYSE DE CARTOGRAPHIE PEPTIDIQUE**
[72] XIAO, GANG, US
[72] BONDARENKO, PAVEL, US
[72] SHI, LIUQING, US
[72] DILLON, THOMAS M., US
[72] REN, DA, US
[72] RICCI, MARGARET SPEED, US
[72] CUI, WEIDONG, US
[72] HARRAHY, JOHN JOSEPH, US
[72] PAWLOWSKI, JAKE, US
[72] DYKSTRA, ANDREW, US
[72] RIGGS, DYLAN, US
[71] AMGEN INC., US
[85] 2023-03-14
[86] 2021-09-17 (PCT/US2021/050842)
[87] (WO2022/061092)
[30] US (63/080,489) 2020-09-18
[30] US (63/236,996) 2021-08-25

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[51] **Int.Cl. H01M 10/48 (2006.01) G01R 31/382 (2019.01) H02J 7/00 (2006.01) H02J 7/02 (2016.01) H02J 7/04 (2006.01)**
[25] EN
[54] **THERMAL RUNAWAY DETECTION SYSTEMS FOR BATTERIES WITHIN ENCLOSURES AND METHODS OF USE THEREOF**
[54] **SYSTEMES DE DETECTION D'EMBALLEMENT THERMIQUE DESTINES A DES BATTERIES DANS DES BOITIERS ET PROCEDES D'UTILISATION CORRESPONDANTS**
[72] ENGLE, BRIAN ALLEN, US
[72] ROBERTS, NEIL, GB
[71] AMPHENOL THERMOMETRICS, INC., US
[85] 2023-03-14
[86] 2021-09-15 (PCT/US2021/050471)
[87] (WO2022/060845)
[30] US (17/021,711) 2020-09-15
[30] US (63/202,962) 2021-07-01

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[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **SINGLE DOMAIN ANTIBODIES AGAINST CD33**
[54] **ANTICORPS A DOMAINE UNIQUE ANTI-CD33**
[72] KASSIM, SADIK, US
[72] SCHERER, JULIAN, US
[71] VOR BIOPHARMA INC., US
[85] 2023-03-14
[86] 2021-09-14 (PCT/US2021/050341)
[87] (WO2022/056497)
[30] US (63/078,134) 2020-09-14

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[13] A1
[51] **Int.Cl. C04B 38/10 (2006.01) E04C 1/41 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A COMPOSITE INSULATING MINERAL CONSTRUCTION ELEMENT**
[54] **PROCEDE POUR LA PRODUCTION D'UN ELEMENT DE CONSTRUCTION MINERAL ISOLANT COMPOSITE**
[72] TINTILLIER, PATRICK, CH
[72] PEREZ, NICOLAS, CH
[72] SERRE, FLORENCE, CH
[71] HOLCIM TECHNOLOGY LTD, CH
[85] 2023-03-14
[86] 2021-09-17 (PCT/EP2021/075695)
[87] (WO2022/058544)
[30] EP (20306064.5) 2020-09-18

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[54] **COMPOUNDS AND METHODS FOR TREATING PAIN**
[54] **COMPOSES ET METHODES DE TRAITEMENT DE LA DOULEUR**
[72] WELSH, FRASER, GB
[72] CHESSELL, THARANI, GB
[72] TAN, KEITH, GB
[72] OSTENFELD, THOR, GB
[72] JENKINS, RICHARD, GB
[71] MEDIMMUNE LIMITED, GB
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[25] EN
[54] **SEALING GEOMETRY FOR A MOBILE POWER TOOL**
[54] **GEOMETRIE D'ETANCHEITE POUR UNE MACHINE-OUTIL MOBILE**
[72] KONDRATIUK, JENS, CH
[72] HUMMEL, DANIEL, CH
[71] HILTI AKTIENGESELLSCHAFT, LI
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[86] 2021-10-14 (PCT/EP2021/078455)
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[54] **MOBILE POWER TOOL HAVING AN AQUEOUS LUBRICANT, AND USE OF THE MOBILE POWER TOOL**
[54] **MACHINE-OUTIL MOBILE A LUBRIFIANT AQUEUX ET UTILISATION DE LA MACHINE-OUTIL MOBILE**
[72] KONDRATIUK, JENS, CH
[72] HUMMEL, DANIEL, CH
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2023-03-14
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[51] **Int.Cl. C07K 16/06 (2006.01) G01N 33/96 (2006.01)**
[25] EN
[54] **METHOD AND KIT FOR TESTING IMMUNOMODULATORY POTENCY OF IMMUNOGLOBULIN COMPOSITIONS, E.G., FOR TREATMENT OF COVID-19**
[54] **METHODE ET KIT D'ESSAI D'EFFICACITE IMMUNOMODULATRICE DE COMPOSITIONS D'IMMUNOGLOBULINES, PAR EXEMPLE POUR LE TRAITEMENT DE LA COVID-19**
[72] BOHLANDER, FABIAN, DE
[72] FAUST, STEFANIE, DE
[71] BIOTEST AG, DE
[85] 2023-03-14
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[30] EP (20208703.7) 2020-11-19

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[51] **Int.Cl. B65D 5/50 (2006.01)**
[25] EN
[54] **PACKAGING FOR HOLDING BOTTLES**
[54] **EMBALLAGE POUR CONTENIR DES BOUTEILLES**
[72] CENTOFANTI, ANTONIO, IT
[72] DI GHIONNO, MARCO, IT
[71] 3.7 S.R.L., IT
[85] 2023-03-14
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[25] EN
[54] **A DRIVE DEVICE FOR ROTATABLE OPERATION OF A DRILL BIT OF A DOWN-THE-HOLE HAMMER**
[54] **DISPOSITIF D'ENTRAINEMENT POUR LE FONCTIONNEMENT EN ROTATION D'UN FORET D'UN MARTEAU DE FOND DE TROU**
[72] HORMAN, MAGNUS, SE
[72] OHNSTROM, MARTIN, SE
[72] FRIDSELL, MAGNUS, SE
[72] EGERSTROM, FREDRIK, SE
[71] LKAB WASSARA AB, SE
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[25] EN
[54] **A METHOD OF PREPARING AN ANIMAL FOR SLAUGHTER**
[54] **PROCEDE DE PREPARATION D'UN ANIMAL POUR L'ABATTAGE**
[72] KIEZEBRINK, HARM, SE
[71] BALLOONX SA.R.L., LU
[85] 2023-03-14
[86] 2021-09-16 (PCT/SE2021/050889)
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[54] **ADJUSTABLE ROLL SIZER**
[54] **CALIBREUR A ROULEAUX REGLABLE**
[72] MURPHY, JAMES CLAUDE, US
[72] JUSTESEN, MICHAEL NEIL, US
[71] SOUTHERN FABRICATION WORKS, LLC, US
[85] 2023-04-12
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[25] EN
[54] **A PUNCH AND A DIE FOR STRETCHING BATTERY CASE BODY AND STRETCHING PROCESS THEREFOR**
[54] **POINCON ET MATRICE POUR ETIRER UN CORPS DE BOITE DE BATTERIE, ET PROCEDE D'ETIREMENT**
[72] AN, SHU, CN
[72] WANG, YANG, CN
[72] YANG, ZHIHUA, CN
[72] WANG, YIN, CN
[71] SUZHOU SLAC PRECISION EQUIPMENT CO., LTD, CN
[85] 2023-03-14
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[25] EN
[54] **SYSTEM AND METHOD FOR AIDING HEARING**
[54] **SYSTEME ET PROCEDE D'AIDE AUDITIVE**
[72] OLAH, LASLO, US
[72] SOKOLOVSKII, GRIGORII, US
[72] LOSEV, SERGEY, US
[72] SOKOLOVSKAYA, EKATERINA, US
[72] CZIFRA, PETER, US
[72] SEBESTYEN, GERGELY, US
[71] TEXAS INSTITUTE OF SCIENCE, INC., US
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[51] **Int.Cl. H04R 25/00 (2006.01) A61B 5/12 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AIDING HEARING**
[54] **SYSTEME ET PROCEDE D'ASSISTANCE AUDITIVE**
[72] OLAH, LASLO, US
[72] SOKOLOVSKII, GRIGORII, US
[72] LOSEV, SERGEY, US
[72] SOKOLOVSKAYA, EKATERINA, US
[71] TEXAS INSTITUTE OF SCIENCE, INC., US
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[25] EN
[54] **SILVER COMPOSITIONS AND METHODS FOR MAKING BIOCIDAL CURRENCY**
[54] **COMPOSITIONS D'ARGENT ET PROCEDES DE FABRICATION D'UNE MONNAIE BIOCIDE**
[72] GOTTHELF, PHILIP, US
[72] WAMSLEY, BRIAN L., US
[71] GOTTHELF, PHILIP, US
[71] WAMSLEY, BRIAN L., US
[85] 2023-03-15
[86] 2021-08-16 (PCT/US2021/046145)
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[30] US (63/066,421) 2020-08-17

