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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
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[51] - International Classification
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[71] - Name(s) of Applicant(s)
[72] - Name(s) of Inventor(s)
[73] - Name(s) of Grantee(s)
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[86] - PCT International Filing Data
[87] - PCT International Publication data

Avis

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

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

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

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

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

2. Country Code

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

2. Code des pays

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

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

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

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

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

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

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

4. Orders for Patents by Class or Sub-Class

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

4. Commande de brevets par classe ou sous-classe

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

5. Advice on Making a Patent Application

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

5. Conseils relatifs à la préparation de demandes de brevets

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

6. Licensing of Patents

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

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

6. Octroi de licences en vertu des brevets

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

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

7. Patents Available for Licence or Sale

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

7. Brevets disponibles pour licence ou vente

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

8. List of Patents Available for Licence or Sale

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

None

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

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

Aucun

9. Applications Open to Public Inspection

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

9. Demandes mises à la disponibilité du public

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

10. Language of Published Documents

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

10. Langue du document publié

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

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

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

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

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

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

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

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

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

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

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

Preliminary Examination

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

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

* International fees will be reduced by:

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

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

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

Examen préliminaire

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

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

* Les frais seront réduits de:

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

12. PCT Notices

Patent Cooperation Treaty (PCT)

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

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

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

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

12. Avis PCT

Traité de Coopération en matière de brevets (PCT)

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

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

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

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

13. Practice Notice

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

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

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

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

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

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

13. Énoncé de pratique

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

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

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

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

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

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

Offices.

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

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

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

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

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

14. Correspondence Procedures

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

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

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

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

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

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14. Procédures de correspondance

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

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

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

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

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

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

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

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

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the Fee Payment Form.

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

Téléchargez le formulaire de paiement des frais.

1.1 Designated Establishments

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

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

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

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

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

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

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

1.1 Établissements désignés

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

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

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

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

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

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

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

except statutory holiday

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

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

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

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

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2. Electronic Correspondence

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

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

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

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

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

2. Correspondance électronique

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

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

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

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

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

open for business.

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

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

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

2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

Patents

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

Brevets

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

2.2 Online

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

2.2 En ligne

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

Patents

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

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

Brevets

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

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

Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

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

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

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

Trademarks

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

Marques de commerce

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

accessing the following pages:

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

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

Opposition proceedings before the Trademarks Opposition Board

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

Section 45 proceedings before the Trademarks Opposition Board

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

:

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

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

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

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

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

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

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

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

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

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

Industrial Designs

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

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

Dessins industriels

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

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

Integrated Circuit Topographies

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

- general correspondence relating to integrated circuit topographies.

Topographies de circuits intégrés

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

- correspondance générale relative aux topographies de circuits intégrés.

2.3 Electronic medium

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

2.3 Supports électroniques

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

Brevets

Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

TIFF Format:

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

PDF Format:

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

ASCII

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

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

Format TIFF

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

Format PDF

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

ASCII

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

Trademarks

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

Industrial Design

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

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

Marques de commerce

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

Dessins industriels

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

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

4. General Information

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

4. Renseignements généraux

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

5. Time Period Extensions

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

5. Prorogation des délais

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

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

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

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

Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

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

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

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

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

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

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

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

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

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

Marques de commerce

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

8. Intellectual property acts, rules and regulations

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

8. Lois, règles et règlements sur la propriété intellectuelle

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

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

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

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of May 7, 2024 contains applications open to public inspection from April 21, 2024 to April 27, 2024.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 7 mai 2024 contient les demandes disponibles au public pour consultation pour la période du 21 avril 2024 au 27 avril 2024.

Canadian Patents Issued

May 7, 2024

Brevets canadiens délivrés

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[72] KIRKERUD, VIDAR, NO
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[72] HSU, KUAN-HUI, US
[73] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INC., US
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[54] **PLOW ASSEMBLY WITH VALVE SYSTEM FOR WINGS**
[54] **DISPOSITIF DE CHARRUE DOTE D'UN MECANISME DE VANNE POUR LES AILES**
[72] HOLMAN, JERRY D., US
[73] STONEBROOKE EQUIPMENT, INC., US
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[54] **PILL MANIPULATING SYSTEM, PILL MANIPULATOR AND METHOD FOR FILLING A PACKAGING WITH PILLS**
[54] **SYSTEME DE MANIPULATION DE COMPRIME, MANIPULATEUR DE COMPRIME ET METHODE DE REMPLISSAGE DE COMPRIMES DANS UN EMBALLAGE**
[72] BOUTHIETTE, ETIENNE, CA
[73] 9155-0020 QUEBEC INC., CA
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[54] **MIDDLE DISTILLATE HYDROCRACKING CATALYST CONTAINING HIGHLY NANOPOROUS STABILIZED Y ZEOLITE**
[54] **CATALYSEUR D'HYDROCRAQUAGE DE DISTILLAT MOYEN CONTENANT UNE ZEOLITE NANOPOREUSE STABILISEE DE TYPE Y A HAUT VOLUME DE NANOPORES**
[72] ZHANG, YIHUA, US
[72] MAESEN, THEODORUS LUDOVICUS MICHAEL, US
[72] LACHEEN, HOWARD STEVEN, US
[73] CHEVRON U.S.A. INC., US
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[54] **APPAREIL ET PROCEDE POUR METTRE EN CONTACT LE SANG AVEC DE L'OZONE**
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[73] SANGAIR AB, SE
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[54] **HEPATITIS B VIRUS (HBV) IRNA COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS D'ARNI CONTRE LE VIRUS DE L'HEPATITE B (VHB) ET METHODES D'UTILISATION DE CELLES-CI**
[72] HINKLE, GREGORY, US
[72] SEPP-LORENZINO, LAURA, US
[72] JADHAV, VASANT, US
[72] MAIER, MARTIN, US
[72] MILSTEIN, STUART, US
[72] MANOHARAN, MUTHIAH, US
[72] RAJEEV, KALLANTHOTTATHIL G., US
[73] ALNYLAM PHARMACEUTICALS, INC., US
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[54] **DRILLING FLUID FOR COAL FORMATIONS**
[54] **LIQUIDE DE FORAGE POUR DES FORMATIONS DE CHARBON**
[72] DIMITROFF, JEFF, CA
[72] CRAWFORD, GRAHAM, CA
[72] JACOBS, TREVOR, CA
[72] GHESNIER, IOAN, CA
[73] BLACKSTONE DRILLING FLUIDS LIMITED, CA
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[54] **SUPPRESSION DU GENE DE LA HUNTINGTINE INDUITE PAR DE L'ARNI**
[72] KONSTANTINOVA, PAVLINA STEFANOVA, NL
[72] MINIARIKOVA, JANA, NL
[73] UNIQURE IP B.V., NL
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[54] **MANAGEMENT SYSTEM AND METHOD OF AN ACTIVE DEVICE**
[54] **SYSTEME ET PROCEDE DE GESTION DE DISPOSITIF ACTIF**
[72] BARRAU, CORALIE, FR
[72] LAVILLONNIERE, NICOLAS, FR
[72] VILLETTE, THIERRY, FR
[72] ROUSSEAU, BENJAMIN, FR
[73] ESSILOR INTERNATIONAL, FR
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[54] **IMAGEUR CONFOCAL ACOUSTIQUE DIFFUS**
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[73] HERRING, RODNEY, CA
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[54] **SYSTEM FOR TRANSMITTING COMMANDS AND A VIDEO STREAM BETWEEN A REMOTE-CONTROLLED MACHINE SUCH AS A DRONE AND A GROUND STATION**
[54] **SYSTEME DE TRANSMISSION DE COMMANDES ET D'UN FLUX VIDEO ENTRE UN ENGIN TELE-PILOTE TEL QU'UN DRONE ET UNE STATION AU SOL**
[72] CHRISTOMANOS, CLEMENT, FR
[72] PELE, PIERRE, FR
[73] UAVIA, FR
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[54] **SYSTEMES ET METHODES DE DETECTION DE CONTAMINATION DE FENETRE**
[72] CLYNNE, THOMAS, US
[72] DUREIKO, RICK DEAN, US
[72] MEYER, JONATHAN ROBERT, US
[72] SAHA, KOUSHIK BABI, US
[73] UBICQUIA IQ LLC, US
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[54] **ARC FLASH MITIGATION SWITCH FOR QUENCHING EXTERNAL ARC FAULTS IN LOW VOLTAGE SWITCHGEAR**
[54] **COMMUTATEUR D'ATTENUATION DE COUP D'ARC POUR L'EXTINCTION DES DEFAUTS D'ARC EXTERIEURS DANS UN COMMUTATEUR BASSE TENSION**
[72] SHEA, JOHN J., US
[72] ROLLMANN, PAUL J., US
[72] HRNCIR, DANIEL E., US
[72] CARRODUS, JASON B., US
[73] EATON INTELLIGENT POWER LIMITED, IE
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[54] **SOUND CONTROL UNDERLAYMENT AND FLOOR CONSTRUCTION INCORPORATING THE SAME**
[54] **THIBAUDE A ISOLATION SONORE ET CONSTRUCTION DE PLANCHER INCORPORANT LADITE THIBAUDE**
[72] DOWNEY, PAUL, CA
[72] VAZ, BRIAN, CA
[72] BYRICK, WILSON, CA
[73] PLITEQ INC., CA
[86] (2980564)
[87] (2980564)
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[54] **METHOD FOR MEASURING THE FREQUENCY MODULATION OF A LASER SOURCE**
[54] **PROCEDE DE MESURE DE LA MODULATION DE FREQUENCE D'UNE SOURCE LASER**
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[72] PILLET, GREGOIRE, FR
[72] FENEYROU, PATRICK, FR
[73] THALES, FR
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[54] **LIGHT BOARD**
[54] **PANNEAU LUMINEUX**
[72] BAKER, DEREK B., US
[72] PASSERELLO, CORY A., US
[72] CLAWSON, THOMAS, US
[73] HUBBELL LIGHTING, INC., US
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[54] **TECHNIQUES FOR EMPLOYING ACCESS NODE CLUSTERS IN END-TO-END BEAMFORMING**
[54] **TECHNIQUES D'UTILISATION DE GRAPPES DE NOEUDS D'ACCES DANS LA FORMATION DE FAISCEAUX DE BOUT EN BOUT**
[72] CRONIN, CHRISTOPHER, US
[72] MILLER, MARK, US
[72] DANKBERG, MARK, US
[72] BUER, KENNETH, US
[72] RUNYON, DONALD, US
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[25] EN
[54] **NITROGEN TITANIUM COMPLEX, CATALYTIC SYSTEM COMPRISING SAID NITROGEN TITANIUM COMPLEX AND PROCESS FOR THE (CO)POLYMERIZATION OF CONJUGATED DIENES**
[54] **COMPLEXE D'AZOTE TITANE, SYSTEME CATALYTIQUE COMPRENANT LEDIT COMPLEXE D'AZOTE TITANE ET PROCEDE DE (CO)POLYMERISATION DE DIENES CONJUGUES**
[72] SOMMAZZI, ANNA, IT
[72] PAMPALONI, GUIDO, IT
[72] RICCI, GIOVANNI, IT
[72] MASI, FRANCESCO, IT
[72] LEONE, GIUSEPPE, IT
[73] VERSALIS S.P.A., IT
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[54] **COMPOSITIONS OF OBETICHOLIC ACID AND METHODS OF USE**
[54] **COMPOSITIONS D'ACIDE OBETICHOLIQUE ET PROCEDES D'UTILISATION**
[72] LANCASTER, RICHARD G., US
[72] OLMSTEAD, KAY K., US
[72] KAGIHIRO, MASASHI, JP
[72] TAOKA, IKUKO, JP
[72] MATONO, MITSUHIRO, JP
[72] PRUZANSKI, MARK, US
[72] SHAPIRO, DAVID, US
[72] HOOSHMAND-RAD, ROYA, US
[72] PENCEK, RICHARD, US
[72] SCIACCA, CATHI, US
[72] ELIOT, LISE, US
[72] EDWARDS, JEFFREY, US
[72] MACCONELL, LEIGH A., US
[72] MARMON, TONYA K., US
[73] INTERCEPT PHARMACEUTICALS, INC., US
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[54] **MECHANICAL FILTER ELEMENT, APPARATUS AND METHOD**
[54] **ELEMENT, APPAREIL ET PROCEDE DE FILTRE MECANIQUE**
[72] JACKSON, NICHOLAS JOHN, GB
[72] KUIJPER, JASPER HENDERICUS MARIA, GB
[73] EVOLUTION AQUA LIMITED, GB
[85] 2017-11-14
[86] 2016-05-16 (PCT/GB2016/000101)
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[54] **METHOD OF HONING HIGH-POROSITY CLYINDER LINERS**
[54] **METHODE D'AFFILAGE DE DOUBLURES DE CYLINDRE A POROSITE ELEVEE**
[72] MAKI, CLIFFORD E., US
[72] BEYER, TIMOTHY GEORGE, US
[72] GANGOPADHYAY, ARUP KUMAR, US
[72] GHAEDNIA, HAMED, US
[72] ELIE, LARRY DEAN, US
[72] BOILEAU, JAMES MAURICE, US
[73] FORD GLOBAL TECHNOLOGIES, LLC, US
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[54] **HOUSINGS FOR USE WITH INFLATION DEVICES AND RELATED METHODS**
[54] **BOITIERS DESTINES A ETRE UTILISES AVEC DES DISPOSITIFS DE GONFLAGE ET PROCEDES ASSOCIES**
[72] WEERAKOON, PRASAD, US
[72] DAVIS, JON, US
[72] HEYBORNE, RUSSELL D., US
[72] WILDE, LARRY T., US
[73] MERIT MEDICAL SYSTEMS, INC., US
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[54] **SYSTEME ET PROCEDE D'AMELIORATION DE LA GESTION DE LA CHARGE DE TRAVAIL DANS UN SYSTEME DE SURVEILLANCE DE TELEVISION ACR**
[72] NEUMEIER, ZEEV, US
[72] COLLETTE, MICHAEL, US
[73] INSCAPE DATA, INC., US
[85] 2018-01-12
[86] 2016-07-15 (PCT/US2016/042564)
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[54] **ENRICHISSEMENT DE TEXTE ACTIF PAR L'OPERATEUR**
[72] LANDOW, KATE MEGAN CARNEY, US
[73] DISH TECHNOLOGIES L.L.C., US
[85] 2018-01-16
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[25] EN
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[54] **CREATION DE PUITS SPECTRAUX PERMETTANT D'INSERER DES FILIGRANES DANS DES SIGNAUX AUDIO**
[72] BLESSER, BARRY A., US
[73] TLS CORP., US
[85] 2018-01-19
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[25] EN
[54] **ANTISENSE OLIGOMER FOR EXON 45 SKIPPING**
[54] **OLIGOMERE ANTISENS POUR OUTREPASSER EXON 45**
[72] ENYA, YUKIKO, JP
[72] TONE, YUICHIRO, JP
[72] TAKEDA, SHIN'ICHI, JP
[72] AOKI, YOSHITSUGU, JP
[73] NIPPON SHINYAKU CO., LTD., JP
[73] NATIONAL CENTER OF NEUROLOGY AND PSYCHIATRY, JP
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[54] **PEPTIDE INHIBITORS OF TELOMERASE TRANSLOCATION AND THERAPEUTIC USES THEREOF**
[54] **INHIBITEURS PEPTIDIQUES DE TRANSLOCATION DE LA TELOMERASE ET LEURS UTILISATIONS THERAPEUTIQUES**
[72] EBBEN, JOHNATHAN D., US
[72] BEYER, ANDREAS M., US
[73] THE MEDICAL COLLEGE OF WISCONSIN, INC., US
[85] 2018-02-28
[86] 2016-08-26 (PCT/US2016/049053)
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[54] **CELLULE D'ELECTROLYSE A PRESSION ELEVEE OU DIFFERENTIELLE**
[72] ABOUATALLAH, RAMI MICHEL, CA
[72] WANG, RAINEY YU, CA
[72] JOOS, NATHANIEL IAN, CA
[73] HYDROGENICS CORPORATION, CA
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[13] C
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[25] EN
[54] **STEERABLE SHEATH CATHETER AND METHODS OF USE**
[54] **CATHETER A GAINE ORIENTABLE ET PROCEDES D'UTILISATION ASSOCIES**
[72] FLYGARE, MARK, US
[72] JENKINS, RICHARD D., US
[72] JENSEN, JON, US
[72] MCARTHUR, GREGORY R., US
[72] JENKINS, RICHARD PAUL, US
[73] MERIT MEDICAL SYSTEMS, INC., US
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[25] EN
[54] **VALVE SYSTEM FOR INFLATABLE DEVICES**
[54] **SYSTEME DE SOUPAPE POUR DISPOSITIFS GONFLABLES**
[72] TSAI, MINGLIANG LAWRENCE, US
[73] CONVATEC TECHNOLOGIES INC., US
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[54] **IMMUNO-ESSAI POUR LA DETERMINATION D'ANTICORPS MODIFIES DE LA REGION FC**
[72] STUBENRAUCH, KAY-GUNNAR, DE
[73] F. HOFFMANN-LA ROCHE AG, CH
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[54] **METHOD AND APPARATUS FOR APPLYING TENSION TO A SCREEN CLOTH ON A VIBRATING SCREENING MACHINE**
[54] **METHODE ET APPAREIL D'APPLICATION D'UNE TENSION A UN TISSU GRILLAGE SUR UNE MACHINE FILTRANTE VIBRANTE**
[72] STROUP, DAVID BRYAN, US
[73] TEREX USA, LLC, US
[86] (3006973)
[87] (3006973)
[22] 2018-06-01
[30] US (62/513,649) 2017-06-01
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[54] **SYSTEME DE MEMBRANE**
[72] BROUNS, DERK SERVATIUS GERTRUDA, NL
[72] JANSSEN, PAUL, NL
[72] KAMALI, MOHAMMAD REZA, NL
[72] PETER, MARIA, NL
[72] VAN DER ZANDE, WILLEM JOAN, NL
[72] VAN ZWOL, PIETER-JAN, NL
[72] VLES, DAVID FERDINAND, NL
[72] VOORTHUIJZEN, WILLEM-PIETER, NL
[73] ASML NETHERLANDS B.V., NL
[85] 2018-06-11
[86] 2016-12-02 (PCT/EP2016/079584)
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[54] **THERAPIE D'UN TROUBLE DU NEURODEVELOPPEMENT**
[72] MISSLING, CHRISTOPHER U., US
[73] ANAVEX LIFE SCIENCES CORP., US
[85] 2018-07-20
[86] 2017-01-24 (PCT/US2017/014702)
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[54] **STRIP-SHAPED PLASTIC OBJECT**
[54] **OBJET EN PLASTIQUE DE FORME DE BANDE**
[72] GAHLEITNER, THOMAS, AT
[73] TEUFELBERGER GESELLSCHAFT M.B.H., AT
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[25] EN
[54] **LIGHT-STABLE HOP EXTRACT**
[54] **EXTRAIT DE HOUBLON STABLE A LA LUMIERE**
[72] BROUWER, ERIC RICHARD, NL
[72] DEKONINCK, TINNE, NL
[72] VANBENEDEN, NELE, NL
[72] VAN VEEN, MARCEL, NL
[72] SCHOUTEN, MARIA ELIZABETH WILHELMINA, NL
[73] HEINEKEN SUPPLY CHAIN B.V., NL
[85] 2018-07-31
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[51] **Int.Cl. C12C 3/12 (2006.01) C12H 1/16 (2006.01)**
[25] EN
[54] **LIGHT-STABLE HOP EXTRACT**
[54] **EXTRAIT DE HOUBLON PHOTOSTABLE**
[72] BROUWER, ERIC RICHARD, NL
[72] DEKONINCK, TINNE, NL
[72] VANBENEDEN, NELE, NL
[72] VAN VEEN, MARCEL, NL
[72] SCHOUTEN, MARIA ELIZABETH WILHELMINA, NL
[73] HEINEKEN SUPPLY CHAIN B.V., NL
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[25] EN
[54] **SUBSTITUTED 4-BENZYL AND 4-BENZOYL PIPERIDINE DERIVATIVES**
[54] **DERIVES DE 4-BENZYL ET 4-BENZOYL-PIPERIDINE SUBSTITUES**
[72] BECKNELL, NADINE C., US
[72] DANDU, REDDEPPA REDDY, US
[72] DORSEY, BRUCE D., US
[72] GOTCHEV, DIMITAR B., US
[72] HUDKINS, ROBERT L., US
[72] WEINBERG, LINDA, US
[72] ZIFICSAK, CRAIG A., US
[73] 89BIO LTD, IL
[85] 2018-08-09
[86] 2016-06-17 (PCT/US2016/037980)
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[25] EN
[54] **SCREENING DEVICE**
[54] **DISPOSITIF DE TAMISAGE**
[72] ABT, SIMON, DE
[73] HUBER SE, DE
[85] 2018-08-22
[86] 2017-02-17 (PCT/EP2017/053609)
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[25] EN
[54] **ROTARY DAMPER**
[54] **AMORTISSEUR ROTATIF**
[72] KANEKO, RYOHEI, JP
[73] OILES CORPORATION, JP
[85] 2018-10-15
[86] 2017-05-11 (PCT/JP2017/017958)
[87] (WO2017/204000)
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[54] **USER TERMINAL AND RADIO COMMUNICATION METHOD**
[54] **TERMINAL UTILISATEUR ET METHODE DE COMMUNICATION RADIO**
[72] TAKEDA, KAZUKI, JP
[72] NAGATA, SATOSHI, JP
[72] WANG, LIHUI, CN
[72] LIU, LIU, CN
[72] JIANG, HUILING, CN
[73] NTT DOCOMO, INC., JP
[85] 2018-10-31
[86] 2017-05-11 (PCT/JP2017/017777)
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[25] EN
[54] **OPHTHALMIC COMPOSITIONS COMPRISING CHLORHEXIDINE AND AN ANTI-INFLAMMATORY AGENT**
[54] **COMPOSITIONS OPHTALMIQUES COMPRENANT DE LA CHLORHEXIDINE ET UN AGENT ANTI-INFLAMMATOIRE**
[72] SHABTO, URI, US
[73] SACSH, INC., US
[85] 2018-11-01
[86] 2017-05-05 (PCT/US2017/031211)
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[25] EN
[54] **MANAGEMENT SYSTEM FOR OBJECTS UNDER MONITORING AND METHOD OF IDENTIFYING BEACON TERMINALS**
[54] **SYSTEME DE GESTION D'OBJET CIBLE SURVEILLE ET PROCEDE DE RECONNAISSANCE DE TERMINAL DE BALISE**
[72] HAMADA, YUKI, JP
[72] KADONO, MASAKI, JP
[72] KATSUMATA, YOSHIAKI, JP
[72] OTAGAKI, SHUNICHI, JP
[72] YAMAMOTO, YASUHISA, JP
[73] CHIYODA CORPORATION, JP
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[25] EN
[54] **SHEAR RECOVERY FOR VISCOSIFYING SURFACTANTS IN STIMULATION FLUIDS**
[54] **REPRISE APRES CISAILLEMENT DES TENSIOACTIFS VISCOSIFIANTS DANS DES FLUIDES DE STIMULATION**
[72] NDONG, ROSE, US
[72] LIN, GENYAO, US
[72] KESAVAN, SUBRAMANIAN, US
[72] VILLAFANE, LOUIS, US
[72] ZHOU, JIAN, US
[73] ENERGY SOLUTIONS (US) LLC, US
[85] 2018-11-16
[86] 2017-05-25 (PCT/US2017/034424)
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[54] **DECONTAMINATION DEVICE AND METHOD FOR MEDICAL INSTRUMENTS**
[54] **DISPOSITIF DE DECONTAMINATION ET PROCEDE ASSOCIE POUR INSTRUMENTS MEDICAUX**
[72] VAN DEN HOUDT, ANDREAS ADRIANUS LAMBERTUS, NL
[72] VERHOEVEN, FRANCISCUS MARIA, NL
[72] PESSERS, PAUL HERMAN MARIA, NL
[73] LOG10 B.V., NL
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[86] 2016-05-20 (PCT/NL2016/050360)
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[54] **LOCKING MECHANISM FOR SLIDING DOOR SYSTEM**
[54] **MECANISME DE VERROUILLAGE DESTINE A UN SYSTEME DE PORTE COULISSANTE**
[72] CARTIER, PAUL, CA
[72] DIONNE, JEAN-PAUL, CA
[72] ROY, GASTON, CA
[72] SCHUNKE, ANDREAS, DE
[73] TECHNOLOGIES LANKA INC., CA
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[25] EN
[54] **METHOD AND APPARATUS FOR SEPARATION OF A SUBSTANCE FROM GROUNDWATER**
[54] **PROCEDE ET APPAREIL POUR LA SEPARATION D'UNE SUBSTANCE DE L'EAU SOUTERRAINE**
[72] PHILLIPS, STEVEN EDWARD, AU
[72] BRICKLE, GREGORY RAYMOND, AU
[72] BURNS, DAVID JOHN, AU
[73] OPEC REMEDIATION TECHNOLOGIES PTY LIMITED, AU
[85] 2018-12-07
[86] 2017-06-11 (PCT/AU2017/050581)
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[51] **Int.Cl. B67B 7/50 (2006.01) A47J 43/27 (2006.01)**
[25] EN
[54] **CAN PUNCTURING DEVICE AND METHOD**
[54] **DISPOSITIF DE PERCAGE DE CONTENANT ET METHODE**
[72] ABREU, ODILIO, CA
[73] ABREU, ODILIO, CA
[86] (3029723)
[87] (3029723)
[22] 2019-01-11
[30] US (15/875,328) 2018-01-19

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[51] **Int.Cl. G05B 19/418 (2006.01)**
[25] EN
[54] **ENERGY CONTROL METHOD AND APPARATUS FOR POWER CONSUMPTION SYSTEM**
[54] **PROCEDE DE REGULATION D'ENERGIE ET APPAREIL DE COMMANDE POUR SYSTEME DE CONSOMMATION D'ENERGIE**
[72] WEN, WU, CN
[72] REN, PENG, CN
[72] ZHAO, ZHIGANG, CN
[73] GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI, CN
[85] 2019-01-28
[86] 2017-04-21 (PCT/CN2017/081509)
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[30] CN (201610943937.1) 2016-11-02

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[54] **FLOTATION LINE AND A METHOD**
[54] **LIGNE DE FLOTTAISON ET PROCEDE**
[72] BOURKE, PETER GERARD, AU
[72] RINNE, ANTTI, FI
[72] COLEMAN, ROB, AU
[73] METSO OUTOTEC FINLAND OY, FI
[85] 2019-01-29
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[87] (WO2018/024945)
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[54] **SPECIALITY LOW SATURATES CANOLA OIL**
[54] **HUILE DE COLZA DE SPECIALITE A FAIBLE TENEUR EN COMPOSES SATURES**
[72] FLETCHER, RICHARD, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2019-02-07
[86] 2017-08-01 (PCT/US2017/044874)
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[54] **SYSTEMS AND METHODS FOR PROVIDING A SOCIAL MEDIA KNOWLEDGE BASE**
[54] **SYSTEMES ET PROCEDES DE FOURNITURE D'UNE BASE DE CONNAISSANCES DE MEDIAS SOCIAUX**
[72] LIU, XIAOMO, CH
[72] SHAH, SAMEENA, CH
[72] SHUAI, XIN, CH
[72] NOURBAKHSH, ARMINEH, CH
[73] THOMSON REUTERS ENTERPRISE CENTRE GMBH, CH
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[54] **METAL RECOVERY PROCESS**
[54] **PROCEDE DE RECUPERATION DE METAUX**
[72] BARKER, WILL, NZ
[72] CRUSH, OLIVER, NZ
[73] MINT INNOVATION LIMITED, NZ
[85] 2019-04-11
[86] 2017-10-31 (PCT/NZ2017/050142)
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[54] **SYSTEMS AND METHODS FOR RIDE CONTROL SYNCHRONIZATION**
[54] **SYSTEMES ET PROCEDES POUR UNE SYNCHRONISATION DE COMMANDE DE MANEGE**
[72] DEMBINSKI, KYLE ANDREW, US
[72] KING, STEVEN MORRIS, US
[73] UNIVERSAL CITY STUDIOS LLC, US
[85] 2019-04-18
[86] 2017-10-26 (PCT/US2017/058564)
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[25] EN
[54] **SYSTEM AND METHOD FOR MAKING AND APPLYING A NON-PORTLAND CEMENT-BASED MATERIAL**
[54] **SYSTEME ET PROCEDE DE FABRICATION ET D'APPLICATION DE MATERIAU A BASE DE CIMENT NON PORTLAND**
[72] CAMALI, EUGENE JAMES, US
[72] SCHRELL, ANDREAS, DE
[72] BENZ, ROBERT GEORGE, US
[73] EN-TECH CORPORATION, US
[85] 2019-05-03
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[54] **CHEMFET ARRAY**
[54] **RESEAU CHEMFET**
[72] GARNER, DAVID MICHAEL, GB
[72] MOHTASHEMI, DARYA, GB
[72] POON, TUCK WENG, GB
[73] DNAE DIAGNOSTICS LIMITED, GB
[85] 2019-05-07
[86] 2017-11-02 (PCT/GB2017/053304)
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[25] EN
[54] **TACKY DYE SUBLIMATION COATING AND METHOD OF MAKINGS AND USING THE SAME**
[54] **REVETEMENT DE SUBLIMATION DE COLORANT COLLANT ET PROCEDE DE FABRICATION ET D'UTILISATION DE CELUI-CI**
[72] CIUPAK, BRIAN, US
[73] NEENAH, INC., US
[85] 2019-06-03
[86] 2017-11-21 (PCT/US2017/062803)
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[25] EN
[54] **A TURBINE FOR EXTRACTING KINETIC ENERGY FROM FLOWING FLUID, AND RELATED METHODS AND SYSTEMS**
[54] **TURBINE POUR L'EXTRACTION D'ENERGIE CINETIQUE D'UN FLUIDE EN CIRCULATION, AINSI QUE PROCEDES ET SYSTEMES ASSOCIES**
[72] SMITH, NATHAN J., US
[73] CANYON INDUSTRIES, INC., US
[85] 2019-06-18
[86] 2016-06-01 (PCT/US2016/035252)
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[25] EN
[54] **PULSE-BASED BREAD CRUMB, COATING AND PRE-DUST ANALOG PROCESS FOR MANUFACTURING THE SAME**
[54] **MIETTES DE PAIN, ENROBAGES, PATES D'ADHERENCE ET PROCEDE ANALOGIQUE POUR LEUR FABRICATION**
[72] TULBEK, MEHMET, CA
[72] VITALE, DAVIDE, CA
[72] KNUDSON, LES, CA
[72] BARTSCH, ERIC, CA
[73] AGT FOOD AND INGREDIENTS INC., CA
[86] (3049198)
[87] (3049198)
[22] 2019-07-12
[30] US (62/697,838) 2018-07-13

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[25] EN
[54] **STORED-ENERGY PRESSURE ACTIVATED COMPLETION AND TESTING TOOLS AND METHODS OF USE**
[54] **OUTILS DE TEST ET DE COMPLETION ACTIONNES PAR PRESSION D'ENERGIE ACCUMULEE ET PROCEDES D'UTILISATION**
[72] ARABSKYY, SERHIY, CA
[72] BARABASH, ANDREW, CA
[73] INTERRA ENERGY SERVICES LTD., CA
[85] 2019-08-15
[86] 2018-02-21 (PCT/CA2018/000032)
[87] (WO2018/152615)
[30] US (62/462,005) 2017-02-22

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[13] C
[51] **Int.Cl. G06F 16/53 (2019.01) G06F 16/538 (2019.01) G08B 13/196 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ENHANCING A VMS BY INTELLIGENTLY EMPLOYING ACCESS CONTROL INFORMATION THEREIN**
[54] **PROCEDE ET SYSTEME POUR AMELIORER UN SYSTEME D'EXPLOITATION A MEMOIRE VIRTUELLE (VMS) EN UTILISANT DE MANIERE INTELLIGENTE LES DONNEES DE CONTROLE D'ACCES**
[72] LEMAY, CHRISTIAN, CA
[72] LEWIS, STEVEN, CA
[72] MCVEY, IAIN, CA
[72] QUEK, ELAINE LING A., CA
[72] WESTON, WILLIAM CHRISTOPHER, CA
[73] MOTOROLA SOLUTIONS, INC., US
[86] (3055600)
[87] (3055600)
[22] 2019-09-13
[30] US (16/526,853) 2019-07-30

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[51] **Int.Cl. F15B 11/17 (2006.01)**
[25] EN
[54] **APPARATUS FOR CONTROLLING A HYDRAULIC MACHINE**
[54] **DISPOSITIF DE REGULATION D'UNE MACHINE HYDRAULIQUE**
[72] ZELLER, THOMAS, DE
[72] HOHAGE, ROUVEN, DE
[73] VOITH PATENT GMBH, DE
[85] 2019-09-27
[86] 2018-02-08 (PCT/EP2018/053164)
[87] (WO2018/177641)
[30] DE (10 2017 106 700.0) 2017-03-29

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[13] C
[51] **Int.Cl. G08G 9/00 (2006.01) B64U 70/00 (2023.01) G06Q 10/083 (2023.01) G08G 5/00 (2006.01)**
[25] EN
[54] **ESTABLISHING A LOCATION FOR UNMANNED DELIVERY/PICKUP OF A PARCEL**
[54] **ETABLISSEMENT D'UN LIEU DE LIVRAISON/RAMASSAGE SANS PILOTE D'UN COLIS**
[72] FERGUSON, JEROME, US
[72] COOPER, JEFFREY, US
[73] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2019-10-08
[86] 2018-06-22 (PCT/US2018/039097)
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[30] US (15/643,849) 2017-07-07

[11] **3,062,499**
[13] C
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/55 (2006.01) A61P 31/20 (2006.01)**
[25] EN
[54] **BENZO[F]PYRIDO[1,2-D][1,4]OXAZEPINE DERIVATIVES AND PHARMACEUTICAL COMPOSITIONS THEREOF USEFUL AS HEPATITIS B VIRUS SURFACE ANTIGEN INHIBITOR**
[54] **DERIVES DE BENZO[F]PYRIDO[1,2-D][1,4]OXAZEPINE ET COMPOSITIONS PHARMACEUTIQUES CONNEXES UTILES COMME INHIBITEUR DE L'ANTIGENE DE SURFACE DU VIRUS DE L'HEPATITE B**
[72] DING, CHARLES Z., CN
[72] SUN, FEI, CN
[72] HU, YANBIN, CN
[72] CHEN, SHUHUI, CN
[73] FUJIAN AKEYLINK BIOTECHNOLOGY CO., LTD., CN
[85] 2019-11-05
[86] 2018-05-22 (PCT/CN2018/087852)
[87] (WO2018/214875)
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[51] **Int.Cl. G01N 33/557 (2006.01) G01N 33/48 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01) G06F 17/10 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETERMINING EQUILIBRIUM DISSOCIATION CONSTANT OF A REVERSIBLE BINDING PAIR**
[54] **PROCEDE ET SYSTEME DE DETERMINATION D'UNE CONSTANTE DE DISSOCIATION D'EQUILIBRE D'UNE PAIRE DE LIAISON REVERSIBLE**
[72] KRYLOV, SERGEY, CA
[72] SISAVATH, NICOLAS, FR
[73] KRYLOV, SERGEY, CA
[85] 2019-11-13
[86] 2018-05-14 (PCT/CA2018/050568)
[87] (WO2018/209433)
[30] US (62/506,520) 2017-05-15

[11] **3,065,223**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61B 17/00 (2006.01) A61B 17/04 (2006.01) A61B 17/34 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CARDIAC PROCEDURES**
[54] **PROCEDE ET APPAREIL POUR INTERVENTIONS CARDIAQUES**
[72] NILAND, WILLIAM, US
[72] CORTEZ, FELINO, V., JR., US
[72] GAMMIE, JAMES S., US
[72] D'AMBRA, MICHAEL NICHOLAS, US
[72] WILSON, PETER, US
[72] COURNANE, STEPHEN, US
[73] HARPOON MEDICAL, INC., US
[73] UNIVERSITY OF MARYLAND, BALTIMORE, US
[85] 2019-11-26
[86] 2018-06-19 (PCT/US2018/038245)
[87] (WO2018/236843)
[30] US (62/521,784) 2017-06-19

[11] **3,065,844**
[13] C
[51] **Int.Cl. H01R 4/62 (2006.01) H01R 11/12 (2006.01)**
[25] EN
[54] **JOINT BETWEEN COPPER TERMINAL AND ALUMINUM WIRE, AND MAGNETIC INDUCTION WELDING METHOD THEREFOR**
[54] **JOINT ENTRE UNE BORNE EN CUIVRE ET UN FIL D'ALUMINIUM, ET PROCEDE ASSOCIE DE SOUDAGE PAR INDUCTION MAGNETIQUE**
[72] WANG, CHAO, CN
[73] JILIN ZHONG YING HIGH TECHNOLOGY CO., LTD., CN
[85] 2019-12-02
[86] 2018-05-31 (PCT/CN2018/089207)
[87] (WO2018/223885)
[30] CN (201710415138.1) 2017-06-05