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[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINING A MINIMUM NUMBER OF CELL LINE CLONES NECESSARY TO PRODUCE A PRODUCT HAVING A SET OF TARGET PRODUCT ATTRIBUTES**
[54] **PROCEDES ET SYSTEMES DE DETERMINATION D'UN NOMBRE MINIMAL DE CLONES DE LIGNEES CELLULAIRES NECESSAIRES POUR PRODUIRE UN PRODUIT AYANT UN ENSEMBLE D'ATTRIBUTS CIBLES DE PRODUIT**
[72] LE, HUONG THI NGOC, US
[72] TAT, JASMINE, US
[72] ZASADZINSKA, EWELINA, US
[71] AMGEN INC., US
[85] 2023-03-15
[86] 2021-09-09 (PCT/US2021/049562)
[87] (WO2022/066418)
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[25] EN
[54] **CATALYST MIXING DEVICE**
[54] **DISPOSITIF DE MELANGE DE CATALYSEUR**
[72] ZONG, HONGYUAN, CN
[72] LI, XIAOHONG, CN
[72] QI, GUOZHEN, CN
[72] JIN, YONGMING, CN
[72] GAO, PAN, CN
[72] WANG, YANXUE, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, CN
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[51] **Int.Cl. C07C 1/20 (2006.01) C07C 11/04 (2006.01) C07C 11/06 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING ETHYLENE PROPYLENE**
[54] **PROCEDE DE PREPARATION DE PROPYLENE-ETHYLENE**
[72] ZONG, HONGYUAN, CN
[72] LI, XIAOHONG, CN
[72] QI, GUOZHEN, CN
[72] WANG, HONGTAO, CN
[72] YU, ZHINAN, CN
[72] ZHENG, YIJUN, CN
[72] WANG, LI, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, CN
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[51] **Int.Cl. C08F 236/12 (2006.01) C08F 8/04 (2006.01)**
[25] EN
[54] **LIQUID HYDROGENATED NITRILE-BUTADIENE RUBBER, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **CAOUTCHOUC NITRILE-BUTADIENE HYDROGENE LIQUIDE, PROCEDE DE PREPARATION ASSOCIE ET UTILISATION ASSOCIEE**
[72] ZHAN, ZHENG-YUN JAMES, CN
[71] ZANNAN SCITECH CO., LTD., CN
[85] 2023-03-14
[86] 2021-09-16 (PCT/CN2021/118659)
[87] (WO2022/057848)
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[25] EN
[54] **MEDICAL SYRINGE WITH NEEDLE GUARD**
[54] **SERINGUE MEDICALE AVEC PROTECTION D'AIGUILLE**
[72] GALLMETZER, DIETRICH, IT
[71] TRENTA2 S.R.L., IT
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[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **IMAGE PROCESSING METHOD**
[54] **PROCEDE DE TRAITEMENT D'IMAGES**
[72] SEMENOV, ALEXANDER VYACHESLAVOVICH, GB
[71] CRODA INTERNATIONAL PLC, GB
[85] 2023-03-14
[86] 2021-09-03 (PCT/EP2021/074413)
[87] (WO2022/058184)
[30] GB (2014775.7) 2020-09-18

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[51] **Int.Cl. H04M 1/67 (2006.01) H04M 3/523 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING REMOTE CALL CENTER SERVICES**
[54] **SYSTEMES ET PROCEDES POUR FOURNIR DES SERVICES DE CENTRE D'APPELS A DISTANCE**
[72] SORRENTINO, PETER, CA
[71] 1125855 ALBERTA LIMITED, CA
[85] 2023-03-08
[86] 2021-09-09 (PCT/CA2021/051246)
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[51] **Int.Cl. B01D 24/46 (2006.01) C02F 1/28 (2006.01) C02F 1/42 (2006.01)**
[25] FR
[54] **WATER TREATMENT METHOD WITH RENEWAL OF THE ADSORBENT TO A TARGETED INTERMEDIATE AGE**
[54] **PROCEDE DE TRAITEMENT D'UNE EAU AVEC RENOUVELLEMENT DE L'ADSORBANT A UN AGE INTERMEDIAIRE CIBLE**
[72] BAUDIN, ISABELLE, FR
[72] DANEL, OLIVIER, FR
[72] JOVANOVIC, BASTIEN, FR
[71] SUEZ INTERNATIONAL, FR
[85] 2023-03-10
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[51] **Int.Cl. C02F 1/28 (2006.01)**
[25] FR
[54] **FLUID TREATMENT METHOD AND PLANT**
[54] **PROCEDE ET INSTALLATION DE TRAITEMENT DE FLUIDE**
[72] DELAIRE, MELANIE, FR
[72] TRICOTTET, LUDOVIC, FR
[71] SUEZ INTERNATIONAL, FR
[85] 2023-03-10
[86] 2021-09-16 (PCT/EP2021/075524)
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[25] EN
[54] **STARCH COMPOSITION FOR FOOD PRODUCTS AND METHOD FOR PRODUCING SAID STARCH COMPOSITION**
[54] **COMPOSITION D'AMIDON POUR PRODUITS ALIMENTAIRES ET PROCEDE DE PRODUCTION DE LADITE COMPOSITION D'AMIDON**
[72] SATO, SAIKA, JP
[72] KUBOTA, JUNPEI, JP
[72] YAMAGATA, KAI, JP
[72] HORIGANE, TOMOKI, JP
[72] YOSHIMURA, MINA, JP
[71] J-OIL MILLS, INC., JP
[85] 2023-03-14
[86] 2021-09-30 (PCT/JP2021/036130)
[87] (WO2022/075176)
[30] JP (2020-168214) 2020-10-05
[30] JP (2021-065143) 2021-04-07

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[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/444 (2006.01) A61K 31/47 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61P 3/00 (2006.01) A61P 19/02 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 401/06 (2006.01) C07D 403/06 (2006.01) C07D 403/12 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **HETEROAROMATIC COMPOUNDS AND USES THEREOF**
[54] **COMPOSES HETEROAROMATIQUES ET LEURS UTILISATIONS**
[72] SU, WEI-GUO, CN
[72] ZHANG, WEIHAN, CN
[72] YANG, HAIBIN, CN
[71] HUTCHISON MEDIPHARMA LIMITED, CN
[85] 2023-03-15
[86] 2021-09-17 (PCT/CN2021/119057)
[87] (WO2022/057895)
[30] CN (202010998486.8) 2020-09-21
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[51] **Int.Cl. A61M 5/28 (2006.01) A61M 5/31 (2006.01) B65D 81/32 (2006.01)**
[25] EN
[54] **DEFORMABLE PRE-PACKAGED DEVICE FOR INJECTING A LIQUID**
[54] **DISPOSITIF PRE-EMBALLE DEFORMABLE POUR L'INJECTION D'UN LIQUIDE**
[72] OROFINO, ERNESTO, IT
[71] OROFINO PHARMACEUTICALS GROUP SRL, IT
[85] 2023-03-14
[86] 2021-09-15 (PCT/IB2021/058406)
[87] (WO2022/058906)
[30] IT (102020000022168) 2020-09-21

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[51] **Int.Cl. A61K 47/68 (2017.01) A61K 47/65 (2017.01) A61K 31/4745 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTI-TUMOR COMPOUND AND PREPARATION METHOD AND USE THEREOF**
[54] **COMPOSE ANTITUMORAL, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] ZHANG, YU, CN
[72] ZHU, ZHONGYUAN, CN
[72] HUA, HAIQING, CN
[72] LI, BING, CN
[72] LI, JIAN, CN
[72] LIN, SHENGCHAO, CN
[72] LI, XI, CN
[72] SHEN, HONGXIA, CN
[71] DUALITY BIOLOGICS (SUZHOU) CO., LTD., CN
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[30] CN (202011061580.7) 2020-09-30

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[25] EN
[54] **GAS STORAGE RESERVOIR, ENERGY STORAGE DEVICE, AND CONTROL METHOD AND MOUNTING METHOD FOR GAS STORAGE RESERVOIR**
[54] **RESERVOIR DE STOCKAGE DE GAZ, DISPOSITIF DE STOCKAGE D'ENERGIE, PROCEDE DE COMMANDE ET PROCEDE DE MONTAGE POUR RESERVOIR DE STOCKAGE DE GAZ**
[72] WANG, QIN, CN
[72] XIE, YONGHUI, CN
[72] GUO, YONGLIANG, CN
[72] WANG, XIAOYONG, CN
[72] YANG, FENG, CN
[72] ZHANG, HUI, CN
[72] TANG, ZHIXIN, CN
[71] EXA ENERGY TECHNOLOGY (SHENZHEN) CO. LTD., CN
[85] 2023-03-15
[86] 2021-12-08 (PCT/CN2021/136477)
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[51] **Int.Cl. B44D 3/18 (2006.01) E04B 9/30 (2006.01) E04F 10/02 (2006.01)**
[25] EN
[54] **DYNAMIC CANVAS TENSIONING SYSTEM**
[54] **SYSTEME DE MISE SOUS TENSION DYNAMIQUE DE TOILE**
[72] COLPAERT, STIJN, BE
[72] DE FRENE, JOOST BENJAMIN RENAAT, BE
[72] VERVISCH, THOMAS BRECHT, BE
[72] LEMIEGRE, KRISTOF, BE
[72] ABEEL, BART, BE
[71] RENSON SUNPROTECTION SCREENS NV, BE
[85] 2023-03-14
[86] 2021-10-13 (PCT/IB2021/059405)
[87] (WO2022/079631)
[30] BE (2020/5717) 2020-10-14

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[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **DATA TRANSMISSION METHOD, COMMUNICATION APPARATUS, COMPUTER-READABLE STORAGE MEDIUM, AND CHIP**
[54] **PROCEDE DE TRANSMISSION DE DONNEES, APPAREIL DE COMMUNICATION, SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR ET PUCE**
[72] GAN, MING, CN
[72] HUANG, GUOGANG, CN
[72] LU, YUXIN, CN
[72] LI, YIQING, CN
[72] GUO, YUCHEN, CN
[72] LIU, CHENCHEN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-03-15
[86] 2022-05-20 (PCT/CN2022/094122)
[87] (WO2022/242749)
[30] CN (202110552404.1) 2021-05-20
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[30] CN (202110621403.8) 2021-06-03