[11] **3,066,027**
[13] C
[51] **Int.Cl. D21H 21/02 (2006.01) D21C 9/00 (2006.01) D21H 21/04 (2006.01) D21H 21/20 (2006.01)**
[25] EN
[54] **COMPOSITION, ITS USE AND METHOD FOR REMOVING AND PREVENTING WET STRENGTH RESINS FROM CONTAMINATING PAPERMAKING EQUIPMENT**
[54] **COMPOSITION, SON UTILISATION ET PROCEDE PERMETTANT D'ELIMINER ET D'EMPECHER LA CONTAMINATION D'UN EQUIPEMENT DE FABRICATION DE PAPIER PAR DES RESINES RESISTANTES A L'HUMIDITE**
[72] ZOU, YONG, US
[72] LUO, YUPING, US
[72] CASASUS, ANNA, US
[73] KEMIRA OYJ, FI
[85] 2019-12-03
[86] 2018-06-26 (PCT/FI2018/050500)
[87] (WO2019/002682)
[30] US (62/527,027) 2017-06-29
[30] FI (20175707) 2017-08-01

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[51] **Int.Cl. G01N 27/414 (2006.01) B82Y 15/00 (2011.01) H01L 29/16 (2006.01) H01L 29/772 (2006.01)**
[25] EN
[54] **POLAR FLUID GATED FIELD EFFECT DEVICES**
[54] **DISPOSITIFS A EFFET DE CHAMP DONT LA GRILLE EST CONSTITUEE PAR UN FLUIDE POLAIRE**
[72] GUDIBANDE, RAJATESCH, R., US
[72] RADHAKRISHNAN, SAURABH, US
[72] GALAND, ANTOINE, US
[72] VORA, MEET, US
[73] GRAPHWEAR TECHNOLOGIES INC., US
[85] 2019-12-13
[86] 2017-06-30 (PCT/IB2017/001003)
[87] (WO2017/216641)
[30] US (62/356,729) 2016-06-30
[30] US (62/356,742) 2016-06-30

[11] **3,068,808**
[13] C
[51] **Int.Cl. G03F 7/42 (2006.01)**
[25] EN
[54] **AMIDE COMBINATIONS FOR CLEANING AND STRIPPING OF ELECTRONIC PARTS**
[54] **COMBINAISONS D'AMIDES POUR LE NETTOYAGE ET LE DECAPAGE DE PIECES ELECTRONIQUES**
[72] JIANG, QI, CN
[72] JIANG, XIN, CN
[72] REN, HUA, CN
[72] KIM, EUNGKYU, US
[72] MU, JIANHAI, CN
[72] OHBA, KAORU, JP
[72] HARRIS, WILLIAM J., US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2020-01-02
[86] 2017-07-06 (PCT/CN2017/091996)
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[11] **3,074,598**
[13] C
[51] **Int.Cl. A61N 1/18 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **SKIN REJUVENATION DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DERAJEUNISSEMENT DE LA PEAU**
[72] CAMPBELL, MARK, US
[72] MURPHY, THOMAS, US
[73] HER TECHNOLOGIES, INC., US
[85] 2020-03-02
[86] 2018-08-30 (PCT/IB2018/056649)
[87] (WO2019/043628)
[30] US (62/553,372) 2017-09-01

[11] **3,076,296**
[13] C
[51] **Int.Cl. C02F 1/66 (2006.01) C02F 1/76 (2006.01)**
[25] EN
[54] **METHOD FOR THE TREATMENT OF WASTEWATERS**
[54] **PROCEDE POUR LE TRAITEMENT D'EAUX USEES**
[72] GOMEZ LEIVA, PATRICIA, ES
[72] MENENDEZ DELMIRO, VANESA, ES
[72] PADILLA VIVAS, BEATRIZ, ES
[73] ARCELORMITTAL, LU
[85] 2020-03-18
[86] 2018-12-13 (PCT/IB2018/060006)
[87] (WO2019/116297)
[30] IB (PCT/IB2017/057927) 2017-12-14

[11] **3,083,630**
[13] C
[51] **Int.Cl. G05D 1/69 (2024.01) G05D 1/667 (2024.01)**
[25] EN
[54] **A CONTROLLER AND METHOD FOR TRANSPORTING DEVICES**
[54] **DISPOSITIF DE COMMANDE ET PROCEDE ASSOCIES A DES DISPOSITIFS DE TRANSPORT**
[72] STADIE, ROBERT, GB
[72] WHELAN, MATTHEW, GB
[72] SIRET, GARETH, GB
[73] OCADO INNOVATION LIMITED, GB
[85] 2020-05-22
[86] 2019-01-15 (PCT/IB2019/050297)
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[11] **3,085,187**
[13] C
[51] **Int.Cl. C08G 61/12 (2006.01) B01J 19/18 (2006.01) C08F 12/28 (2006.01) C08F 12/30 (2006.01) C08G 73/02 (2006.01) C08K 5/04 (2006.01) C08K 5/42 (2006.01) H01B 1/24 (2006.01)**
[25] EN
[54] **CONTINUOUS FLOW PROCESS FOR PREPARING CONDUCTING POLYMERS**
[54] **PROCEDE EN FLUX CONTINU POUR LA PREPARATION DE POLYMERES CONDUCTEURS**
[72] KOHL, THOMAS, AU
[72] TSANAKTSIDIS, JOHN, AU
[72] HORNUNG, CHRISTIAN, AU
[72] KINLEN, PATRICK J., US
[72] BRUTON, ERIC A., US
[72] FLACK, MATTHEW, US
[72] ZWEIG, ANDREW M., US
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[73] THE BOEING COMPANY, US
[85] 2020-06-09
[86] 2018-12-12 (PCT/AU2018/051324)
[87] (WO2019/113640)
[30] US (62/597,808) 2017-12-12
[30] US (62/660,552) 2018-04-20

[11] **3,085,818**
[13] C
[51] **Int.Cl. G01T 1/185 (2006.01)**
[25] EN
[54] **A RADIATION DETECTOR**
[54] **DETECTEUR DE RAYONNEMENT**
[72] SABBA, NICOLA, IT
[72] MORETTI, ELENA, IT
[73] MURPHIL S.R.L., IT
[85] 2020-06-15
[86] 2018-12-19 (PCT/IB2018/060322)
[87] (WO2019/123304)
[30] IT (102017000146433) 2017-12-19

[11] **3,088,404**
[13] C
[51] **Int.Cl. E03C 1/266 (2006.01) B02C 18/16 (2006.01)**
[25] EN
[54] **FOOD WASTE DISPOSER INTERLOCK DEVICE**
[54] **DISPOSITIF D'INTERVERROUILLAGE D'APPAREIL D'ELIMINATION DES DECHETS ALIMENTAIRES**
[72] REIDEL, BRUCE, US
[72] BALDWIN, ORAN, III, US
[73] MOUNTAIN ACCESSORIES, INC., DBA MOUNTAIN PLUMBING PRODUCTS, US
[86] (3088404)
[87] (3088404)
[22] 2020-07-29
[30] US (16/525,545) 2019-07-29

[11] **3,090,069**
[13] C
[51] **Int.Cl. A61N 5/10 (2006.01) G01R 33/422 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR SHIELDING A LINEAR ACCELERATOR AND A MAGNETIC RESONANCE IMAGING DEVICE FROM EACH OTHER**
[54] **PROCEDE ET APPAREIL POUR BLINDER UN ACCELERATEUR LINEAIRE ET UN DISPOSITIF D'IMAGERIE PAR RESONANCE MAGNETIQUE L'UN DE L'AUTRE**
[72] DEMEESTER, GORDON, US
[72] DEMPSEY, JAMES F., US
[72] PATRICK, JOHN LESTER, II, US
[72] SHVARTSMAN, SHMARYU, US
[73] VIEWRAY TECHNOLOGIES, INC., US
[86] (3090069)
[87] (3090069)
[22] 2010-07-15
[62] 2,760,055
[30] US (61/225,771) 2009-07-15

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[13] C
[51] **Int.Cl. A22C 25/14 (2006.01)**
[25] EN
[54] **GUTTING MACHINE AND A METHOD FOR GUTTING FISH IN A GUTTING MACHINE**
[54] **MACHINE D'EVISCERATION ET PROCEDE D'EVISCERATION DE POISSONS DANS UNE MACHINE D'EVISCERATION**
[72] SEIM, KNUT INGE, NO
[72] SOLBERG, RONNY, NO
[73] KNURO AS, NO
[85] 2020-08-05
[86] 2019-02-04 (PCT/NO2019/050031)
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[30] NO (20180194) 2018-02-07

[11] **3,090,631**
[13] C
[51] **Int.Cl. H02P 29/00 (2016.01) H02H 7/08 (2006.01) G01R 19/00 (2006.01)**
[25] EN
[54] **MOTOR PROTECTION RELAY INTERFACE USING MAGNETOMETER-BASED SENSORS**
[54] **INTERFACE DE RELAIS DE PROTECTION DE MOTEUR UTILISANT DES CAPTEURS DE MAGNETOMETRE**
[72] SIMMS, STAN R., US
[72] FARR, THOMAS A., US
[72] TANG, HANNING, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[86] (3090631)
[87] (3090631)
[22] 2020-08-20
[30] US (16/556970) 2019-08-30

[11] **3,092,607**
[13] C
[51] **Int.Cl. G02C 7/06 (2006.01) G02C 7/08 (2006.01)**
[25] EN
[54] **LENS ELEMENT**
[54] **ELEMENT DE LENTILLE**
[72] GUILLOT, MATTHIEU, FR
[72] DROBE, BJORN, SG
[73] ESSILOR INTERNATIONAL, FR
[85] 2020-08-31
[86] 2019-03-01 (PCT/EP2019/055216)
[87] (WO2019/166654)
[30] EP (18305216.6) 2018-03-01
[30] EP (18305217.4) 2018-03-01
[30] EP (18305384.2) 2018-03-30
[30] EP (18305385.9) 2018-03-30
[30] EP (18305435.2) 2018-04-11
[30] EP (18305436.0) 2018-04-11
[30] EP (18305526.8) 2018-04-26
[30] EP (18305527.6) 2018-04-26

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[13] C
[51] **Int.Cl. G05D 1/69 (2024.01) G05D 1/24 (2024.01) G05D 1/622 (2024.01) G05D 1/644 (2024.01)**
[25] EN
[54] **SWARM PATH PLANNER SYSTEM FOR VEHICLES**
[54] **SYSTEME DE PLANIFICATION DE TRAJET EN ESSAIM POUR VEHICULES**
[72] PAGLIERONI, DAVID W., US
[72] BEER, N. REGINALD, US
[72] CHAMBERS, DAVID, US
[73] LAWRENCE LIVERMORE NATIONAL SECURITY, LLC, US
[85] 2020-09-09
[86] 2017-04-12 (PCT/US2017/027253)
[87] (WO2018/190833)

[11] **3,095,955**
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[51] **Int.Cl. C07D 471/22 (2006.01) A61K 31/519 (2006.01) A61K 31/5383 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 487/22 (2006.01)**
[25] EN
[54] **TROPOMYOSIN RECEPTOR KINASE INHIBITOR, PREPARATION METHOD THEREOF AND USE THEREOF**
[54] **INHIBITEUR DU RECEPTEUR DE KINASE A LIE A LA TROPOMYOSINE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] WU, YONG, CN
[72] ZHOU, WENBIN, CN
[72] GONG, YANCHUN, CN
[72] YUE, YAOXIANG, CN
[72] DENG, JIE, CN
[72] LIU, YONGQIANG, CN
[73] JIANGSU VCARE PHARMATECH CO., LTD., CN
[85] 2020-10-02
[86] 2019-06-06 (PCT/CN2019/090226)
[87] (WO2019/233461)
[30] CN (201810597223.9) 2018-06-08
[30] CN (201910467671.1) 2019-05-31

[11] **3,098,219**
[13] C
[51] **Int.Cl. C07D 279/20 (2006.01) A61K 31/5415 (2006.01) A61K 31/551 (2006.01) A61P 9/10 (2006.01) C07D 417/06 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **A 10H-PHENOTHIAZINE FERROPTOSIS INHIBITOR AS WELL AS THE PREPARATIVE METHOD AND THE USE THEREOF**
[54] **INHIBITEUR DE FERROPTOSE 10H-PHENOTHIAZINE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] YANG, SHENGYONG, CN
[72] LI, LINLI, CN
[73] CHENGDU HENGHAO INVESTMENT CO. LIMITED, CN
[85] 2020-10-23
[86] 2019-03-25 (PCT/CN2019/079421)
[87] (WO2019/205854)
[30] CN (201810393712.2) 2018-04-27
[30] CN (201910124457.6) 2019-02-19
[30] CN (201910122341.9) 2019-02-19

[11] **3,098,339**
[13] C
[51] **Int.Cl. B23Q 16/02 (2006.01)**
[25] EN
[54] **REPEATABLE PRECISION MOUNTING OF MECHANICAL PARTS**
[54] **MONTAGE DE PRECISION REPETABLE DE PIECES MECANIQUES**
[72] LAMONTAGNE, FREDERIC, CA
[72] DESNOYERS, NICHOLA, CA
[73] INSTITUT NATIONAL D'OPTIQUE, CA
[86] (3098339)
[87] (3098339)
[22] 2020-11-06
[30] US (62/931474) 2019-11-06

[11] **3,106,482**
[13] C
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL FIBER CABLE**
[54] **CABLE A FIBRES OPTIQUES**
[72] SATO, SHINNOSUKE, JP
[72] ISAJI, MIZUKI, JP
[72] TOMIKAWA, KOJI, JP
[72] OSATO, KEN, JP
[73] FUJIKURA LTD., JP
[85] 2021-01-13
[86] 2019-09-03 (PCT/JP2019/034515)
[87] (WO2020/054493)
[30] JP (2018-169597) 2018-09-11
[30] JP (2018-194103) 2018-10-15
[30] JP (2018-211366) 2018-11-09

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[13] C
[51] **Int.Cl. F15B 15/22 (2006.01)**
[25] EN
[54] **ACTUATOR WITH SNUBBER ASSEMBLY**
[54] **ACTIONNEUR POURVU D'UN ENSEMBLE AMORTISSEUR**
[72] VAN OMMEN, HERMAN, NL
[72] WARMERDAM, JEAN PAUL, NL
[72] VAN DER HOLST, REMCO, NL
[73] MOOG BV, NL
[85] 2021-01-19
[86] 2019-07-25 (PCT/EP2019/070075)
[87] (WO2020/021027)
[30] GB (1812316.6) 2018-07-27

[11] **3,107,887**
[13] C
[51] **Int.Cl. A01K 5/01 (2006.01)**
[25] EN
[54] **A THERAPEUTIC APPARATUS FOR AN ANIMAL**
[54] **APPAREIL THERAPEUTIQUE POUR UN ANIMAL**
[72] CLARKE, HAZEL, AU
[72] CLARKE, JOSEPH, AU
[73] INNOVATIVE PET PRODUCTS PTY LTD, AU
[85] 2021-01-27
[86] 2018-07-24 (PCT/AU2018/050767)
[87] (WO2019/018887)
[30] AU (2017902963) 2017-07-27

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[13] C
[51] **Int.Cl. H04M 3/523 (2006.01) H04Q 3/64 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ANTICIPATORY DYNAMIC CUSTOMER SEGMENTATION FOR A CONTACT CENTER**
[54] **SYSTEME ET PROCEDE D'ANTICIPATION DE LA SEGMENTATION DYNAMIQUE D'UN CLIENT POUR UN CENTRE D'APPELS**
[72] HOLLENBERG, TODD, US
[72] KRUG, BRADLEY, US
[72] RISTOCK, HERBERT WILLI ARTUR, US
[72] TOERCK, CHARLOTTE, US
[72] KOROLEV, NIKOLAY, US
[72] ANDERSON, DAVID H., US
[73] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US
[86] (3108013)
[87] (3108013)
[22] 2015-07-30
[62] 2,960,043
[30] US (14/450,195) 2014-08-01
[30] US (14/450,194) 2014-08-01
[30] US (14/450,190) 2014-08-01

[11] **3,110,959**
[13] C
[51] **Int.Cl. F16K 51/00 (2006.01) F16K 3/22 (2006.01) F16K 27/04 (2006.01)**
[25] EN
[54] **DIELECTRIC UNION BALL VALVE**
[54] **ROBINET A TOURNANT SPHERIQUE DE RACCORD-UNION DIELECTRIQUE**
[72] MASON, CHRISTOPHER W., US
[73] NIBCO INC., US
[86] (3110959)
[87] (3110959)
[22] 2021-03-02
[30] US (17/117.562) 2020-12-10

[11] **3,114,717**
[13] C
[51] **Int.Cl. B65D 73/02 (2006.01) B65D 83/04 (2006.01) B65D 83/08 (2006.01) B65D 85/672 (2006.01)**
[25] EN
[54] **MEDICAL ELECTRODE DISPENSER**
[54] **DISTRIBUTEUR D'ELECTRODE MEDICALE**
[72] HART, JOHN E., US
[72] DONALDSON, TIMOTHY A., US
[73] CONMED CORPORATION, US
[85] 2021-03-26
[86] 2019-10-23 (PCT/US2019/057563)
[87] (WO2020/086661)
[30] US (62/749,146) 2018-10-23

[11] **3,117,084**
[13] C
[51] **Int.Cl. G06T 5/50 (2006.01) G06T 11/00 (2006.01) G06Q 50/02 (2012.01) G06T 5/60 (2024.01)**
[25] EN
[54] **GENERATION OF SYNTHETIC HIGH-ELEVATION DIGITAL IMAGES FROM TEMPORAL SEQUENCES OF HIGH-ELEVATION DIGITAL IMAGES**
[54] **GENERATION D'IMAGES NUMERIQUES SYNTHETIQUES DE HAUTE ALTITUDE A PARTIR DE SEQUENCES TEMPORELLES D'IMAGES NUMERIQUES DE HAUTE ALTITUDE**
[72] YANG, JIE, US
[72] GUO, CHENG-EN, US
[72] YUAN, ZHIQIANG, US
[72] GRANT, ELLIOTT, US
[72] MA, HONGXU, US
[73] MINERAL EARTH SCIENCES LLC, US
[85] 2021-04-19
[86] 2019-10-18 (PCT/US2019/056883)
[87] (WO2020/081902)
[30] US (62/748,296) 2018-10-19
[30] US (16/242,873) 2019-01-08

[11] **3,118,119**
[13] C
[51] **Int.Cl. F02N 15/08 (2006.01) F16D 7/02 (2006.01)**
[25] EN
[54] **ALL-TERRAIN VEHICLE AND STARTING PROTECTOR FOR ALL-TERRAIN VEHICLE**
[54] **VEHICULE TOUT-TERRAIN ET PROTECTEUR DE DEMARRAGE POUR VEHICULE TOUT-TERRAIN**
[72] CHEN, SHANGJIAN, CN
[73] SEGWAY TECHNOLOGY CO., LTD., CN
[86] (3118119)
[87] (3118119)
[22] 2021-05-12
[30] CN (202020783430.6) 2020-05-12

[11] **3,118,206**
[13] C
[51] **Int.Cl. E21B 17/10 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **FRACTURING SYSTEM WITH FLUID CONDUIT HAVING COMMUNICATION LINE**
[54] **SYSTEME DE FRACTURATION COMPRENANT UN CONDUIT DE FLUIDE AYANT UNE LIGNE DE COMMUNICATION**
[72] GUIDRY, KIRK P., US
[73] SCHLUMBERGER CANADA LIMITED, CA
[85] 2021-04-29
[86] 2019-10-31 (PCT/US2019/059013)
[87] (WO2020/092679)
[30] US (16/176,898) 2018-10-31

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[13] C
[51] **Int.Cl. B65H 19/18 (2006.01)**
[25] EN
[54] **SUPPLY OF SHEET STOCK MATERIAL FOR A DUNNAGE CONVERSION MACHINE AND A METHOD OF CONVERTING SAME INTO A DUNNAGE PRODUCT**
[54] **ALIMENTATION EN MATIERE PREMIERE EN FEUILLE POUR UNE MACHINE DE CONVERSION DE FARDAGE, ET PROCEDE DE CONVERSION DE CELLE-CI EN UN PRODUIT DE FARDAGE**
[72] CHEICH, ROBERT C., US
[72] WAGNER, DENNIS J., US
[72] STINARD, BRIAN, US
[72] VAN OOL, HUGO, NL
[72] HANSSEN, LEON, NL
[72] TIMMERS, MIKE, NL
[73] RANPAK CORP., US
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[54] **HIDDEN FLANGE CHILD RESISTANT CLOSURE FOR RECLOSEABLE POUCH AND METHODS**
[54] **FERMETURE A L'EPREUVE DES ENFANTS A BRIDE CACHEE POUR POCHE REFERMABLE ET PROCEDES**
[72] HANSEN, WILLIAM BRADFORD, US
[72] AUSTRENG, ANDREW R., US
[73] REYNOLDS PRESTO PRODUCTS INC., US
[85] 2021-05-19
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[54] **MULTIFUNCTIONAL SYSTEM FOR ADAPTABLE HARVESTING**
[54] **SYSTEME MULTIFONCTIONNEL POUR RECOLTE ADAPTABLE**
[72] LAPALME, ERIC, CA
[73] SAMI AGTECH INC., CA
[85] 2021-05-20
[86] 2019-12-09 (PCT/CA2019/051769)
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[54] **9-SUBSTITUTED AMINO TRIAZOLO QUINAZOLINE DERIVATIVES AS ADENOSINE RECEPTOR ANTAGONISTS, PHARMACEUTICAL COMPOSITIONS AND THEIR USE**
[54] **DERIVES AMINO TRIAZOLO QUINAZOLINE 9-SUBSTITUES UTILES EN TANT QU'ANTAGONISTES DU RECEPTEUR DE L'ADENOSINE, COMPOSITIONS PHARMACEUTIQUES ET LEUR UTILISATION**
[72] LARSEN, MATTHEW A., US
[72] ALI, AMJAD, US
[72] CUMMING, JARED, US
[72] DEMONG, DUANE, US
[72] DENG, QIAOLIN, US
[72] GRAHAM, THOMAS H., US
[72] HENNESSY, ELISABETH, US
[72] HOOVER, ANDREW J., US
[72] LIU, PING, US
[72] LIU, KUN, US
[72] MANSOOR, UMAR FARUK, US
[72] PAN, JIANPING, US
[72] PLUMMER, CHRISTOPHER W., US
[72] SATHER, AARON, US
[72] SWAMINATHAN, UMA, US
[72] WANG, HUIJUN, US
[72] ZHANG, YONGLIAN, US
[73] MERCK SHARP & DOHME LLC, US
[85] 2021-05-21
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[25] EN
[54] **SEPARABLE WHEEL PACK ASSEMBLY**
[54] **ENSEMBLE SAC DE ROUES SEPARABLE**
[72] KELLING, JEFFERY, US
[73] KELLING, JEFFERY, US
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[25] EN
[54] **DISTRIBUTED DIAGNOSTICS AND CONTROL OF A MULTI-UNIT PUMPING OPERATION**
[54] **DIAGNOSTIC ET CONTROLE DISTRIBUES D'UNE EXPLOITATION DE POMPAGE A PLUSIEURS UNITES**
[72] STARK, DANIEL JOSHUA, US
[72] PARSEGOV, SERGEI, US
[72] SWAMINATHAN, TIRUMANI, US
[72] RAY, BAIDURJA, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[86] (3125460)
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[25] EN
[54] **WOVEN FABRIC, METHOD FOR PRODUCING SAME, AND FIBER PRODUCT CONTAINING SAID WOVEN FABRIC**
[54] **TISSU TISSE, SON PROCEDE DE FABRICATION ET PRODUIT FIBREUX CONTENANT LEDIT TISSU TISSE**
[72] KOZUKA, KAZUNORI, JP
[72] ONISHI, TOMOYA, JP
[73] ASAHI KASEI KABUSHIKI KAISHA, JP
[85] 2021-07-15
[86] 2020-02-07 (PCT/JP2020/004957)
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[54] **SYSTEMS AND METHODS FOR FLUID LEAK DETECTION**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE FUITE DE FLUIDE**
[72] MESS, FRANCIS MCCARTHY, US
[72] KENT, IAN, US
[72] ALMIRAL, JORGE CARLOS, US
[72] GESTNER, BRIAN, US
[72] ELIA, SAMUEL HANY, US
[73] STREAMLABS, INC., US
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[54] **NOTCHED INGOT IMPROVING A LINE PRODUCTIVITY**
[54] **LINGOT ENTAILLE AMELIORANT LA PRODUCTIVITE DE LIGNE**
[72] DECHASSEY, EMMANUEL, ES
[72] MEMNI, WOUDHOUH, FR
[72] VICENTE-HERNANDEZ, PATRICE, ES
[73] ARCELORMITTAL, LU
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[25] EN
[54] **USE OF METAL IONS TO POTENTIATE THE THERAPEUTIC EFFECTS OF ARSENIC**
[54] **UTILISATION D'IONS METALLIQUES POUR POTENTIALISER LES EFFETS THERAPEUTIQUES DE L'ARSENIC**
[72] RIEGER, FRANCOIS, CH
[72] BATTEUX, FREDERIC, FR
[73] MEDSENIC, FR
[85] 2021-11-17
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[25] EN
[54] **USE OF NATURAL ATTAPULGITE AS NATURAL NANO MINERAL ENZYME**
[54] **APPLICATION D'ATTAPULGITE NATURELLE EN TANT QU'ENZYME MINERALE NATURELLE NANOMETRIQUE**
[72] ZHANG, YIHE, CN
[72] LIANG, MINMIN, CN
[72] FENG, FENG, CN
[72] WANG, PEIXIA, CN
[72] TONG, WANGSHU, CN
[72] AN, QI, CN
[73] CHINA UNIVERSITY OF GEOSCIENCES (BEIJING), CN
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[54] **BARBECUE BASKET**
[54] **PANIER A BARBECUE**
[72] WANG, MIN, CN
[73] HAOHONG ELECTRIC TECHNOLOGY (HUBEI) CO., LTD., CN
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[25] EN
[54] **SENSOR SUSPENSION SYSTEM AND ASSOCIATED DEPLOYMENT SYSTEMS FOR UNDERWATER DEPLOYMENT OF SENSOR ARRAY**
[54] **SYSTEME DE SUSPENSION DE CAPTEUR ET SYSTEMES DE DEPLOIEMENT ASSOCIES POUR LE DEPLOIEMENT SOUS-MARIN D'UN RESEAU DE CAPTEURS**
[72] MISULIA, JOSEPH, US
[73] RAYTHEON COMPANY, US
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[25] EN
[54] **LAWN CARE VEHICLE WITH HEADS UP MOWER CONTROLS**
[54] **VEHICULE D'ENTRETIEN DE PELOUSE AVEC COMMANDES DE TONDEUSE TETE HAUTE**
[72] PETERS, FRANK, US
[72] VAN BUREN, CHRISTOPHER, US
[72] SCHOONMAKER, ADAM, US
[72] DWYER, SEAN, US
[73] HUSQVARNA AB, SE
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[54] **HIGH EFFICIENCY LAWN MOWER BLADE**
[54] **LAME DE TONDEUSE A GAZON A HAUTE EFFICACITE**
[72] SOUTHWELL, JOHN, US
[73] HUSQVARNA AB, SE
[85] 2021-11-30
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[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING AND REMOVING DEFLECTION STRESSES FROM IRRIGATION MACHINE SPANS**
[54] **SYSTEME ET PROCEDE DE DETECTION ET D'ELIMINATION DE CONTRAINTES DE DEVIATION DE PORTEES DE MACHINE D'IRRIGATION**
[72] THATCHER, TRACY A., US
[72] MOELLER, MARK, US
[73] VALMONT INDUSTRIES, INC., US
[85] 2021-12-01
[86] 2020-06-30 (PCT/US2020/040273)
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[25] EN
[54] **METHOD AND SYSTEM FOR ESTIMATING WASTE METAL BATCH COMPOSITION**
[54] **PROCEDE ET SYSTEME D'ESTIMATION DE COMPOSITION DE LOT DE METAL RESIDUAIRE**
[72] BITTON, DANIEL, CA
[73] HOUSE OF METALS COMPANY LIMITED, CA
[85] 2021-12-22
[86] 2020-02-03 (PCT/CA2020/050125)
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[25] EN
[54] **VIRTUAL PREDICTION BUFFER FOR INTRA BLOCK COPY IN VIDEO CODING**
[54] **TAMPON DE PREDICTION VIRTUELLE POUR COPIE DE BLOC INTRA DANS UN CODAGE VIDEO**
[72] XU, JIZHENG, US
[72] ZHANG, LI, US
[72] ZHANG, KAI, US
[72] LIU, HONGBIN, CN
[72] WANG, YUE, CN
[73] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[73] BYTEDANCE INC., US
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[54] **ADAPTER AND DISPENSER WITH ADAPTER**
[54] **ADAPTATEUR ET DISTRIBUTEUR AVEC ADAPTATEUR**
[72] LAIDLER, KEITH, GB
[72] RODD, TIMOTHY, GB
[73] PLASTIPAK BAWT S.A.R.L., LU
[86] (3146641)
[87] (3146641)
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[54] **METHOD FOR SHARING RADIO SPECTRUM ON BASIS OF BEAM CONSTANT OFFSET, AND LOW-ORBIT COMMUNICATION SATELLITE SYSTEM**
[54] **PROCEDE DE PARTAGE DE SPECTRE RADIO SELON UN DECALAGE CONSTANT DE FAISCEAU, ET SYSTEME DE SATELLITES DE COMMUNICATION A ORBITE BASSE**
[72] LI, FENG, CN
[72] HOU, FENGLONG, CN
[72] QI, YU, CN
[72] LIN, XIAOXIONG, CN
[72] PEI, SHENGWEI, CN
[72] CHEN, DONG, CN
[72] LI, XINGANG, CN
[72] BAO, ZEYU, CN
[73] CHINA ACADEMY OF SPACE TECHNOLOGY, CN
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[25] EN
[54] **DEVICE FOR THE DELIVERY OF PRODUCTS PROCESSED FROM FRESH FRUITS AND /OR VEGETABLES**
[54] **DISPOSITIF POUR LA DISTRIBUTION DE PRODUITS TRANSFORMES A PARTIR DE FRUITS ET/OU LEGUMES FRAIS**
[72] GIANNOPOULOS, PANAGIOTIS, GR
[73] GIANNOPOULOS, PANAGIOTIS, GR
[85] 2022-02-04
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[54] **PILLARING OF CLAY-CONTAINING FINE TAILINGS FOR ENHANCED POST-DEPOSITION DEWATERING AND CONSOLIDATION**
[54] **DEPILAGE DE RESIDUS FINS CONTENANT DE L'ARGILE UNE DESHYDRATATION ET UNE CONSOLIDATION AMELIOREES APRES LE DEPOT**
[72] OMOTOSO, OLADIPO, CA
[73] SUNCOR ENERGY INC., CA
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[87] (3150312)
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[54] **PROCESS FOR PREPARING (15A,16A,17B)-ESTRA-1,3,5(10)-TRIENE-3,15,16,17-TETROL (ESTETROL) AND INTERMEDIATES OF SAID PROCESS**
[54] **PROCEDE DE PREPARATION DE (15A,16A,17B)-ESTRA-1,3,5-(10)-TRIENE-3,15,16,17-TETROL (ESTETROL) ET INTERMEDIAIRES DUDIT PROCEDE**
[72] LENNA, ROBERTO, IT
[72] FASANA, ANDREA, IT
[72] LUCENTINI, RICCARDO, IT
[73] INDUSTRIALE CHIMICA S.R.L., IT
[85] 2022-03-16
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[30] IT (102019000017414) 2019-09-27
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[25] EN
[54] **RFID READ AND WRITE POWER SETTING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE REGLAGE DE PUISSANCE DE LECTURE ET D'ECRITURE RFID**
[72] WIMMERS, DAVID J., US
[72] MISTYURIK, JOHN D., US
[72] FOWLER, SCOTT P., US
[72] MCCOPPIN, RYAN, US
[73] AVERY DENNISON RETAIL INFORMATION SERVICES LLC, US
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[25] EN
[54] **SYSTEM AND METHOD FOR LOWERING A USER FROM AN ELEVATED POSITION**
[54] **SYSTEME ET PROCEDE POUR ABAISSER UN UTILISATEUR A PARTIR D'UNE POSITION ELEVEE**
[72] CLARK, ROBERT, CA
[72] HIGGINSON, ANDREW, CA
[72] GYMER, DAVID, CA
[72] FAGEN, DAVID, CA
[73] BRITISH COLUMBIA FERRY SERVICES INC., CA
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[25] EN
[54] **TITANIUM DIOXIDE FREE WHITE FILM COATING COMPOSITION, PROCESS FOR PREPARING THE SAME AND METHOD OF USE THEREOF**
[54] **COMPOSITION DE REVETEMENT DE FILM BLANC SANS DIOXYDE DE TITANE, PROCEDE DE PREPARATION DE CELLE-CI ET PROCEDE D'UTILISATION**
[72] KARAN, KAPISH, US
[72] HACH, RONALD, US
[73] HERCULES LLC, US
[85] 2022-03-25
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[25] EN
[54] **TRANSMITTER AND METHOD FOR GENERATING ADDITIONAL PARITY THEREOF**
[54] **EMETTEUR ET PROCEDE POUR GENERER UNE PARITE ADDITIONNELLE POUR CELUI-CI**
[72] JEONG, HONG-SIL, KR
[72] KIM, KYUNG-JOONG, KR
[72] MYUNG, SE-HO, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
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[25] EN
[54] **METHOD AND SYSTEM FOR INTEGRATED MOBILITY MANAGEMENT IN A CLOUD-BASED COMMUNICATION SYSTEM**
[54] **PROCEDE ET SYSTEME DE GESTION DE MOBILITE INTEGREE DANS UN SYSTEME DE COMMUNICATION EN NUAGE**
[72] MCDONALD, DANIEL J., US
[72] FRANDSEN, SVEND, DK
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2022-04-08
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[25] EN
[54] **PAGE SIMULATION SYSTEM**
[54] **SYSTEME DE SIMULATION DE PAGE**
[72] GEVORKYAN, DAVID, US
[72] YILMAZ, MEHMET, US
[72] MORE, AJINKYA, US
[72] BASILICO, JUSTIN, US
[72] PADMANABHAN, PRASANNA, US
[72] KAUSHAL, VIVEK, US
[72] AGRAWA, GAURAV, US
[72] WELLINGTON, RICHARD, US
[73] NETFLIX, INC., US
[85] 2022-04-19
[86] 2020-11-05 (PCT/US2020/059211)
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[30] US (62/932,279) 2019-11-07
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[25] EN
[54] **IMAGING PROBE WITH COMBINED ULTRASOUND AND OPTICAL MEANS OF IMAGING**
[54] **SONDE D'IMAGERIE DOTE D'UN MOYEN ULTRASONIQUE ET OPTIQUE D'IMAGERIE**
[72] COURTNEY, BRIAN, CA
[72] MUNCE, NIGEL ROBERT, CA
[72] SINGH, AMANDEEP, CA
[72] YANG, VICTOR XIAO DONG, CA
[72] FOSTER, FRANCIS STUART, CA
[73] SUNNYBROOK RESEARCH INSTITUTE, CA
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[54] **SIDELINK SIGNAL REPETITION AND PREEMPTION**
[54] **REPETITION ET PREEMPTION DE SIGNAL DE LIAISON LATERALE**
[72] CHAE, HYUKJIN, US
[72] DINAN, ESMAEL, US
[72] YI, YUNJUNG, US
[73] OFINNO, LLC, US
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[54] **TEST APPARATUS FOR BINAURALLY-COUPLED ACOUSTIC DEVICES**
[54] **APPAREIL D'ESSAI POUR DES DISPOSITIFS ACOUSTIQUES A CONNEXION BINAURALE**
[72] COLE, JOHN W., CA
[72] COLE, WILLIAM A., CA
[72] JONKMAN, JACOBUS A., CA
[72] PIETROBON, JONATHAN M., CA
[73] INTERACOUSTICS A/S, DK
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[25] EN
[54] **METHOD OF FORMING GREEN PART AND MANUFACTURING MEHTOD USING SAME**
[54] **METHODE DE FORMATION D'UNE PARTIE VERTE ET METHODE DE FABRICATION ASSOCIEE**
[72] CAMPOMANES, MARC LORENZO, CA
[72] SCALZO, ORLANDO, CA
[72] FOURNIER, JEAN, CA
[72] POITRAS, GUILLAUME, CA
[73] PRATT & WHITNEY CANADA CORP., CA
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[54] **NOVEL DEUTERIUM-SUBSTITUTED PYRIMIDINE DERIVATIVE AND PHARMACEUTICAL COMPOSITION COMPRISING SAME**
[54] **NOUVEAU DERIVE DE PYRIMIDINE SUBSTITUE PAR DU DEUTERIUM ET COMPOSITION PHARMACEUTIQUE LE COMPRENANT**
[72] KIM, SUNG-EUN, KR
[72] LEE, SUNHO, KR
[72] RAJESH, RENGASAMY, KR
[72] LEE, YONG HYUB, KR
[72] KONG, YUN JEONG, KR
[73] ONCOBIX CO., LTD., KR
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[54] **STABILIZATION APPARATUS**
[54] **APPAREIL DE STABILISATION**
[72] CONA, ALESSANDRO, IT
[72] VIGNOLO, LUCIANO, IT
[73] DANIELI & C. OFFICINE MECCANICHE S.P.A., IT
[85] 2022-06-07
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[54] **MODELING METHOD AND APPARATUS BASED ON POINT CLOUD DATA, DEVICE, AND STORAGE MEDIUM**
[54] **METHODE DE MODELISATION ET APPAREIL FONDE SUR LES DONNEES DE NUAGE DE POINTS, DISPOSITIF ET SUPPORT DE STOCKAGE**
[72] CHENG, XIANYU, CN
[73] REALSEE (BEIJING) TECHNOLOGY CO., LTD., CN
[85] 2022-05-26
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[54] **VACUUM CHAMBER APPARATUS WITH SINGLE ROLLER FOR ROTATING CONTAINER**
[54] **APPAREIL A CHAMBRE A VIDE AVEC ROULEAU UNIQUE POUR RECIPIENT ROTATIF**
[72] CAO, LI BING, CA
[72] FU, JUN, CA
[72] BARKER, NOEL, CA
[73] ENWAVE CORPORATION, CA
[85] 2022-06-30
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[25] EN
[54] **BACK-DRAG BUCKET ACCESSORY**
[54] **ACCESSOIRE POUR TIRER UN GODET VERS L'ARRIERE**
[72] BOURGAULT, GERARD F., CA
[72] PUNK, KEVIN, CA
[73] BOURGAULT MACHINES INC., CA
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[54] **BORON TRIFLUORIDE AS A QUENCH GAS FOR NEUTRON PROPORTIONAL COUNTERS**
[54] **TRIFLUORURE DE BORE EN TANT QUE GAZ DE TREMPE POUR COMPTEURS PROPORTIONNELS DE NEUTRONS**
[72] FREEMAN, CHRISTOPHER, US
[73] BAKER HUGHES HOLDINGS LLC, US
[86] (3168865)
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[25] EN
[54] **PROCESS FOR FORMING A SOLID FUEL COMPOSITION FROM MIXED SOLID WASTE**
[54] **PROCEDE DE FORMATION D'UNE COMPOSITION DE COMBUSTIBLE SOLIDE A PARTIR DE DECHETS SOLIDES MIXTES**
[72] WHITE, BJORNULF, US
[73] ECOGENSUS, LLC, US
[86] (3169119)
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[54] **TRIM TOOL WITH ADJUSTABLE TRIM CENTERS**
[54] **OUTIL DE FINITION AVEC CENTRALES D'ASSIETTE REGLABLES**
[72] BROADWATER, JOHN, US
[73] FABRI-KAL CORPORATION, US
[86] (3169846)
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[54] **STEERING SYSTEM FOR USE WITH A DRILL STRING**
[54] **SYSTEME D'ORIENTATION DESTINE A ETRE UTILISE AVEC UN TRAIN DE TIGES DE FORAGE**
[72] CHAMBERS, LARRY DELYNN, US
[72] DEOLALIKAR, NEELESH V., US
[73] HALLIBURTON ENERGY SERVICES, INC., US
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[87] (3169920)
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[54] **ROLLER SHUTTER FOR MITIGATING IMPACT FORCE**
[54] **VOLET ROULANT PERMETTANT D'ATTENUER LA FORCE D'IMPACT**
[72] WONG, LOK YUNG, SG
[73] GLIDEROL DOORS (S) PTE LTD, SG
[85] 2022-08-31
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[54] **RADIOFREQUENCY ABLATION CATHETER WITH OPTICAL TISSUE EVALUATION**
[54] **CATHETER D'ABLATION PAR RADIOFREQUENCE AVEC EVALUATION OPTIQUE DES TISSUS**
[72] MARGALLO BALBAS, EDUARDO, ES
[72] RUBIO GIVERNAU, JOSE LUIS, ES
[72] JIMENEZ VALERO, SANTIAGO, ES
[72] BARRIGA RIVERA, ALEJANDRO, ES
[72] CONTRERAS BERMEJO, JUSTO, ES
[72] LLORET SOLER, JUAN, ES
[73] MEDLUMICS S.L., ES
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[54] **SUPPLEMENTAL ENERGY GENERATION AND STORAGE FOR TRAINS**
[54] **GENERATION ET STOCKAGE D'ENERGIE SUPPLEMENTAIRE POUR DES TRAINS**
[72] THEN-GAUTIER, JOHNNY, DO
[72] MEDINA THEN, JOHANNE G., US
[73] ECOLUTION KWH, LLC, US
[85] 2022-10-27
[86] 2020-09-03 (PCT/US2020/049251)
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[54] **AEROSOL GENERATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE GENERATION D'AEROSOL**
[72] HAN, JUNG HO, KR
[72] LEE, JANG UK, KR
[72] LIM, HUN II, KR
[72] LEE, JONG SUB, KR
[72] HAN, DAE NAM, KR
[72] YOON, JIN YOUNG, KR
[72] KIM, YOUNG LEA, KR
[72] JANG, JI SOO, KR
[72] LIM, WANG SEOP, KR
[72] LEE, MOON BONG, KR
[72] JU, SOUNG HO, KR
[72] PARK, DU JIN, KR
[72] YOON, SEONG WON, KR
[73] KT&G CORPORATION, KR
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[54] **SYSTEMS AND METHODS FOR DETECTING MAGNETIC MARKERS FOR SURGICAL GUIDANCE**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE MARQUEURS MAGNETIQUES POUR GUIDAGE CHIRURGICAL**
[72] AGOSTINELLI, TIZIANO, GB
[72] HATTERSLEY, SIMON RICHARD, GB
[73] ENDOMAGNETICS LTD, GB
[85] 2022-12-01
[86] 2021-05-18 (PCT/IB2021/054244)
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[25] EN
[54] **STEEL SHEET FOR MANUFACTURING PRESS HARDENED PARTS, PRESS HARDENED PART HAVING A COMBINATION OF HIGH STRENGTH AND CRASH DUCTILITY, AND MANUFACTURING METHODS THEREOF**
[54] **TOLE D'ACIER POUR LA PRODUCTION DE PIECES TREMPEES SOUS PRESSE, PIECE TREMPEE SOUS PRESSE PRESENTANT UNE COMBINAISON DE RESISTANCE ELEVEE ET DE DUCTILITE ELEVEE APRES COLLISION, E T PROCEDES DE PRODUCTION ASSOCIES**
[72] BEAUVAIS, MARTIN, FR
[72] DUMONT, ALICE, FR
[72] GIBOT, ALEXANDRE, FR
[72] PERLADE, ASTRID, FR
[72] ZHU, KANGYING, FR
[73] ARCELORMITTAL, LU
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[54] **RECIPROCATING PRESSURE PERFUSION SYSTEM FOR PERFUSING TISSUE OUTSIDE THE BODY**
[54] **SYSTEME DE PERFUSION A PRESSION ALTERNATIVE POUR PERFUSER DES TISSUS A L'EXTERIEUR DU CORPS**
[72] JESSOP, ISRAEL, US
[73] VASCULAR PERFUSION SOLUTIONS, INC., US
[85] 2023-01-06
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[25] EN
[54] **SCAFFOLD WOUND DRESSING**
[54] **PANSEMENT A ECHAFAUDAGE**
[72] MOFID, MEHRDAD MARK, US
[73] MOFID, MEHRDAD MARK, US
[85] 2023-02-09
[86] 2021-11-20 (PCT/IB2021/060773)
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[54] **METHOD FOR PROCESSING LIQUEFIED WASTE POLYMERS**
[54] **PROCEDE DE TRAITEMENT DE DECHETS PLASTIQUES LIQUEFIES**
[72] AALTO, PEKKA, FI
[72] AALTONEN, HEIKKI, FI
[72] OJALA, ANTTI, FI
[72] PEREZ NEBREDA, ANDREA, FI
[72] SAIRANEN, EMMA, FI
[72] PAASIKALLIO, VILLE, FI
[72] KURKIJARVI, ANTTI, FI
[73] NESTE OYJ, FI
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[87] (WO2022/144491)
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[25] EN
[54] **WATER-SOLUBLE FILMS, WATER-SOLUBLE UNIT DOSE ARTICLES, AND METHODS OF MAKING AND USING THE SAME**
[54] **FILMS HYDROSOLUBLES, ARTICLES MONODOSES HYDROSOLUBLES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] COURCHAY, FLORENCE CATHERINE, BE
[72] FRIEDRICH, STEVEN G., US
[72] LABEQUE, REGINE, BE
[72] LI, SHIGENG, US
[72] VITIELLO, LUCA, BE
[73] MONOSOL, LLC, US
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[54] **PERSONAL HYGIENE CAPSULE AND METHODS OF USING SAME**
[54] **CAPSULE D'HYGIENE PERSONNELLE ET METHODES D'UTILISATION**
[72] BHUSHAN, BHARAT, CA
[73] ALPHA CLEANTECH LABS INC., CA
[85] 2023-05-25
[86] 2022-02-14 (PCT/CA2022/050210)
[87] (3201357)

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[25] EN
[54] **PUSH-TO-CONNECT JOINT ASSEMBLY AND DEVICE**
[54] **ENSEMBLE ET DISPOSITIF DE JOINT A ASSEMBLAGE PAR POUSSEE**
[72] DIAS, LIBARDO OCHOA, US
[72] BOUCHARD, HERBERT J., US
[72] CROMPTON, DAVID B., US
[73] QUICK FITTING HOLDING COMPANY, LLC, US
[85] 2023-08-10
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[25] EN
[54] **GENERATING SYNTHETIC TRANSACTIONS WITH PACKETS**
[54] **GENERATION DE TRANSACTIONS SYNTHETIQUES AVEC DES PAQUETS**
[72] BARRETT, PAUL, US
[72] KOSBAB, BRUCE, US
[72] SINGHAL, ANIL, US
[72] VOGT, BOB, US
[73] NETSCOUT SYSTEMS, INC., US
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[25] EN
[54] **ADJUSTABLE STRAP**
[54] **SANGLE REGLABLE**
[72] FINK, MATTHEW, US
[73] FINK, MATTHEW, US
[85] 2023-11-15
[86] 2022-05-16 (PCT/US2022/029447)
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[25] EN
[54] **ONE-COMPONENT MOISTURE-CURABLE ADHESIVE COMPOSITION**
[54] **COMPOSITION ADHESIVE MONOCOMPOSANT DURCISSABLE A L'HUMIDITE**
[72] AKHLAGHI, SHAHIN, NL
[72] VERLAAN-HOOFT, HENDRICA PETRONELLA MARIA, NL
[73] AKZO NOBEL COATINGS INTERNATIONAL B.V., NL
[85] 2023-12-14
[86] 2022-07-13 (PCT/EP2022/069663)
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[30] EP (21185300.7) 2021-07-13

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[51] **Int.Cl. C08B 37/16 (2006.01) A61K 31/724 (2006.01) A61P 23/00 (2006.01)**
[25] EN
[54] **NOVEL CRYSTALLINE FORMS OF SUGAMMADEX**
[54] **NOUVELLES FORMES CRISTALLINES DE SUGAMMADEX**
[72] LARPENT, PATRICK, CH
[72] STUEBER, DIRK, US
[72] VARSOLONA, RICHARD J., US
[73] MERCK SHARP & DOHME LLC, US
[73] WERTHENSTEIN BIOPHARMA GMBH, CH
[85] 2023-12-19
[86] 2021-09-08 (PCT/US2021/049352)
[87] (WO2022/055918)
[30] US (63/076,135) 2020-09-09

Canadian Applications Open to Public Inspection

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Demandes canadiennes mises à la disponibilité du public

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[25] EN
[54] **HIGH ALKALINE HIGH FOAM CLEANER FOR MARITIME APPLICATIONS**
[54] **NETTOYANT TRES ALCALIN ET TRES MOUSSANT POUR DES APPLICATIONS MARITIMES**
[72] WEISSENBERGER, MARKUS, CA
[72] ABDELFATAH, ELSAYED, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2022-10-21
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[51] **Int.Cl. C11D 1/83 (2006.01) B08B 3/08 (2006.01) C10M 173/00 (2006.01) C11D 1/24 (2006.01) C11D 1/72 (2006.01) C11D 3/04 (2006.01) C11D 3/18 (2006.01) C11D 3/44 (2006.01)**
[25] EN
[54] **NANO-CLEANERS FOR METALWORKING USES**
[54] **NANONETTOYANTS POUR DES APPLICATIONS METALLURGIQUES**
[72] WEISSENBERGER, MARKUS, CA
[72] ABDELFATAH, ELSAYED, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2022-10-21
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[51] **Int.Cl. C11D 1/83 (2006.01) C11D 1/08 (2006.01) C11D 1/66 (2006.01) C11D 3/04 (2006.01) C11D 3/18 (2006.01) C11D 3/33 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **HIGH ALKALINE HIGH FOAM CLEANER FOR MARITIME APPLICATIONS**
[54] **NETTOYANT TRES ALCALIN ET TRES MOUSSANT POUR DES APPLICATIONS MARITIMES**
[72] WEISSENBERGER, MARKUS, CA
[72] ABDELFATAH, ELSAYED, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2022-10-21
[41] 2024-04-21

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[13] A1
[51] **Int.Cl. E03B 9/20 (2006.01) E03B 9/02 (2006.01)**
[25] EN
[54] **WATER DISPENSING ASSEMBLY FOR CONNECTING TO A FIRE HYDRANT**
[54] **ASSEMBLAGE DE DISTRIBUTION D~EAU POUR LE RACCORD A UNE BORNE D~INCENDIE**
[72] REEDER, JOHN, CA
[72] LIVINGSTON, DAYNA, CA
[72] SCHNEIDER, TRAVIS, CA
[72] NOYES, TYLER, CA
[72] MARSHALL, DAREN, CA
[72] ROBINS, SHAWN C., CA
[72] TOEWS, TODD, CA
[72] HANNANT, TROY, CA
[72] BANASCH, CRAIG, CA
[72] PRIBYL, ALLEN J., CA
[72] DENNIS, GRAEME, CA
[72] BONNEVILLE, STUART, CA
[72] BOHAN, PAT, CA
[71] THE CITY OF MEDICINE HAT, CA
[22] 2022-10-21
[41] 2024-04-21

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[21] **3,179,633**
[13] A1
[51] **Int.Cl. E04G 1/24 (2006.01) E04G 1/00 (2006.01)**
[25] EN
[54] **MOTORIZED SYSTEM FOR SCAFFOLD**
[54] **SYSTEME MOTORISE POUR ECHAFAUDAGE**
[72] WALKER, ALEXANDRE, CA
[72] BELAND, PATRICE, CA
[72] GOYER, FRANCIS, CA
[71] METALTECH-OMEGA INC., CA
[22] 2022-10-21
[41] 2024-04-21

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[21] **3,179,656**
[13] A1
[51] **Int.Cl. B62K 13/00 (2006.01) B62D 55/04 (2006.01) B62K 17/00 (2006.01)**
[25] EN
[54] **ELECTRIC KICK SCOOTER WITH REMOVABLE TRACK ASSEMBLY**
[54] **TROTTINETTE ELECTRIQUE COMPRENANT UN ASSEMBLAGE DE CHENILLE AMOVIBLE**
[72] MYDLARZ, LUKASZ ADAM, CA
[71] ZIP DOCKLESS INC., CA
[22] 2022-10-24
[41] 2024-04-24

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[21] **3,179,665**
[13] A1
[51] **Int.Cl. B64C 39/00 (2023.01)**
[25] EN
[54] **ANTI-GRAVITY DEVICES**
[54] **DISPOSITIFS ANTI-GRAVITE**
[72] GUO, LAN FENG, CA
[71] GUO, LAN FENG, CA
[22] 2022-10-23
[41] 2024-04-23

[21] **3,179,693**
[13] A1
[51] **Int.Cl. F21V 21/04 (2006.01) F21S 8/02 (2006.01)**
[25] EN
[54] **RING-SHAPED MOUNTING PLATE WITH A BRANCHED TARGET**
[54] **PLAQUE DE MONTAGE EN ANNEAU COMPRENANT UNE CIBLE RAMIFIEE**
[72] LACROIX, STEVE, CA
[71] LACROIX, STEVE, CA
[22] 2022-10-24
[41] 2024-04-24

[21] **3,179,723**
[13] A1
[51] **Int.Cl. F42B 8/02 (2006.01)**
[25] EN
[54] **LOW ENERGY CARTRIDGE**
[54] **CARTOUCHE BASSE ENERGIE**
[72] LUXTON, DAVID EDWARD, CA
[71] KWESST INC., CA
[22] 2022-10-24
[41] 2024-04-24

[21] **3,179,734**
[13] A1
[51] **Int.Cl. A62B 18/00 (2006.01) A62B 18/08 (2006.01) A62B 23/02 (2006.01)**
[25] EN
[54] **MODULAR PAPR SYSTEMS AND MODULES, ACCESSORIES AND METHODS THEREFOR**
[54] **SYSTEMES D'APPAREIL DE PROTECTION RESPIRATOIRE A EPURATION D'AIR MOTORISE MODULAIRE, MODULES, ACCESSOIRES ET METHODES CONNEXES**
[72] RANSON, ROBERT, CA
[72] JIANG, XUDONG, CA
[72] DUECK, LIONEL, CA
[72] OLSON, MATTHEW, CA
[71] RANSON, ROBERT, CA
[22] 2022-10-25
[41] 2024-04-25

[21] **3,179,752**
[13] A1
[51] **Int.Cl. G09B 5/00 (2006.01) G06Q 50/20 (2012.01) H04L 67/50 (2022.01) G06Q 10/0639 (2023.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR PROVIDING VIRTUAL REALITY TRAINING MODULES**
[54] **METHODES ET SYSTEMES POUR FOURNIR DES MODULES D~ENTRAINEMENT EN REALITE VIRTUELLE**
[72] KHOORPOUR, PAYMAN, OM
[72] POUR MOHAMMAD MATOURI, SHAHAB, OM
[71] VRONTECH INC., CA
[22] 2022-10-25
[41] 2024-04-25

[21] **3,179,782**
[13] A1
[51] **Int.Cl. A42B 1/008 (2021.01) A42C 5/00 (2006.01)**
[25] EN
[54] **HAT HEADLINER HAVING TEMPERATURE CONTROL MEMBERS**
[54] **DOUBLURE DE CHAPEAU COMPRENANT DES ELEMENTS DE CONTROLE DE LA TEMPERATURE**
[72] MCCARTHY, SIMON, CA
[71] MCCARTHY, SIMON, CA
[22] 2022-10-25
[41] 2024-04-24
[30] US (18/048,989) 2022-10-24

[21] **3,179,804**
[13] A1
[51] **Int.Cl. F03B 9/00 (2006.01) F03B 11/00 (2006.01) F03B 13/12 (2006.01) F03D 5/02 (2006.01)**
[25] FR
[54] **DYNAMIC WIND AND HYDROKINETIC TURBINES AND MECHANICAL SUPPORT STRUCTURES**
[54] **EOLIENNES ET HYDROLIENNES: DYNAMIQUES ET STRUCRURES MECANIQUES DE SUPPORT**
[72] BEAUDOIN, NORMAND, CA
[71] BEAUDOIN, NORMAND, CA
[22] 2022-10-24
[41] 2024-04-24

[21] **3,179,936**
[13] A1
[51] **Int.Cl. F15B 21/08 (2006.01) E02F 9/22 (2006.01) G05G 9/047 (2006.01)**
[25] EN
[54] **HYDRAULIC CIRCUIT AND METHOD FOR A MATERIAL HANDLER**
[54] **CIRCUIT HYDRAULIQUE ET METHODE POUR UN APPAREIL DE MANIPULATION**
[72] SKEIE, ALEXANDER, CA
[72] COPELAND, RICK, CA
[71] BRANDT INDUSTRIES CANADA LTD., CA
[22] 2022-10-26
[41] 2024-04-26

[21] **3,180,047**
[13] A1
[51] **Int.Cl. G06T 1/00 (2006.01) G06T 11/40 (2006.01) G09C 5/00 (2006.01)**
[25] FR
[54] **METHOD AND SYSTEM FOR GENERATING AN IMAGE AND ITS USE FOR ENCRYPTING INFORMATION**
[54] **METHODE ET SYSTEME POUR GENERER UNE IMAGE ET SON UTILISATION POUR CRYPTER DE L'INFORMATION**
[72] ROTGE, JEAN-FRANCOIS, CA
[71] SGDL INNOVATION SA, CH
[22] 2022-10-27
[41] 2024-04-27

[21] **3,180,055**
[13] A1
[51] **Int.Cl. A24B 15/18 (2006.01) A24B 13/00 (2006.01) A24D 1/18 (2006.01)**
[25] EN
[54] **PRE-GROUND FORMED NUG**
[54] **CANNABIS FORME PREMOULU**
[72] KING, BRENT, CA
[71] ROYAL OAK CANNABIS PRODUCTS LTD., CA
[22] 2022-10-26
[41] 2024-04-26

[21] **3,180,067**
[13] A1
[51] **Int.Cl. E02F 9/22 (2006.01) F15B 9/00 (2006.01) F15B 11/064 (2006.01)**
[25] EN
[54] **POTENTIAL ENERGY STORAGE AND CONTROL SYSTEM FOR A HYDRAULICALLY ACTUATED ELEMENT**
[54] **SYSTEME DE STOCKAGE ET DE CONTROLE D'ENERGIE POTENTIELLE POUR UN ELEMENT A ACTION HYDRAULIQUE**
[72] SKEIE, ALEXANDER, CA
[71] BRANDT INDUSTRIES CANADA LTD., CA
[22] 2022-10-26
[41] 2024-04-26

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[21] **3,180,221**
[13] A1
[51] **Int.Cl. E06C 7/06 (2006.01) E06C 1/397 (2006.01)**
[25] EN
[54] **ROOF RIDGE LADDER HOOK**
[54] **CROCHET D~ECHELLE DE FAITAGE DE TOIT**
[72] WOODWORTH, ADAM, CA
[71] WOODWORTH, ADAM, CA
[22] 2022-10-27
[41] 2024-04-24
[30] US (17/972,582) 2022-10-24

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[21] **3,180,227**
[13] A1
[51] **Int.Cl. A63B 57/00 (2015.01) A43B 5/00 (2022.01) A63B 69/36 (2006.01)**
[25] EN
[54] **GOLF BALL ALIGNMENT DEVICE, SYSTEM AND METHOD**
[54] **DISPOSITIF D~ALIGNEMENT DE BALLE DE GOLF, SYSTEME ET METHODE**
[72] LAMASH, BRADLEY, CA
[71] LAMASH, BRADLEY, CA
[22] 2022-10-27
[41] 2024-04-24
[30] US (17/972,579) 2022-10-24

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[21] **3,180,250**
[13] A1
[51] **Int.Cl. F24D 3/04 (2006.01)**
[25] FR
[54] **HIGH-PRESSURE GLYCOL HEATING**
[54] **CHAUFFAGE DE GLYCOL A HAUTE PRESSION**
[72] DELAGE LEGARE, TOMMY, CA
[71] DELAGE LEGARE, TOMMY, CA
[22] 2022-10-27
[41] 2024-04-27

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[21] **3,180,328**
[13] A1
[51] **Int.Cl. A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 1/08 (2006.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF BRASSICA CARINATA HYBRID VARIETY NUJET 400**
[54] **PLANTES ET SEMENCES D'UNE VARIETE HYBRIDE DE BRASSICA CARINATA NUJET 400**
[72] BENNETT, RICK, CA
[71] NUSEED GLOBAL INNOVATION LTD., GB
[22] 2022-10-27
[41] 2024-04-27

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[21] **3,181,636**
[13] A1
[51] **Int.Cl. G01F 9/00 (2006.01) G01F 25/10 (2022.01)**
[25] EN
[54] **MEASUREMENT OF FLOW OF VENT GAS WITH COMBUSTIBLES**
[54] **MESURE DU FLUX DE GAZ EVACUES AVEC DES COMBUSTIBLES**
[72] MALM, HOWARD, CA
[71] REM TECHNOLOGY INC., CA
[22] 2022-11-10
[41] 2024-04-27
[30] US (18/050,175) 2022-10-27

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[21] **3,184,033**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2023.01) G06T 19/00 (2011.01) G06Q 50/06 (2012.01) G06Q 10/20 (2023.01) G06K 7/10 (2006.01) G06F 16/90 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROMOTING SAFE INTERACTION WITH ELECTRICAL EQUIPMENT**
[54] **SYSTEME ET METHODE POUR LA PROMOTION D~UNE INTERACTION SECURITAIRE AVEC UN EQUIPEMENT ELECTRIQUE**
[72] CANINE, CHRISTOPHER WILLIAM, US
[72] KOENIG, CHARLES MARK, US
[71] POWER ENGINEERS, INCORPORATED, US
[22] 2022-12-15
[41] 2024-04-24
[30] US (18/049,260) 2022-10-24

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[21] **3,184,518**
[13] A1
[51] **Int.Cl. G06F 9/48 (2006.01) G06F 9/50 (2006.01) G06F 11/07 (2006.01)**
[25] EN
[54] **AUTOMATIC FAILOVER SYSTEM FOR CRON JOBS**
[54] **SYSTEME DE SECOURS AUTOMATIQUE POUR DES TRAVAUX CRON**
[72] NARASIMHAN, MAYANK, US
[71] ARRIS ENTERPRISES LLC, US
[22] 2022-12-22
[41] 2024-04-25
[30] US (63/419,289) 2022-10-25

[21] **3,184,539**
[13] A1
[51] **Int.Cl. B01D 53/047 (2006.01) C01B 3/56 (2006.01) C01B 23/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING VERY HIGH PURITY HELIUM OR HYDROGEN**
[54] **PROCEDE DE PRODUCTION D~HELIUM OU D~HYDROGENE DE TRES GRANDE PURETE**
[72] TERRIEN, PAUL, US
[72] GUERIF, PIERRE-PHILIPPE, US
[71] AIR LIQUIDE ADVANCED TECHNOLOGIES U.S. LLC, US
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[22] 2022-12-22
[41] 2024-04-24
[30] US (17/972142) 2022-10-24

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[21] **3,185,258**
[13] A1
[51] **Int.Cl. A61L 2/18 (2006.01)**
[25] EN
[54] **AGENT DISPENSING DEVICES, KITS AND RELATED METHODS**
[54] **DISPOSITIFS DE DISTRIBUTION D~AGENT, TROUSSES ET METHODES CONNEXES**
[72] GERBER, DANIELLE EVIN, US
[72] POSITANO, ROCK, US
[72] WHITE, ROBERT, US
[71] ROXILLA LLC, US
[22] 2022-12-08
[41] 2024-04-21
[30] US (63/418,041) 2022-10-21

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[21] **3,189,572**
[13] A1
[51] **Int.Cl. B66C 1/62 (2006.01) B66C 1/26 (2006.01)**
[25] EN
[54] **LIFTING DEVICE FOR ERECTING COLUMNS AND RELATED METHOD**
[54] **DISPOSITIF DE LEVAGE POUR ERIGER DES COLONNES ET METHODE CONNEXE**
[72] SAMSON, PIER-LUC, CA
[71] GROUPE CANAM INC., CA
[22] 2023-02-14
[41] 2024-04-26
[30] US (63/381.045) 2022-10-26

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[21] **3,190,302**
[13] A1
[51] **Int.Cl. C25C 7/06 (2006.01) C25C 1/12 (2006.01) C25C 1/18 (2006.01) C25C 7/02 (2006.01) C25C 7/08 (2006.01)**
[25] EN
[54] **METHOD OF REMOVING LEAD MATERIALS TO REGENERATE ANODE FOR MANUFACTURING COPPER FOIL**
[54] **METHODE POUR RETIRER LES MATIERES DE PLOMB POUR REGENERER UNE ANODE AUX FINS DE FABRICATION D~UNE FEUILLE METALLIQUE DE CUIVRE**
[72] KIM, SANG WOOK, KR
[72] KIM, SANG SOO, KR
[72] PARK, MI JUNG, KR
[72] KIM, JU A, KR
[72] LEE, JI HYUN, KR
[71] WESCO ELECTRODE CO., LTD., KR
[22] 2023-02-17
[41] 2024-04-25
[30] KR (10-2022-0138158) 2022-10-25

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[21] **3,192,379**
[13] A1
[51] **Int.Cl. A47B 96/06 (2006.01) A47F 5/08 (2006.01)**
[25] EN
[54] **FLOATING SHELF BRACKET**
[54] **SUPPORT D~ETAGERE FLOTTANT**
[72] ANDERSON, KEVIN, US
[71] SILICATE STUDIO HOME, LLC, US
[22] 2023-03-08
[41] 2024-04-24
[30] US (17/972,352) 2022-10-24
[30] US (18/094,717) 2023-01-09

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[21] **3,195,452**
[13] A1
[51] **Int.Cl. E04H 17/20 (2006.01) E04H 17/00 (2006.01) E04H 17/14 (2006.01)**
[25] EN
[54] **BOLLARD FENCE**
[54] **CLOTURE DE BOLLARDS**
[72] JANG, JEONG EUN, KR
[71] JANG, JEONG EUN, KR
[22] 2023-04-06
[41] 2024-04-21
[30] KR (10-2022-0136906) 2022-10-21

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[21] **3,197,530**
[13] A1
[51] **Int.Cl. F16L 3/06 (2006.01) F16L 19/02 (2006.01) F24F 13/02 (2006.01)**
[25] EN
[54] **APPARATUS AND SYSTEM FOR JOINING DUCTS**
[54] **APPAREIL ET SYSTEME POUR JOINDRE DES CONDUITES**
[72] SMITH, DANA, US
[71] DMI COMPANIES, INC., US
[22] 2023-04-20
[41] 2024-04-24
[30] US (63/418,816) 2022-10-24

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[21] **3,203,025**
[13] A1
[51] **Int.Cl. E06B 9/56 (2006.01) E06B 9/42 (2006.01)**
[25] EN
[54] **SYNCHRONIZER FOR ROLLER SHADE**
[54] **SYNCHRONISEUR POUR STORE A ROULEAU**
[72] CHOU, TSER-WEN, US
[71] CHOU, TSER-WEN, US
[71] CHOU, MASON, US
[22] 2023-06-13
[41] 2024-04-26
[30] TW (111211705) 2022-10-26
[30] US (17/980,558) 2022-11-04

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[21] **3,211,546**
[13] A1
[51] **Int.Cl. E04H 17/16 (2006.01) E04H 17/14 (2006.01) F16B 5/06 (2006.01) F16B 5/07 (2006.01)**
[25] EN
[54] **DECORATIVE TOPPER SYSTEM AND METHOD**
[54] **SYSTEME DE GARNITURE DECORATIVE ET METHODE**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] CLARK, CHRISTOPHER ROLLAND, US
[72] MOORE, PAIGE BARBARA, US
[72] BERTKE, PATRICK JOSEPH, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-09-07
[41] 2024-04-27
[30] US (17/974,858) 2022-10-27

[21] **3,212,088**
[13] A1
[51] **Int.Cl. A47F 5/11 (2006.01) B65G 1/16 (2006.01)**
[25] EN
[54] **SYSTEM FOR THE PRESENTATION OF PRODUCTS ON A RETAIL POINT COMPRISING A CARDBOARD-MADE GRID**
[54] **SYSTEME POUR LA PRESENTATION DE PRODUITS SUR UN POINT DE DETAIL COMPRENANT UNE GRILLE EN CARTON**
[72] VASSEUR, BERNARD, FR
[71] MEDIA 6 SA, FR
[22] 2023-09-08
[41] 2024-04-24
[30] FR (2211004) 2022-10-24

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[21] **3,212,225**
[13] A1
[51] **Int.Cl. A61C 7/08 (2006.01) A61C 7/14 (2006.01) A61C 9/00 (2006.01)**
[25] EN
[54] **ORTHODONTIC APPLIANCES, ATTACHMENTS, SYSTEMS INCLUDING APPLIANCES AND ATTACHMENTS, AND METHODS FOR ORTHODONTIC APPLIANCE AND ATTACHEMENT FABRICATION**
[54] **APPAREILS ORTHODONTIQUES, FIXATIONS, SYSTEMES COMPRENANT DES APPAREILS ET DES FIXATIONS ET METHODES DE FABRICATIONS D~APPAREILS ORTHODONTIQUES ET DE FIXATIONS**
[72] TSAI, EVAN YIFENG, US
[72] GRANDE, MICHAEL, US
[71] ORMCO CORPORATION, US
[22] 2023-09-13
[41] 2024-04-21
[30] US (18/048,666) 2022-10-21

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[13] A1
[51] **Int.Cl. H02M 7/42 (2006.01) H02J 3/38 (2006.01) H02J 15/00 (2006.01) H02M 1/00 (2007.10) H02M 7/44 (2006.01) H02M 7/48 (2007.01)**
[25] EN
[54] **ELECTRIC POWER TRANSMISSION SYSTEM, METHOD FOR TRANSMISSION OF ELECTRIC POWER AND PLUG-IN INVERTER**
[54] **SYSTEME DE TRANSMISSION D~ENERGIE ELECTRIQUE, METHODE DE TRANSMISSION D~ENERGIE ELECTRIQUE ET INVERSEUR ENFICHABLE**
[72] DANIEL, MICHAEL, US
[71] TOSHIBA INTERNATIONAL CORPORATION, US
[22] 2023-09-22
[41] 2024-04-27
[30] US (17/975,070) 2022-10-27

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[21] **3,214,184**
[13] A1
[51] **Int.Cl. A01C 15/00 (2006.01) A01C 21/00 (2006.01) G01V 8/00 (2006.01)**
[25] EN
[54] **SELECTIVE FERTILIZER PLACEMENT BASED ON OPTICAL SEED DETECTION**
[54] **PLACEMENT D'ENGRAIS SELECTIF FONDE SUR LA DETECTION DE SEMENCE OPTIQUE**
[72] HUBNER, CARY S., US
[72] LICHTENWALNER, HOUSTIN LEE JR., US
[72] FERREN, BRAN, US
[71] DEERE & COMPANY, US
[22] 2023-09-26
[41] 2024-04-27
[30] US (18/050,200) 2022-10-27

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[21] **3,214,418**
[13] A1
[51] **Int.Cl. A61K 8/98 (2006.01) A61K 35/19 (2015.01) A61K 8/73 (2006.01) A61K 31/728 (2006.01) A61P 15/00 (2006.01)**
[25] EN
[54] **CHEMICAL COMPOSITION AND METHOD FOR PENILE ENHANCEMENT**
[54] **COMPOSITION CHIMIQUE ET METHODE D~AMELIORATION PENIENNE**
[72] TORGERSON, CORY, US
[71] BIG SHOT DEVELOPMENTS LTD., CA
[22] 2023-09-27
[41] 2024-04-22

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[21] **3,215,001**
[13] A1
[51] **Int.Cl. B65G 67/24 (2006.01) B65G 13/00 (2006.01) B65G 47/22 (2006.01) B65G 69/30 (2006.01) B66D 1/60 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR UNLOADING A SHIPPING CONTAINER**
[54] **SYSTEME ET METHODE POUR DECHARGER UN CONTENEUR D~EXPEDITION**
[72] WALTERS, DONALD JEFFREY, AU
[72] WALTERS, BECKY JANE, AU
[71] WOMBAT TIMBERS PTY LTD., AU
[22] 2023-09-28
[41] 2024-04-24
[30] US (18/048,938) 2022-10-24

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[21] **3,215,194**
[13] A1
[51] **Int.Cl. A61M 5/142 (2006.01)**
[25] EN
[54] **DRUG DELIVERY DEVICE**
[54] **DISPOSITIF D~ADMINISTRATION DE MEDICAMENT**
[72] BURLI, FABIAN, CH
[72] LAGORGETTE, PASCAL, CH
[71] SENSILE MEDICAL AG, CH
[22] 2023-10-02
[41] 2024-04-21
[30] EP (22203156.9) 2022-10-21

[21] **3,215,341**
[13] A1
[51] **Int.Cl. A01D 41/127 (2006.01) A01F 12/44 (2006.01)**
[25] EN
[54] **GRAIN LOSS SENSING SYSTEM FOR A COMBINE HARVESTER**
[54] **SYSTEME DE DETECTION DE LA PERTE DE GRAINS POUR UNE MOISSONNEUSE-BATTEUSE**
[72] GREGORIO, JOHN JOSEPH, US
[72] MANEY, JEFFREY HARRIS, US
[71] HCC, INC., US
[22] 2023-10-03
[41] 2024-04-21
[30] US (63/418160) 2022-10-21
[30] US (18/368707) 2023-09-15

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[21] **3,215,476**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR PRIVACY PROTECTING A LIVE VIDEO STREAM WITH AN ARCHIVED VIDEO STREAM**
[54] **METHODES ET SYSTEMES POUR LA PROTECTION DE LA VIE PRIVEE D~UNE DIFFUSION VIDEO EN DIRECT A L~AIDE D~UNE DIFFUSION VIDEO ARCHIVEE**
[72] MATUSEK, FLORIAN, AT
[72] ZANKL, GEORG, AT
[71] GENETEC INC., CA
[22] 2023-10-04
[41] 2024-04-21
[30] US (17/970,673) 2022-10-21

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[21] **3,215,661**
[13] A1
[51] **Int.Cl. A47F 5/00 (2006.01) A47B 57/00 (2006.01) A47B 96/02 (2006.01) B65G 1/08 (2006.01)**
[25] EN
[54] **GRAVITY FEED SHELVING APPARATUS AND SYSTEM**
[54] **APPAREIL ET SYSTEME D'ETAGERE A ALIMENTATION PAR GRAVITE**
[72] RESNICK, MARK C., US
[72] TEAFORD, RONALD, US
[71] SULLIVAN COUNTY FABRICATION, INC., US
[22] 2023-10-06
[41] 2024-04-27
[30] US (18/050,066) 2022-10-27
[30] US (18/372,424) 2023-09-25