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[25] EN
[54] **PYRIDO[2,3-D]PYRIMIDIN-4-AMINES AS SOS1 INHIBITORS**
[54] **PYRIDO[2,3-D]PYRIMIDIN-4-AMINES EN TANT QU'INHIBITEURS DE SOS1**
[72] GRAHAM, KEITH, DE
[72] BADER, BENJAMIN, DE
[72] SCHRODER, JENS, DE
[72] HILLIG, ROMAN, DE
[72] BRIEM, HANS, DE
[72] MORTIER, JEREMIE XAVIER G., DE
[72] PAPE, FELIX, DE
[72] GRESSIES, STEFFEN, DE
[72] STELLFELD, TIMO, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
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[25] EN
[54] **A BUCKET FOR HANDLING GROUND MATERIAL**
[54] **GODET DESTINE A LA MANIPULATION DE MATERIAUX DE SOL**
[72] HALL, JAMIE VINCENT CLARKE, AU
[71] AUSTIN ENGINEERING LIMITED, AU
[85] 2023-03-15
[86] 2021-09-17 (PCT/AU2021/051080)
[87] (WO2022/056599)
[30] AU (2020903358) 2020-09-18
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[25] EN
[54] **APPARATUS FOR THE MANUFACTURE OF A FILTER FOR DISPOSABLE CAPSULES FOR THE PREPARATION OF BEVERAGES**
[54] **APPAREIL POUR LA FABRICATION D'UN FILTRE POUR DES CAPSULES JETABLES POUR LA PREPARATION DE BOISSONS**
[72] SCRIVANI, MASSIMO, IT
[71] RYCHIGER AG, CH
[85] 2023-03-15
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[30] CH (01153/20) 2020-09-15
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[54] **DISCONNECTION AGENTS**
[54] **AGENTS DE DECONNEXION**
[72] GRAINGER, JOHN DAVID, GB
[71] DC EUROPA LIMITED, GB
[85] 2023-03-15
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[54] **MODULAR THERMOACOUSTIC ENERGY CONVERTER**
[54] **CONVERTISSEUR D'ENERGIE THERMOACOUSTIQUE MODULAIRE**
[72] STEINER, THOMAS WALTER, CA
[72] GOTTFRIED, KRISTJAN TOD, CA
[72] ELFERINK, MAARTEN JOHANNES HERMANUS, CA
[71] ETALIM INC., CA
[85] 2023-03-15
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[51] **Int.Cl. C07K 16/00 (2006.01) C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **GENERATION OF A HIGH PRODUCING RECOMBINANT CHINESE HAMSTER OVARY CELL LINE FOR THERAPEUTIC PROTEIN PRODUCTION**
[54] **GENERATION D'UNE LIGNEE DE CELLULES OVARIENNES RECOMBINEES DE HAMSTER CHINOIS A RENDEMENT ELEVE POUR LA PRODUCTION DE PROTEINES THERAPEUTIQUES**
[72] DUMAS, BRUNO LOUIS, FR
[72] LOUNIS, MOHAMMED NABIL, FR
[71] SANOFI, FR
[85] 2023-03-15
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[25] EN
[54] **HETEROARYL HETEROCYCLIC COMPOUNDS AND USES THEREOF**
[54] **COMPOSES HETEROCYCLIQUES HETEROARYLE ET LEURS UTILISATIONS**
[72] DAI, GUANGXIU, CN
[72] XIAO, KUN, CN
[71] HUTCHISON MEDIPHARMA LIMITED, CN
[85] 2023-03-15
[86] 2021-09-17 (PCT/CN2021/119056)
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[25] EN
[54] **APPARATUS AND METHOD FOR FILLING DISPOSABLE CAPSULES FOR THE PREPARATION OF BEVERAGES**
[54] **APPAREIL ET PROCEDE DE REMPLISSAGE DE CAPSULES JETABLES PERMETTANT LA PREPARATION DE BOISSONS**
[72] SCRIVANI, MASSIMO, IT
[71] RYCHIGER AG, CH
[85] 2023-03-15
[86] 2021-09-15 (PCT/EP2021/075359)
[87] (WO2022/058368)
[30] CH (01160/20) 2020-09-15
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[51] **Int.Cl. A41D 13/11 (2006.01)**
[25] EN
[54] **DISPOSABLE, COMPOSTABLE SURGICAL/MEDICAL MASKS AND METHODS OF PRODUCTION THEREFOR**
[54]
[72] DYCK, DAVID, CA
[72] FIOLKA, KYLE, CA
[72] KLASSEN, TRAVIS, CA
[71] PRECISION ADM INC., CA
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[25] EN
[54] **PYROLYSIS AND DEPOLYMERIZATION OF TIRE MATERIAL**
[54] **PYROLYSE ET DEPOLYMERISATION D'UN MATERIAU POUR PNEU**
[72] STAPELA, ANNELIE, CH
[72] ROSSOUW, MATHYS JOHANNES, ZA
[71] MICROWAVE SOLUTIONS GMBH, CH
[85] 2023-03-15
[86] 2021-09-16 (PCT/EP2021/075537)
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[25] EN
[54] **POROUS ASSEMBLIES AND RELATED METHODS OF FABRICATION AND USE**
[54] **ENSEMBLE POREUX ET PROCEDES DE FABRICATION ET D'UTILISATION ASSOCIES**
[72] MOHANRAM, ARAVIND, US
[72] STEELE, JAMES K., US
[72] SIOK, MATTHEW, US
[71] MOTT CORPORATION, US
[85] 2023-03-15
[86] 2021-10-14 (PCT/US2021/054939)
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[25] EN
[54] **PYRETHROID IN-CAN ADJUVANTED SUSPENSION CONCENTRATES**
[54] **CONCENTRES DE SUSPENSION AVEC ADJUVANT A BASE DE PYRETHROIDE EN BOITE**
[72] PERIS URQUIJO, GORKA, DE
[72] KARLE, MANUEL, DE
[72] MALSAM, OLGA, DE
[72] COMPANYS GARCIA, VERONICA, DE
[72] MARMUGI, ALICE, FR
[71] BAYER AKTIENGESELLSCHAFT, DE
[85] 2023-03-15
[86] 2021-09-17 (PCT/EP2021/075630)
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[25] EN
[54] **DEVICE FOR DECOUPLING AND FOR VIBRATION CONTROL**
[54] **DISPOSITIF POUR DECOUPLER ET CONTROLER LES VIBRATIONS**
[72] CIVELEK, RESAT, CH
[72] AMOR, ADEL, CH
[71] ABORRA AG, CH
[85] 2023-03-15
[86] 2021-09-23 (PCT/EP2021/076271)
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[25] EN
[54] **BICYCLIC COMPOUNDS**
[54] **COMPOSES BICYCLIQUES**
[72] VENDEVILLE, SANDRINE, US
[72] DEBING, YANNICK, US
[72] STOYCHEVA, ANTITSA DIMITROVA, US
[72] RABOISSON, PIERRE JEAN-MARIE BERNARD, US
[71] ALIGOS THERAPEUTICS, INC., US
[85] 2023-03-15
[86] 2021-10-13 (PCT/US2021/054848)
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[25] EN
[54] **COMPOSITIONS COMPRISING BISFLUOROALKYL-1,4-BENZODIAZEPINONE COMPOUNDS FOR TREATING ADENOID CYSTIC CARCINOMA**
[54] **COMPOSITIONS COMPRENANT DES COMPOSES DE BISFLUOROALKYL-1,4-BENZODIAZEPINONE POUR TRAITER UN CARCINOME ADENOIDE KYSTIQUE**
[72] GELBAUM, DANA, IL
[72] KAUFMAN, JEFFREY, US
[72] KAYE, JOEL, IL
[71] AYALA PHARMACEUTICALS INC., US
[85] 2023-03-15
[86] 2021-09-17 (PCT/US2021/050813)
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[25] EN
[54] **PORT, RINSING CAP, MEDICAL TREATMENT APPARATUS, AND SYSTEM**
[54] **ORIFICE, CAPUCHON DE LAVAGE, DISPOSITIF DE TRAITEMENT MEDICO-TECHNIQUE ET SYSTEME**
[72] HAECKER, JUERGEN, DE
[72] KELLER, BURKARD, DE
[72] BREHM, WINFRIED, DE
[72] BOND, OLIVER, DE
[72] FEHLER, MATTHIAS, DE
[72] THEN, MARKUS, DE
[72] LAUER, MARTIN, DE
[71] FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH, DE
[85] 2023-03-15
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[25] EN
[54] **SCREW CAP**
[54] **BOUCHON A VIS**
[72] RULAND, HELMUT, DE
[72] DENTLER, PETER, DE
[71] PACCOR PACKAGING GMBH, DE
[85] 2023-03-15
[86] 2021-10-15 (PCT/EP2021/078682)
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[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO QUANTITATIVE ANALYSIS OF SAMPLES**
[54] **AMELIORATIONS APPORTEES OU SE RAPPORTANT A L'ANALYSE QUANTITATIVE D'ECHANTILLONS**
[72] MORGUNOV, ALEKSZEJ, EE
[72] MORLING, SIMON, GB
[71] FLUIDIC ANALYTICS LIMITED, GB
[85] 2023-03-15
[86] 2021-09-16 (PCT/GB2021/052400)
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[25] EN
[54] **CEILING SUSPENSION BRACKET**
[54] **SUPPORT DE SUSPENSION DE PLAFOND**
[72] KARLSSON, PER OVE, SE
[72] ASBERG, STEFAN, SE
[72] STARBY, BO, SE
[72] KOSKI, PETER, SE
[71] MITEK HOLDINGS, INC., US
[85] 2023-03-15
[86] 2021-09-16 (PCT/US2021/050647)
[87] (WO2022/060972)
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[25] EN
[54] **SINGLE-SPOT WELDING DEVICE**
[54] **DISPOSITIF DE SOUDAGE PAR POINTS**
[72] BACI, ANDREAS, AT
[71] EVG ENTWICKLUNGS- U. VERWERTUNGS-GESELLSCHAFT M.B.H., AT
[85] 2023-03-15
[86] 2021-09-14 (PCT/IB2021/058348)
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[30] AT (A50794/2020) 2020-09-17