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[21] **3,215,729**
[13] A1
[25] EN
[54] **METHOD AND APPARATUS FOR DETERMINING THE SET OF FOCAL LAWS OF A PLURALITY OF FOCAL POINTS LOCATED IN A THREE-DIMENSIONAL TEST OBJECT IN THE PRESENCE OF A COUPLING MEDIUM**
[54] **METHODE ET APPAREIL POUR DETERMINER L~ENSEMBLE D~EQUATIONS DE PLUSIEURS FOYERS SITUES DANS UN OBJET D~ESSAI TRIDIMENSIONNEL EN PRESENCE D~UN MILIEU DE COUPLAGE**
[72] COSARINSKY MARKMAN, GUILLERMO, ES
[72] FERNANDEZ CRUZA, JORGE, ES
[72] MUNOZ PRIETO, MARIO, ES
[72] CAMACHO SOSA DIAS, JORGE, ES
[71] CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC), ES
[22] 2023-10-06
[41] 2024-04-25
[30] EP (22383027.4) 2022-10-25

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[21] **3,215,756**
[13] A1
[51] **Int.Cl. B64F 5/40 (2017.01) B67D 7/02 (2010.01) B67D 7/08 (2010.01)**
[25] EN
[54] **METHOD FOR AUTONOMOUS SERVICING OF AN AIRCRAFT, AND A SERVICE PANEL, AIRCRAFT AND SYSTEM PROVIDING FOR AUTONOMOUS SERVICING OF AN AIRCRAFT**
[54] **METHODE D'ENTRETIEN AUTONOME D'UN AERONEF, PANNEAU DE SERVICE, AERONEF ET SYSTEME FOURNISSANT L'ENTRETIEN AUTONOME D'UN AERONEF**
[72] SCHNEIDER, FRANK, DE
[72] MULLER, HANNES, DE
[72] REMPE, MICHAEL, DE
[72] LUBBERT, TIM, DE
[72] ALBERS, FREDERIK, DE
[71] AIRBUS OPERATIONS GMBH, DE
[22] 2023-10-06
[41] 2024-04-27
[30] EP (22204138.6) 2022-10-27

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[21] **3,215,837**
[13] A1
[51] **Int.Cl. G06F 21/31 (2013.01) G06N 20/00 (2019.01) G06F 18/22 (2023.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR EXTERNAL ACCOUNT AUTHENTICATION**
[54] **SYSTEMES ET METHODES POUR L'AUTHENTIFICATION DE COMPTE EXTERNE**
[72] KWOK, JENNIFER, US
[72] BRODSKY, SARA ROSE, US
[72] ZWIERZYNSKI, JASON, US
[72] EDWARDS, JOSHUA, US
[72] DONTHI, ABHAY, US
[72] MORALES, TANIA CRUZ, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2023-10-05
[41] 2024-04-24
[30] US (18/049,092) 2022-10-24

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[21] **3,215,954**
[13] A1
[51] **Int.Cl. H05K 7/14 (2006.01) H01M 10/613 (2014.01) H01M 10/66 (2014.01) H01M 10/46 (2006.01) H05K 7/20 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **CHARGER WITH BATTERY PACK COOLING FAN**
[54] **CHARGEUR COMPRENANT UN VENTILATEUR DE REFROIDISSEMENT BLOC-BATTERIE**
[72] POLAT, ECE, US
[72] ZWILLING, ADAM, US
[72] HANKS, NICOLAS JAMES, US
[72] ZHANG, SHIYI, US
[72] KALAVALA, KRISHNA SAI TEJA, US
[71] TECHTRONIC CORDLESS GP, US
[22] 2023-10-11
[41] 2024-04-21
[30] US (18/048,798) 2022-10-21

[21] **3,216,111**
[13] A1
[51] **Int.Cl. B60D 1/18 (2006.01) B65H 75/38 (2006.01)**
[25] EN
[54] **RETRACTABLE TOW REEL ASSEMBLY**
[54] **ASSEMBLAGE DE DEVIDOIR DE REMORQUAGE RETRACTABLE**
[72] STEWART, JASON, US
[71] SUPER ATV, LLC, US
[22] 2023-10-12
[41] 2024-04-27
[30] US (18/050,057) 2022-10-27

[21] **3,216,114**
[13] A1
[51] **Int.Cl. B64D 47/00 (2006.01) B64D 11/00 (2006.01) E03B 1/00 (2006.01) E03B 11/02 (2006.01)**
[25] EN
[54] **WATER SUPPLY SYSTEM WITH CROSS-FEED LINK AND AIRCRAFT HAVING A WATER SUPPLY SYSTEM**
[54] **RESEAU D'ALIMENTATION EN EAU COMPRENANT UNE CONDUITE D'INTERCOMMUNICATION ET AERONEF COMPRENANT UN RESEAU D'ALIMENTATION EN EAU**
[72] ALBERS, FREDERIK, DE
[72] SCHNEIDER, FRANK, DE
[72] MULLER, HANNES, DE
[72] SCHREINER, AXEL, DE
[72] LUBBERT, TIM, DE
[72] REMPE, MICHAEL, DE
[71] AIRBUS OPERATIONS GMBH, DE
[22] 2023-10-11
[41] 2024-04-27
[30] EP (22204136.0) 2022-10-27

[21] **3,216,486**
[13] A1
[51] **Int.Cl. B65D 65/22 (2006.01) B65D 5/02 (2006.01) B65D 75/26 (2006.01)**
[25] EN
[54] **WRAPPING MATERIAL FOR PACKAGED GOODS AND STACK, COMPRISING A PLURALITY OF THESE WRAPPING MATERIALS, AS WELL AS USE OF THE WRAPPING MATERIAL**
[54] **MATERIAU D~EMBALLAGE DE BIENS EMBALLES ET DE PILE COMPRENANT UNE PLURALITE DE TELS MATERIAUX D~EMBALLAGE, ET UTILISATION CONNEXE**
[72] BASTIAN, THOMAS, DE
[71] METTLER PACKAGING LLC, US
[22] 2023-10-13
[41] 2024-04-25
[30] EP (22203637.8) 2022-10-25

[21] **3,216,508**
[13] A1
[51] **Int.Cl. F16L 25/14 (2006.01) E02B 11/02 (2006.01) F16L 37/08 (2006.01) F16L 37/26 (2006.01)**
[25] EN
[54] **ADAPTIVE TILE COUPLING**
[54] **RACCORD DE CARREAU ADAPTATIF**
[72] ROSENWINKEL, TIMOTHY J., US
[71] A&E PLASTICS, INC., US
[22] 2023-10-13
[41] 2024-04-24
[30] US (63/418,788) 2022-10-24
[30] US (18/320,811) 2023-05-19

[21] **3,216,544**
[13] A1
[51] **Int.Cl. D04G 5/00 (2006.01) A01G 9/12 (2006.01) A01G 17/08 (2006.01)**
[25] EN
[54] **STRING TYING MACHINE**
[54] **MACHINE A NOUER UNE CORDE**
[72] JOHNSON, TREVOR, CA
[72] MARCHAND, DENNIS, CA
[71] JOHNSON, TREVOR, CA
[71] MARCHAND, DENNIS, CA
[22] 2023-10-14
[41] 2024-04-24
[30] US (17971963) 2022-10-24

[21] **3,216,576**
[13] A1
[51] **Int.Cl. F04B 53/16 (2006.01) F04B 47/00 (2006.01)**
[25] EN
[54] **FLUID END WITH TRANSITION SURFACE GEOMETRY**
[54] **EXTREMITE A FLUIDE COMPRENANT UNE GEOMETRIE DE SURFACE DE TRANSITION**
[72] KAY, KONNER CASEY, US
[71] GD ENERGY PRODUCTS, LLC, US
[22] 2023-10-16
[41] 2024-04-25
[30] US (17/972,717) 2022-10-25

[21] **3,216,830**
[13] A1
[51] **Int.Cl. H01M 50/627 (2021.01) H01M 50/636 (2021.01) H01G 9/00 (2006.01)**
[25] EN
[54] **FILLING HEAD**
[54] **TETE DE REMPLISSAGE**
[72] KALTENMARK, DIRK, DE
[72] BAPP, JARO, DE
[72] BAEDER, CHRISTOPH, DE
[72] GRIESSINGER, JOHANNES, DE
[71] MANZ AG, DE
[22] 2023-10-17
[41] 2024-04-21
[30] EP (22202925.8) 2022-10-21

[21] **3,216,846**
[13] A1
[51] **Int.Cl. H01M 50/581 (2021.01) H01M 50/503 (2021.01) H01M 50/522 (2021.01) H01M 50/526 (2021.01) H01M 50/583 (2021.01)**
[25] EN
[54] **THERMAL RUNAWAY PREVENTION**
[54] **PREVENTION DES FUITES THERMIQUES**
[72] SINGH, SURINDER, US
[72] SHARMA, RATNESH K., US
[71] RELYION ENERGY, INC., US
[22] 2023-10-17
[41] 2024-04-21
[30] US (18/048,641) 2022-10-21

[21] **3,216,852**
[13] A1
[51] **Int.Cl. F04B 53/16 (2006.01) F04B 47/00 (2006.01)**
[25] EN
[54] **FLUID END WITH TRANSITION SURFACE GEOMETRY**
[54] **EXTREMITE A FLUIDE COMPRENANT UNE GEOMETRIE DE SURFACE DE TRANSITION**
[72] KONNER, CASEY KAY, US
[72] CARY, PAUL DOUGLAS, US
[71] GD ENERGY PRODUCTS, LLC, US
[22] 2023-10-17
[41] 2024-04-25
[30] US (18/326,312) 2023-05-31
[30] US (17/972,717) 2022-10-25

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[21] **3,216,922**
[13] A1
[51] **Int.Cl. B65D 81/38 (2006.01) B65D 5/50 (2006.01)**
[25] EN
[54] **THERMALLY INSULATING BOX INSERTS, AND METHODS OF MAKING AND USING THE SAME**
[54] **GARNITURES DE BOITE D'ISOLATION THERMIQUE ET METHODES DE FABRICATION ET D'UTILISATION**
[72] DE LESSEUX, LIONEL DE BAZELAIRE, US
[71] DE LESSEUX, LIONEL DE BAZELAIRE, US
[22] 2023-10-18
[41] 2024-04-21
[30] US (63/418,212) 2022-10-21

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[21] **3,216,934**
[13] A1
[51] **Int.Cl. B65G 1/04 (2006.01) B65G 1/06 (2006.01)**
[25] EN
[54] **STORAGE FACILITY FOR MATERIAL PANELS**
[54] **INSTALLATION DE STOCKAGE DE PANNEAUX DE MATERIAU**
[72] REMPEL, JURI, DE
[72] SCHARTNER, TOBIAS, DE
[71] STROTHMANN MACHINES & HANDLING GMBH, DE
[22] 2023-10-18
[41] 2024-04-27
[30] DE (10 2022 004 022.0) 2022-10-27
[30] DE (20 2022 002 880.6) 2022-10-27
[30] DE (10 2023 127 773.1) 2023-10-11

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[21] **3,216,971**
[13] A1
[51] **Int.Cl. E04G 21/12 (2006.01) E04C 5/16 (2006.01)**
[25] EN
[54] **BINDING MACHINE**
[54] **MACHINE A RELIER**
[72] ISHIGURO, HIROKI, JP
[72] YAMAZAKI, TAICHI, JP
[72] SHINDOU, SHIGEKI, JP
[71] MAX CO., LTD., JP
[22] 2023-10-19
[41] 2024-04-26
[30] JP (2022-171063) 2022-10-26

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[21] **3,216,976**
[13] A1
[51] **Int.Cl. F16L 37/08 (2006.01) A61M 39/10 (2006.01) F16L 37/12 (2006.01) F16L 37/24 (2006.01) F16L 37/26 (2006.01)**
[25] EN
[54] **COUPLING DEVICE FOR FLUID LINES**
[54] **DISPOSITIF D~ACCOUPLEMENT DE CONDUITES DE FLUIDE**
[72] WAWCHUK, RICHARD, CA
[71] WAWCHUK, RICHARD, CA
[22] 2023-10-18
[41] 2024-04-21
[30] US (63/418,311) 2022-10-21

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[21] **3,217,009**
[13] A1
[51] **Int.Cl. G01C 21/34 (2006.01) G09B 29/00 (2006.01)**
[25] EN
[54] **TESSELLATION-BASED PROXIMITY SYSTEM**
[54] **SYSTEME DE PROXIMITE A BASE DE PAVAGE**
[72] GOUSSARD, JACQUES-OLIVIER, CA
[72] KANOUTE, MAHAMANE, CA
[72] HACOT, HERVE, CA
[72] MIGLIETTI, JEAN-LOUIS, CA
[72] FOUQUEREAU, GUILLAUME, CA
[71] EXPEDIA, INC., US
[22] 2023-10-19
[41] 2024-04-24
[30] US (17/972,368) 2022-10-24

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[21] **3,217,041**
[13] A1
[51] **Int.Cl. E01D 19/06 (2006.01) E04B 1/68 (2006.01) F16L 27/12 (2006.01)**
[25] EN
[54] **SELF-CLEANING EXPANSION JOINT SYSTEM**
[54] **SYSTEME DE JOINT DE DILATATION AUTONETTOYANT**
[72] MOORE, GARY, US
[72] ROSS, GREGORY, US
[72] PUMM, PAUL, US
[72] SMITH, ADAM, US
[71] SIKA TECHNOLOGY AG, CH
[22] 2023-10-18
[41] 2024-04-25
[30] US (18/049,463) 2022-10-25

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[21] **3,217,073**
[13] A1
[25] EN
[54] **METHOD AND INTEGRALLY BLADED ROTOR FOR BLADE OFF TESTING**
[54] **METHODE ET ROTOR A AUBES INTEGREES POUR UN ESSAI DE RUPTURE D~AUBE**
[72] ZHOU, YONGSHENG, CA
[72] TOLJAGIC, BRIGITTE, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-10-19
[41] 2024-04-21
[30] US (17/971,183) 2022-10-21

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[21] **3,217,074**
[13] A1
[51] **Int.Cl. F01D 7/00 (2006.01) F01D 5/02 (2006.01) F01D 5/12 (2006.01) F01D 5/30 (2006.01) F03B 3/12 (2006.01)**
[25] EN
[54] **METHOD AND INTEGRALLY BLADED ROTOR FOR BLADE OFF TESTING**
[54] **METHODE ET ROTOR A AUBES INTEGREES POUR UN ESSAI DE RUPTURE D~AUBE**
[72] STONE, PAUL, CA
[72] MANGARDICH, DIKRAN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-10-19
[41] 2024-04-21
[30] US (17/971,211) 2022-10-21

[21] **3,217,075**
[13] A1
[51] **Int.Cl. B23H 3/00 (2006.01) B23B 35/00 (2006.01) B23B 39/00 (2006.01) B23H 7/00 (2006.01) B23H 9/14 (2006.01) C25F 3/14 (2006.01) C25F 7/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FORMING A NOZZLE INLET OF A NOZZLE**
[54] **SYSTEME ET METHODE DE FORMATION D~UNE ENTREE DE BUSE**
[72] ALECU, DANIEL, CA
[72] DIOSADY, LASLO TIBOR, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-10-19
[41] 2024-04-21
[30] US (17/971,108) 2022-10-21

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[21] **3,217,081**
[13] A1
[51] **Int.Cl. B65B 25/04 (2006.01) B65B 17/00 (2006.01)**
[25] EN
[54] **TOMATO BUNCH PAGKAGING MACHINE**
[54] **MACHINE A EMBALLER DES GRAPPES DE TOMATES**
[72] JOHNSON, TREVOR, CA
[72] MARCHAND, DENNIS, CA
[71] JOHNSON, TREVOR, CA
[71] MARCHAND, DENNIS, CA
[22] 2023-10-19
[41] 2024-04-24
[30] US (63418719) 2022-10-24

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[21] **3,217,260**
[13] A1
[51] **Int.Cl. B62D 55/26 (2006.01) B62D 55/08 (2006.01)**
[25] EN
[54] **ICE SCRATCHING DEVICE FOR SNOWMOBILES AND RELATED METHODS**
[54] **DISPOSITIF A RAYER LA GLACE POUR MOTONEIGES ET METHODES CONNEXES**
[72] DESMARAIS, MARTIAL, CA
[71] DESMARAIS, MARTIAL, CA
[22] 2023-10-20
[41] 2024-04-24
[30] US (63/418,853) 2022-10-24

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[21] **3,217,264**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR ENCODING OF CONTENT SEGMENTS**
[54] **METHODES ET SYSTEMES DE CODAGE DE SEGMENTS DE CONTENU**
[72] LINTZ, CHRISTOPHER, US
[72] YARNELL, DERIK, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-10-20
[41] 2024-04-21
[30] US (18/048,698) 2022-10-21

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[21] **3,217,268**
[13] A1
[51] **Int.Cl. G06F 16/27 (2019.01) G06F 16/17 (2019.01) G06F 16/22 (2019.01)**
[25] EN
[54] **TRANSFERRING AND ACCESSING USER-SPECIFIC STORED CONTENT**
[54] **TRANSFERT ET ACCES A DU CONTENU STOCKE PROPRE A UN UTILISATEUR**
[72] LINTZ, CHRISTOPHER, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-10-20
[41] 2024-04-21
[30] US (18/048,749) 2022-10-21

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[21] **3,217,284**
[13] A1
[51] **Int.Cl. F17D 1/08 (2006.01) F17D 3/01 (2006.01)**
[25] EN
[54] **RENEWABLE DIESEL INTERFACE RECOMBINATION**
[54] **RECOMBINAISON D'INTERFACE DE DIESEL RENOUVELABLE**
[72] FREEMAN, MATTHEW T., US
[72] HILL, R. BENJAMIN, US
[72] RIESEN, TERRY, US
[71] MARATHON PETROLEUM COMPANY LP, US
[22] 2023-10-20
[41] 2024-04-21
[30] US (18/382,377) 2023-10-20
[30] US (63/380,428) 2022-10-21
[30] US (63/463,351) 2023-05-02

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[21] **3,217,314**
[13] A1
[51] **Int.Cl. E04H 12/20 (2006.01) E02D 5/80 (2006.01) E02D 7/22 (2006.01)**
[25] EN
[54] **GUY PLATE**
[54] **PLAQUE DE HAUBAN**
[72] OKONEK, PETER, AT
[72] GUERRA, LUCA, AT
[71] SPINNANKER GMBH, AT
[22] 2023-10-20
[41] 2024-04-21
[30] EP (22203126.2) 2022-10-21

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[21] **3,217,319**
[13] A1
[51] **Int.Cl. E02D 5/80 (2006.01) B65H 51/32 (2006.01) E02D 5/74 (2006.01) E02D 7/22 (2006.01) E21D 20/00 (2006.01) F16B 35/00 (2006.01)**
[25] EN
[54] **SCREWING-IN SYSTEM FOR INSERTING A THREADED ROD INTO A SUBSTRATE**
[54] **SYSTEME DE VISSAGE POUR INSERER UNE TIGE FILETEE DANS UN SUBSTRAT**
[72] OKONEK, PETER, AT
[72] GUERRA, LUCA, AT
[71] SPINNANKER GMBH, AT
[22] 2023-10-20
[41] 2024-04-21
[30] EP (22203095.9) 2022-10-21

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[21] **3,217,350**
[13] A1
[51] **Int.Cl. H01R 13/707 (2006.01) F21V 23/06 (2006.01) H01R 13/15 (2006.01)**
[25] EN
[54] **OPTIMIZED SHAFT FOR INTERLOCK MECHANISM**
[54] **ARBRE OPTIMISE POUR UN MECANISME D'INTERVERROUILLAGE**
[72] CANSECO, ERIK GARCIA, MX
[72] VALERIO , ELIAS MARTINEZ, MX
[72] MANZANO, ALEJANDRO GARCIA, MX
[72] ALBA REGALADO, LUIS MANUEL, MX
[71] EATON INTELLIGENT POWER LIMITED, IE
[22] 2023-10-20
[41] 2024-04-21
[30] US (63/380403) 2022-10-21

[21] **3,217,374**
[13] A1
[51] **Int.Cl. B64D 33/08 (2006.01) B64D 27/02 (2006.01) B64D 35/00 (2006.01) F01P 3/20 (2006.01) F01P 11/08 (2006.01)**
[25] EN
[54] **AIRCRAFT PROPULSION SYSTEM WITH INTERMITTENT COMBUSTION ENGINE, HYDRAULIC MOTOR, AND COOLING SYSTEM**
[54] **SYSTEME DE PROPULSION D~AERONEF COMPRENANT UN MOTEUR A COMBUSTION INTERMITTENTE, UN MOTEUR HYDRAULIQUE ET UN SYSTEME DE REFROIDISSEMENT**
[72] FREER, RICHARD, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-10-20
[41] 2024-04-21
[30] US (17/971,239) 2022-10-21

[21] **3,217,379**
[13] A1
[51] **Int.Cl. E04G 21/12 (2006.01)**
[25] EN
[54] **BINDING MACHINE**
[54] **MACHINE A RELIER**
[72] ISHIGURO, HIROKI, JP
[72] YAMAZAKI, TAICHI, JP
[72] SHINDOU, SHIGEKI, JP
[71] MAX CO., LTD., JP
[22] 2023-10-20
[41] 2024-04-26
[30] JP (2022-171064) 2022-10-26

[21] **3,217,382**
[13] A1
[51] **Int.Cl. B65B 59/02 (2006.01) B21D 51/30 (2006.01) B65B 51/09 (2006.01)**
[25] EN
[54] **TURRET ASSEMBLIES FOR CONTAINER SEALING SYSTEM**
[54] **ASSEMBLAGES DE TOURELLE POUR UN SYSTEME A SCELLER DES CONTENANTS**
[72] MASON, KRISTEN ROSE, US
[72] LEE, CHANE, US
[71] BEVCORP, LLC, US
[22] 2023-10-20
[41] 2024-04-23
[30] US (63/380,582) 2022-10-23

[21] **3,217,384**
[13] A1
[51] **Int.Cl. F21V 21/22 (2006.01) A45B 3/04 (2006.01) F21V 33/00 (2006.01)**
[25] EN
[54] **TELESCOPIC LIGHTING STRUCTURE**
[54] **STRUCTURE D~ECLAIRAGE TELESCOPIQUE**
[72] LIN, CHE-HSIEN, TW
[71] LIN, CHE-HSIEN, TW
[22] 2023-10-20
[41] 2024-04-24
[30] US (111211595) 2022-10-24

[21] **3,217,394**
[13] A1
[51] **Int.Cl. B23D 79/12 (2006.01) B26D 1/12 (2006.01) B26D 3/16 (2006.01) B26D 3/28 (2006.01)**
[25] EN
[54] **PIPE PEELER**
[54] **MACHINE A DECAPER LES TUYAUX**
[72] OSWALD, SASCHA, CA
[72] OSWALD, FRITZ, CA
[71] OSWALD, SASCHA, CA
[71] OSWALD, FRITZ, CA
[22] 2023-10-20
[41] 2024-04-27
[30] US (63/419,764) 2022-10-27

[21] **3,217,429**
[13] A1
[51] **Int.Cl. E04C 2/04 (2006.01) B32B 13/08 (2006.01) E04B 1/94 (2006.01) E04C 2/296 (2006.01)**
[25] EN
[54] **GYPSUM PANEL CONTAINING RECLAIMED GYPSUM**
[54] **PANNEAU DE GYPSE COMPORTANT DU GYPSE RECYCLE**
[72] EVANS, VEDA, US
[72] BLADES, MICHAEL, US
[72] IYER, R. G., US
[72] STAV, ELI, US
[72] BUSCHE, BRADLEY J., US
[72] ROBERTSON, CRAIG, US
[72] WHITTINGTON, GENE, US
[72] BAILEY, JOSEPH J., US
[71] GOLD BOND BUILDING PRODUCTS, LLC, US
[22] 2023-10-20
[41] 2024-04-21
[30] US (63/418,068) 2022-10-21

[21] **3,217,430**
[13] A1
[25] EN
[54] **COMPUTER-BASED SYSTEMS AND/OR COMPUTING DEVICES PROGRAMMED FOR INSTANT ISSUANCE OF A REPLACEMENT PHYSICAL ACCESS INSTRUMENT; AND METHODS OF USE THEREOF**
[54] **SYSTEMES ET/OU DISPOSITIFS INFORMATIQUES PROGRAMMES POUR L~EMISSION INSTANTANEE D~UN INSTRUMENT D~ACCES PHYSIQUE DE REMPLACEMENT ET METHODES D~UTILISATION CONNEXES**
[72] CHIGURUPATI, SRINIVASA, US
[72] OSBORN, KEVIN, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2023-10-20
[41] 2024-04-21
[30] US (17/971,004) 2022-10-21

[21] **3,217,433**
[13] A1
[51] **Int.Cl. H04W 36/08 (2009.01) H04W 36/38 (2009.01) H04W 56/00 (2009.01) H04W 72/0453 (2023.01) H04W 72/23 (2023.01)**
[25] EN
[54] **EARLY TIME ALIGNMENT ACQUISITION FOR FAST CELL SWITCHING**
[54] **ACQUISITION D'ALIGNEMENT TEMPOREL PRECOCE POUR UNE COMMUTATION DE CELLULE RAPIDE**
[72] ZHOU, HUA, US
[72] JEON, HYOUNGSUK, US
[72] DINAN, ESMAEL HEJAZI, US
[72] CIRIK, ALI CAGATAY, US
[72] PRASAD, GAUTHAM, US
[72] KIM, TAEHUN, US
[72] XU, JIAN, US
[72] ABDUL LATHEEF, FASIL, US
[72] TSAI, HSIN-HSI, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-10-20
[41] 2024-04-21
[30] US (63/418,403) 2022-10-21

[21] **3,217,438**
[13] A1
[51] **Int.Cl. B65G 11/20 (2006.01) B65G 11/00 (2006.01) B65G 21/20 (2006.01) F16B 35/02 (2006.01)**
[25] EN
[54] **QUICK CHANGE GUIDE RAIL ASSEMBLIES**
[54] **ASSEMBLAGES DE RAIL DE GUIDAGE A CHANGEMENT RAPIDE**
[72] MASON, KRISTEN ROSE, US
[72] LEE, CHANE, US
[72] BRINOVEC, GREGORY, US
[71] BEVCORP, LLC, US
[22] 2023-10-20
[41] 2024-04-23
[30] US (63/380,583) 2022-10-23

[21] **3,217,445**
[13] A1
[51] **Int.Cl. B27B 25/02 (2006.01) B27B 31/00 (2006.01)**
[25] EN
[54] **FEED ROLL ASSEMBLY, MOUNT AND FLUTE ELEMENT THEREOF AND METHOD OF MANUFACTURING THE SAME**
[54] **ASSEMBLAGE DE ROULEAU D~ALIMENTATION, SOCLE, ELEMENT ONDULE ET METHODE DE FABRICATION**
[72] WEBSTER, BRIAN, CA
[71] WEBCO MILL SUPPLY LTD., CA
[22] 2023-10-20
[41] 2024-04-25
[30] US (17/973347) 2022-10-25

[21] **3,217,489**
[13] A1
[51] **Int.Cl. F16M 5/00 (2006.01) F24F 1/38 (2011.01) F04D 29/60 (2006.01) H02K 5/00 (2006.01)**
[25] EN
[54] **MULTI-DIMENSION MOTOR MOUNT SPACER/ADAPTER**
[54] **ENTRETOISE/ADAPTATEUR DE SUPPORT DE MOTEUR MULTIDIMENSIONNEL**
[72] YOCHUM, JASON ROBERT, US
[72] WISEMAN, JOSHUA, US
[71] SSW ADVANCED TECHNOLOGIES, LLC, US
[22] 2023-10-23
[41] 2024-04-27
[30] US (63/419.784) 2022-10-27

[21] **3,217,497**
[13] A1
[51] **Int.Cl. H02G 3/22 (2006.01) H02G 3/04 (2006.01) H02G 3/08 (2006.01) H01B 9/00 (2006.01) H01B 11/00 (2006.01)**
[25] EN
[54] **EQUIPMENT MODULE AND PLANT**
[54] **MODULE D'EQUIPEMENT ET INSTALLATION**
[72] TAKAHASHI, HIROKI, JP
[72] IKEYA, RYOTA, JP
[71] JGC CORPORATION, JP
[22] 2023-10-20
[41] 2024-04-21
[30] JP (PCT/JP2022/039362) 2022-10-21

[21] **3,217,502**
[13] A1
[25] EN
[54] **BLOCK VECTOR DIFFERENCE (BVD) CODING**
[54] **CODAGE DE DIFFERENCE DE VECTEUR DE BLOC**
[72] FILIPPOV, ALEXEY KONSTANTINOVICH, US
[72] RUFITSKIY, VASILY ALEXEEVICH, US
[72] DINAN, ESMAEL HEJAZI, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-10-20
[41] 2024-04-24
[30] US (63/418,855) 2022-10-24

[21] **3,217,504**
[13] A1
[51] **Int.Cl. A63B 23/12 (2006.01) A63B 21/00 (2006.01)**
[25] EN
[54] **A SYSTEM THAT ALLOWS UPPER EXTREMITY ACTIVE AND PASSIVE MOTION**
[54] **SYSTEME PERMETTANT UN MOUVEMENT ACTIF ET PASSIF D~EXTREMITE SUPERIEURE**
[72] ROGELL, MATTHEW, US
[71] ROGELL, MATTHEW, US
[22] 2023-10-20
[41] 2024-04-21
[30] US (63/418,192) 2022-10-21
[30] US (63/499,169) 2023-04-28

[21] **3,217,519**
[13] A1
[51] **Int.Cl. A41D 13/06 (2006.01)**
[25] EN
[54] **KNEEPAD ADAPTED FOR WORKING ON INCLINED SURFACES**
[54] **GENOUILLERE ADAPTEE POUR TRAVAILLER SUR DES SURFACES INCLINEES**
[72] FRANCIS, KAROL, CA
[71] 9181-5811 QUEBEC INC., CA
[22] 2023-10-23
[41] 2024-04-21
[30] US (63/380,450) 2022-10-21

[21] **3,217,536**
[13] A1
[51] **Int.Cl. B62B 1/04 (2006.01)**
[25] EN
[54] **FOLDABLE CART AND FOLDABLE CART FRAME**
[54] **CHARIOT PLIANT ET CHASSIS DE CHARIOT PLIANT**
[72] XUE, NING, US
[72] SIMONSON, JEFFREY CLAYTON, US
[71] SHELTERLOGIC CORP., US
[22] 2023-10-23
[41] 2024-04-24
[30] US (18/382,304) 2023-10-20
[30] US (63/418,867) 2022-10-24

[21] **3,217,537**
[13] A1
[51] **Int.Cl. H02S 20/30 (2014.01) H02S 30/10 (2014.01)**
[25] EN
[54] **FLOATING SOLAR APPARATUS**
[54] **APPAREIL SOLAIRE FLOTTANT**
[72] COJOC-WISERNIG, EDUARD, CA
[71] WISER MARINE TECHNOLOGIES LTD, CA
[22] 2023-10-23
[41] 2024-04-21
[30] GB (GB2215672.3) 2022-10-21

[21] **3,217,553**
[13] A1
[51] **Int.Cl. B60R 11/00 (2006.01)**
[25] EN
[54] **CLAMP ASSEMBLY AND KIT THEREFOR**
[54] **ASSEMBLAGE DE SERRAGE ET TROUSSE CONNEXE**
[72] LECLERC, JEAN-MICHEL, CA
[72] NAJEM, HAKIM, CA
[72] POUDRIER, ALEXANDRE, CA
[72] BOUCHARD, SIMON, CA
[71] SOUCY INTERNATIONAL INC., CA
[22] 2023-10-24
[41] 2024-04-24
[30] US (63/418,842) 2022-10-24

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[21] **3,217,561**
[13] A1
[51] **Int.Cl. F16M 11/00 (2006.01) F24F 1/60 (2011.01)**
[25] EN
[54] **SUPPORT KIT, PARTICULARLY FOR AIR CONDITIONING EQUIPMENT**
[54] **TROUSSE DE SUPPORT, EN PARTICULIER POUR UN EQUIPEMENT DE CONDITIONNEMENT D'AIR**
[72] INNOCENTE IMPERIALE, ALBERTO, CH
[71] IMPERIALE SAGL, CH
[22] 2023-10-23
[41] 2024-04-25
[30] IT (102022000021960) 2022-10-25

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[21] **3,217,576**
[13] A1
[51] **Int.Cl. G06Q 50/34 (2012.01) G07F 17/32 (2006.01)**
[25] EN
[54] **MATCHING INCIDENT OCCURRENCES TO A USER-DETERMINED NUMBER SET SYSTEMS AND METHODS**
[54] **SYSTEMES DE CORRESPONDANCE D'INSTANCES D'INCIDENT AVEC UN ENSEMBLE DE NOMBRES DETERMINE PAR L'UTILISATEUR ET METHODES**
[72] ADELMAN, CLIFFORD, GB
[71] ENTAIN MARKETING (UK) LTD., GB
[22] 2023-10-24
[41] 2024-04-24
[30] US (17/984.646) 2022-11-10
[30] US (63/418.803) 2022-10-24

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[21] **3,217,577**
[13] A1
[25] EN
[54] **A ROTARY ENCODER**
[54] **CODEUR ROTATIF**
[72] DALL, HANS HILMAR, DK
[71] DALMATIC TNV A/S, DK
[22] 2023-10-24
[41] 2024-04-24
[30] GB (2215751.5) 2022-10-24

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[21] **3,217,593**
[13] A1
[51] **Int.Cl. F21S 8/00 (2006.01) F21S 8/02 (2006.01) F21V 15/01 (2006.01)**
[25] EN
[54] **LIGHTING FRAME**
[54] **CHASSIS D'APPAREIL D'ECLAIRAGE**
[72] WOOD, CLIFFORD T., US
[72] SHANER, JEFF ROBERT, US
[71] ABL IP HOLDING, LLC, US
[22] 2023-10-24
[41] 2024-04-26
[30] US (63/380,967) 2022-10-26

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[21] **3,217,622**
[13] A1
[51] **Int.Cl. G07D 7/0043 (2016.01) G06V 30/42 (2022.01) G06K 7/14 (2006.01) G06K 19/067 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINING THE AUTHENTICITY OF AN IDENTITY DOCUMENT**
[54] **METHODES ET SYSTEMES POUR DETERMINER L'AUTHENTICITE D'UN DOCUMENT D'IDENTITE**
[72] RODRIGUEZ, RAPHAEL A., US
[71] RODRIGUEZ, RAPHAEL A., US
[22] 2023-10-24
[41] 2024-04-24
[30] US (17/971,961) 2022-10-24

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[21] **3,217,630**
[13] A1
[25] EN
[54] **A METHOD AND A SYSTEM FOR SINGLE-PIXEL IMAGING**
[54] **METHODE ET SYSTEME D~IMAGERIE A UN PIXEL**
[72] KILCULLEN, PATRICK, CA
[72] LIANG, JINYANG, CA
[72] OZAKI, TSUNEYUKI, CA
[71] INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CA
[22] 2023-10-24
[41] 2024-04-24
[30] US (63/380,620) 2022-10-24

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[21] **3,217,645**
[13] A1
[51] **Int.Cl. E01D 19/06 (2006.01) E01C 11/02 (2006.01)**
[25] EN
[54] **MODULAR EXPANSION JOINT SYSTEM**
[54] **SYSTEME DE JOINT DE DILATATION MODULAIRE**
[72] MOORE, GARY, US
[72] ROSS, GREGORY, US
[72] PUMM, PAUL, US
[72] BUCHANAN, TOM, US
[71] WATSON BOWMAN ACME CORPORATION, US
[22] 2023-10-24
[41] 2024-04-24
[30] US (17/972,376) 2022-10-24

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[21] **3,217,659**
[13] A1
[51] **Int.Cl. F16L 55/172 (2006.01) F16L 21/02 (2006.01) F16L 21/06 (2006.01) F16L 55/178 (2006.01)**
[25] EN
[54] **PIPE COUPLING ENCAPSULATION ASSEMBLY**
[54] **ASSEMBLAGE D~ENCAPSULATION DE RACCORD DE TUYAU**
[72] CHIPROOT, AVI, IL
[71] KRAUSZ INDUSTRIES LTD., IL
[22] 2023-10-24
[41] 2024-04-24
[30] US (18/048,902) 2022-10-24

[21] **3,217,707**
[13] A1
[51] **Int.Cl. G06F 21/55 (2013.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR MONITORING OF DATA FOR ATTACK DETECTION AND PREVENTION**
[54] **APPAREIL ET METHODES POUR SURVEILLER DES DONNEES AUX FINS DE DETECTION ET DE PREVENTION DES ATTAQUES**
[72] SOLIMAN, HAZEM MOHAMED AHMED, CA
[72] MAYYA, NIRANJAN, CA
[71] ARCTIC WOLF NETWORKS, INC., US
[22] 2023-10-25
[41] 2024-04-27
[30] US (18/050,398) 2022-10-27
[30] US (18/339,690) 2023-06-22