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[25] EN
[54] **EXERCISE APPARATUS HAVING A STAIR AND SLIDE ASSEMBLY**
[54] **APPAREIL D'EXERCICE COMPRENANT UN ENSEMBLE ESCALIER ET TOBOGGAN**
[72] MULLEN, RICHARD, US
[72] MEDEIROS, WILLIAM, US
[72] WOODS, BRIAN A., US
[71] PROSTAIRS FITNESS, LLC, US
[85] 2023-03-15
[86] 2021-09-15 (PCT/US2021/050432)
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[25] EN
[54] **HYBRID COMPUTING APPARATUS AND HYBRID COMPUTING ARCHITECTURES APPLICABLE TO ON PREMISES, CLOUD, AND EDGE COMPUTING APPLICATIONS**
[54] **APPAREIL INFORMATIQUE HYBRIDE ET ARCHITECTURES INFORMATIQUES HYBRIDES APPLICABLES A DES APPLICATIONS INFORMATIQUES LOCALES, EN NUAGE ET DE PERIPHERIE**
[72] FARRET, JEREMIE, CA
[71] MIND IN A BOX INC., CA
[85] 2023-03-15
[86] 2021-09-16 (PCT/IB2021/058464)
[87] (WO2022/058931)
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[51] **Int.Cl. D03D 1/00 (2006.01) D03D 13/00 (2006.01) D03D 15/00 (2021.01)**
[25] EN
[54] **WOVEN FABRIC WITH COMPARABLE TENSILE STRENGTH IN WARP AND WEFT DIRECTIONS**
[54] **TISSU TISSE AYANT UNE RESISTANCE A LA TRACTION COMPARABLE DANS LES DIRECTIONS DE CHAINE ET DE TRAME**
[72] JONES, DAVID MICHAEL, US
[72] KING, KEVIN NELSON, US
[72] BENFIELD, LARRY RAY, US
[71] NICOLON CORPORATION D/B/A TENCATE GEOSYNTHETICS AMERICAS, US
[85] 2023-03-15
[86] 2021-09-15 (PCT/US2021/050364)
[87] (WO2022/060766)
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[51] **Int.Cl. G01J 5/00 (2022.01) G01J 5/02 (2022.01) G01J 5/60 (2006.01)**
[25] EN
[54] **METHOD FOR ESTIMATING THE TEMPERATURE AND THE OXIDE THICKNESS OF A STEEL STRIP**
[54] **PROCEDE POUR ESTIMER LA TEMPERATURE ET L'EPAISSEUR D'OXYDE D'UNE BANDE D'ACIER**
[72] LE NOC, GWENAEL, FR
[72] FERTE, MORGAN, FR
[71] ARCELORMITTAL, LU
[85] 2023-03-15
[86] 2021-10-15 (PCT/IB2021/059501)
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[30] IB (PCT/IB2020/059760) 2020-10-16

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[25] EN
[54] **METERING BANK FOR AN AIR CART**
[54] **BANC DE DOSAGE POUR CHARIOT A AIR**
[72] PLATTNER, CHAD E., US
[71] PRECISION PLANTING LLC, US
[85] 2023-03-15
[86] 2021-11-17 (PCT/IB2021/060634)
[87] (WO2022/130057)
[30] US (63/127,229) 2020-12-18
[30] US (63/127,277) 2020-12-18
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[30] US (63/127,370) 2020-12-18
[30] US (63/127,437) 2020-12-18
[30] US (63/127,456) 2020-12-18
[30] US (63/127,473) 2020-12-18
[30] US (63/127,482) 2020-12-18
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[51] **Int.Cl. A01C 7/08 (2006.01) A01C 7/10 (2006.01) A01C 7/12 (2006.01) A01C 7/16 (2006.01) A01C 19/02 (2006.01) A01C 15/00 (2006.01)**
[25] EN
[54] **AIR CART WITH MODULAR METERING SYSTEM**
[54] **CHARIOT A AIR AVEC SYSTEME DE DOSAGE MODULAIRE**
[72] PLATTNER, CHAD E., US
[71] PRECISION PLANTING LLC, US
[85] 2023-03-15
[86] 2021-11-17 (PCT/IB2021/060635)
[87] (WO2022/130058)
[30] US (63/127,229) 2020-12-18
[30] US (63/127,277) 2020-12-18
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[30] US (63/127,473) 2020-12-18
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[51] **Int.Cl. A01C 7/08 (2006.01) A01C 7/10 (2006.01) A01C 7/12 (2006.01) A01C 7/16 (2006.01) A01C 19/02 (2006.01) A01C 15/00 (2006.01)**
[25] EN
[54] **A METHOD OF CALIBRATING A METER MODULE COMPRISING AN AUGER**
[54] **PROCEDE D'ETALONNAGE D'UN MODULE DE MESURE COMPRENANT UNE VIS SANS FIN**
[72] PLATTNER, CHAD E., US
[71] PRECISION PLANTING LLC, US
[85] 2023-03-15
[86] 2021-11-17 (PCT/IB2021/060636)
[87] (WO2022/130059)
[30] US (63/127,437) 2020-12-18
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[54] **METER MODULE FOR METERING PRODUCT**
[54] **MODULE DE DOSEUR POUR LE DOSAGE D'UN PRODUIT**
[72] PLATTNER, CHAD E., US
[72] SIMCIK, JERRY, US
[72] GRAY, TANNER, US
[72] IRVIN, JOSH, US
[71] PRECISION PLANTING LLC, US
[85] 2023-03-15
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[87] (WO2022/130060)
[30] US (63/127,229) 2020-12-18
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[25] EN
[54] **CRYSTALLINE FORM OF ASPACYTARABINE**
[54] **FORME CRISTALLINE D'ASPACYTARABINE**
[72] LIDOR-HADAS, RAMY, IL
[72] SHUMILOV, MARGARITA, IL
[72] TESSLER, SHOSHI, IL
[71] BIOSIGHT LTD., IL
[85] 2023-03-15
[86] 2021-09-20 (PCT/IL2021/051144)
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[30] US (63/080,808) 2020-09-21

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[51] **Int.Cl. A61B 90/00 (2016.01) A61B 5/107 (2006.01) A61B 17/02 (2006.01) A61B 18/12 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **DEVICE FOR MEASURING AN INNER WIDTH OF A POCKET ARRANGED IN A SURGICAL PLANE DEEP TO THE SKIN OR UNDERLYING TISSUE**
[54] **DISPOSITIF DE MESURE D'UNE LARGEUR INTERIEURE D'UNE POCHE DISPOSEE DANS UN PLAN CHIRURGICAL EN PROFONDEUR PAR RAPPORT A LA PEAU OU AU TISSU SOUS-JACENT**
[72] THORFINN, JOHAN, SE
[72] HEDEN, PER, SE
[71] FERIDA SOLUTIONS AB, SE
[85] 2023-03-15
[86] 2021-09-13 (PCT/SE2021/050876)
[87] (WO2022/060278)
[30] SE (2051076-4) 2020-09-15

[21] **3,195,580**
[13] A1
[51] **Int.Cl. F01D 19/00 (2006.01) F01K 23/10 (2006.01)**
[25] EN
[54] **COMBINED CYCLE PLANT, METHOD FOR STARTING UP SAME, AND START-UP CONTROL PROGRAM FOR EXECUTING SAID METHOD**
[54] **CENTRALE A CYCLE COMBINE, SON PROCEDE DE DEMARRAGE ET PROGRAMME DE REGULATION DE DEMARRAGE POUR EXECUTER LEDIT PROCEDE**
[72] FURUKAWA, YUICHIRO, JP
[72] NARUSE, MASATAKA, JP
[72] MARUTA, KAZUHIKO, JP
[71] MITSUBISHI HEAVY INDUSTRIES, LTD., JP
[85] 2023-03-15
[86] 2021-09-16 (PCT/JP2021/034142)
[87] (WO2022/070960)
[30] JP (2020-164685) 2020-09-30