[21] **3,217,714**
[13] A1
[51] **Int.Cl. G06V 40/20 (2022.01) G06T 19/00 (2011.01) G06T 7/292 (2017.01) G06F 3/01 (2006.01) G06T 7/20 (2017.01)**
[25] EN
[54] **EXTENDED REALITY-BASED SYSTEM AND RELATED METHODS FOR TRAINING INDIVIDUALS IN SOCIAL MIRRORING SKILLS**
[54] **SYSTEME EN REALITE ETENDUE ET METHODES CONNEXES POUR FORMER DES INDIVIDUS DANS LES COMPETENCES D'IMITATION SOCIALE**
[72] STAUFFER, MICHAEL, US
[72] DEHAVEN, KAREN, US
[71] VIZMOO LLC, US
[22] 2023-10-24
[41] 2024-04-26
[30] US (63/419,567) 2022-10-26

[21] **3,217,768**
[13] A1
[51] **Int.Cl. E04D 5/00 (2006.01) E04D 1/22 (2006.01) E04D 3/38 (2006.01) E04D 7/00 (2006.01) E04D 11/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF FORMING ROOFING SHINGLES WITH APPLICATION OF A FIBERIZED ADHESIVE**
[54] **SYSTEMES ET METHODES DE FORMATION DE BARDEAUX DE COUVERTURE COMPRENANT L'APPLICATION D'UN ADHESIF FIBREUX**
[72] SVEC, JAMES A., US
[71] BMIC LLC, US
[22] 2023-10-25
[41] 2024-04-25
[30] US (63/419,131) 2022-10-25

[21] **3,217,878**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR IDENTIFYING FREQUENTLY TRAVELED ROUTES**
[54] **SYSTEMES ET METHODES POUR DETERMINER DES ROUTES FREQUEMMENT UTILISEES**
[72] SEVERTSON, FORRESTT, US
[71] THE TORONTO DOMINION BANK, CA
[22] 2023-10-27
[41] 2024-04-27
[30] US (17/975,401) 2022-10-27

[21] **3,217,911**
[13] A1
[51] **Int.Cl. H04B 10/071 (2013.01)**
[25] EN
[54] **PASSIVE OPTICAL NETWORK MONITORING**
[54] **SURVEILLANCE DE RESEAU OPTIQUE PASSIF**
[72] DAWSON-ELLI, DAVID FRANCIS, US
[72] WIGLEY, PETER GERARD, US
[71] CORNING RESEARCH & DEVELOPMENT CORPORATION, US
[22] 2023-10-26
[41] 2024-04-26
[30] US (63/419,484) 2022-10-26

[21] **3,217,935**
[13] A1
[51] **Int.Cl. H04W 36/08 (2009.01) H04W 36/38 (2009.01) H04W 56/00 (2009.01) H04W 72/231 (2023.01) H04W 72/232 (2023.01)**
[25] EN
[54] **DOWNLINK CONTROL CHANNEL MONITORING FOR FAST CELL SWITCHING**
[54] **SURVEILLANCE DE CANAL DE COMMANDE EN LIAISON DESCENDANTE POUR UNE COMMUTATION RAPIDE DE CELLULE**
[72] ZHOU, HUA, US
[72] CIRIK, ALI CAGATAY, US
[72] DINAH, ESMAEL HEJAZI, US
[72] JEON, HYOUNGSUK, US
[72] PRASAD, GAUTHAM, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-10-27
[41] 2024-04-27
[30] US (63/419,810) 2022-10-27

[21] **3,218,007**
[13] A1
[51] **Int.Cl. G06Q 10/20 (2023.01) G06Q 10/08 (2023.01) G06Q 10/063 (2023.01)**
[25] EN
[54] **PROCEDE POUR ORDONNER LES VEHICULES D'UNE FLOTTE DE VEHICULES SELON UN BESOIN DE MAINTENANCE ; PROGRAMME D'ORDINATEUR ET SYSTEME INFORMATIQUE ASSOCIES**
[54] **METHOD FOR ORDERING VEHICLES IN A VEHICLE FLEET BY MAINTENANCE REQUIREMENT; ASSOCIATED COMPUTER PROGRAM AND SYSTEM**
[72] STAINO, ANDREA, FR
[72] MIJATOVIC, NENAD, FR
[72] KAY, FABIEN, FR
[72] ROBERTS, JOHN, FR
[72] CABOT, JULIEN, FR
[71] ALSTOM HOLDINGS, FR
[22] 2023-10-19
[41] 2024-04-24
[30] FR (2210996) 2022-10-24

[21] **3,218,399**
[13] A1
[51] **Int.Cl. B23K 20/12 (2006.01)**
[25] EN
[54] **JOINING OF HIGH WEAR RESISTANT AND BASE MATERIALS**
[54] **RACCORD DE MATERIAUX TRES RESISTANTS A L'USURE ET DE MATERIAUX DE BASE**
[72] JIANG, JIAREN, CA
[72] ZAMBRANO, OSCAR ALEXANDER, CA
[72] WANJARA, PRITI, CA
[72] GHOLIPOUR, JAVAD, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[22] 2023-10-27
[41] 2024-04-27
[30] US (63/419,839) 2022-10-27

[21] **3,219,944**
[13] A1
[25] EN
[54] **METHODS, APPARATUSES, AND COMPUTER PROGRAM PRODUCTS FOR FUGITIVE GAS QUANTIFICATION**
[54] **METHODES, APPAREILS ET PROGRAMMES INFORMATIQUES POUR LA QUANTIFICATION DE GAZ FUGITIF**
[72] SHEN, QUAN, US
[71] REBELLION PHOTONICS, INC., US
[22] 2023-10-19
[41] 2024-04-21
[30] US (17/971189) 2022-10-21

[21] **3,222,241**
[13] A1
[51] **Int.Cl. B60S 9/08 (2006.01)**
[25] EN
[54] **LOW-PROFILE A-FRAME TRAILER JACK**
[54] **VERIN DE REMORQUE EN A A PROFIL BAS**
[72] SWANSON, NEIL J., US
[71] SWANSON, NEIL J., US
[22] 2023-12-07
[41] 2024-04-22

[21] **3,228,840**
[13] A1
[51] **Int.Cl. C25B 1/135 (2021.01) C01B 32/00 (2017.01) C25B 9/09 (2021.01) C25B 15/00 (2006.01) C25B 15/08 (2006.01)**
[25] EN
[54] **A METHOD OF PRODUCING CARBON MATERIALS FROM FEEDSTOCK GASES**
[54] **METHODE DE PRODUCTION DE MATIERES CARBONEES A PARTIR DE GAZ DE CHARGE D'ALIMENTATION**
[72] KARU, EINAR, EE
[72] URB, GARY, EE
[71] UP CATALYST OU, EE
[22] 2023-12-22
[41] 2024-04-26
[30] GB (2319842.7) 2023-12-21

[21] **3,230,133**
[13] A1
[51] **Int.Cl. G01N 3/18 (2006.01) G01N 17/00 (2006.01)**
[25] EN
[54] **USE OF ELECTROCHEMICAL INTERFERENCE MATERIAL TO MITIGATE STRESS CORROSION CRACKING OF FERRITIC STEEL UNDER INSULATION**
[54] **UTILISATION D'UN MATERIAU D'INTERFERENCE ELECTROCHIMIQUE POUR ATTENUER LA RUPTURE PAR CORROSION SOUS CONTRAINTE D'ACIER FERRITIQUE ISOLE**
[72] BEHNAMIAN, YASHAR, CA
[72] SERATE, DUANE, CA
[72] YUEN, SIMON, CA
[71] SUNCOR ENERGY INC., CA
[22] 2024-02-23
[41] 2024-04-23

[21] **3,230,725**
[13] A1
[51] **Int.Cl. C08L 83/04 (2006.01) A47L 13/16 (2006.01) A47L 17/08 (2006.01) C08J 9/30 (2006.01) C08L 75/04 (2006.01)**
[25] EN
[54] **SYNTHETIC SPONGE AND USE THEREOF AS A DISH SCRUBBER**
[54] **EPONGE SYNTHETIQUE ET UTILISATION CONNEXE COMME BROSSE A VAISSELLE**
[72] GARBUTT, RACHEL, CA
[72] RIVA, AMANDA, CA
[71] DOTTI INC., CA
[22] 2024-02-29
[41] 2024-04-26

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,181,506**
[13] A1
[51] **Int.Cl. C07H 13/08 (2006.01) A61K 31/7028 (2006.01) A61P 3/10 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PHENOL COMPOUND-LINKED PENTAGALLOYL GLUCOSE DERIVATIVES AND USES THEREOF**
[54] **DERIVES DE PENTAGALLOYL GLUCOSE LIES A UN COMPOSE DE PHENOL ET UTILISATIONS CONNEXES**
[72] YOON, CHANG KEUN, KR
[72] KIM, HONG GYUM, KR
[72] KIM, MYOUNG OK, KR
[71] GENTRIBIO INC., KR
[85] 2022-12-05
[86] 2022-10-24 (PCT/KR2022/016280)
[87] (3181506)
[30] KR (10-2022-0055891) 2022-05-06

[21] **3,188,612**
[13] A1
[51] **Int.Cl. B01J 19/18 (2006.01) C01F 11/18 (2006.01)**
[25] EN
[54] **REACTOR AND CARBONATION EQUIPMENT HAVING SAME**
[54] **REACTEUR ET EQUIPEMENT DE CARBONATATION LE COMPRENANT**
[72] KIM, CHEOL HYUN, KR
[72] SUNG, DAE JIN, KR
[72] LEE, JEONG WON, KR
[72] CHUNG, YONG KWON, KR
[72] YUN, BYUNG KWON, KR
[72] LEE, SANG HOON, KR
[72] RYU, JEON YEL, KR
[72] LEE, SEUNG HO, KR
[71] HYUNDAI OILBANK CO., LTD., KR
[71] WOOROUNG CO., LTD, KR
[85] 2023-02-07
[86] 2022-10-24 (PCT/KR2022/016229)
[87] (3188612)
[30] KR (10-2021-0185780) 2021-12-23

[21] **3,196,584**
[13] A1
[51] **Int.Cl. F16L 1/024 (2006.01) H02G 3/36 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROTECTION OF UNDER-SLAB UTILITIES FROM CHANGES IN SOIL VOLUME**
[54] **SYSTEME ET PROCEDE DE PROTECTION D'EQUIPEMENTS DE SERVICES PUBLICS SOUS UNE DALLE CONTRE DES CHANGEMENTS DE VOLUME AFFECTANT LES SOLS**
[72] HARRIS, BENCHMARK, US
[71] HARRIS, BENCHMARK, US
[85] 2023-04-24
[86] 2022-10-24 (PCT/US2022/047588)
[87] (3196584)

[21] **3,223,629**
[13] A1
[51] **Int.Cl. F28D 9/00 (2006.01) A23K 40/20 (2016.01) A23P 30/10 (2016.01) C01B 32/15 (2017.01)**
[25] EN
[54] **A HEAT EXCHANGER MODULE AND A DIE COMPRISING A PLURALITY OF MODULES**
[54] **MODULE D'ECHANGEUR DE CHALEUR ET EMPORTE-PIECE COMPRENANT PLUSIEURS MODULES**
[72] TESSER, GIORGIO, IT
[72] FAVERO, NICOLA, IT
[72] LENTI, MASSIMO, IT
[71] PAVAN S.P.A., IT
[85] 2023-12-20
[86] 2023-07-28 (PCT/IB2023/057702)
[87] (3223629)
[30] EP (22203177.5) 2022-10-24

[21] **3,226,629**
[13] A1
[51] **Int.Cl. A61H 19/00 (2006.01)**
[25] EN
[54] **STIMULATION DEVICE**
[54] **DISPOSITIF DE STIMULATION**
[72] LIU, DAN, CN
[71] HYTTO PTE. LTD., SG
[71] DONGGUAN AISI HEALTH CARE PRODUCTS CO., LTD., CN
[85] 2024-01-22
[86] 2023-12-29 (PCT/CN2023/143458)
[87] (3226629)

[21] **3,230,057**
[13] A1
[51] **Int.Cl. B01F 25/10 (2022.01) B01F 35/222 (2022.01) B01F 35/71 (2022.01)**
[25] EN
[54] **TRAPPED VORTEX MIXER FOR MIXING FLUIDS**
[54] **MELANGEUR A TOURBILLON PIEGE POUR MELANGER DES LIQUIDES**
[72] KENDRICK, DONALD W., CA
[71] EKONA POWER INC., CA
[85] 2024-02-26
[86] 2023-09-28 (PCT/CA2023/051283)
[87] (3230057)
[30] US (63/432,621) 2022-12-14

[21] **3,231,802**
[13] A1
[51] **Int.Cl. B01D 15/00 (2006.01) B67D 7/06 (2010.01) B67D 7/74 (2010.01) B67D 7/84 (2010.01) B01D 11/00 (2006.01) B01D 11/02 (2006.01) B01D 27/08 (2006.01) B01D 27/14 (2006.01) C02F 1/00 (2006.01) C02F 1/68 (2006.01) E04H 4/00 (2006.01)**
[25] EN
[54] **INLINE DISPENSING SYSTEM**
[54] **SYSTEME DE DISTRIBUTION EN LIGNE**
[72] BARTON, ERIC, US
[72] JOHNSON, JEFFREY D., US
[72] SWAGEL, DARRIN M., US
[71] KING TECHNOLOGY, INC, US
[85] 2024-03-13
[86] 2022-09-09 (PCT/US2022/043052)
[87] (WO2023/043671)
[30] US (63/360,217) 2021-09-14

[21] **3,232,855**
[13] A1
[51] **Int.Cl. A61M 16/04 (2006.01)**
[25] EN
[54] **AIRWAY DEVICES AND METHODS OF USE THEREOF**
[54] **DISPOSITIFS POUR VOIES RESPIRATOIRES ET METHODES D'UTILISATION**
[72] NILFORUSHAN, VAHID, CA
[71] NILFORUSHAN, VAHID, CA
[85] 2024-03-21
[86] 2023-10-23 (PCT/CA2023/051404)
[87] (3232855)
[30] US (63/418,567) 2022-10-23
[30] US (63/449,320) 2023-03-02
[30] US (63/526,460) 2023-07-13
[30] US (63/528,644) 2023-07-25
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[13] A1
[51] **Int.Cl. A61K 31/7068 (2006.01) A61K 31/7076 (2006.01) A61K 31/7115 (2006.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) C07H 19/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR EDITING MECP2 TRANSCRIPTS AND METHODS THEREOF**
[54] **COMPOSITIONS POUR L'EDITION DE TRANSCRITS MECP2 ET PROCEDES ASSOCIES**
[72] ACKER, CHRISTOPHER MICHAEL, US
[72] CHIVATAKARN, ONANONG, US
[72] MONIAN, PRASHANT, US
[72] SHIVALILA, CHIKDU SHAKTI, US
[72] MARAPPAN, SUBRAMANIAN, US
[72] VARGEESE, CHANDRA, US
[72] KANDASAMY, PACHAMUTHU, US
[72] LU, GENLIANG, US
[72] YU, HUI, US
[72] BUTLER, DAVID CHARLES DONNELL, US
[72] APPONI, LUCIANO HENRIQUE, US
[72] SHIMIZU, MAMORU, US
[72] STANDLEY, STEPHANY MICHELLE, US
[72] BOULAY, DAVID JOHN, US
[72] HOSS, ANDREW GUZIOR, US
[72] DESAI, JIGAR, US
[72] GODFREY, JACK DAVID, US
[72] YANG, HAILIN, US
[72] IWAMOTO, NAOKI, US
[72] KUMARASAMY, JAYAKANTHAN, US
[72] LAMATTINA, ANTHONY, US
[72] HARDING, IAN CHANDLER, US
[72] TURNER, JESSE, US
[71] WAVE LIFE SCIENCES LTD., SG
[85] 2024-03-25
[86] 2022-09-26 (PCT/US2022/044767)
[87] (WO2023/049477)
[30] US (63/248,524) 2021-09-26
[30] US (63/341,391) 2022-05-12

[21] **3,233,401**
[13] A1
[51] **Int.Cl. C08L 67/00 (2006.01) A01N 25/10 (2006.01) A01N 61/00 (2006.01) A01P 1/00 (2006.01) A23B 7/14 (2006.01) A23B 7/16 (2006.01) B65D 81/24 (2006.01)**
[25] EN
[54] **ETHYLENE SCAVENGING COMPOSITIONS WITH ANTIMICROBIAL PROPERTIES**
[54] **COMPOSITIONS DE PIEGEAGE D'ETHYLENE AYANT DES PROPRIETES ANTIMICROBIENNES**
[72] SZARKA, MARK, US
[72] LYON, ROSS, US
[71] CHICORA GROUP,LLC, US
[85] 2024-03-27
[86] 2022-09-30 (PCT/US2022/045314)
[87] (3233401)

[21] **3,235,334**
[13] A1
[51] **Int.Cl. B60L 5/40 (2006.01) B60L 53/14 (2019.01) B60M 1/34 (2006.01) B62D 1/26 (2006.01) E01B 25/28 (2006.01) E01C 9/02 (2006.01)**
[25] EN
[54] **SECURED "LOW VOLTAGE" SLIDING CONDUCTIVE CONNECTION DEVICE FOR STATIC AND DYNAMIC CHARGING OF ELECTRIC VEHICLES AND ASSOCIATED METHODS**
[54] **DISPOSITIF DE CONNEXION CONDUCTRICE COULISSANTE SECURISEE "BASSE TENSION" POUR LA CHARGE STATIQUE ET DYNAMIQUE DES VEHICULES ELECTRIQUES ET METHODES ASSOCIEES**
[72] NOBILEAU, PHILIPPE, FR
[71] NOBILEAU, PHILIPPE, FR
[85] 2024-04-17
[86] 2022-10-18 (PCT/IB2022/059996)
[87] (WO2023/067496)

[21] **3,235,539**
[13] A1
[51] **Int.Cl. B60C 1/00 (2006.01) C08L 47/00 (2006.01) C08F 210/02 (2006.01)**
[25] FR
[54] **RUBBER COMPOSITION**
[54] **COMPOSITION DE CAOUTCHOUC**
[72] PIBRE, GUILLAUME, FR
[72] DUMONTET, LUDIVINE, FR
[72] FERRAND, THOMAS, FR
[72] MAMMERI, KAHINA, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2024-04-18
[86] 2022-11-14 (PCT/EP2022/081708)
[87] (WO2023/088817)
[30] FR (FR2112327) 2021-11-22

[21] **3,235,544**
[13] A1
[51] **Int.Cl. C08L 23/08 (2006.01) C08K 3/013 (2018.01) B60C 1/00 (2006.01) C08J 3/24 (2006.01) C08K 9/06 (2006.01)**
[25] FR
[54] **RUBBER COMPOSITION**
[54] **COMPOSITION DE CAOUTCHOUC**
[72] FERRAND, THOMAS, FR
[72] PIBRE, GUILLAUME, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2024-04-18
[86] 2022-11-14 (PCT/EP2022/081713)
[87] (WO2023/088820)
[30] FR (FR2112338) 2021-11-22

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[13] A1
[51] **Int.Cl. F25B 9/10 (2006.01) G06N 10/00 (2022.01) F25B 9/12 (2006.01) F25B 9/14 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **DILUTION REFRIGERATOR WITH CONTINUOUS FLOW HELIUM LIQUEFIER**
[54] **REFRIGERATEUR A DILUTION COMPRENANT UN LIQUEFACTEUR D'HELIUM A ECOULEMENT CONTINU**
[72] JETTE, FRANCOIS-XAVIER, CA
[72] HUNEAULT, JUSTIN, CA
[71] ANYON SYSTEMS INC., CA
[85] 2024-04-18
[86] 2022-11-02 (PCT/CA2022/051619)
[87] (WO2023/077222)
[30] US (63/274,633) 2021-11-02

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[13] A1
[51] **Int.Cl. A01K 67/027 (2024.01) A61K 31/00 (2006.01) A61K 31/36 (2006.01) A61K 31/4025 (2006.01) A61K 31/405 (2006.01) A61K 31/422 (2006.01) A61K 31/496 (2006.01) A61K 31/505 (2006.01) A61K 31/506 (2006.01) A61K 45/06 (2006.01) A61K 48/00 (2006.01) A61P 21/00 (2006.01) G01N 33/68 (2006.01) G01N 33/74 (2006.01)**
[25] EN
[54] **NEW THERAPEUTIC USE OF ENDOTHELIN RECEPTOR ANTAGONISTS**
[54] **NOUVELLE UTILISATION THERAPEUTIQUE D'ANTAGONISTES DU RECEPTEUR DE L'ENDOTHELINE**
[72] BENSALAH, MONA, FR
[72] BIGOT, ANNE, FR
[72] MURAINE, LAURA, FR
[72] NEGRONI, ELISA, FR
[72] TROLLET, CAPUCINE, FR
[71] ASSOCIATION INSTITUT DE MYOLOGIE, FR
[71] SORBONNE UNIVERSITE, FR
[71] INSERM - INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR
[85] 2024-04-18
[86] 2022-10-27 (PCT/EP2022/080136)
[87] (WO2023/073134)
[30] EP (21306516.2) 2021-10-28

[21] **3,235,563**
[13] A1
[51] **Int.Cl. C12N 15/63 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **CONTROLLED TRANSCRIPTION OF POLYNUCLEOTIDES**
[54] **TRANSCRIPTION CONTROLEE DE POLYNUCLEOTIDES**
[72] ZHAO, YU, US
[72] BURAKOV, DARYA, US
[72] CHEN, GANG, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-04-18
[86] 2022-10-18 (PCT/US2022/078271)
[87] (WO2023/069929)
[30] US (63/256,831) 2021-10-18

[21] **3,235,570**
[13] A1
[51] **Int.Cl. F03B 17/06 (2006.01) F03D 1/04 (2006.01)**
[25] EN
[54] **DEVICE FOR CONVERTING FLOW ENERGY TRANSPORTED VIA A MEDIUM INTO MECHANICAL AND/OR ELECTRICAL ENERGY**
[54] **DISPOSITIF DE CONVERSION D'ENERGIE D'ECOULEMENT TRANSPORTEE PAR L'INTERMEDIAIRE D'UN MILIEU EN ENERGIE MECANIQUE ET/OU ELECTRIQUE**
[72] BERNSAU, GEBHARD, DE
[71] VENTOSTREAM AG, CH
[85] 2024-04-18
[86] 2022-10-14 (PCT/EP2022/000091)
[87] (WO2023/066511)
[30] DE (10 2021 005 200.5) 2021-10-19

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[13] A1
[51] **Int.Cl. A45D 44/00 (2006.01) A45D 97/00 (2011.01) B01F 33/84 (2022.01)**
[25] EN
[54] **APPARATUS FOR CONNECTED HAIR PIGMENT DISPENSER**
[54] **APPAREIL POUR DISTRIBUTEUR DE PIGMENT CAPILLAIRE CONNECTE**
[72] GIMENEZ, FRANCISCO, GB
[71] YUV BEAUTY, INC., US
[85] 2024-04-18
[86] 2023-01-20 (PCT/US2023/061034)
[87] (WO2023/141598)
[30] US (63/301,560) 2022-01-21

[21] **3,235,579**
[13] A1
[51] **Int.Cl. H01M 4/131 (2010.01) H01M 4/133 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 10/052 (2010.01) H01M 10/0587 (2010.01)**
[25] EN
[54] **CYLINDRICAL SECONDARY BATTERY**
[54] **BATTERIE SECONDAIRE CYLINDRIQUE**
[72] KIM, NAM-WON, KR
[72] KIM, JUNG-HOON, KR
[72] RYU, DUK-HYUN, KR
[72] HONG, SANG-HO, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-18
[86] 2022-10-21 (PCT/KR2022/016210)
[87] (WO2023/068900)
[30] KR (10-2021-0142208) 2021-10-22
[30] KR (10-2021-0179523) 2021-12-15

[21] **3,235,580**
[13] A1
[51] **Int.Cl. C08B 30/12 (2006.01) A23L 29/212 (2016.01) C08L 3/02 (2006.01)**
[25] EN
[54] **STARCH COMPOSITIONS MADE USING SATURATED STEAM**
[54] **COMPOSITIONS D'AMIDON FABRIQUEES A L'AIDE DE VAPEUR SATUREE**
[72] KILGAST, NILS, US
[72] BEIER, MARKUS, US
[72] WENZEL, DAVID, US
[72] BASEDA, JULIKA, US
[71] CORN PRODUCTS DEVELOPMENT, INC., US
[85] 2024-04-18
[86] 2022-10-11 (PCT/US2022/046217)
[87] (WO2023/076023)
[30] US (63/271,329) 2021-10-25

[21] **3,235,581**
[13] A1
[51] **Int.Cl. H04M 1/72412 (2021.01) H04W 88/02 (2009.01)**
[25] EN
[54] **CELLULAR CHIPSET EMBEDDED UNDER SCALP**
[54] **JEU DE PUCES CELLULAIRES INCORPORE SOUS LE CUIR CHEVELU**
[72] KENNEDY, PHILIP, US
[71] KENNEDY, PHILIP, US
[85] 2024-04-18
[86] 2022-10-13 (PCT/US2022/046599)
[87] (WO2023/069303)
[30] US (63/257,362) 2021-10-19

[21] **3,235,582**
[13] A1
[51] **Int.Cl. C12N 5/00 (2006.01) C12N 5/0783 (2010.01)**
[25] EN
[54] **HYDROGEL PARTICLES AS FEEDER CELLS AND AS SYNTHETIC ANTIGEN PRESENTING CELLS**
[54] **PARTICULES D'HYDROGEL EN TANT QUE CELLULES NOURRICIERES ET EN TANT QUE CELLULES PRESENTATRICES D'ANTIGENES SYNTHETIQUES**
[72] NGUYEN, ANH TUAN, US
[72] KIM, JEFFREY, US
[72] AHN, KEUNHO, US
[71] SLINGSHOT BIOSCIENCES, INC., US
[85] 2024-04-18
[86] 2022-10-28 (PCT/US2022/048283)
[87] (WO2023/076629)
[30] US (63/273,741) 2021-10-29
[30] US (63/274,316) 2021-11-01
[30] US (63/320,009) 2022-03-15
[30] US (63/320,016) 2022-03-15

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[13] A1
[51] **Int.Cl. C08F 210/16 (2006.01) C08F 4/6592 (2006.01) C08L 23/08 (2006.01)**
[25] EN
[54] **METHODS OF MAKING BIMODAL POLYETHYLENES**
[54] **PROCEDES DE FABRICATION DE POLYETHYLENES BIMODAUX**
[72] SAVATSKY, BRUCE J., US
[72] LYNN, TIMOTHY R., US
[71] UNIVATION TECHNOLOGIES, LLC, US
[85] 2024-04-18
[86] 2022-10-25 (PCT/US2022/047645)
[87] (WO2023/076208)
[30] US (63/271,870) 2021-10-26

[21] **3,235,584**
[13] A1
[51] **Int.Cl. B25B 23/10 (2006.01)**
[25] EN
[54] **ADVANCED HOLDING APPARATUS**
[54] **APPAREIL DE SUPPORT AVANCE**
[72] KUKUCKA, PAUL, US
[72] KUKUCKA, THOMAS STEFAN, US
[71] GRIP HOLDINGS LLC, US
[85] 2024-04-18
[86] 2022-09-22 (PCT/US2022/044384)
[87] (WO2023/069216)
[30] US (17/506,590) 2021-10-20

[21] **3,235,585**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/00 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/20 (2006.01) A61K 47/40 (2006.01) A61P 1/00 (2006.01)**
[25] EN
[54] **LIQUID PHARMACEUTICAL FORMULATION**
[54] **FORMULATION PHARMACEUTIQUE LIQUIDE**
[72] SCHUTZ, ANDREAS, DE
[72] WOLF, HELMUT, DE
[71] PROJECT PHARMACEUTICS GMBH, DE
[85] 2024-04-18
[86] 2022-10-21 (PCT/EP2022/079468)
[87] (WO2023/067188)
[30] LU (LU500779) 2021-10-22

[21] **3,235,588**
[13] A1
[51] **Int.Cl. A61M 1/00 (2006.01)**
[25] EN
[54] **USER-FRIENDLY NEGATIVE PRESSURE WOUND THERAPY DEVICES AND METHODS OF OPERATING SUCH DEVICES**
[54] **DISPOSITIFS CONVIVIAUX DE TRAITEMENT DES PLAIES PAR PRESSION NEGATIVE ET PROCEDES POUR FAIRE FONCTIONNER DE TELS DISPOSITIFS**
[72] BOSCARO, ANGELA, GB
[72] ELDER, DAVID MICHAEL, GB
[72] HOWARTH, GRANT, GB
[72] IVAN, PAVEL, GB
[72] KNIGHT, REECE JAMES, GB
[72] MAGGIORE, ANDREA, GB
[72] WEBB, CHRISTOPHER JOHN, GB
[71] T.J. SMITH AND NEPHEW, LIMITED, GB
[85] 2024-04-18
[86] 2022-10-19 (PCT/EP2022/079091)
[87] (WO2023/072704)
[30] GB (2115353.1) 2021-10-26
[30] GB (2117771.2) 2021-12-09

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[13] A1
[51] **Int.Cl. B23B 27/04 (2006.01) B23B 29/04 (2006.01)**
[25] EN
[54] **CUTTING INSERT HAVING LATERALLY SPACED APART, LONGITUDINALLY EXTENDING WEDGE ABUTMENT SURFACES, TOOL HOLDER AND CUTTING TOOL**
[54] **PLAQUETTE DE COUPE PRESENTANT DES SURFACES DE BUTEE DE COIN ESPACEES LATERALEMENT ET S'ETENDANT LONGITUDINALEMENT, PORTE-OUTIL ET OUTIL DE COUPE**
[72] ATHAD, SHIMON, IL
[71] ISCAR LTD., IL
[85] 2024-04-18
[86] 2022-10-18 (PCT/IL2022/051098)
[87] (WO2023/079546)
[30] US (17/517,711) 2021-11-03

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[13] A1
[51] **Int.Cl. G10K 11/175 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TREATING SLEEP APNEA, NIGHT-TIME HEARING IMPAIRMENT AND TINNITUS WITH ACOUSTIC NEUROMODULATION**
[54] **SYSTEME ET PROCEDE DE TRAITEMENT DE L'APNEE DU SOMMEIL, DE LA DEFICIENCE AUDITIVE NOCTURNE ET DES ACOUPHENES AVEC NEUROMODULATION ACOUSTIQUE**
[72] NATHANS, MICHAEL G., US
[72] GOLDSTEIN, DAVID G., US
[72] FEIED, CRAIG F., US
[72] GOLDSTEIN, KEVIN E., US
[71] WHISPERSOM CORP., US
[85] 2024-04-18
[86] 2022-10-21 (PCT/US2022/047423)
[87] (WO2023/069710)
[30] US (63/270,677) 2021-10-22

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[13] A1
[51] **Int.Cl. G21C 15/12 (2006.01) G21C 15/14 (2006.01) F22B 1/02 (2006.01) F22B 37/22 (2006.01) G21C 15/02 (2006.01) G21C 15/20 (2006.01)**
[25] EN
[54] **STRESS RELIEVING ATTACHMENT OF TUBE TO TUBESHEET, SUCH AS IN A PRESSURE VESSEL SHELL OF A NUCLEAR REACTOR POWER SYSTEM**
[54] **FIXATION A REDUCTION DE CONTRAINTES D'UN TUBE A UNE PLAQUE TUBULAIRE, TELLE QUE DANS UNE COQUE DE CUVE SOUS PRESSION D'UN SYSTEME D'ALIMENTATION DE REACTEUR NUCLEAIRE**
[72] SORENSEN, TODD, US
[72] LISZKAI, TAMAS R., US
[71] NUSCALE POWER, LLC, US
[85] 2024-04-18
[86] 2022-11-21 (PCT/US2022/050649)
[87] (WO2023/091773)
[30] US (63/282,053) 2021-11-22

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[13] A1
[51] **Int.Cl. C07F 7/08 (2006.01) C07D 205/04 (2006.01) C07D 205/12 (2006.01) C07D 211/96 (2006.01) C07D 307/20 (2006.01) C07D 307/94 (2006.01) C07D 309/10 (2006.01) C07D 319/06 (2006.01) C07D 491/107 (2006.01) C07D 493/10 (2006.01) C07D 493/14 (2006.01) C07F 7/18 (2006.01)**
[25] EN
[54] **PROCESS FOR C-H INSERTION BY GEM-HYDROGENATION OF AN INTERNAL ALKYNE**
[54] **PROCEDE D'INSERTION DE C-H PAR GEM-HYDROGENATION D'UN ALCYNE INTERNE**
[72] FURSTNER, ALOIS, DE
[72] PEIL, SEBASTIAN, DE
[71] STUDIENGESELLSCHAFT KOHLE GGMBH, DE
[85] 2024-04-18
[86] 2022-11-29 (PCT/EP2022/083715)
[87] (WO2023/110394)
[30] EP (21214560.1) 2021-12-14

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[13] A1
[51] **Int.Cl. A61K 38/45 (2006.01) A61K 48/00 (2006.01) A61P 25/00 (2006.01) C12N 15/52 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **COMPOSITIONS USEFUL IN TREATMENT OF CDKL5 DEFICIENCY DISORDER (CDD)**
[54] **COMPOSITIONS UTILES DANS LE TRAITEMENT D'UN TROUBLE DU DEFICIT EN CDKL5 (CDD)**
[72] WILSON, JAMES M., US
[72] SCHMID, RALF, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2024-04-18
[86] 2022-10-18 (PCT/US2022/078327)
[87] (WO2023/069967)
[30] US (63/256,827) 2021-10-18

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[13] A1
[51] **Int.Cl. F02F 1/24 (2006.01) F02F 1/40 (2006.01) F02M 61/14 (2006.01)**
[25] EN
[54] **CYLINDER HEAD ASSEMBLY HAVING FUEL INJECTOR SLEEVE FOR MID-DECK REACTING OF INJECTOR CLAMPING LOAD**
[54] **ENSEMBLE CULASSE COMPORTANT UN MANCHON D'INJECTEUR DE CARBURANT EN VUE DE LA REACTION DE PONT INTERMEDIAIRE D'UNE CHARGE DE SERRAGE D'INJECTEUR**
[72] REXAVIER, RAJI, US
[71] PROGRESS RAIL LOCOMOTIVE INC., US
[85] 2024-04-18
[86] 2022-10-05 (PCT/US2022/045718)
[87] (WO2023/076001)
[30] US (17/511,474) 2021-10-26

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[25] EN
[54] **WEE1 INHIBITOR FOR CANCER**
[54] **INHIBITEUR DE WEE1 CONTRE LE CANCER**
[72] DONATE, FERNANDO, US
[72] IZADI, HOOMAN, US
[72] DE JONG, PETRUS RUDOLF, US
[72] SAMATAR, AHMED ABDI, US
[72] BUNKER, KEVIN DUANE, US
[72] HUANG, PETER QINHUA, US
[71] RECURIUM IP HOLDINGS, LLC, US
[85] 2024-04-18
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[87] (WO2023/114875)
[30] US (63/265,438) 2021-12-15

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[51] **Int.Cl. G06F 21/10 (2013.01) G06F 21/62 (2013.01)**
[25] EN
[54] **SECURE FILE SHARING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE PARTAGE DE FICHIER SECURISE**
[72] PASTORE, VALERIO, IT
[71] CYBER GRANT INC., US
[85] 2024-04-18
[86] 2022-09-30 (PCT/IB2022/059336)
[87] (WO2023/079383)
[30] IT (102021000027959) 2021-11-03

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[51] **Int.Cl. F02F 1/24 (2006.01) F02F 1/40 (2006.01)**
[25] EN
[54] **ENGINE POWER MODULE AND CYLINDER HEAD FOR SAME**
[54] **MODULE DE PUISSANCE DE MOTEUR ET CULASSE ASSOCIEE**
[72] REXAVIER, RAJI, US
[72] SCHUELER, JOSHUA D., US
[72] MCWADE, PATRICIA A., US
[71] PROGRESS RAIL LOCOMOTIVE INC., US
[85] 2024-04-18
[86] 2022-10-05 (PCT/US2022/077564)
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[30] US (17/511,462) 2021-10-26

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[51] **Int.Cl. G06T 7/00 (2017.01) G06T 7/10 (2017.01) G16H 30/40 (2018.01) G06V 10/764 (2022.01) G06V 10/82 (2022.01) A61B 5/055 (2006.01)**
[25] EN
[54] **AUTOMATED MICROBLEED SEGMENTATION USING TRANSFER LEARNING**
[54] **SEGMENTATION DE MICROHEMORRAGIE AUTOMATISEE UTILISANT L'APPRENTISSAGE PAR TRANSFERT**
[72] DADAR, MAHSA, CA
[72] DUCHESNE, SIMON, CA
[71] UNIVERSITE LAVAL, CA
[85] 2024-04-18
[86] 2022-10-18 (PCT/CA2022/051532)
[87] (WO2023/065021)
[30] US (63/257,536) 2021-10-19
[30] US (63/373,049) 2022-08-20

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[51] **Int.Cl. H02K 9/197 (2006.01)**
[25] EN
[54] **ELECTRICAL ROTATING DEVICE**
[54] **MACHINE ELECTRIQUE TOURNANTE**
[72] TERAUCHI, TETSUYUKI, JP
[72] JIKUMARU, TAKEHIRO, JP
[71] IHI CORPORATION, JP
[85] 2024-04-18
[86] 2022-11-21 (PCT/JP2022/042962)
[87] (WO2023/153043)
[30] JP (2022-020442) 2022-02-14