[21] **3,195,581**
[13] A1
[51] **Int.Cl. C22C 21/00 (2006.01)**
[25] EN
[54] **ALUMINUM CASTING ALLOY**
[54] **ALLIAGE D'ALUMINIUM DE COULEE**
[72] MANN, VIKTOR KHRIST'YANOVICH, RU
[72] ALABIN, ALEKSANDR NIKOLAEVICH, RU
[72] KROKHIN, ALEKSANDR YUR'EVICH, RU
[72] FOKIN, DMITRIJ OLEGOVICH, RU
[71] OBSHCHESTVO S OGRANICHENNOJ OTVETSTVENNOST'YU "INSTITUT LEGKIKH MATERIALOV I TEKHNOLOGIJ", RU
[85] 2023-03-16
[86] 2021-09-15 (PCT/RU2021/050295)
[87] (WO2022/060253)
[30] RU (2020130578) 2020-09-16

[21] **3,195,583**
[13] A1
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 18/12 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MINIMALLY INVASIVE TREATMENT WITH INJECTABLE ELECTRODES**
[54] **SYSTEME ET PROCEDE POUR TRAITEMENT MINIMALEMENT INVASIF AVEC DES ELECTRODES INJECTABLES**
[72] NIEUWOUDT, STEPHAN, US
[72] FRANKE, MANFRED, US
[72] BOLUS, DAVID, US
[72] LIU, DERRICK, US
[72] SZABO, EMILY, US
[72] AHMAD, SHAHER, US
[72] UPADHYE, ANIRUDDHA, US
[72] ZUCKERMAN, SEAN, US
[72] WATSON, CRAIG, US
[72] SNELLINGS, ANDRE, US
[72] HOWE, AMELIA, US
[71] NEURONOFF, INC., US
[85] 2023-03-16
[86] 2021-05-19 (PCT/US2021/033265)
[87] (WO2022/060425)
[30] US (63/079,275) 2020-09-16
[30] US (PCT/US2020/061374) 2020-11-19
[30] US (63/119,444) 2020-11-30
[30] US (63/153,223) 2021-02-24
[30] US (63/167,836) 2021-03-30
[30] US (63/171,780) 2021-04-07
[30] US (63/184,656) 2021-05-05
[30] US (PCT/US2021/033007) 2021-05-18

[21] **3,195,617**
[13] A1
[51] **Int.Cl. A23L 2/02 (2006.01) A23L 2/08 (2006.01) A23L 2/78 (2006.01) A23L 2/80 (2006.01) A23N 1/00 (2006.01)**
[25] EN
[54] **ORANGE JUICE PRODUCTS WITH REDUCED ACIDITY AND TOTAL SUGAR CONTENT, AND A PROCESS FOR PRODUCING SAME**
[54] **PRODUITS DE JUS D'ORANGE PRESENTANT UNE ACIDITE ET UNE TENEUR TOTALE EN SUCRE REDUITES, ET LEUR PROCEDE DE PRODUCTION**
[72] REYNAUD, ERIC, LU
[72] MEURISSE, JACQUES, FR
[72] BAUDOUIN, STANISLAS, FR
[71] WEST INVEST SA, LU
[85] 2023-02-23
[86] 2021-08-31 (PCT/IB2021/057959)
[87] (WO2022/049490)
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[21] **3,193,184**
[13] A1
[25] EN
[54] **EFFECTIVE CIRCUMFERENCE-BASED WRAPPING**
[54] **ENVELOPPEMENT BASE SUR UNE CIRCONFERENCE EFFECTIVE**
[72] LANCASTER, PATRICK R. III, US
[72] MITCHELL, MICHAEL P., US
[72] MCCRAY, JEREMY D., US
[72] JOHNSON, RICHARD L., US
[71] LANTECH.COM, LLC, US
[22] 2013-10-25
[41] 2014-05-01
[62] 3,109,068
[30] US (61/718,429) 2012-10-25
[30] US (61/718,433) 2012-10-25
[30] US (14/062,930) 2013-10-25

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[21] **3,194,860**
[13] A1
[25] EN
[54] **VEHICLE**
[54]
[72] SWAIN, PHILIP B., US
[72] SCHLEIF, ANDREW C., US
[72] LUTZ, DENNIS J., US
[72] HICKE, DAVID J., US
[72] BJERKETVEDT, ERIC D., US
[72] DECKARD, AARON D., US
[72] ROYTEK, CORRIE S., US
[72] FREDRICKSON, DONOVAN L., US
[72] DICKINSON, OWEN J., US
[72] SHERRETT, JASON L., US
[72] ENDRIZZI, JAMES J., US
[71] POLARIS INDUSTRIES INC., US
[22] 2017-12-12
[41] 2018-06-28
[62] 3,046,653
[30] US (15/388,436) 2016-12-22

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[21] **3,194,877**
[13] A1
[25] EN
[54] **REAL-TIME AUTONOMOUS WEATHER AND SPACE WEATHER MONITORING**
[54] **SURVEILLANCE METEOROLOGIQUE ET SURVEILLANCE DE LA METEOROLOGIE DE L'ESPACE AUTONOMES ET EN TEMPS REEL**
[72] REYNOLDS, ADAM SCOTT, US
[72] AZEEM, SYED MOHAMMED IRFAN, US
[72] CROWLEY, GEOFFREY, US
[71] ATMOSPHERIC & SPACE TECHNOLOGY RESEARCH ASSOCIATES LLC, US
[22] 2014-08-01
[41] 2015-02-05
[62] 2,920,103
[30] US (61/861,948) 2013-08-02
[30] US (61/901,426) 2013-11-07

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[21] **3,194,882**
[13] A1
[25] EN
[54] **OPTIMIZING SELECTION OF DRIVERS FOR TRANSPORT REQUESTS**
[54] **OPTIMISATION DE LA SELECTION DE CONDUCTEURS POUR DES DEMANDES DE TRANSPORT**
[72] SWEENEY, MATTHEW, US
[72] BARRETO, AMOS, US
[72] CUI, SOPHIA, US
[72] KORSOS, LASZLO, US
[71] UBER TECHNOLOGIES, INC., US
[22] 2014-12-10
[41] 2015-06-18
[62] 2,932,828
[30] US (61/914,890) 2013-12-11
[30] US (14/566,148) 2014-12-10
[30] US (14/566,190) 2014-12-10

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[21] **3,194,889**
[13] A1
[25] EN
[54] **BIOPSY NEEDLE FOR ACCESSING PERIPHERAL LUNG NODULES**
[54] **AIGUILLE DE BIOPSIE PERMETTANT D'ACCEDER A DES NODULES PULMONAIRES PERIPHERIQUES**
[72] GARRITY, DOUGLAS W., US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[22] 2018-03-09
[41] 2018-09-20
[62] 3,046,563
[30] US (62/472,128) 2017-03-16

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[21] **3,194,890**
[13] A1
[25] EN
[54] **STERILE SOLUTION WARMING SYSTEM WITH SELF-LOCATING STERILE DRAPE**
[54] **SYSTEME DE CHAUFFAGE DE SOLUTION STERILE AVEC CHAMP OPERATOIRE STERILE A AUTO-LOCALISATION**
[72] RACKERS, KEVIN JOSEPH, US
[72] WANBAUGH, THOMAS J., US
[72] GROZIER, PAUL, US
[71] WEG SURGICAL SOLUTIONS, LLC, US
[22] 2019-11-15
[41] 2020-05-22
[62] 3,157,373
[30] US (62/768,721) 2018-11-16
[30] US (16/240,387) 2019-01-04

[21] **3,194,922**
[13] A1
[25] EN
[54] **REPLACEMENT HEART VALVE APPARATUS AND METHODS**
[54] **APPAREIL DE VALVE CARDIAQUE DE REMPLACEMENT ET PROCEDES**
[72] SPENCE, PAUL A., US
[72] TOMPKINS, LANDON H., US
[72] CHAU, MARK, US
[72] SIEGEL, ALEX, US
[71] MITRAL VALVE TECHNOLOGIES SARL, CH
[22] 2014-08-14
[41] 2015-02-19
[62] 2,920,865
[30] US (61/865,657) 2013-08-14
[30] US (61/942,300) 2014-02-20
[30] US (61/943,125) 2014-02-21