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[51] **Int.Cl. B22F 9/04 (2006.01) B22F 9/22 (2006.01) F27B 7/08 (2006.01)**
[25] EN
[54] **PROCESS AND PLANT FOR OBTAINING METAL POWDERS FOR BURNERS**
[54] **PROCEDE ET INSTALLATION D'OBTENTION DE POUDRES METALLIQUES POUR BRULEURS**
[72] LORENZON, IVAN, IT
[72] MAKAROVA, EKATERINA, IT
[72] BELLIN, GIOVANNI, IT
[72] VIDOTTO, GIANFRANCO, IT
[71] POMETON SPA, IT
[85] 2024-04-18
[86] 2022-10-18 (PCT/IB2022/059997)
[87] (WO2023/067497)
[30] IT (102021000026837) 2021-10-19
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[30] IT (102021000026849) 2021-10-19

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[54] **AUTOINJECTOR**
[54] **AUTO-INJECTEUR**
[72] MARSH, WILLIAM GEOFFREY ARTHUR, GB
[72] MORRIS, ANTHONY PAUL, GB
[72] JONES, MATTHEW MEREDITH, GB
[72] JAMES, ALED MEREDYDD, GB
[71] MEDMIX SWITZERLAND AG, CH
[85] 2024-04-18
[86] 2022-10-26 (PCT/EP2022/079992)
[87] (WO2023/073049)
[30] EP (21205074.4) 2021-10-27
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[51] **Int.Cl. C07D 215/48 (2006.01) A61K 31/47 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR THE TREATMENT OF KINASE-DEPENDENT DISORDERS**
[54] **COMPOSES POUR LE TRAITEMENT DE TROUBLES DEPENDANT DE LA KINASE**
[72] SHAH, KHALID, US
[72] DEMORIN, FRENEL, US
[72] SHAKYA, SAGAR, US
[72] WANG, YONG, US
[72] XU, WEI, US
[71] EXELIXIS, INC., US
[85] 2024-04-18
[86] 2022-11-03 (PCT/US2022/048770)
[87] (WO2023/081253)
[30] US (63/275,255) 2021-11-03

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[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/522 (2006.01)**
[25] EN
[54] **SMALL MOLECULE INHIBITORS OF UBIQUITIN SPECIFIC PROTEASE 1 (USP1) AND USES THEREOF**
[54] **INHIBITEURS A PETITES MOLECULES DE LA PROTEASE 1 SPECIFIQUE DE L'UBIQUITINE (USP1) ET LEURS UTILISATIONS**
[72] WU, JIANPING, CN
[72] QIN, LUOHENG, CN
[72] LIU, JINXIN, CN
[71] INSILICO MEDICINE IP LIMITED, CN
[85] 2024-04-18
[86] 2022-11-11 (PCT/CN2022/131290)
[87] (WO2023/083285)
[30] CN (PCT/CN2021/130284) 2021-11-12
[30] CN (PCT/CN2022/123821) 2022-10-08

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[51] **Int.Cl. C01B 17/64 (2006.01)**
[25] EN
[54] **METHODS FOR THE PRODUCTION OF AMMONIUM SALTS FROM SOUR WATER STRIPPER GAS**
[54] **PROCEDES DE PRODUCTION DE SELS D'AMMONIUM A PARTIR DE GAZ DE STRIPAGE D'EAU ACIDE**
[72] MICHAEL CASE, PAUL, US
[71] TESSENDERLO GROUP NV, BE
[85] 2024-04-18
[86] 2022-10-19 (PCT/EP2022/079022)
[87] (WO2023/066959)
[30] EP (21203667.7) 2021-10-20

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[51] **Int.Cl. B64G 1/16 (2006.01) E21B 7/24 (2006.01)**
[25] EN
[54] **EXTENDABLE CONDUCTOR FOR THERMAL MANAGEMENT**
[54] **CONDUCTEUR EXTENSIBLE POUR GESTION THERMIQUE**
[72] GEMER, ANDREW JOSEF, US
[72] MOXHAM, COLBY, US
[72] WAGNER, VAN, US
[72] WILSON, PETER, US
[71] LUNAR OUTPOST INC., US
[85] 2024-04-18
[86] 2022-10-19 (PCT/US2022/078383)
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[30] US (63/257,221) 2021-10-19

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[51] **Int.Cl. A61K 49/00 (2006.01) A61K 9/00 (2006.01) A61K 9/70 (2006.01) G01N 1/02 (2006.01)**
[25] EN
[54] **LIPID PATCH**
[54] **PATCH LIPIDIQUE**
[72] ENGBLOM, JOHAN, SE
[72] BJORKLUND, SEBASTIAN, SE
[72] MORIN, MAXIM, SE
[72] JANKOVSKAJA, SKAIDRE, SE
[72] RUZGAS, TAUTGIRDAS, SE
[71] SENSACH AB, SE
[85] 2024-04-18
[86] 2022-10-19 (PCT/EP2022/079083)
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[51] **Int.Cl. C07K 14/705 (2006.01) A61K 35/17 (2015.01) A61K 47/64 (2017.01) A61P 35/02 (2006.01)**
[25] EN
[54] **TREATMENTS FOR CANCERS UTILIZING CELL-TARGETED THERAPIES AND ASSOCIATED RESEARCH PROTOCOLS**
[54] **TRAITEMENTS CONTRE CANCERS UTILISANT DES THERAPIES CIBLANT DES CELLULES ET PROTOCOLES DE RECHERCHE ASSOCIES**
[72] MESHINCHI, SOHEIL, US
[72] LE, QUY, US
[72] RIES, RHONDA, US
[72] CASTRO, SOMMER, US
[71] FRED HUTCHINSON CANCER CENTER, US
[85] 2024-04-18
[86] 2022-11-02 (PCT/US2022/079180)
[87] (WO2023/081727)
[30] US (63/274,914) 2021-11-02
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[51] **Int.Cl. A23D 7/005 (2006.01) A23L 33/15 (2016.01) A23L 33/155 (2016.01) A23L 2/52 (2006.01)**
[25] EN
[54] **LIQUID COMPOSITION CONTAINING A COMBINATION OF VITAMINS A, D, E AND K IN A LIQUID MATRIX**
[54] **COMPOSITION LIQUIDE CONTENANT UNE COMBINAISON DE VITAMINES A, D, E ET K DANS UNE MATRICE LIQUIDE**
[72] HEIDECKE, CHRISTOPH, DE
[72] LORENZ, LUISE, DE
[72] REBMANN, BALDER, DE
[72] BREITENBACH, JORG, DE
[71] LIPOID GMBH, DE
[71] IPSICO UG (HAFTUNGSBESCHRANKT), DE
[85] 2024-04-18
[86] 2022-10-14 (PCT/EP2022/078707)
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[25] EN
[54] **WELDING DEVICE AND METHOD OF MANUFACTURE**
[54] **DISPOSITIF DE SOUDAGE ET PROCEDE DE FABRICATION**
[72] LINN, CASEY BRENDAN, CA
[72] MOSTERD, JUSTIN THOMAS, CA
[72] FRALEIGH, MANLEY JOSEPH TYLER, CA
[71] BWXT CANADA LTD., CA
[85] 2024-04-18
[86] 2022-10-21 (PCT/IB2022/000626)
[87] (WO2023/067392)
[30] US (63/270,167) 2021-10-21

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[51] **Int.Cl. A61K 31/502 (2006.01) A61K 47/10 (2017.01) A61P 9/12 (2006.01)**
[25] EN
[54] **HYDRALAZINE COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS D'HYDRALAZINE ET PROCEDES**
[72] SOPPIMATH, KUMARESH, US
[72] HINGORANI, TUSHAR, US
[72] ATTLURI, HARI A., US
[72] JAIN, HARSHIL H., US
[71] ENDO VENTURES LIMITED, IE
[85] 2024-04-18
[86] 2022-12-29 (PCT/US2022/082534)
[87] (WO2023/130009)
[30] US (63/294,670) 2021-12-29
[30] US (18/146,756) 2022-12-27

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[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CD47 ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS ANTI-CD47 ET LEURS PROCEDES D'UTILISATION**
[72] DU, FANGYONG, CN
[72] LUO, PETER PEIZHI, CN
[72] LI, YAN, CN
[72] CAI, BIN, CN
[72] SHI, JIANFENG, CN
[72] XU, JIANGCHUN, CN
[72] NGUYEN, AARON, CN
[72] ZHENG, SONGMAO, CN
[72] LIU, GUIZHONG, CN
[72] DAI, ZHENGXI, CN
[71] ADAGENE PTE. LTD., SG
[85] 2024-04-18
[86] 2022-10-27 (PCT/CN2022/127875)
[87] (WO2023/072177)
[30] CN (PCT/CN2021/126597) 2021-10-27

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[51] **Int.Cl. G01N 33/50 (2006.01) G01N 33/52 (2006.01) G01N 33/53 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR REMOVAL OF HISTAMINE FROM FERMENTED LIQUIDS**
[54] **COMPOSITIONS ET PROCEDES D'ELIMINATION D'HISTAMINE DE LIQUIDES FERMENTES**
[72] KIM, SANGWON, US
[71] THOMAS JEFFERSON UNIVERSITY, US
[85] 2024-04-18
[86] 2022-10-18 (PCT/US2022/078309)
[87] (WO2023/069953)
[30] US (63/257,370) 2021-10-19
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[51] **Int.Cl. H01M 8/24 (2016.01) C25B 1/02 (2006.01) C25B 1/04 (2021.01)**
[25] EN
[54] **A DEVICE FOR PRODUCING ELECTRICITY AND WATER FROM HYDROGEN AND OXYGEN AND REVERSIBLE**
[54] **DISPOSITIF DE PRODUCTION D'ELECTRICITE ET D'EAU A PARTIR D'HYDROGENE ET D'OXYGENE ET REVERSIBLE**
[72] SKOMSVOLD, AGE JORGEN, NO
[71] HYPER ENERGY AUSTRALIA PTY LTD, AU
[85] 2024-04-18
[86] 2022-11-01 (PCT/NO2022/050248)
[87] (WO2023/080794)
[30] NO (20211319) 2021-11-02

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[51] **Int.Cl. G01N 21/67 (2006.01) E21B 47/12 (2012.01) G01J 3/443 (2006.01) G01N 21/25 (2006.01)**
[25] EN
[54] **DOWNHOLE OPTICAL EMISSION SPECTROSCOPY**
[54] **SPECTROSCOPIE D'EMISSION OPTIQUE DE FOND DE TROU**
[72] ROWE, MATHEW DENNIS, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-04-16
[86] 2021-12-16 (PCT/US2021/063698)
[87] (WO2023/113793)
[30] US (17/550,556) 2021-12-14

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[51] **Int.Cl. B65G 47/19 (2006.01)**
[25] EN
[54] **IMPROVEMENT TO ORE TRANSFER CHUTE**
[54] **AMELIORATION APPORTEE A UNE TREMIE DE TRANSFERT DE MINERAI**
[72] DO MONTE, MAURICIO CAMPELO, BR
[71] WEAR PARTS COMERCIO, IMPORTACAO E EXPORTACAO, SERVICO DE PECAS PARA MINERAÇAO E FERROVIA LTDA EPP., BR
[85] 2024-04-15
[86] 2021-11-18 (PCT/BR2021/050506)
[87] (WO2023/077205)
[30] BR (132021022232-7) 2021-11-05

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[51] **Int.Cl. A23L 27/00 (2016.01) A23L 27/21 (2016.01) A23L 27/26 (2016.01) C12Q 1/6895 (2018.01) C12P 7/6481 (2022.01) C12N 1/14 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR PRODUCING AROMAS**
[54] **COMPOSITIONS ET PROCEDES DE PRODUCTION D'AROMES**
[72] PETRIE, JAMES ROBERTSON, AU
[72] SINGH, SURINDER PAL, AU
[72] EL TAHCHY, ANNA, AU
[72] SHRESTHA, PUSHKAR, AU
[72] DEVILLA, ROSANGELA APARECIDA, AU
[72] NGUYEN, HANH, AU
[72] KROUKAMP, HEINRICH, AU
[71] NOURISH INGREDIENTS PTY LTD, AU
[85] 2024-04-19
[86] 2022-10-20 (PCT/AU2022/051260)
[87] (WO2023/064988)
[30] AU (2021903367) 2021-10-20
[30] AU (2021904213) 2021-12-22
[30] AU (2022900516) 2022-03-03
[30] AU (2022901282) 2022-05-13
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[51] **Int.Cl. G06V 10/44 (2022.01)**
[25] EN
[54] **CHARACTERIZATION OF SUBSURFACE FEATURES USING IMAGE LOGS**
[54] **CARACTERISATION DES CARACTERISTIQUES SOUTERRAINES A L'AIDE DE DIAGRAPHIES D'IMAGE**
[72] EDWARDS, MASON C., US
[72] EARNEST-HECKLER, EVAN JAMES, US
[72] YOW, STEPHEN D., US
[72] LI, MIN, US
[71] CHEVRON U.S.A. INC., US
[85] 2024-04-16
[86] 2022-10-11 (PCT/US2022/046282)
[87] (WO2023/076028)
[30] US (17/514,937) 2021-10-29

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[51] **Int.Cl. C22B 3/16 (2006.01) B01D 11/02 (2006.01) C22B 3/22 (2006.01) C22B 11/00 (2006.01)**
[25] EN
[54] **SOLVENTS AND METHODS FOR LEACHING PRECIOUS METALS**
[54] **SOLVANTS ET PROCEDES DE LIXIVIATION DE METAUX PRECIEUX**
[72] DOOSTMOHAMMADI, MOHAMMAD, CA
[72] MOGHADAM ZADEH, SANAZ, CA
[72] ROBERTS, RYAN JOHN, CA
[71] PH7 TECHNOLOGIES INC., CA
[85] 2024-04-15
[86] 2022-10-21 (PCT/CA2022/051558)
[87] (WO2023/065044)
[30] US (63/271,034) 2021-10-22

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[51] **Int.Cl. E21B 41/00 (2006.01) G01V 99/00 (2024.01) E21B 43/16 (2006.01) E21B 43/25 (2006.01)**
[25] EN
[54] **RESERVOIR SIMULATOR**
[54] **SIMULATEUR DE RESERVOIR**
[72] SUBBIAH, SUREJ KUMAR, QA
[72] MOHAMAD HUSSEIN, ASSEF, GB
[72] CHEN, YING RU, QA
[72] PEARCE, ANDREW, GB
[72] RODRIGUEZ HERRERA, ADRIAN ENRIQUE, GB
[72] NI, QINGLAI, GB
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-04-16
[86] 2022-10-17 (PCT/US2022/046825)
[87] (WO2023/064617)
[30] US (63/256,596) 2021-10-17

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[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/64 (2017.01) A61P 35/00 (2006.01) C07K 7/08 (2006.01) C07K 14/00 (2006.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01) C12N 15/62 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **RECOMBINANT POLYPEPTIDE FOR DISRUPTING INTERACTION OF EAG2 AND KVS2 AND THERAPEUTIC APPLICATIONS THEREOF IN CANCER TREATMENT**
[54] **POLYPEPTIDE RECOMBINANT POUR PERTURBER L'INTERACTION DE EAG2 ET KVSS2 ET APPLICATIONS THERAPEUTIQUES DE CELUI-CI DANS LE TRAITEMENT DU CANCER**
[72] DONG, WEIFAN, CA
[72] HUANG, XI, CA
[71] THE HOSPITAL FOR SICK CHILDREN RESEARCH INSTITUTE, CA
[85] 2024-04-19
[86] 2022-10-21 (PCT/CA2022/051560)
[87] (WO2023/065046)
[30] US (63/270,858) 2021-10-22

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[51] **Int.Cl. A61B 5/374 (2021.01) A61B 5/00 (2006.01)**
[25] EN
[54] **METHOD FOR SELECTING A PORTION OF AN ENCEPHALOGRAPHIC SIGNAL, DEVICES AND CORRESPONDING PROGRAM**
[54] **PROCEDE DE SELECTION DE PORTION DE SIGNAL ENCEPHALOGRAPHIQUE, DISPOSITIFS ET PROGRAMME CORRESPONDANT**
[72] GARDY, LUDOVIC, FR
[72] BARBEAU, EMMANUEL, FR
[72] HURTER, CHRISTOPHE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE TOULOUSE III - PAUL SABATIER, FR
[71] ECOLE NATIONALE DE L'AVIATION CIVILE, FR
[85] 2024-04-15
[86] 2022-10-20 (PCT/EP2022/079304)
[87] (WO2023/067114)
[30] FR (FR2111138) 2021-10-20

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[51] **Int.Cl. C12Q 1/6806 (2018.01) C12N 15/10 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR PURIFYING POLYRIBONUCLEOTIDES**
[54] **COMPOSITIONS ET PROCEDES DE PURIFICATION DE POLYRIBONUCLEOTIDES**
[72] DUDKIN, VADIM, US
[72] PAEK, KI YOUNG, US
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US
[85] 2024-04-16
[86] 2022-10-18 (PCT/US2022/046969)
[87] (WO2023/069397)
[30] US (63/256,703) 2021-10-18

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[51] **Int.Cl. G10H 1/12 (2006.01) G10L 25/90 (2013.01) G10H 1/40 (2006.01)**
[25] EN
[54] **GENERATING TONALLY COMPATIBLE, SYNCHRONIZED NEURAL BEATS FOR DIGITAL AUDIO FILES**
[54] **GENERATION DE BATTEMENTS NEURAUX SYNCHRONISES COMPATIBLES AVEC UNE TONALITE POUR DES FICHIERS AUDIO NUMERIQUES**
[72] QUINTON, ELIO, GB
[71] UNIVERSAL INTERNATIONAL MUSIC B.V., NL
[85] 2024-04-15
[86] 2022-10-21 (PCT/EP2022/079448)
[87] (WO2023/067175)
[30] US (17/507,418) 2021-10-21

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[51] **Int.Cl. C07K 16/22 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **ANTI-ACTIVIN A ANTIBODIES, COMPOSITIONS AND USES THEREOF**
[54] **ANTICORPS ANTI-ACTIVINE A, COMPOSITIONS ET UTILISATIONS DE CEUX-CI**
[72] JACKSON, VIVIENNE MARGARET, US
[72] NIELSON, NELS P., US
[71] BYOMASS INC., US
[71] ADIMAB, LLC, US
[85] 2024-04-16
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[51] **Int.Cl. A61K 35/16 (2015.01) C12N 5/078 (2010.01) A61K 51/12 (2006.01) A61P 15/08 (2006.01)**
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[54] **COMPOSITIONS AND METHODS FOR TREATING ENDOMETRIAL TISSUE**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE TISSU ENDOMETRIAL**
[72] PETERSON, TIMOTHY, US
[72] BEHFAR, ATTA, US
[72] KHAN, ZARAQ, US
[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US
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[87] (WO2023/069507)
[30] US (63/257,454) 2021-10-19

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[51] **Int.Cl. H05H 3/06 (2006.01) A61K 31/69 (2006.01) A61K 41/00 (2020.01) A61N 5/10 (2006.01) C07F 5/02 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR CONVERTING A NEUTRON BEAM**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE CONVERSION D'UN FAISCEAU DE NEUTRONS**
[72] LEE, CHARLES, US
[72] STYRON, JEDEDIAH, US
[71] TAE LIFE SCIENCES, LLC, US
[85] 2024-04-17
[86] 2022-10-26 (PCT/US2022/047912)
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[30] US (63/272,670) 2021-10-27
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[51] **Int.Cl. A24F 40/40 (2020.01)**
[25] EN
[54] **HEAT NOT BURN VAPORIZER DEVICES**
[54] **DISPOSITIFS DE VAPORISATION A CHAUFFAGE SANS COMBUSTION**
[72] ATKINS, ARIEL, US
[72] CHEUNG, BRANDON, US
[72] CHRISTENSEN, STEVEN, US
[72] KING, JASON, US
[72] KURZMAN, JOSHUA A., US
[72] LEON DUQUE, ESTEBAN, US
[72] LOMELI, KEVIN, US
[72] RIOS, MATTHEW, US
[71] JUUL LABS, INC., US
[85] 2024-04-16
[86] 2022-10-31 (PCT/US2022/048341)
[87] (WO2023/081079)
[30] US (63/274,922) 2021-11-02
[30] US (63/410,693) 2022-09-28

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[51] **Int.Cl. C09D 5/08 (2006.01) C23C 18/12 (2006.01)**
[25] EN
[54] **SOL-GEL COATING FORMULATIONS AND METHODS TO MITIGATE GALVANIC CORROSION**
[54] **FORMULATIONS DE REVETEMENT SOL-GEL ET PROCEDES POUR ATTENUER LA CORROSION GALVANIQUE**
[72] GOFF, ADAM, US
[72] MARTIN, REBECCA, US
[72] KOENE, BRYAN, US
[72] PINKSTON, BENJAMIN, US
[71] LUNA LABS USA, LLC, US
[85] 2024-04-16
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[30] US (63/292,563) 2021-12-22

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[54] **AAV CAPSID VARIANTS AND USES THEREOF**
[54] **VARIANTS CAPSIDIQUES DE VAA ET UTILISATIONS ASSOCIEES**
[72] NONNENMACHER, MATHIEU EMMANUEL, US
[72] MOYER, TYLER CHRISTOPHER, US
[72] LI, JIANGYU, US
[72] LAKS, DAN RICHARD, US
[72] HOFFMAN, BRETT, US
[72] KNOLL, ELISABETH, US
[72] SHU, YANQUN, US
[71] VOYAGER THERAPEUTICS, INC., US
[85] 2024-04-16
[86] 2022-11-01 (PCT/US2022/079060)
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[30] US (63/274,806) 2021-11-02
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[25] EN
[54] **PRODUCTS TO TREAT AND/OR PREVENT MENSTRUAL SYMPTOMS**
[54] **PRODUITS POUR TRAITER ET/OU PREVENIR DES SYMPTOMES MENSTRUELS**
[72] PETIT, JUSTINE, CH
[72] MESLIER-AUDEBERT, CLARISSE, CH
[72] PETERSEN, ANNE, CH
[72] GUITARD ULDRY, MARJORIE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
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[25] EN
[54] **HOT ROLLED AND STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF**
[54] **TOLE D'ACIER LAMINEE A CHAUD ET SON PROCEDE DE FABRICATION**
[72] MARTINEZ TARANILLA, LAURA, ES
[72] DUPREZ, LODE, BE
[72] MOLI SANCHEZ, LAURA, BE
[72] WATERSCHOOT, TOM, BE
[72] KUMAR HATUI, ATISH, ES
[71] ARCELORMITTAL, LU
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[51] **Int.Cl. G06T 5/00 (2024.01) H04N 21/6547 (2011.01)**
[25] EN
[54] **COUPLED INVERSE TONE MAPPING AND TONE MAPPING**
[54] **MAPPAGE DE TONALITE INVERSE COUPLE ET MAPPAGE DE TONALITE**
[72] TOUZE, DAVID, FR
[72] CAUVIN, LAURENT, FR
[72] LOPEZ, PATRICK, FR
[72] LE NAOUR, ROBIN, FR
[72] JUMPERTZ, JEAN-LUC, FR
[71] INTERDIGITAL CE PATENT HOLDINGS, SAS, FR
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[25] EN
[54] **ELECTRICALLY ACTUATED TUBULAR CLEANING SYSTEM**
[54] **SYSTEME DE NETTOYAGE TUBULAIRE A ACTIONNEMENT ELECTRIQUE**
[72] NGUYEN, TUAN, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2024-04-19
[86] 2022-10-17 (PCT/US2022/046868)
[87] (WO2023/069353)
[30] US (17/508,311) 2021-10-22

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[51] **Int.Cl. C08L 61/06 (2006.01) C08K 3/34 (2006.01)**
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[54] **WOOD IMPREGNATION COMPOSITIONS**
[54] **COMPOSITIONS D'IMPREGNATION DU BOIS**
[72] SYMONS, MICHAEL WINDSOR, ZA
[71] SYMONS, MICHAEL WINDSOR, ZA
[85] 2024-04-15
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[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING ANOMALOUS SYSTEM BEHAVIOUR**
[54] **SYSTEME ET PROCEDE DE DETECTION DE COMPORTEMENT DE SYSTEME ANORMAL**
[72] HORRY, SAMUEL, GB
[72] MAI, HANS-HEINRICH, GB
[72] NICKLIN, RICHARD EDWARD JOHN, GB
[71] BAE SYSTEMS PLC, GB
[85] 2024-04-16
[86] 2022-10-27 (PCT/GB2022/052736)
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[30] GB (2115423.2) 2021-10-27
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[51] **Int.Cl. G06T 17/20 (2006.01) G06T 13/40 (2011.01)**
[25] EN
[54] **METHODS FOR CORRECTING AND/OR MITIGATING TISSUE PENETRATION IN ANATOMICAL SIMULATION MODELS FOR COMPUTER ANIMATION**
[54] **PROCEDES DE CORRECTION ET/OU D'ATTENUATION DE LA PENETRATION TISSULAIRE DANS DES MODELES DE SIMULATION ANATOMIQUE POUR L'ANIMATION INFORMATIQUE**
[72] MINOR, DAVID SEBASTIAN, CA
[71] DIGITAL DOMAIN VIRTUAL HUMAN (US), INC., US
[85] 2024-04-16
[86] 2022-04-28 (PCT/CA2022/050650)
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[25] EN
[54] **LAUNDRY DETERGENT FORMULATION**
[54] **FORMULATION DE DETERGENT A LESSIVE**
[72] CREUTZ, SERGE, BE
[72] BENBAKOURA, RAHMA, BE
[72] L'HOSTIS, JACQUELINE, BE
[72] VANDEMEULEBROUCKE, FLORE, BE
[72] NAD, SAUGATA, BE
[71] DOW SILICONES CORPORATION, US
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[51] **Int.Cl. G01S 7/52 (2006.01) G01S 7/53 (2006.01) G01S 7/527 (2006.01)**
[25] EN
[54] **COLOR REPRESENTATION OF COMPLEX-VALUED NDT DATA**
[54] **REPRESENTATION DE COULEUR DE DONNEES NDT A VALEUR COMPLEXE**
[72] KWAN, CHI-HANG, CA
[71] EVIDENT CANADA, INC., CA
[85] 2024-04-16
[86] 2022-10-18 (PCT/CA2022/051533)
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[30] US (63/262,842) 2021-10-21

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[51] **Int.Cl. G01N 21/64 (2006.01) A01K 43/00 (2006.01)**
[25] EN
[54] **METHOD AND ASSEMBLY FOR IN-OVO SEXING OF BIRD EGGS**
[54] **PROCEDE ET ENSEMBLE POUR LE SEXAGE IN OVO D'OEUFS D'OISEAUX**
[72] STEINER, GERALD, DE
[72] KOCH, EDMUND, DE
[72] SCHNABEL, CHRISTIAN, DE
[72] PREUSSE, GRIT, DE
[72] GALLI, ROBERTA, DE
[71] TECHNISCHE UNIVERSITAT DRESDEN, DE
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[51] **Int.Cl. C07D 401/04 (2006.01) B01J 31/28 (2006.01) B01J 35/00 (2024.01) C07D 213/22 (2006.01) C07D 213/71 (2006.01) C07D 213/81 (2006.01) C07D 215/06 (2006.01) C07D 215/12 (2006.01) C07D 215/14 (2006.01) C07D 217/26 (2006.01) C07D 221/12 (2006.01) C07D 235/08 (2006.01) C07D 239/88 (2006.01) C07D 241/44 (2006.01) C07D 277/56 (2006.01) C07D 277/64 (2006.01) C07D 401/06 (2006.01) C07D 401/12 (2006.01) C07D 405/14 (2006.01) C07D 453/02 (2006.01) C07D 471/04 (2006.01) C07D 473/40 (2006.01)**
[25] EN
[54] **PHOTOCATALYSTS, PREPARATION AND USE THEREOF**
[54] **PHOTOCATALYSEURS, LEUR PREPARATION ET LEUR UTILISATION**
[72] LI, CHAO-JUN, CA
[72] LI, JIANBIN, CN
[72] HUANG, CHIA-YU, CN
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY, CA
[85] 2024-04-16
[86] 2022-11-01 (PCT/CA2022/051611)
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[30] US (63/276,848) 2021-11-08

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[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/465 (2020.01) A24F 40/53 (2020.01) A24F 40/60 (2020.01)**
[25] EN
[54] **HEATING DEVICE FOR GENERATING CONSUMABLE AEROSOL**
[54] **DISPOSITIF DE CHAUFFAGE POUR GENERER UN AEROSOL CONSOMMABLE**
[72] SINGLETON, MARK, US
[72] SPENCER, VERONICA, US
[72] JOYCE, LEIGH ANN BLEVINS, US
[72] SINGLETON, SKEET M., US
[71] THOUGHT LEADERS, INC., US
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[86] 2022-10-19 (PCT/US2022/047135)
[87] (WO2023/069519)
[30] US (63/257,847) 2021-10-20
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[51] **Int.Cl. H01F 27/245 (2006.01) H01F 27/26 (2006.01) H01F 30/12 (2006.01) H01F 41/02 (2006.01)**
[25] EN
[54] **MAGNETIC CORE**
[54] **NOYAU MAGNETIQUE**
[72] SCOBIE, ANDREW JOHN, GB
[71] ENODA LTD., GB
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[86] 2022-10-28 (PCT/EP2022/080261)
[87] (WO2023/073203)
[30] GB (2115649.2) 2021-11-01

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[51] **Int.Cl. C07K 16/28 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **AQUEOUS FORMULATIONS OF AN ANTI-CD22 ANTIBODY AND USES THEREOF**
[54] **FORMULATIONS AQUEUSES D'UN ANTICORPS ANTI-CD22 ET LEURS UTILISATIONS**
[72] YAU, MING-HON, CN
[72] SIU, KWAN-YIN, CN
[72] CHEUNG, KA-WA BENNY, CN
[72] LEUNG, SHUI-ON, CN
[71] SINOMAB BIOSCIENCE LIMITED, CN
[85] 2024-04-16
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[87] (WO2023/067384)
[30] US (63/256,883) 2021-10-18

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[51] **Int.Cl. C10M 161/00 (2006.01)**
[25] EN
[54] **LUBRICATING OIL COMPOSITION FOR HYBRID VEHICLES**
[54] **COMPOSITION D'HUILE LUBRIFIANTE POUR VEHICULES HYBRIDES**
[72] ONOUCHI, HISANARI, JP
[72] TANAKA, ISAO, JP
[72] HATTORI, TAIKI, JP
[71] CHEVRON JAPAN LTD., JP
[85] 2024-04-16
[86] 2022-10-07 (PCT/IB2022/059617)
[87] (WO2023/067429)
[30] US (63/257,772) 2021-10-20

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[51] **Int.Cl. C11D 3/37 (2006.01) C11D 3/22 (2006.01) C11D 11/00 (2006.01)**
[25] EN
[54] **METHOD OF REDUCING RESIDUAL WATER IN LAUNDRY**
[54] **PROCEDE DE REDUCTION D?UNE EAU RESIDUELLE DANS LE LINGE**
[72] CREUTZ, SERGE, BE
[72] BENBAKOURA, RAHMA, BE
[72] L'HOSTIS, JACQUELINE, BE
[72] VANDEMEULEBROUCKE, FLORE, BE
[72] NAD, SAUGATA, BE
[71] DOW SILICONES CORPORATION, US
[85] 2024-04-19
[86] 2022-10-25 (PCT/US2022/047626)
[87] (WO2023/076191)
[30] US (63/272,698) 2021-10-28

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[51] **Int.Cl. C10M 129/16 (2006.01) C10M 145/36 (2006.01)**
[25] EN
[54] **LUBRICATING OIL COMPOSITION FOR HYBRID VEHICLES**
[54] **COMPOSITION D'HUILE LUBRIFIANTE POUR VEHICULES HYBRIDES**
[72] MONIZ, MENNO ANTON STEFAN, US
[72] VAN LEEUWEN, JEROEN AUGUSTINUS, US
[72] HOGENDOORN, RICHARD, US
[71] CHEVRON ORONITE COMPANY LLC, US
[85] 2024-04-16
[86] 2022-10-18 (PCT/IB2022/059993)
[87] (WO2023/067493)
[30] US (63/257,763) 2021-10-20

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[13] A1
[51] **Int.Cl. C08G 18/08 (2006.01) C08G 18/44 (2006.01) C08G 18/73 (2006.01)**
[25] EN
[54] **WATER BASED COATING COMPOSITION FOR WIND BLADES**
[54] **COMPOSITION DE REVETEMENT A BASE D'EAU POUR PALES D'EOLIENNE**
[72] BERNAD, PABLO LUIS, DK
[72] JUNG, CHRISTINA, DK
[72] WOOD, CRAIG E., DK
[71] HEMPEL A/S, DK
[85] 2024-04-16
[86] 2022-11-04 (PCT/EP2022/080822)
[87] (WO2023/079078)
[30] EP (21206656.7) 2021-11-05

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[13] A1
[51] **Int.Cl. C12P 7/04 (2006.01) A23K 10/16 (2016.01) C12P 7/06 (2006.01) C12P 7/16 (2006.01) C12P 7/52 (2006.01) C12P 7/54 (2006.01)**
[25] EN
[54] **GREEN METHODS OF MAKING PRODUCT FROM HYDROGEN ENRICHED SYNTHESIS GAS**
[54] **PROCEDES ECOLOGIQUES DE FABRICATION D'UN PRODUIT A PARTIR D'UN GAZ DE SYNTHESE ENRICHI EN HYDROGENE**
[72] DU, JIANXIN, US
[71] SYNATA BIO, INC., US
[85] 2024-04-19
[86] 2022-10-28 (PCT/US2022/078933)
[87] (WO2023/077103)
[30] US (63/273,594) 2021-10-29
[30] US (18/050,910) 2022-10-28

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[13] A1
[51] **Int.Cl. A01C 7/20 (2006.01)**
[25] EN
[54] **SEED DELIVERY DEVICE COMPRISING A HELICAL CHANNEL AND RELATED ROW UNIT AND METHOD**
[54] **DISPOSITIF DE DISTRIBUTION DE GRAINES COMPRENANT UN CANAL HELICOIDAL, UNITE DE RANGEE ASSOCIEE ET PROCEDE**
[72] HODEL, JEREMY, US
[71] PRECISION PLANTING LLC, US
[85] 2024-04-16
[86] 2022-10-19 (PCT/IB2022/060047)
[87] (WO2023/089408)
[30] US (63/264,109) 2021-11-16

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[13] A1
[51] **Int.Cl. B60T 7/20 (2006.01) B60T 13/26 (2006.01) B60T 13/38 (2006.01) B60T 13/40 (2006.01)**
[25] EN
[54] **TRAILER BRAKING THROUGH TRAILER SUPPLY LINE**
[54] **FREINAGE DE REMORQUE PAR L'INTERMEDIAIRE D'UNE CONDUITE D'ALIMENTATION DE REMORQUE**
[72] SEMINARA, GARY, US
[72] MASSIE, JOHN KEITH, US
[72] KLEIN, LAWRENCE S., US
[71] OUTRIDER TECHNOLOGIES, INC., US
[85] 2024-04-19
[86] 2022-10-18 (PCT/US2022/047023)
[87] (WO2023/069435)
[30] US (63/257,924) 2021-10-20

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[51] **Int.Cl. C08G 18/32 (2006.01) C08G 18/72 (2006.01) C08G 18/75 (2006.01) C08G 18/76 (2006.01) C08K 3/26 (2006.01) C08L 75/02 (2006.01) C08L 91/06 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR PREPARING MICROENCAPSULATED PHASE CHANGE MATERIALS**
[54] **COMPOSITION ET PROCEDE DE PREPARATION DE MATERIAUX MICROENCAPSULES A CHANGEMENT DE PHASE**
[72] HU, MINBIAO, CN
[72] ZHANG, LIANG, CN
[72] ZHANG, JIGUANG, CN
[72] LI, WEI, CN
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-04-19
[86] 2021-10-28 (PCT/CN2021/127007)
[87] (WO2023/070431)

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[13] A1
[51] **Int.Cl. H04L 69/06 (2022.01)**
[25] EN
[54] **LINK ADAPTATION CONTROL FOR EXTREMELY HIGH THROUGHPUT SYSTEMS**
[54] **COMMANDE D'ADAPTATION DE LIAISON POUR SYSTEMES A DEBIT EXTREMEMENT ELEVE**
[72] XIN, YAN, CA
[72] SUH, JUNG HOON, CA
[72] ABOUL-MAGD, OSAMA, CA
[72] AU, KWOK SHUM, CA
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-04-16
[86] 2022-10-18 (PCT/CN2022/125845)
[87] (WO2023/066228)
[30] US (17/506,050) 2021-10-20