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[21] **3,194,932**
[13] A1
[25] EN
[54] **INTERACTIVE VENUE SEAT MAP**
[54] **CARTE DE SIEGES DE LIEU INTERACTIVE**
[72] OXENHAM, OLIVER, US
[72] OXENHAM, WESLEY, US
[71] STUBHUB, INC., US
[22] 2013-07-23
[41] 2014-01-30
[62] 2,876,932
[30] US (13/559,979) 2012-07-27

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[21] **3,194,972**
[13] A1
[25] EN
[54] **PRIVACY MODE FOR A WIRELESS AUDIO DEVICE**
[54] **MODE DE CONFIDENTIALITE POUR UN DISPOSITIF AUDIO SANS FIL**
[72] BAKER, RHODES, US
[72] KARC, JEFFREY, US
[72] KNODE, GALEN, US
[72] NEWMAN, ROBERT C., JR, US
[72] NILL, JOHN, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[22] 2018-12-14
[41] 2019-06-20
[62] 3,078,295
[30] US (62/598,792) 2017-12-14

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[21] **3,194,982**
[13] A1
[25] EN
[54] **VIRTUAL ATTRACTION CONTROLLER**
[54] **CONTROLEUR D'ATTRACTION VIRTUEL**
[72] MAYCOCK, MARK, CA
[72] VANCE, ERIC, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[22] 2015-05-18
[41] 2015-11-26
[62] 2,949,510
[30] US (14/284,270) 2014-05-21

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[21] **3,194,986**
[13] A1
[25] EN
[54] **IMAGE ENCODING METHOD, IMAGE ENCODING DEVICE, IMAGE DECODING METHOD, IMAGE DECODING DEVICE, AND IMAGE ENCODING/DECODING DEVICE**
[54] **PROCEDE DE CODAGE D'IMAGE, DISPOSITIF DE CODAGE D'IMAGE, PROCEDE DE DECODAGE D'IMAGE, DISPOSITIF DE DECODAGE D'IMAGE, ET DISPOSITIF DE CODAGE/DECODAGE D'IMAGE**
[72] SUGIO, TOSHIYASU, JP
[72] NISHI, TAKAHIRO, JP
[72] SHIBAHARA, YOUJI, JP
[72] TANIKAWA, KYOKO, JP
[72] SASAI, HISAO, JP
[72] MATSUNOBU, TORU, JP
[71] SUN PATENT TRUST, US
[22] 2012-05-29
[41] 2012-12-06
[62] 2,834,190
[30] US (61/491,549) 2011-05-31

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[21] **3,195,007**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR PRESENTATION OF A TERMINAL APPLICATION SCREEN**
[54] **SYSTEMES ET PROCEDES DE PRESENTATION D'UN ECRAN D'APPLICATION DE TERMINAL**
[72] HILL, JAMES GEORGE, US
[72] JONAS, JARED VINCENT, US
[72] BANNER, DAVIDSON JAMES, US
[71] IVANTI, INC., US
[22] 2017-07-28
[41] 2018-02-01
[62] 3,032,303
[30] US (15/222,739) 2016-07-28

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[21] **3,195,066**
[13] A1
[25] EN
[54] **STRUCTURAL POROUS BIOMATERIAL AND IMPLANT FORMED OF SAME**
[54] **BIOMATERIAU POREUX DE STRUCTURE ET PROTHESE FORMEE A PARTIR DE CELUI-CI**
[72] PASINI, DAMIANO, CA
[72] TANZER, MICHAEL, CA
[72] ARABNEJAD, SAJAD KHANOKI, CA
[72] JOHNSTON, BURNETT, CA
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA
[22] 2015-05-04
[41] 2015-11-05
[62] 2,947,775
[30] US (61/987,950) 2014-05-02

[21] **3,195,079**
[13] A1
[25] EN
[54] **APPARATUS AND METHOD FOR TREATING FGD BLOWDOWN OR SIMILAR LIQUIDS**
[54] **APPAREIL ET METHODE POUR LE TRAITEMENT DE L'EAU DE PURGE D'UN SYSTEME DE DESULFURATION DES GAZ DE COMBUSTION OU DE LIQUIDES SEMBLABLES**
[72] PEETERS, JEFFREY GERARD, CA
[72] BONKOSKI, WILLIAM A., US
[72] COTE, PIERRE LUCIEN, CA
[72] HUSAIN, HIDAYAT, CA
[71] ZENON TECHNOLOGY PARTNERSHIP, US
[22] 2005-08-26
[41] 2007-01-25
[62] 2,517,322
[30] US (60/701,996) 2005-07-25

[21] **3,195,094**
[13] A1
[25] EN
[54] **SURGICAL ASSISTING DEVICE**
[54] **DISPOSITIF D'ASSISTANCE CHIRURGICALE**
[72] FORSELL, PETER, CH
[71] MEDICALTREE PATENTS LTD., US
[22] 2014-01-14
[41] 2014-07-17
[62] 3,126,635
[30] SE (1350042-6) 2013-01-14

[21] **3,195,098**
[13] A1
[25] EN
[54] **APPLICATORS AND CASES FOR ARTIFICIAL LASH EXTENSIONS**
[54] **APPLICATEURS ET BOITIERS POUR EXTENSIONS DE CILS ARTIFICIELS**
[72] LOTTI, SAHARA, US
[71] LASHIFY, INC., US
[22] 2017-12-20
[41] 2018-06-28
[62] 3,048,018
[30] US (62/436,585) 2016-12-20

[21] **3,195,102**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR VAGINAL THERAPEUTIC DEVICE FITTING**
[54] **PROCEDES ET SYSTEMES D'AJUSTEMENT DE DISPOSITIF THERAPEUTIQUE VAGINAL**
[72] SHAM, DEREK, CA
[71] COSM MEDICAL CORP., CA
[22] 2018-09-18
[41] 2019-03-21
[62] 3,075,432
[30] US (62/559,853) 2017-09-18

[21] **3,195,107**
[13] A1
[25] EN
[54] **SHAPED NONWOVEN**
[54] **NON-TISSE MIS EN FORME**
[72] ASHRAF, ARMAN, US
[72] WEISMAN, PAUL THOMAS, US
[71] THE PROCTER & GAMBLE COMPANY, US
[22] 2016-12-08
[41] 2017-06-22
[62] 3,109,830
[30] US (62/268,759) 2015-12-17

[21] **3,195,110**
[13] A1
[25] EN
[54] **APPLICATORS AND CASES FOR ARTIFICIAL LASH EXTENSIONS**
[54] **APPLICATEURS ET BOITIERS POUR EXTENSIONS DE CILS ARTIFICIELS**
[72] LOTTI, SAHARA, US
[71] LASHIFY, INC., US
[22] 2017-12-20
[41] 2018-06-28
[62] 3,048,018
[30] US (62/436,585) 2016-12-20

[21] **3,195,111**
[13] A1
[25] EN
[54] **LINK RECOVERY IN WIRELESS COMMUNICATIONS**
[54] **RECUPERATION DE LIEN DANS DES COMMUNICATIONS SANS FIL**
[72] GAO, BO, CN
[72] CHEN, YIJIAN, CN
[72] ZHANG, SHUJUAN, CN
[72] LU, ZHAOHUA, CN
[71] ZTE CORPORATION, CN
[22] 2018-08-07
[41] 2020-02-13
[62] 3,105,386

[21] **3,195,237**
[13] A1
[51] **Int.Cl. C25B 11/032 (2021.01) C25B 1/04 (2021.01)**
[25] EN
[54] **LI RECOVERY PROCESSES AND ONSITE CHEMICAL PRODUCTION FOR LI RECOVERY PROCESSES**
[54] **PROCEDES DE RECUPERATION DE LI ET PRODUCTION CHIMIQUE SUR SITE POUR PROCEDES DE RECUPERATION DE LI**
[72] DARA, SAAD, CA
[72] ZAHIRI, BENJAMIN, CA
[71] MANGROVE WATER TECHNOLOGIES LTD, CA
[22] 2019-12-19
[41] 2020-06-25
[62] 3,124,281
[30] US (62/784,324) 2018-12-21
[30] US (62/907,486) 2019-09-27

[21] **3,195,249**
[13] A1
[51] **Int.Cl. C12P 21/00 (2006.01) C12N 5/071 (2010.01) C07K 1/34 (2006.01) C12M 1/26 (2006.01) C12M 3/00 (2006.01) C12M 3/06 (2006.01)**
[25] EN
[54] **METHODS FOR HARVESTING MAMMALIAN CELL CULTURES**
[54] **METHODES DE RECOLTE DE CULTURES DE CELLULES DE MAMMIFERES**
[72] GOUDAR, CHETAN, US
[72] COLE, SEAN, US
[72] SABO, NICOLE, US
[72] LIN, HENRY, US
[72] LULL, JONATHAN, US
[72] THARMALINGAM, THARMALA, US
[71] AMGEN INC., US
[22] 2015-06-04
[41] 2015-12-10
[62] 2,951,046
[30] US (62/007,588) 2014-06-04

[21] **3,195,252**
[13] A1
[25] EN
[54] **USES OF OXYGENATED CHOLESTEROL SULFATES (OCS)**
[54] **UTILISATIONS DE SULFATES DE CHOLESTEROL OXYGENES (OCS)**
[72] REN, SHUNLIN, US
[72] THEEUWES, FELIX, US
[72] BROWN, JAMES E., US
[72] LIN, WEIQI, US
[71] DURECT CORPORATION, US
[71] VIRGINIA COMMONWEALTH UNIVERSITY, US
[71] THE UNITED STATES GOVERNMENT AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US
[22] 2014-12-23
[41] 2015-07-02
[62] 2,932,300
[30] US (61/920,617) 2013-12-24

[21] **3,195,266**
[13] A1
[25] EN
[54] **RAILROAD GONDOLA CAR STRUCTURE AND MECHANISM THEREFOR**
[54] **STRUCTURE DE WAGON-TOMBEREAU ET MECANISME POUR CELUI-CI**
[72] FORBES, JAMES W., CA
[72] THIESEN, MARCUS, CA
[72] KEATS, DAVE, CA
[71] NATIONAL STEEL CAR LIMITED, CA
[22] 2009-09-14
[41] 2011-03-11
[62] 3,129,875
[30] CA (2,678,447) 2009-09-11

[21] **3,195,306**
[13] A1
[25] EN
[54] **PARESTHESIA-FREE SPINAL CORD STIMULATION OCCURRING AT LOWER FREQUENCIES AND SWEET SPOT SEARCHING USING PARESTHESIA**
[54]
[72] DOAN, QUE T., US
[72] GU, JIANWEN, US
[72] HUERTAS FERNANDEZ, ISMAEL, ES
[72] ESTELLER, ROSANA, US
[72] MOFFITT, MICHAEL A., US
[71] BOSTON SCIENTIFIC NEUROMODULATION CORPORATION, US
[22] 2018-08-10
[41] 2019-02-14
[62] 3,072,338
[30] US (62/544,656) 2017-08-11
[30] US (62/693,543) 2018-07-03

[21] **3,195,323**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATICALLY CONDUCTING RISK ASSESSMENTS FOR TELEPHONY COMMUNICATIONS**
[54] **SYSTEMES ET METHODES DE REALISATION AUTOMATIQUE D'EVALUATIONS DU RISQUE DESTINES A DES COMMUNICATIONS TELEPHONIQUES**
[72] KENT, SEAN, US
[72] CARTWRIGHT, KEN, US
[72] SINGLA, AMIT, US
[72] MOHAN, SRIKANTH, US
[72] FLORACK, PAUL, US
[71] TRANSACTION NETWORK SERVICES, INC., US
[22] 2017-11-01
[41] 2018-05-01
[62] 2,984,304
[30] US (62/415,982) 2016-11-01

[21] **3,195,370**
[13] A1
[25] EN
[54] **AN ANCHORING ASSEMBLY FOR ANCHORING A LINER OF A CURED LINING MATERIAL**
[54] **ASSEMBLAGE D'ANCRAGE POUR ANCRER UNE DOUBLURE D'UN MATERIAU DE DOUBLAGE TRAITE**
[72] GAROT, JEROME MICHAEL, NL
[72] GAROT, DANIELLE FRANCESCA, NL
[72] GAROT, WOUTER, NL
[71] SILICON HOLDING B.V., NL
[22] 2015-08-11
[41] 2016-02-13
[62] 2,900,025
[30] NL (2013327) 2014-08-13
[30] NL (2014812) 2015-05-18

[21] **3,195,377**
[13] A1
[25] EN
[54] **WIRELESS COMMUNICATION FOR ON-BODY MEDICAL DEVICES**
[54] **COMMUNICATION SANS FIL POUR DES DISPOSITIFS MEDICAUX PORTES SUR LE CORPS**
[72] SEARLE, GARY, US
[72] BURNS, DEBORAH, US
[72] BURNS, BRUCE, US
[72] MASON, DAVID, US
[72] HWANG, CHARLES, US
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2013-03-05
[41] 2013-09-12
[62] 3,062,048
[30] US (61/606,929) 2012-03-05

[21] **3,195,412**
[13] A1
[25] EN
[54] **DEVICES, METHODS, AND ASSOCIATED INFORMATION PROCESSING FOR THE SMART-SENSORED HOME**
[54] **DISPOSITIFS, PROCEDES, ET TRAITEMENT DE DONNEES ASSOCIE POUR UN DOMICILE EQUIPE DE CAPTEURS INTELLIGENTS**
[72] FADELL, ANTHONY M., US
[72] ROGERS, MATTHEW L., US
[72] MATSUOKA, YOKY, US
[72] SLOO, DAVID, US
[72] VERON, MAXINE, US
[72] GUENETTE, ISABEL I., US
[72] HONJO, SHIGEFUMI, US
[71] GOOGLE LLC, US
[22] 2013-09-20
[41] 2014-03-27
[62] 2,885,731
[30] US (61/704,437) 2012-09-21

[21] **3,195,431**
[13] A1
[25] EN
[54] **OPTICAL FILTER**
[54] **FILTRE OPTIQUE**
[72] SWITZER III, JAMES, US
[72] OCKENFUSS, GEORG J., US
[71] VIAVI SOLUTIONS INC., US
[22] 2018-07-05
[41] 2019-01-24
[62] 3,010,507
[30] US (15/657,515) 2017-07-24

[21] **3,195,444**
[13] A1
[25] EN
[54] **ADJUSTABLE PLUNGER DOSE STOP**
[54] **PISTON-PLONGEUR A BUTEE DE DOSAGE REGLABLE**
[72] GOLD, HOWARD, US
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2011-06-14
[41] 2011-12-18
[62] 2,743,207
[30] US (61/344,256) 2010-06-18

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