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[13] A1
[51] **Int.Cl. C08G 12/06 (2006.01) C09D 7/63 (2018.01) C08L 61/20 (2006.01) C09D 5/00 (2006.01) C09D 201/06 (2006.01) C09J 167/08 (2006.01)**
[25] EN
[54] **SOLVENT-BORNE ACID-CURING COATING COMPOSITION AND COATED ARTICLE**
[54] **COMPOSITION DE REVETEMENT DURCISSANT A L'ACIDE ET A BASE DE SOLVANT ET ARTICLE REVETU**
[72] YANG, WEI, CN
[72] ADIKKALATHIL, MIJIN, CN
[71] GUANGDONG HUARUN PAINTS CO., LTD., CN
[85] 2024-04-19
[86] 2022-10-25 (PCT/CN2022/127188)
[87] (WO2023/082987)
[30] CN (202111321301.0) 2021-11-09

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[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/4985 (2006.01) A61K 31/5025 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **SUBSTITUTED TRIAZOLOHETEROARYL COMPOUNDS AS USP1 INHIBITORS AND THE USE THEREOF**
[54] **COMPOSES TRIAZOLOHETEROARYLE SUBSTITUES UTILISES EN TANT QU'INHIBITEURS DE L'USP1 ET LEUR UTILISATION**
[72] CAI, SUI XIONG, CN
[72] TIAN, YE EDWARD, CN
[72] WANG, XIAOZHU, CN
[72] ZHANG, LETIAN, CN
[71] IMPACT THERAPEUTICS (SHANGHAI), INC., CN
[85] 2024-04-16
[86] 2022-10-19 (PCT/CN2022/126197)
[87] (WO2023/066299)
[30] CN (202111218092.7) 2021-10-19

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[13] A1
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[25] EN
[54] **METHOD OF DEWATERING**
[54] **PROCEDE DE DESHYDRATATION**
[72] BARIYA, RUBINDRA, US
[71] SYNATA BIO, INC., US
[85] 2024-04-19
[86] 2022-10-28 (PCT/US2022/078930)
[87] (WO2023/077101)
[30] US (63/273,564) 2021-10-29
[30] US (18/050,932) 2022-10-28

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[13] A1
[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **A CAPSULE FOR THE PREPARATION OF A BEVERAGE AND A METHOD FOR MANUFACTURING SAID CAPSULE**
[54] **CAPSULE POUR LA PREPARATION D'UNE BOISSON ET PROCEDE DE FABRICATION DE LADITE CAPSULE**
[72] ABEGGLEN, DANIEL, CH
[72] GALAFFU, NICOLA, FR
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-04-19
[86] 2022-11-14 (PCT/EP2022/081697)
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[25] EN
[54] **NOVEL ANTI-IL-36R ANTIBODIES**
[54] **NOUVEAUX ANTICORPS ANTI-IL-36R**
[72] FAN, PENGCHENG, CN
[72] LEI, RUN, CN
[72] GUO, CHONGTIAN, CN
[72] FAN, LIHUA, CN
[72] SUN, QIANG, CN
[72] XU, ZHIHAO, CN
[71] INMAGENE PTE. LTD., SG
[85] 2024-04-16
[86] 2022-10-27 (PCT/CN2022/127898)
[87] (WO2023/072182)
[30] CN (PCT/CN2021/127544) 2021-10-29
[30] CN (PCT/CN2022/118446) 2022-09-13

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[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR INHIBITING EXPRESSION OF HEPATITIS B VIRUS (HBV) PROTEIN**
[54] **COMPOSITIONS ET PROCEDES D'INHIBITION DE L'EXPRESSION DE LA PROTEINE DU VIRUS DE L'HEPATITE B (HBV)**
[72] SHU, DONGXU, CN
[72] SHAO, PENGCHENG PATRICK, US
[71] SHANGHAI ARGO BIOPHARMACEUTICAL CO., LTD., CN
[85] 2024-04-16
[86] 2022-11-29 (PCT/CN2022/134879)
[87] (WO2023/093896)
[30] CN (PCT/CN2021/133837) 2021-11-29

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[25] EN
[54] **MILKING INSTALLATION AND METHOD FOR MILKING**
[54] **INSTALLATION DE TRAITE ET PROCEDE DE TRAITE**
[72] LUNDH, ANDRES, SE
[72] WEELE, JOHAN TER, SE
[71] DELAVAL HOLDING AB, SE
[85] 2024-04-19
[86] 2022-12-16 (PCT/SE2022/051192)
[87] (WO2023/113687)
[30] SE (2151552-3) 2021-12-17

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[51] **Int.Cl. A61N 5/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND COMPUTER SOFTWARE FOR OPTIMIZED RADIATION THERAPY**
[54] **SYSTEMES ET LOGICIEL INFORMATIQUE POUR UNE RADIOTHERAPIE OPTIMISEE**
[72] DEMPSEY, JAMES F., US
[72] KAWRYKOW, IWAN, US
[71] VIEWRAY TECHNOLOGIES, INC., US
[85] 2024-04-16
[86] 2022-10-20 (PCT/IB2022/060069)
[87] (WO2023/067529)
[30] US (63/270,855) 2021-10-22

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[51] **Int.Cl. A61K 31/05 (2006.01)**
[25] EN
[54] **TREATMENT OF IRRITABILITY IN SUBJECTS WITH AUTISM SPECTRUM DISORDERS WITH MODERATE TO SEVERE ANXIETY AND/OR SOCIAL AVOIDANCE**
[54] **TRAITEMENT DE L'IRRITABILITE CHEZ DES SUJETS ATTEINTS DE TROUBLES DU SPECTRE AUTISTIQUE AVEC UNE ANXIETE MODEREE A GRAVE ET/OU UN EVITEMENT SOCIAL**
[72] PALUMBO, JOSEPH, US
[72] O'QUINN, STEPHEN V., US
[71] ZYNERBA PHARMACEUTICALS, INC., US
[85] 2024-04-19
[86] 2022-10-20 (PCT/US2022/078449)
[87] (WO2023/070045)
[30] US (63/271,015) 2021-10-22

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[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/20 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING AN ERK INHIBITOR**
[54] **COMPOSITIONS COMPRENANT UN INHIBITEUR D'ERK**
[72] GOODWIN, AARON, US
[72] MADDINENI, SINDHURI, US
[72] DAVAR, NIPUN, US
[71] OTSUKA PHARMACEUTICAL CO., LTD., JP
[85] 2024-04-19
[86] 2022-10-25 (PCT/US2022/047769)
[87] (WO2023/076305)
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[13] A1
[51] **Int.Cl. A61K 31/4375 (2006.01) A61P 9/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **NAPHTHYRIDINONE DERIVATIVES FOR THE TREATMENT OF A DISEASE OR DISORDER**
[54] **DERIVES DE NAPHTYRIDINONE POUR LE TRAITEMENT D'UNE MALADIE OU D'UN TROUBLE**
[72] CHEUNG, ATWOOD KIM, US
[72] LIU, DONGLEI, US
[72] PEUKERT, STEFAN, US
[72] GE, HENG, CN
[72] GAI, YU, CN
[72] CHANG, XINGJUAN, CN
[71] NOVARTIS AG, CH
[85] 2024-04-16
[86] 2022-11-21 (PCT/IB2022/061218)
[87] (WO2023/094965)
[30] US (63/282,492) 2021-11-23
[30] CN (PCT/CN2022/128601) 2022-10-31

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[51] **Int.Cl. H01M 4/38 (2006.01) H01M 4/13 (2010.01) H01M 4/139 (2010.01) H01M 4/1393 (2010.01) H01M 4/1395 (2010.01) H01M 4/587 (2010.01) C01B 32/21 (2017.01) C01B 33/113 (2006.01) H01M 4/36 (2006.01) H01M 4/48 (2010.01) H01M 4/58 (2010.01)**
[25] EN
[54] **PARTICLES AND METHOD FOR PRODUCING SAME, AND SECONDARY BATTERY AND METHOD FOR MANUFACTURING SAME**
[54] **PARTICULES AINSI QUE PROCEDE DE FABRICATION DE CELLES-CI, ET BATTERIE SECONDAIRE AINSI QUE PROCEDE DE FABRICATION DE CELLE-CI**
[72] ENATSU, YUUKI, JP
[72] MARU, NAOTO, JP
[72] FUSE, TOORU, JP
[71] MITSUBISHI CHEMICAL CORPORATION, JP
[85] 2024-04-16
[86] 2022-09-26 (PCT/JP2022/035676)
[87] (WO2023/074216)
[30] JP (2021-175655) 2021-10-27

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[13] A1
[51] **Int.Cl. E04H 15/02 (2006.01) E04H 15/20 (2006.01) E04H 15/24 (2006.01)**
[25] EN
[54] **HEAT REFLECTIVE SHIELD**
[54] **ECRAN THERMO-REFLECHISSANT**
[72] CHICK, JAMES, US
[71] CHICK, JAMES, US
[85] 2024-04-19
[86] 2022-09-28 (PCT/US2022/044964)
[87] (WO2023/069231)
[30] US (17/506,963) 2021-10-21

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[51] **Int.Cl. B01D 53/62 (2006.01) C01B 32/50 (2017.01) B01D 46/00 (2022.01) B01D 53/14 (2006.01) B01D 53/75 (2006.01) F23J 15/06 (2006.01)**
[25] EN
[54] **CO2 RECOVERY SYSTEM, AND CO2 RECOVERY METHOD**
[54] **SYSTEME DE RECUPERATION DE CO2, ET PROCEDE DE RECUPERATION DE CO2**
[72] SUGIURA, TAKUYA, JP
[72] TSUJIUCHI, TATSUYA, JP
[72] TANAKA, HIROSHI, JP
[72] HIRATA, TAKUYA, JP
[72] IMADA, JUNJI, JP
[72] SHINDO, YOSHITAKA, JP
[72] DAIMARU, TAKUICHIRO, JP
[72] NAGAYASU, HIROMITSU, JP
[71] MITSUBISHI HEAVY INDUSTRIES, LTD., JP
[85] 2024-04-16
[86] 2022-10-18 (PCT/JP2022/038811)
[87] (WO2023/068281)
[30] JP (2021-172644) 2021-10-21

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[13] A1
[51] **Int.Cl. F16D 66/02 (2006.01) F16D 65/22 (2006.01)**
[25] EN
[54] **SLACK ADJUSTER ASSEMBLY FOR HEAVY-DUTY VEHICLES**
[54] **ENSEMBLE TENDEUR POUR VEHICULES UTILITAIRES LOURDS**
[72] WHITE, JAY D., US
[72] DHARAIYA, DHAWAL P., US
[71] HENDRICKSON USA, L.L.C., US
[85] 2024-04-19
[86] 2022-10-26 (PCT/US2022/047800)
[87] (WO2023/081044)
[30] US (63/275,629) 2021-11-04

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[51] **Int.Cl. A23L 7/104 (2016.01) A23L 7/109 (2016.01) A21D 2/26 (2006.01) A21D 8/04 (2006.01)**
[25] EN
[54] **CEREAL FLOUR COMPOSITION AND DOUGH FOOD PRODUCT**
[54] **COMPOSITION DE FARINES DE CEREALES, ET ALIMENT A BASE DE PATE**
[72] YOSHIDA, MASASHI, JP
[72] SHIBAMOTO, NORIYUKI, JP
[72] NAKAMURA, KENJI, JP
[72] YOSHIMURA, NOBUHITO, JP
[72] TOYOTA, HAJIME, JP
[72] NOMURA, KEI, JP
[72] OZAWA, KEISUKE, JP
[72] ITO, KOICHI, JP
[72] AITA, CHIHIRO, JP
[71] NISSHIN SEIFUN GROUP INC., JP
[71] NISSHIN FLOUR MILLING INC., JP
[71] NISSHIN SEIFUN WELNA INC., JP
[71] NISSHIN SEIFUN PREMIX INC., JP
[71] ORIENTAL YEAST CO., LTD., JP
[85] 2024-04-16
[86] 2023-01-23 (PCT/JP2023/001966)
[87] (WO2023/149268)
[30] JP (2022-015209) 2022-02-02

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[13] A1
[51] **Int.Cl. A61K 31/135 (2006.01) A61P 11/12 (2006.01) C07B 59/00 (2006.01) C07C 215/44 (2006.01)**
[25] EN
[54] **MODIFIED FORMS OF AMBROXOL FOR THERAPEUTIC USE**
[54] **FORMES MODIFIEES D'AMBROXOL A USAGE THERAPEUTIQUE**
[72] ANDERSON, STEPHEN, US
[72] PASTERNAK, STEPHEN, CA
[72] JACQUES, VINCENT, US
[72] BROUSSARD, GERARD, US
[71] ZYWIE, LLC, US
[85] 2024-04-19
[86] 2022-10-27 (PCT/US2022/078779)
[87] (WO2023/076997)
[30] US (63/272,743) 2021-10-28

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[13] A1
[51] **Int.Cl. H04L 9/40 (2022.01)**
[25] EN
[54] **LIMITING DISCOVERY OF A PROTECTED RESOURCE IN A ZERO TRUST ACCESS MODEL**
[54] **LIMITATION DE LA DECOUVERTE D'UNE RESSOURCE PROTEGEE DANS UN MODELE D'ACCES A CONFIANCE NULLE**
[72] ANANI, SHARIF MUFID-SHARIF, US
[72] ABDULJABER, OMAR, US
[72] CASSELL, CHRISTOPHER CARL, US
[72] NEUBERGER, MARC, US
[72] GROSS, DAVID STEVEN, US
[72] MENDEZ, LUIS DANIEL, US
[71] CISCO TECHNOLOGY, INC., US
[85] 2024-04-19
[86] 2022-10-13 (PCT/US2022/078006)
[87] (WO2023/069854)
[30] US (17/506,956) 2021-10-21

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[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01) C12N 5/07 (2010.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 19/00 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01) G01N 33/577 (2006.01)**
[25] EN
[54] **ANTI-MESOTHELIN NANOBODIES AND USE THEREOF**
[54] **NANOCORPS ANTI-MESOTHELINE ET LEUR UTILISATION**
[72] ZHANG, ZHENQING, CN
[72] MIAO, XIAONIU, CN
[72] WU, FAN, CN
[72] LI, ZHIYUAN, CN
[71] BIOTHEUS INC., CN
[85] 2024-04-17
[86] 2022-10-13 (PCT/CN2022/125135)
[87] (WO2023/066133)
[30] CN (202111208871.9) 2021-10-18

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[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) C07D 401/12 (2006.01)**
[25] EN
[54] **PARP-1 DEGRADATION AGENT AND USE THEREOF**
[54] **AGENT DE DEGRADATION DE PARP-1 ET SON UTILISATION**
[72] LI, YAO, CN
[72] CHEN, LEI, CN
[72] HE, TIANCHENG, CN
[72] GENG, PENGXIN, CN
[72] YAO, HAO, CN
[72] WANG, HAODONG, CN
[72] FANG, LINYONG, CN
[72] HU, GANG, CN
[72] TANG, PINGMING, CN
[72] YU, YAN, CN
[72] ZHANG, CHEN, CN
[72] YAN, PANGKE, CN
[71] XIZANG HAISCO PHARMACEUTICAL CO., LTD., CN
[85] 2024-04-19
[86] 2022-10-21 (PCT/CN2022/126611)
[87] (WO2023/066363)
[30] CN (202111232944.8) 2021-10-22
[30] CN (202111374462.6) 2021-11-19
[30] CN (202210103868.9) 2022-01-28
[30] CN (202210375573.7) 2022-04-11
[30] CN (202210546650.0) 2022-05-18
[30] CN (202210636634.0) 2022-06-07
[30] CN (202211252554.1) 2022-10-13

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[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **TRANSCATHETER VALVE IMPLANT ASSEMBLY WITH VENTRICULAR ASSIST DEVICE RELEASABLY CONNECTABLE TO DOCKING STATION**
[54] **ENSEMBLE IMPLANT VALVULAIRE TRANSCATHETER DOTE D'UN DISPOSITIF D'ASSISTANCE VENTRICULAIRE POUVANT ETRE RELIE DE MANIERE AMOVIBLE A UNE STATION D'ACCUEIL**
[72] RAJAGOPAL, KESHAVA, US
[71] RAJAGOPAL, KESHAVA, US
[85] 2024-04-19
[86] 2022-10-19 (PCT/US2022/047134)
[87] (WO2023/069518)
[30] US (63/270,322) 2021-10-21

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[13] A1
[51] **Int.Cl. H04N 5/262 (2006.01) H04N 23/68 (2023.01)**
[25] EN
[54] **HANDLING BLUR IN MULTI-VIEW IMAGING**
[54] **TRAITEMENT DU FLOU DANS UNE IMAGERIE MULTIVUE**
[72] VAREKAMP, CHRISTIAAN, NL
[71] KONINKLIJKE PHILIPS N.V., NL
[85] 2024-04-17
[86] 2022-10-12 (PCT/EP2022/078326)
[87] (WO2023/066742)
[30] EP (21203696.6) 2021-10-20

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[13] A1
[51] **Int.Cl. A47L 23/04 (2006.01)**
[25] EN
[54] **A DEVICE FOR CLEANING FOOTWEAR**
[54] **DISPOSITIF DE NETTOYAGE DE CHAUSSURES**
[72] MUSSO, LUCA, IT
[71] MUSSO, LUCA, IT
[85] 2024-04-19
[86] 2022-10-27 (PCT/IB2022/060347)
[87] (WO2023/073612)
[30] IT (102021000027656) 2021-10-28

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[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METHODS OF TREATING PATIENTS SUFFERING FROM BRAIN INJURY AND METHODS OF INCREASING THE VALUE OF THE EXTENDED GLASGOW OUTCOME SCALE OF PATIENTS SUFFERING FROM BRAIN INJURY**
[54] **PROCEDES DE TRAITEMENT DE PATIENTS ATTEINTS D'UNE LESION CEREBRALE ET PROCEDES D'AUGMENTATION DE LA VALEUR DE L'ECHELLE DE RESULTATS DE GLASGOW ETENDUE DE PATIENTS ATTEINTS D'UNE LESION CEREBRAL**
[72] STOVER, JOHN, DE
[72] TEGTMEIER, FRANK, DE
[71] VERINOS OPERATIONS GMBH, DE
[85] 2024-04-19
[86] 2021-12-03 (PCT/EP2021/084183)
[87] (WO2023/099013)

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[13] A1
[51] **Int.Cl. C08F 4/06 (2006.01) C08F 4/02 (2006.01) C08F 4/42 (2006.01) C08F 10/02 (2006.01) C08F 10/06 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING A SINGLE SITE CATALYST**
[54] **PROCEDE DE PRODUCTION D'UN CATALYSEUR MONOSITE**
[72] BLAKLEY, C. GAIL, US
[72] THORN, MATTHEW G., US
[71] W. R. GRACE & CO.-CONN., US
[85] 2024-04-19
[86] 2022-10-14 (PCT/US2022/046774)
[87] (WO2023/069328)
[30] US (63/257,830) 2021-10-20

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[13] A1
[51] **Int.Cl. H04B 7/06 (2006.01) H04W 72/04 (2023.01)**
[25] EN
[54] **BEAM DETERMINATION METHOD, NODE AND STORAGE MEDIUM**
[54] **PROCEDE DE DETERMINATION DE FAISCEAU, NOEUD ET SUPPORT DE STOCKAGE**
[72] XIAO, HUAHUA, CN
[72] ZHANG, JIAYI, CN
[72] LU, ZHAOHUA, CN
[72] WU, HAO, CN
[72] ZHANG, SHUJUAN, CN
[72] JIANG, CHUANGXIN, CN
[71] ZTE CORPORATION, CN
[85] 2024-04-19
[86] 2022-11-11 (PCT/CN2022/131350)
[87] (WO2023/088178)
[30] CN (202111399935.8) 2021-11-19

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[13] A1
[51] **Int.Cl. C08G 18/09 (2006.01) C08G 18/22 (2006.01) C08G 18/40 (2006.01) C08G 18/42 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C08J 9/08 (2006.01) C08J 9/14 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING IMPROVED RIGID POLYISOCYANURATE FOAMS BASED ON AROMATIC POLYESTER POLYOLS AND ETHYLENE OXIDE-BASED POLYETHER POLYOLS**
[54] **PROCEDE DE PRODUCTION DE MOUSSES DE POLYISOCYANURATE RIGIDES AMELIOREES A BASE DE POLYESTER POLYOLS AROMATIQUES ET DE POLYETHER POLYOLS A BASE D'OXYDE D'ETHYLENE**
[72] KALUSCHKE, TOBIAS, DE
[72] KOCH, SEBASTIAN, DE
[72] JACOBMEIER, OLAF, DE
[71] BASF SE, DE
[85] 2024-04-17
[86] 2022-10-17 (PCT/EP2022/078775)
[87] (WO2023/066838)
[30] EP (21203229.6) 2021-10-18

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[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 41/00 (2020.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) A61K 47/24 (2006.01)**
[25] EN
[54] **TOPICAL COMPOSITIONS AND METHODS FOR PHOTODYNAMIC THERAPY**
[54] **COMPOSITIONS TOPIQUES ET PROCEDES DE THERAPIE PHOTODYNAMIQUE**
[72] SANGHVI, PRADEEP, CA
[72] LUNDAHL, SCOTT, US
[72] JIN, XIAOPIN, CA
[72] HADJIKEZIAN, BRENDEN B., CA
[72] ZADYKOWICZ, JERZY, CA
[72] ABDALGHAFOR, HAYDAR, CA
[72] HAQUE, TASNUVA, CA
[71] SUN PHARMACEUTICAL INDUSTRIES, INC., US
[85] 2024-04-19
[86] 2022-10-19 (PCT/IB2022/060058)
[87] (WO2023/067519)
[30] US (63/257,175) 2021-10-19

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[13] A1
[51] **Int.Cl. E21B 27/02 (2006.01) E21B 33/138 (2006.01) E21B 41/00 (2006.01) E21B 43/112 (2006.01)**
[25] EN
[54] **DOWNHOLE INJECTION TOOL AND METHOD FOR INJECTING A FLUID IN AN ANNULUS SURROUNDING A DOWNHOLE TUBULAR**
[54] **OUTIL D'INJECTION DE FOND DE TROU ET PROCEDE D'INJECTION D'UN FLUIDE DANS UN ESPACE ANNULAIRE ENTOURANT UN ELEMENT TUBULAIRE DE FOND DE TROU**
[72] CORNELISSEN, ERIK KERST, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2024-04-17
[86] 2022-11-10 (PCT/EP2022/081438)
[87] (WO2023/083945)
[30] EP (21207925.5) 2021-11-12

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[13] A1
[51] **Int.Cl. G06F 40/42 (2020.01) G06N 20/00 (2019.01)**
[25] EN
[54] **TRANSLATION MODEL WITH LEARNED POSITION AND CORRECTIVE LOSS**
[54] **MODELE DE TRADUCTION PRESENTANT UNE POSITION APPRISE ET UNE PERTE CORRECTIVE**
[72] VOLKOVS, MAKSIMS, CA
[72] PEREZ VALLEJO, JUAN FELIPE, CA
[72] HUANG, XIAO SHI, CA
[71] THE TORONTO-DOMINION BANK, CA
[85] 2024-04-19
[86] 2022-10-19 (PCT/CA2022/051539)
[87] (WO2023/065027)
[30] US (63/257,916) 2021-10-20

[21] **3,235,713**
[13] A1
[51] **Int.Cl. H01M 4/62 (2006.01) H01M 4/1395 (2010.01) H01M 4/36 (2006.01) H01M 4/38 (2006.01) H01M 10/052 (2010.01) H01M 4/02 (2006.01)**
[25] EN
[54] **ELECTROACTIVE MATERIALS FOR METAL-ION BATTERIES**
[54] **MATERIAUX ELECTRO-ACTIFS POUR BATTERIES A IONS METALLIQUES**
[72] WHITTAM, JOSHUA, GB
[72] FRIEND, CHRISTOPHER, GB
[72] MASON, CHARLES, GB
[72] CHIACCHIA, MAURO, GB
[72] MEOTO, SILO, GB
[71] NEXEON LIMITED, GB
[85] 2024-04-17
[86] 2022-10-21 (PCT/GB2022/052693)
[87] (WO2023/067359)
[30] GB (2115162.6) 2021-10-21

[21] **3,235,715**
[13] A1
[51] **Int.Cl. C10M 107/50 (2006.01)**
[25] FR
[54] **USE OF A POLYALKOXYSILOXANE-BASED OIL AS A LUBRICATING AGENT**
[54] **UTILISATION D'UNE HUILE DE BASE POLYALCOXYSILOXANES EN TANT QU'AGENT LUBRIFIANT**
[72] CORBUN, CHRISTOPHE, FR
[72] MANSOUX, JEAN-LOUIS, FR
[72] LOUISE, CHRISTELLE, FR
[72] HERVE, GREGOIRE, FR
[71] NYCO, FR
[85] 2024-04-19
[86] 2022-12-20 (PCT/EP2022/087059)
[87] (WO2023/118190)
[30] FR (FR2114153) 2021-12-21

[21] **3,235,717**
[13] A1
[51] **Int.Cl. C01B 33/00 (2006.01) H01M 4/1393 (2010.01) H01M 4/1395 (2010.01) H01M 4/36 (2006.01) H01M 4/38 (2006.01) H01M 4/62 (2006.01) H01M 10/052 (2010.01) H01M 4/02 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING ELECTROACTIVE MATERIALS FOR METAL-ION BATTERIES**
[54] **PROCEDE DE PREPARATION DE MATERIAUX ELECTROACTIFS POUR BATTERIES A IONS METALLIQUES**
[72] WHITTAM, JOSHUA, GB
[72] FRIEND, CHRISTOPHER, GB
[72] MASON, CHARLES, GB
[72] CHIACCHIA, MAURO, GB
[72] MEOTO, SILO, GB
[71] NEXEON LIMITED, GB
[85] 2024-04-17
[86] 2022-10-21 (PCT/GB2022/052696)
[87] (WO2023/067361)
[30] GB (2115161.8) 2021-10-21

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[13] A1
[51] **Int.Cl. C07D 401/04 (2006.01) A61P 3/10 (2006.01) A61P 9/10 (2006.01) A61P 25/28 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **PROLYL HYDROXYLASE DOMAIN-CONTAINING PROTEIN (PHD) INHIBITORS AND USES THEREOF**
[54] **INHIBITEURS DE LA PROTEINE CONTENANT UN DOMAINE PROLYL HYDROXYLASE (PHD) ET LEURS UTILISATIONS**
[72] DING, XIAO, CN
[72] QIN, LIENA, CN
[72] REN, FENG, CN
[72] XU, JIANYU, CN
[71] INSILICO MEDICINE IP LIMITED, CN
[85] 2024-04-19
[86] 2022-10-28 (PCT/CN2022/128293)
[87] (WO2023/072257)
[30] CN (PCT/CN2021/127023) 2021-10-28
[30] CN (PCT/CN2022/112270) 2022-08-12

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[13] A1
[51] **Int.Cl. E02D 5/52 (2006.01) E02D 5/00 (2006.01) E02D 5/22 (2006.01) E02D 7/00 (2006.01) E02D 7/02 (2006.01) E02D 11/00 (2006.01) E02D 13/00 (2006.01) E02D 27/12 (2006.01) E02D 35/00 (2006.01) E02D 37/00 (2006.01) E02D 7/20 (2006.01) E02D 27/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ROBOTICS-ASSISTED FOUNDATION INSTALLATION**
[54] **SYSTEME ET PROCEDE POUR UNE INSTALLATION DE FONDATION ASSISTEE PAR ROBOT**
[72] JAYCOX, STEPHEN W., US
[72] TOPPING, QUENTIN, US
[72] GOLDIN, MICHAEL, US
[72] LEE, JOHNNY, US
[71] SITU-PLACES, INC., US
[85] 2024-04-19
[86] 2022-10-26 (PCT/US2022/078736)
[87] (WO2023/076963)
[30] US (63/272,055) 2021-10-26

[21] **3,235,720**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01)**
[25] EN
[54] **DISTANCE-BASED PAIR LOSS FOR COLLABORATIVE FILTERING**
[54] **PERTE DE PAIRE REPOSANT SUR LA DISTANCE POUR FILTRAGE COLLABORATIF**
[72] VOLKOVS, MAKSIMS, CA
[72] CHENG, ZHAOYUE, CA
[72] PEREZ VALLEJO, JUAN FELIPE, CA
[72] SUN, JIANING, CA
[72] GAO, ZHAOLIN, CA
[71] THE TORONTO-DOMINION BANK, CA
[85] 2024-04-19
[86] 2022-10-20 (PCT/CA2022/051545)
[87] (WO2023/065032)
[30] US (63/270,407) 2021-10-21

[21] **3,235,721**
[13] A1
[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/077 (2010.01) C12N 5/0775 (2010.01)**
[25] EN
[54] **PRIMED UTERINE-DERIVED REGENERATIVE CELL COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS DE CELLULES REGENERATIVES D'ORIGINE UTERINE AVEC AMORCE ET LEURS UTILISATIONS**
[72] BLACK, LINDA, US
[72] ZACHARIAS, SHELLY, US
[72] SAND, THEODORE T., US
[72] BARILLAS, SAMUEL, US
[72] BAUTISTA, RACHEL, US
[71] GALLANT PET, INC., US
[85] 2024-04-19
[86] 2022-10-27 (PCT/US2022/048067)
[87] (WO2023/081057)
[30] US (63/263,548) 2021-11-04
[30] US (63/263,550) 2021-11-04

[21] **3,235,725**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/7016 (2006.01) A61K 38/40 (2006.01) A61L 15/20 (2006.01) A61L 15/32 (2006.01) A61L 15/44 (2006.01) A61P 17/02 (2006.01)**
[25] EN
[54] **BIOSURFACTANT FORMULATIONS FOR USE IN SKINCARE AND WOUND TREATMENT**
[54] **FORMULATIONS DE TENSIOACTIFS BIOLOGIQUES A UTILISER DANS LE TRAITEMENT DE LA PEAU ET DE PLAIES**
[72] FARMER, SEAN, US
[71] LOCUS SOLUTIONS IPCO, LLC., US
[85] 2024-04-19
[86] 2022-10-31 (PCT/US2022/048394)
[87] (WO2023/076663)
[30] US (63/274,063) 2021-11-01

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[13] A1
[51] **Int.Cl. C01B 33/18 (2006.01) C01B 33/193 (2006.01) C08K 3/36 (2006.01)**
[25] EN
[54] **PRECIPITATED SILICA, PROCESS FOR PRODUCTION THEREOF AND USE THEREOF**
[54] **SILICE PRECIPITEE, SON PROCEDE DE PRODUCTION ET SON UTILISATION**
[72] OCHENDUSZKO, AGNIESZKA, CH
[72] WEHMEIER, ANDRE, DE
[72] LAMANN, RAINER, DE
[72] PANZ, CHRISTIAN, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2024-04-19
[86] 2022-10-17 (PCT/EP2022/078858)
[87] (WO2023/072666)
[30] EP (21204753.4) 2021-10-26

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[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06V 10/44 (2022.01) G06V 10/46 (2022.01) G06V 10/77 (2022.01) G06T 7/00 (2017.01)**
[25] EN
[54] **CO-LEARNING OBJECT AND RELATIONSHIP DETECTION WITH DENSITY AWARE LOSS**
[54] **COAPPRENTISSAGE D'OBJETS ET DETECTION DE RELATIONS AVEC PERTE SENSIBLE A LA DENSITE**
[72] VOLKOVS, MAKSIMS, CA
[72] CHANG, CHENG, CA
[72] YU, GUANGWEI, CA
[72] RAI, HIMANSHU, CA
[72] LU, YICHAO, CA
[71] TD BANK GROUP, INTELLECTUAL PROPERTY OFFICE, CA
[85] 2024-04-19
[86] 2022-10-20 (PCT/CA2022/051546)
[87] (WO2023/065033)
[30] US (63/270,416) 2021-10-21

[21] **3,235,729**
[13] A1
[51] **Int.Cl. H04W 76/28 (2018.01) H04W 52/02 (2009.01)**
[25] EN
[54] **MULTIPLE DRX CONFIGURATIONS WITH TRAFFIC FLOW INFORMATION**
[54] **CONFIGURATIONS DE DRX MULTIPLES AVEC INFORMATIONS DE FLUX DE TRAFIC**
[72] PRADAS, JOSE LUIS, SE
[72] KANG, DU HO, SE
[72] VOICU, ANDRA MIHAELA, DE
[71] TELEFONAKTIEBOLAGET LM ERICSSON, SE
[85] 2024-04-19
[86] 2022-10-21 (PCT/SE2022/050962)
[87] (WO2023/069005)
[30] US (63/270,622) 2021-10-22

[21] **3,235,730**
[13] A1
[51] **Int.Cl. B25J 9/00 (2006.01) B65G 61/00 (2006.01) B65G 67/08 (2006.01) B65G 67/24 (2006.01)**
[25] EN
[54] **AUTOMATED PRODUCT UNLOADING, HANDLING, AND DISTRIBUTION**
[54] **DECHARGEMENT, MANUTENTION, ET DISTRIBUTION AUTOMATISES DE PRODUIT**
[72] MCCALIB JR, DAVID BRUCE, US
[71] LAB0, INC., US
[85] 2024-04-19
[86] 2022-11-10 (PCT/US2022/079613)
[87] (WO2023/086868)
[30] US (63/278,022) 2021-11-10

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[13] A1
[51] **Int.Cl. F03D 1/02 (2006.01) F03D 9/34 (2016.01) F03D 3/02 (2006.01)**
[25] EN
[54] **TURBINE WALL APPARATUS/SYSTEM AND METHOD FOR GENERATING ELECTRICAL POWER**
[54] **APPAREIL/SYSTEME ET PROCEDE DE MUR DE TURBINES POUR GENERATION D'ELECTRICITE**
[72] DOUCET, JOE, US
[71] AIRIVA RENEWABLES, INC., US
[85] 2024-04-19
[86] 2021-12-20 (PCT/US2021/064432)
[87] (WO2023/086110)
[30] US (63/277,827) 2021-11-10

[21] **3,235,733**
[13] A1
[51] **Int.Cl. A61K 9/10 (2006.01) A61K 9/14 (2006.01) A61K 31/18 (2006.01) A61K 31/4985 (2006.01) A61K 31/58 (2006.01) A61K 45/06 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61K 47/40 (2006.01) A61P 13/08 (2006.01) A61P 15/10 (2006.01)**
[25] EN
[54] **TADALAFIL ORAL SUSPENSION**
[54] **SUSPENSION ORALE DE TADALAFIL**
[72] SANZ MENENDEZ, NURIA, ES
[72] MUNOZ RUIZ, ANGEL, ES
[72] SANTE SERNA, LUIS NARCISO, ES
[72] PORTOLES PEREZ, ANTONIO, ES
[72] VARGAS CASTRILLON, EMILIO, ES
[72] RUBIO MENCO, GUILLERMO, ES
[72] HORCAJADA CORDOBA, RAQUEL, ES
[72] DUART GONZALEZ, ESTER, ES
[72] IGLESIAS SANCHEZ, JOSE CARLOS, ES
[72] GOMEZ CALVO, ANTONIA, ES
[71] FARMALIDER, S.A., ES
[85] 2024-04-19
[86] 2022-10-24 (PCT/EP2022/079659)
[87] (WO2023/072872)
[30] EP (21382964.1) 2021-10-25

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[13] A1
[51] **Int.Cl. G21C 3/07 (2006.01) G21C 3/04 (2006.01) G21C 3/64 (2006.01)**
[25] EN
[54] **ANNULAR NUCLEAR FUEL ROD**
[54] **BARRE DE COMBUSTIBLE NUCLEAIRE ANNULAIRE**
[72] OLSON, LUKE C., US
[72] METZGER, KATHRYN E., US
[72] LAHODA, EDWARD J., US
[72] ROBERTS, ELWYN, US
[72] ICKES, MICHAEL R., US
[72] FERRONI, PAOLO, US
[72] ADORNO-LOLPES, DENISE, SE
[72] CZERNIAK, LUKE D., US
[72] FRANCESCHINI, FAUSTO, IT
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/078480)
[87] (WO2023/070067)
[30] US (17/451,726) 2021-10-21

[21] **3,235,735**
[13] A1
[51] **Int.Cl. A61N 5/10 (2006.01)**
[25] EN
[54] **MCO PLANNING OF TREATMENTS WITH AVAILABLE TECHNOLOGIES IN RADIOTHERAPY (RT)**
[54] **PLANIFICATION MCO DE TRAITEMENTS AVEC DES TECHNOLOGIES DISPONIBLES EN RADIOTHERAPIE (RT)**
[72] BORTZ, MICHAEL, DE
[72] KUEFER, KARL-HEINZ, DE
[72] SUESS, PHILIPP, DE
[72] TEICHERT, KATRIN, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2024-04-19
[86] 2022-09-26 (PCT/IB2022/059141)
[87] (WO2023/047379)
[30] DE (10 2021 124 814.0) 2021-09-25

[21] **3,235,736**
[13] A1
[51] **Int.Cl. G01V 1/00 (2024.01)**
[25] EN
[54] **TSUNAMI LEARNING DEVICE, TSUNAMI LEARNING METHOD, TSUNAMI PREDICTION DEVICE, AND TSUNAMI PREDICTION METHOD**
[54] **DISPOSITIF D'APPRENTISSAGE DE TSUNAMI, PROCEDE D'APPRENTISSAGE DE TSUNAMI, DISPOSITIF DE PREDICTION DE TSUNAMI ET PROCEDE DE PREDICTION DE TSUNAMI**
[72] ENDO, TAKAO, JP
[72] YOSHIMURA, GENTA, JP
[71] MITSUBISHI ELECTRIC CORPORATION, JP
[85] 2024-04-19
[86] 2021-12-03 (PCT/JP2021/044431)
[87] (WO2023/100342)

[21] **3,235,737**
[13] A1
[51] **Int.Cl. G16H 40/67 (2018.01)**
[25] EN
[54] **DUAL-MODE MOBILE WI-FI OTOSCOPE SYSTEM AND METHODS**
[54] **SYSTEME ET PROCEDES D'OTOSCOPE WI-FI MOBILE BIMODE**
[72] ZHANG, JANE YUQIAN, US
[72] WANG, ZHAN, US
[71] REMMIE, INC., US
[85] 2024-04-19
[86] 2022-10-27 (PCT/US2022/047992)
[87] (WO2023/076454)
[30] US (63/272,637) 2021-10-27

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[13] A1
[51] **Int.Cl. G16B 20/20 (2019.01) C12Q 1/6886 (2018.01) G16B 20/10 (2019.01) G16B 25/10 (2019.01) G16B 40/20 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CANCER WHOLE GENOME AND TRANSCRIPTOME SEQUENCING (CWGTS)**
[54] **SYSTEMES ET PROCEDES DE SEQUENCAGE DU GENOME ET DU TRANSCRIPTOME ENTIER DU CANCER (CWGTS)**
[72] LEVINE, MAX, US
[72] GUNDEM, GUNES, US
[72] ZHOU, YANGYU, US
[72] ARANGO OSSA, JUAN ESTEBAN, US
[72] MEDINA-MARTINEZ, JUAN SANTIAGO, US
[72] GUTIERREZ-ABRIL, JESUS, US
[72] PAPAEMMANUIL, ELLI, US
[72] KUNG, ANDREW, US
[72] SHUKLA, NEERAV, US
[71] MEMORIAL SLOAN-KETTERING CANCER CENTER, US
[71] MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES, US
[71] SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, US
[85] 2024-04-19
[86] 2022-07-05 (PCT/US2022/036104)
[87] (WO2023/069157)
[30] US (63/257,910) 2021-10-20

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[13] A1
[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 31/496 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **ALLOSTERIC INHIBITOR COMPOUNDS FOR OVERCOMING CANCER RESISTANCE**
[54] **COMPOSES INHIBITEURS ALLOSTERIQUES POUR SURMONTER LA RESISTANCE D'UN CANCER**
[72] NAJAJREH, YOUSEF, JO
[71] NAJAJREH, YOUSEF, JO
[85] 2024-04-19
[86] 2022-10-20 (PCT/IB2022/060106)
[87] (WO2023/067550)
[30] US (63/257,848) 2021-10-20

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[13] A1
[51] **Int.Cl. A61B 5/055 (2006.01) A61B 6/04 (2006.01) G01R 33/38 (2006.01)**
[25] EN
[54] **KYPHOTIC LIFT FOR MRI IMAGING BED**
[54] **DISPOSITIF DE LEVAGE DE PATIENT CYPHOTIQUE POUR LIT D'IMAGERIE IRM**
[72] JOHNSON, BRANDON BRUCE, US
[71] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US
[85] 2024-04-19
[86] 2022-02-25 (PCT/US2022/017847)
[87] (WO2022/182955)
[30] US (63/153,866) 2021-02-25
[30] US (63/179,898) 2021-04-26

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[13] A1
[51] **Int.Cl. C22C 18/04 (2006.01) C23C 2/06 (2006.01) C23C 2/28 (2006.01)**
[25] EN
[54] **PLATED STEEL SHEET**
[54] **TOLE D'ACIER PLAQUEE**
[72] TOKUDA, KOHEI, JP
[72] SAITO, MAMORU, JP
[72] FUKUDA, YUTO, JP
[72] GOTO, YASUTO, JP
[72] MAJIMA, YASUHIRO, JP
[72] YAMATO, NAOYUKI, JP
[72] NAKAMURA, FUMIAKI, JP
[72] SHINDO, HIDETOSHI, JP
[72] KAWANISHI, KOJI, JP
[72] MATSUMURA, KENICHIRO, JP
[72] TAKEBAYASHI, HIROSHI, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2024-04-19
[86] 2022-08-16 (PCT/JP2022/030932)
[87] (WO2023/074088)
[30] JP (2021-174676) 2021-10-26

[21] **3,235,742**
[13] A1
[51] **Int.Cl. G06N 10/40 (2022.01)**
[25] FR
[54] **SUPERCONDUCTING QUBIT DEVICE WITH ELECTROMAGNETIC INSULATION**
[54] **DISPOSITIF DE QUBIT SUPRACONDUCTEUR A ISOLATION ELECTROMAGNETIQUE**
[72] JEZOUIN, SEBASTIEN, FR
[71] ALICE & BOB, FR
[85] 2024-04-19
[86] 2022-10-21 (PCT/FR2022/052007)
[87] (WO2023/067292)
[30] FR (2111275) 2021-10-22

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[13] A1
[51] **Int.Cl. H04L 9/00 (2022.01) H04W 12/069 (2021.01) H04W 12/40 (2021.01) H04L 9/40 (2022.01) H04L 9/32 (2006.01)**
[25] EN
[54] **AUTHENTICATING A DEVICE**
[54] **AUTHENTIFICATION D'UN DISPOSITIF**
[72] POSCHKE, NILS, GB
[71] DABCO LIMITED, GB
[85] 2024-04-19
[86] 2022-10-17 (PCT/GB2022/052629)
[87] (WO2023/079262)
[30] GB (2115815.9) 2021-11-03

[21] **3,235,744**
[13] A1
[51] **Int.Cl. F16B 19/05 (2006.01)**
[25] EN
[54] **MULTI-PIECE FASTENERS AND METHODS OF FASTENING**
[54] **ELEMENTS DE FIXATION MULTI-PIECES ET PROCEDES DE FIXATION ASSOCIES**
[72] WOLLARD, JR. JAMES L., US
[71] HOWMET AEROSPACE INC., US
[85] 2024-04-19
[86] 2022-11-28 (PCT/US2022/080496)
[87] (WO2023/102348)
[30] US (63/264,667) 2021-11-30

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[13] A1
[51] **Int.Cl. B65B 1/04 (2006.01) B65B 29/02 (2006.01) B65B 51/10 (2006.01) B65B 51/32 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF A CONTAINER FOR THE PREPRATION OF A BEVERAGE IN A BEVERAGE PREPARATION DEVICE AND A CONTAINER OBTAINED BY SAID PROCESS**
[54] **PROCEDE DE PRODUCTION D'UN RECIPIENT POUR LA PREPARATION D'UNE BOISSON DANS UN DISPOSITIF DE PREPARATION DE BOISSON ET RECIPIENT OBTENU PAR LEDIT PROCEDE**
[72] MISSOUM, KARIM, FR
[72] GALAFFU, NICOLA, FR
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-04-19
[86] 2022-11-16 (PCT/EP2022/082071)
[87] (WO2023/088934)
[30] EP (21209165.6) 2021-11-19

[21] **3,235,746**
[13] A1
[51] **Int.Cl. A01N 33/02 (2006.01)**
[25] EN
[54] **UREA CYCLE AUGMENTING COMPOSITION AND METHODS OF USE**
[54] **COMPOSITION D'AUGMENTATION DU CYCLE D'UREE ET PROCEDES D'UTILISATION**
[72] STEINBRONN, JOSHUA, US
[72] MAAG, BRADLEY, US
[71] STEINBRONN, JOSHUA, US
[71] MAAG, BRADLEY, US
[85] 2024-04-19
[86] 2022-10-13 (PCT/US2022/046534)
[87] (WO2023/069294)
[30] US (63/270,369) 2021-10-21
[30] US (17/956,221) 2022-09-29

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[13] A1
[51] **Int.Cl. H01M 50/179 (2021.01) H01M 50/538 (2021.01) H01M 50/559 (2021.01) H01M 50/586 (2021.01) H01M 50/593 (2021.01)**
[25] EN
[54] **CYLINDRICAL BATTERY, AND BATTERY PACK AND VEHICLE INCLUDING SAME**
[54] **BATTERIE CYLINDRIQUE ET BLOC-BATTERIE ET VEHICULE LA COMPRENANT**
[72] LIM, JAE-WON, KR
[72] JO, MIN-KI, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-19
[86] 2022-10-21 (PCT/KR2022/016194)
[87] (WO2023/068884)
[30] KR (10-2021-0142184) 2021-10-22

[21] **3,235,750**
[13] A1
[51] **Int.Cl. H01M 50/531 (2021.01) H01M 50/538 (2021.01)**
[25] EN
[54] **CYLINDRICAL SECONDARY BATTERY COMPRISING IMPROVED CURRENT COLLECTOR PLATE,BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **BATTERIE SECONDAIRE CYLINDRIQUE COMPRENANT UNE PLAQUE COLLECTRICE DE COURANT AMELIOREE, ET BLOC-BATTERIE ET VEHICULE LA COMPRENANT**
[72] LEE, BYOUNG-GU, KR
[72] RYU, DUK-HYUN, KR
[72] LEE, KWAN-HEE, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-19
[86] 2022-10-28 (PCT/KR2022/016740)
[87] (WO2023/075520)
[30] KR (10-2021-0147346) 2021-10-29
[30] KR (10-2021-0187847) 2021-12-24

[21] **3,235,753**
[13] A1
[51] **Int.Cl. H01M 50/538 (2021.01) H01M 50/559 (2021.01)**
[25] EN
[54] **CYLINDRICAL BATTERY, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **BATTERIE CYLINDRIQUE ET BLOC-BATTERIE ET VEHICULE LA COMPRENANT**
[72] LIM, JAE-WON, KR
[72] CHOI, SU-JI, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-19
[86] 2022-10-21 (PCT/KR2022/016202)
[87] (WO2023/068892)
[30] KR (10-2021-0142188) 2021-10-22

[21] **3,235,754**
[13] A1
[51] **Int.Cl. A61K 31/343 (2006.01) C07C 213/02 (2006.01) C07C 217/22 (2006.01)**
[25] EN
[54] **A PROCESS FOR THE PREPARATION OF 2,7-DIHYDROXY-9-FLUORENONE USEFUL FOR THE SYNTHESIS OF TILORONE AND ITS SALTS**
[54] **PROCEDE DE PREPARATION DE 2,7-DIHYDROXY-9-FLUORENONE UTILE POUR LA SYNTHESE DE TILORONE ET DE SES SELS**
[72] DEB, INDUBHUSAN, IN
[72] BHATTACHARJEE, PINAKI, IN
[72] JAISANKAR, PARASURAMAN, IN
[71] COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, IN
[85] 2024-04-19
[86] 2022-10-19 (PCT/IN2022/050931)
[87] (WO2023/067624)
[30] IN (202111047809) 2021-10-20

[21] **3,235,759**
[13] A1
[51] **Int.Cl. A46B 17/06 (2006.01) A47L 13/02 (2006.01) A47L 13/08 (2006.01)**
[25] EN
[54] **PAINT ROLLER COVER CLEANING TOOL, PAINT STIRRER AND PAINT TIN OPENER -DESIGN AND METHOD OF USE**
[54] **OUTIL DE NETTOYAGE DE MANCHON POUR ROULEAU DE PEINTURE, MELANGEUR DE PEINTURE ET OUVRE-BOITE DE PEINTURE - CONCEPTION ET PROCEDE D'UTILISATION**
[72] STANLEY, BRETT, NZ
[71] STANLEY, BRETT, NZ
[85] 2024-04-19
[86] 2022-10-19 (PCT/NZ2022/000001)
[87] (WO2023/068946)
[30] AU (2021254535) 2021-10-19

[21] **3,235,760**
[13] A1
[51] **Int.Cl. B01D 39/16 (2006.01) B01D 39/18 (2006.01)**
[25] EN
[54] **COALESCING MEDIA**
[54] **MILIEU COALESCENT**
[72] JONES, DEREK O., US
[72] HAUSER, BRADLY G., US
[72] KAPOOR, VIJAY K., US
[71] DONALDSON COMPANY, INC., US
[85] 2024-04-19
[86] 2022-10-28 (PCT/US2022/048162)
[87] (WO2023/076555)
[30] US (63/273,639) 2021-10-29

[21] **3,235,762**
[13] A1
[51] **Int.Cl. C07D 417/14 (2006.01) C07D 291/08 (2006.01)**
[25] EN
[54] **SMALL MOLECULE INHIBITORS OF UBIQUITIN SPECIFIC PROTEASE 1 (USP1) AND USES THEREOF**
[54] **PETITES MOLECULES INHIBITRICES DE LA PROTEASE 1 SPECIFIQUE DE L'UBIQUITINE (USP1) ET LEURS UTILISATIONS**
[72] WU, JIANPING, CN
[72] QIN, LUOHENG, CN
[72] LIU, JINXIN, CN
[72] LIU, YINGTAO, CN
[71] INSILICO MEDICINE IP LIMITED, CN
[85] 2024-04-19
[86] 2022-11-11 (PCT/CN2022/131359)
[87] (WO2023/083297)
[30] CN (PCT/CN2021/130289) 2021-11-12

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[13] A1
[51] **Int.Cl. B29C 33/76 (2006.01) B33Y 10/00 (2015.01) B33Y 80/00 (2015.01) B29C 53/82 (2006.01) B29C 70/32 (2006.01) B29D 22/00 (2006.01)**
[25] EN
[54] **ADDITIVE MANUFACTURING PROCESS FOR HIGH PERFORMANCE COMPOSITE PRESSURE VESSELS AND STRUCTURES**
[54] **PROCEDE DE FABRICATION ADDITIVE DE RECIPIENTS ET STRUCTURES SOUS PRESSION COMPOSITES HAUTE PERFORMANCE**
[72] VILLARREAL, R. MATT, US
[72] NUNLEY, TARELL D., US
[72] COPELAND, CONNOR, US
[71] INFINITE COMPOSITES, INC., US
[85] 2024-04-19
[86] 2022-11-09 (PCT/US2022/049405)
[87] (WO2023/086385)
[30] US (63/277,235) 2021-11-09

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[13] A1
[51] **Int.Cl. A01G 18/10 (2018.01) A01G 18/20 (2018.01) A01G 11/00 (2006.01)**
[25] EN
[54] **METHODS OF PROPAGATION OF ARBUSCULAR MYCORRHIZAL FUNGI (AMF) AND USES THEREOF**
[54] **PROCEDES DE PROPAGATION DE CHAMPIGNONS MYCORHIZIENS ARBUSCULAIRES (AMF) ET LEURS UTILISATIONS**
[72] WILLIAMS, STEPHEN EARL, US
[71] TERRA MICROBES, LLC, US
[85] 2024-04-19
[86] 2022-03-09 (PCT/US2022/019629)
[87] (WO2023/080917)
[30] US (63/275,886) 2021-11-04

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[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **SMALL MOLECULE INHIBITORS OF UBIQUITIN SPECIFIC PROTEASE 1 (USP1) AND USES THEREOF**
[54] **INHIBITEURS A PETITES MOLECULES DE LA PROTEASE 1 UBIQUITINE-SPECIFIQUE ET LEURS UTILISATIONS**
[72] WU, JIANPING, CN
[72] QIN, LUOHENG, CN
[72] LIU, JINXIN, CN
[71] INSILICO MEDICINE IP LIMITED, CN
[85] 2024-04-19
[86] 2022-11-11 (PCT/CN2022/131293)
[87] (WO2023/083286)
[30] CN (PCT/CN2021/130290) 2021-11-12
[30] CN (PCT/CN2022/123827) 2022-10-08

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[13] A1
[51] **Int.Cl. A01D 75/18 (2006.01)**
[25] FR
[54] **DEVICE FOR CONTROLLING AT LEAST ONE PIECE OF AGRICULTURAL MACHINERY THAT IS MOVABLE WITHIN AN AGRICULTURAL PLOT**
[54] **DISPOSITIF DE COMMANDE D'AU MOINS UN ENGIN AGRICOLE MOBILE A L'INTERIEUR D'UNE PARCELLE AGRICOLE**
[72] HOELLINGER, MARIE, FR
[72] POTIER, PHILIPPE, FR
[71] KUHN SAS, FR
[85] 2024-04-19
[86] 2022-11-03 (PCT/EP2022/080703)
[87] (WO2023/079013)
[30] FR (FR2111751) 2021-11-05

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[13] A1
[51] **Int.Cl. A61B 17/062 (2006.01) A61B 17/04 (2006.01) A61B 17/34 (2006.01) A61B 17/42 (2006.01)**
[25] EN
[54] **IMPROVED TROCAR DEVICE AND SYSTEM AND METHOD FOR MONITORING NAVIGATION OF THE TROCAR DEVICE**
[54] **DISPOSITIF DE TROCART AMELIORE ET SYSTEME ET PROCEDE DE SURVEILLANCE DE NAVIGATION DU DISPOSITIF DE TROCART**
[72] OTT, GARY D., US
[71] OTTOSURGICAL INSTRUMENTS LLC, US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/047399)
[87] (WO2023/069690)
[30] US (17/507,570) 2021-10-21

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[13] A1
[51] **Int.Cl. F24F 7/06 (2006.01)**
[25] EN
[54] **CLEAN ROOM FACILITY**
[54] **INSTALLATION DE SALLE BLANCHE**
[72] NISHIMURA, NORITOSHI, JP
[72] MATSUZAKI, KAZUHITO, JP
[72] IMAGUCHI, NOBUHIRO, JP
[71] HITACHI GLOBAL LIFE SOLUTIONS, INC., JP
[85] 2024-04-19
[86] 2022-03-09 (PCT/JP2022/010208)
[87] (WO2023/170808)

[21] **3,235,770**
[13] A1
[51] **Int.Cl. C01B 3/24 (2006.01) A23K 10/18 (2016.01) A01C 1/08 (2006.01)**
[25] EN
[54] **MICROBIAL COMPOSITIONS AND METHODS FOR INCREASING HYDROGEN EMISSIONS**
[54] **COMPOSITIONS MICROBIENNES ET PROCEDES POUR ACCROITRE LES EMISSIONS D'HYDROGENE**
[72] HAGEN, TONY, US
[71] RAISON, LLP, US
[85] 2024-04-19
[86] 2022-10-19 (PCT/US2022/047141)
[87] (WO2023/069525)
[30] US (63/257,520) 2021-10-19

[21] **3,235,771**
[13] A1
[51] **Int.Cl. A22C 25/16 (2006.01)**
[25] EN
[54] **KNIFE ASSEMBLY AND APPARATUS AND METHOD FOR PROCESSING ANIMAL PRODUCTS**
[54] **MACHINE A COUTEAU, ET APPAREIL ET PROCEDE DE TRAITEMENT DE PRODUITS D?ORIGINE ANIMALE**
[72] TYCHSEN, WERNER, DE
[71] NORDISCHER MASCHINENBAU RUD.BAADER GMBH & CO KG, DE
[85] 2024-04-19
[86] 2021-11-15 (PCT/EP2021/081620)
[87] (WO2023/083469)

[21] **3,235,772**
[13] A1
[51] **Int.Cl. C07K 14/55 (2006.01)**
[25] EN
[54] **ENCAPSULATED CELLS EXPRESSING IL-2 AND USES THEREOF**
[54] **CELLULES ENCAPSULEES EXPRIMANT IL-2 ET LEURS UTILISATIONS**
[72] VEISEH, OMID, US
[72] ZHANG, DAVID, US
[72] MUKERJEE, SUDIP, US
[72] RUOCCO, MARIA, US
[72] DOERFERT, MICHAEL, US
[72] NASH, AMANDA, US
[72] AGHLARA-FOTOVAT, SAMIRA, US
[71] WILLIAM MARSH RICE UNIVERSITY, US
[85] 2024-04-19
[86] 2022-10-19 (PCT/US2022/078369)
[87] (WO2023/069993)
[30] US (63/257,891) 2021-10-20

[21] **3,235,773**
[13] A1
[51] **Int.Cl. B03B 5/52 (2006.01) B03B 5/48 (2006.01) B03B 9/06 (2006.01) B07B 13/11 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR WASTE SEPARATION USING A MULTI-SPIRAL SEPARATOR**
[54] **PROCEDE ET SYSTEME DE SEPARATION DES DECHETS EN UTILISANT UN SEPARATEUR MULTI-SPIRALE**
[72] VALERIO, THOMAS A., US
[71] VALERIO, THOMAS A., US
[85] 2024-04-19
[86] 2022-10-24 (PCT/US2022/047617)
[87] (WO2023/069787)
[30] US (63/270,963) 2021-10-22

[21] **3,235,774**
[13] A1
[51] **Int.Cl. A23K 10/16 (2016.01) A23K 10/30 (2016.01) A23K 50/10 (2016.01)**
[25] EN
[54] **MICROBIAL COMPOSITIONS AND METHODS FOR REDUCING METHANE EMISSIONS**
[54] **COMPOSITIONS MICROBIENNES ET PROCEDES POUR REDUIRE LES EMISSIONS DE METHANE**
[72] HAGEN, TONY, US
[71] RAISON, LLP, US
[85] 2024-04-19
[86] 2022-10-19 (PCT/US2022/047147)
[87] (WO2023/069530)
[30] US (63/257,533) 2021-10-19

[21] **3,235,777**
[13] A1
[51] **Int.Cl. B63B 17/00 (2006.01) B67D 7/84 (2010.01) B63B 35/28 (2006.01)**
[25] EN
[54] **MOBILE FUEL DISTRIBUTION STATION**
[54] **STATION DE DISTRIBUTION DE CARBURANT MOBILE**
[72] SJOO, NIKLAS, SE
[72] TJERNSTROM, KARL-OSKAR, SE
[71] FOSSIL FREE MARINE EUROPE AB, SE
[85] 2024-04-19
[86] 2022-10-21 (PCT/EP2022/079417)
[87] (WO2023/067159)
[30] EP (21204067.9) 2021-10-21

[21] **3,235,778**
[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) A61K 39/395 (2006.01) A61P 35/04 (2006.01) C07K 16/30 (2006.01) C12N 9/64 (2006.01)**
[25] EN
[54] **METHODS OF USE AND ADMINISTRATION OF ENCAPSULATED CELLS**
[54] **PROCEDES D'UTILISATION ET D'ADMINISTRATION DE CELLULES ENCAPSULEES**
[72] VEISEH, OMID, US
[72] NASH, AMANDA, US
[72] AGHLARA-FOTOVAT, SAMIRA, US
[71] WILLIAM MARSH RICE UNIVERSITY, US
[85] 2024-04-19
[86] 2022-10-19 (PCT/US2022/078381)
[87] (WO2023/070000)
[30] US (63/257,899) 2021-10-20
[30] US (63/342,212) 2022-05-16

[21] **3,235,779**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61P 35/00 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01) C12N 15/37 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING ANAL HIGH-GRADE SQUAMOUS INTRAEPITHELIAL LESION (HSIL)**
[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT D'UNE LESION INTRA-EPITHELIALE SQUAMEUSE DE HAUT GRADE (HSIL) ANALE**
[72] YAN, JIAN, US
[72] KIM, JONG JOSEPH, US
[72] BHUYAN, PRAKASH, US
[72] SKOLNIK, JEFFREY, US
[71] INOVIO PHARMACEUTICALS, INC., US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/078551)
[87] (WO2023/070109)
[30] US (63/270,929) 2021-10-22

[21] **3,235,780**
[13] A1
[51] **Int.Cl. B23D 45/00 (2006.01) B23D 45/16 (2006.01) B23D 47/00 (2006.01) F16P 3/00 (2006.01)**
[25] EN
[54] **RING CUTTER FOR SAFELY TRANSECTING A RING TRAPPED ON AN APPENDAGE**
[54] **COUPE-BAGUE DESTINE A COUPER EN TOUTE SECURITE UNE BAGUE COINCEE SUR UN APPENDICE**
[72] HENNESSEY, PATRICK, CA
[72] MACKEIL, BRAD, CA
[72] CAMPBELL, SCOTT, CA
[72] ELLSMERE, JOSEPH, CA
[72] SPENCER, KEVIN, CA
[71] RING RESCUE INC., CA
[85] 2024-04-19
[86] 2022-10-19 (PCT/CA2022/051540)
[87] (WO2023/065028)
[30] US (63/270,763) 2021-10-22

[21] **3,235,782**
[13] A1
[51] **Int.Cl. A47D 13/02 (2006.01) A47D 13/08 (2006.01) A47D 15/00 (2006.01) B60N 2/28 (2006.01) B62B 9/10 (2006.01)**
[25] EN
[54] **HEAD PROTECTION DEVICE AND INFANT CARRIER INCLUDING THE SAME**
[54] **DISPOSITIF DE PROTECTION DE TETE ET PORTE-BEBE LE COMPRENANT**
[72] GUO, ZHENGWEN, CH
[72] LIU, WUQING, CH
[71] WONDERLAND SWITZERLAND AG, CH
[85] 2024-04-19
[86] 2022-10-20 (PCT/EP2022/079307)
[87] (WO2023/067116)
[30] CN (202111237459.X) 2021-10-22

[21] **3,235,783**
[13] A1
[51] **Int.Cl. A22C 25/16 (2006.01)**
[25] EN
[54] **MEASURING HEAD FOR DETERMINING THE LENGTH OF THE ABDOMINAL CAVITY OF A SLAUGHTERED, BEHEADED AND GUTTED FISH, WORKING STATION COMPRISING A KNIFE ASSEMBLY AND A SENSING HEAD OF THIS KIND, AND APPARATUS AND METHOD FOR PROCESSING, IN PARTICULAR FILLETING, SLAUGHTERED, BEHEADED AND GUTTED FIS**
[54] **TETE DE DETECTION POUR DETERMINER LA LONGUEUR DE LA CAVITE ABDOMINALE D'UN POISSON ABATTU, ETETE ET VIDE, POSTE DE TRAITEMENT DOTE D'UNE UNITE COUTEAU ET D'UNE TETE DE DETECTION DE CE TYPE, ET DISPOSITIF ET PROCEDE DE TRAITEMENT, EN PARTICULIER DE FILETAGE DE POISSONS ABATTUS, ETETES ET VIDE**
[72] TYCHSEN, WERNER, DE
[71] NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG, DE
[85] 2024-04-19
[86] 2021-11-26 (PCT/EP2021/083171)
[87] (WO2023/093995)

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[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01) C07K 14/165 (2006.01)**
[25] EN
[54] **PEPTIDES THAT INHIBIT INFECTION BY SARS-COV-2, THE VIRUS THAT CAUSES COVID-19 DISEASE**
[54] **PEPTIDES QUI INHIBENT L'INFECTION PAR LE SARS-COV-2, LE VIRUS QUI PROVOQUE LA MALADIE COVID-19**
[72] GELLMAN, SAMUEL, US
[72] OUTLAW, VICTOR, US
[72] MOSCONA, ANNE, US
[72] POROTTO, MATTEO, US
[72] YU, ZHEN, US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/047449)
[87] (WO2023/069728)
[30] US (63/270,851) 2021-10-22

[21] **3,235,785**
[13] A1
[51] **Int.Cl. E01C 19/20 (2006.01) E01C 19/12 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONNAL SPREADING DEVICE**
[54] **DISPOSITIF D'ETALEMENT MULTIFONCTIONNEL**
[72] PELLETIER, SYLVAIN, CA
[71] 9432-0090 QUEBEC INC., CA
[85] 2024-04-19
[86] 2022-10-20 (PCT/CA2022/051553)
[87] (WO2023/065040)
[30] US (63/262,777) 2021-10-20

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[13] A1
[51] **Int.Cl. F03D 1/06 (2006.01) F03D 7/02 (2006.01)**
[25] EN
[54] **DAMPING ASSEMBLY FOR WIND TURBINES**
[54] **ENSEMBLE D'AMORTISSEMENT POUR EOLIENNES**
[72] HOFFMANN, ROLF, AU
[71] WINDSUN PTE LTD, AU
[85] 2024-04-19
[86] 2022-10-21 (PCT/AU2022/051265)
[87] (WO2023/064992)
[30] AU (2021903387) 2021-10-22

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[13] A1
[51] **Int.Cl. A61P 3/08 (2006.01) A61P 3/10 (2006.01) C12Q 1/6886 (2018.01) A61P 37/08 (2006.01)**
[25] EN
[54] **METHODS OF TREATING PATIENTS HAVING TYPE 1 DIABETES WITH EFLORNITHINE**
[54] **METHODES DE TRAITEMENT DE PATIENTS ATTEINTS DE DIABETE DE TYPE 1 AVEC DE L'EFLORNITHINE**
[72] GERNER, EUGENE, US
[72] DIMEGLIO, LINDA, US
[72] MIRMIRA, RAGHAVENDRA G., US
[71] CANCER PREVENTION PHARMACEUTICALS, INC., US
[71] THE TRUSTEES OF INDIANA UNIVERSITY, US
[85] 2024-04-19
[86] 2022-10-31 (PCT/US2022/078959)
[87] (WO2023/081612)
[30] US (63/274,654) 2021-11-02

[21] **3,235,788**
[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01)**
[25] EN
[54] **ANTI-TSHR MULTI-SPECIFIC ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS MULTI-SPECIFIQUES ANTI-TSHR ET LEURS UTILISATIONS**
[72] CHEUNG, NAI-KONG V., US
[72] FAGIN, JAMES A., US
[72] GUO, HONG FEN, US
[72] JIN, YUCHEN, US
[72] KNAUF, JEFFREY, US
[72] KRISHNAMOORTHY, GNANA, US
[72] LIU, YIWEI, US
[72] SANTICH, BRIAN, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[71] MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES, US
[71] SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, US
[85] 2024-04-19
[86] 2022-10-17 (PCT/US2022/046842)
[87] (WO2023/069341)
[30] US (63/257,694) 2021-10-20

[21] **3,235,789**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **CANCER SPECIFIC PLECTIN-1 SPECIFIC ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS SPECIFIQUES DE LA PLECTINE-1 SPECIFIQUES DU CANCER ET LEURS PROCEDES D'UTILISATION**
[72] KELLY, KIMBERLY, US
[72] BURTON, RANDALL, US
[72] HORWITZ, ARNOLD, US
[71] ZIELBIO, INC., US
[85] 2024-04-19
[86] 2022-10-28 (PCT/US2022/078928)
[87] (WO2023/077099)
[30] US (63/273,446) 2021-10-29
[30] US (63/310,824) 2022-02-16

[21] **3,235,790**
[13] A1
[51] **Int.Cl. C10G 1/10 (2006.01) C10G 9/36 (2006.01) C10G 45/08 (2006.01) C10G 65/02 (2006.01)**
[25] EN
[54] **METHOD OF TREATING WASTE PLASTIC**
[54] **PROCEDE DE TRAITEMENT DE DECHETS PLASTIQUES**
[72] KURKIJARVI, ANTTI, FI
[72] AHO, MARJUT, FI
[72] KELA, JARMO, FI
[72] PAASIKALLIO, VILLE, FI
[72] SAIRANEN, EMMA, FI
[72] PEREZ NEBREDA, ANDREA, FI
[72] KEYRILAINEN, JUKKA, FI
[72] UOTILA, PERTTU, FI
[72] KETTUNEN, MIKA, FI
[72] JAMIESON, JOHN, FI
[71] NESTE OYJ, FI
[85] 2024-04-19
[86] 2022-10-28 (PCT/EP2022/080245)
[87] (WO2023/073194)
[30] EP (21205587.5) 2021-10-29
[30] FI (20216124) 2021-10-29

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[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) A61P 25/28 (2006.01)**
[25] EN
[54] **CONDITION-ACTIVATABLE NUCLEIC ACID CONSTRUCTS AND THEIR USES FOR TREATING NEUROLOGICAL DISEASES**
[54] **CONSTRUCTIONS D'ACIDES NUCLEIQUES ACTIVABLES SOUS CONDITION ET LEURS UTILISATIONS POUR LE TRAITEMENT DE MALADIES NEUROLOGIQUES**
[72] HAN, SI-PING, US
[72] DATTA, DEEPSHIKHA, US
[72] KIRALY, MARIANNA, US
[71] SWITCH THERAPEUTICS INC., US
[85] 2024-04-19
[86] 2022-10-20 (PCT/US2022/078466)
[87] (WO2023/070057)
[30] US (63/270,189) 2021-10-21
[30] US (63/332,099) 2022-04-18

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[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/19 (2006.01) A61K 33/00 (2006.01) A61K 33/14 (2006.01) A61K 38/17 (2006.01) A61K 38/18 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **PHYSIOLOGICAL SALINE SOLUTION AND METHODS FOR MAKING AND USING SAME**
[54] **SOLUTION SALINE PHYSIOLOGIQUE ET SES PROCEDES DE FABRICATION ET D'UTILISATION**
[72] DAVEY, MARCUS GRAEME, US
[72] GREGORY, CHRISTOPHER C., US
[72] FLAKE, ALAN W., US
[71] THE CHILDREN'S HOSPITAL OF PHILADELPHIA, US
[71] VITARA BIOMEDICAL, INC., US
[85] 2024-04-19
[86] 2022-10-20 (PCT/US2022/047331)
[87] (WO2023/069658)
[30] US (63/257,798) 2021-10-20

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[51] **Int.Cl. C25B 1/04 (2021.01) H01M 8/2432 (2016.01) H01M 8/247 (2016.01) H01M 8/248 (2016.01) H01M 8/249 (2016.01) C25B 9/70 (2021.01)**
[25] FR
[54] **SYSTEM FOR PACKAGING A PLURALITY OF STACKS OF SOLID OXIDE CELLS OF HIGH-TEMPERATURE SOEC/SOFC TYPE**
[54] **SYSTEME DE CONDITIONNEMENT D'UNE PLURALITE D'EMPILEMENTS DE CELLULES A OXYDES SOLIDES DE TYPE SOEC/SOFC A HAUTE TEMPERATURE**
[72] DI IORIO, STEPHANE, FR
[72] GILLIA, OLIVIER, FR
[72] MONNET, THIBAULT, FR
[72] VULLIEZ, KARL, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2024-04-19
[86] 2022-11-21 (PCT/FR2022/052137)
[87] (WO2023/094756)
[30] FR (2112366) 2021-11-23

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[13] A1
[51] **Int.Cl. A61L 9/03 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AIR RECIRCULATION AND VOLATILE COMPOSITION RELEASE**
[54] **SYSTEMES ET PROCEDES DE RECIRCULATION D'AIR ET DE LIBERATION DE COMPOSITION VOLATILE**
[72] MEHNERT, ERIC, US
[72] KULLBACK, TAMARA, US
[71] ENVIROSCENT, INC., US
[85] 2024-04-19
[86] 2022-09-02 (PCT/US2022/042463)
[87] (WO2023/034574)
[30] US (63/240,754) 2021-09-03

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[13] A1
[51] **Int.Cl. G09B 23/30 (2006.01)**
[25] EN
[54] **WEARABLE BIRTHING SIMULATORS**
[54] **SIMULATEURS D'ACCOUCHEMENT A PORTER**
[72] EROL, AMY BUCHA, US
[72] MONTELEONE, JESSICA, US
[72] COWPERTHWAIT, AMY, US
[72] TAYLOR, ANDREW, US
[72] SMITH, OLIVIA, US
[72] WELLS, CHRISTOPHER, US
[71] AVKIN, INC., US
[85] 2024-04-19
[86] 2022-11-11 (PCT/US2022/049652)
[87] (WO2023/086536)
[30] US (63/278,580) 2021-11-12

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[13] A1
[51] **Int.Cl. B41J 2/32 (2006.01) B41J 15/04 (2006.01)**
[25] EN
[54] **SENSOR CONFIGURATION TO INDICATE AVAILABLE MEDIA OF A PRINTER**
[54] **CONFIGURATION DE CAPTEUR POUR INDIQUER DES SUPPORTS DISPONIBLES D'UNE IMPRIMANTE**
[72] WANG, SUWEI, CN
[72] LIU, YONG, CN
[72] LIU, BO, CN
[72] WANG, ZHONGGUI, CN
[71] ZEBRA TECHNOLOGIES CORPORATION, US
[85] 2024-04-19
[86] 2021-10-26 (PCT/CN2021/126494)
[87] (WO2023/070330)

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[51] **Int.Cl. A45D 44/00 (2006.01) B25J 11/00 (2006.01) B25J 19/00 (2006.01)**
[25] EN
[54] **MAKEUP MACHINE WITH AUTOMATICALLY-CONTROLLED SPRAY HEAD MOVEMENTS**
[54] **MACHINE DE MAQUILLAGE A MOUVEMENTS DE TETE DE PULVERISATION COMMANDES AUTOMATIQUEMENT**
[72] DANIEL ARIEL, DONOHUE, US
[71] GLORYMAKEUP INC., CN
[85] 2024-04-19
[86] 2022-11-02 (PCT/CN2022/129214)
[87] (WO2023/078289)
[30] US (63/276,062) 2021-11-05
[30] US (63/316,179) 2022-03-03
[30] US (18/049,837) 2022-10-26

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[51] **Int.Cl. G06F 21/60 (2013.01) G06N 20/00 (2019.01)**
[25] EN
[54] **METHOD, PROGRAM, AND APPARATUS FOR PROCESSING SENSITIVE DATA**
[54] **PROCEDE, PROGRAMME ET APPAREIL DE TRAITEMENT DE DONNEES SENSIBLES**
[72] THURIER, QUENTIN-GABRIEL, NZ
[72] CHEAH, SOON-EE, NZ
[71] XERO LIMITED, NZ
[85] 2024-04-19
[86] 2022-11-04 (PCT/NZ2022/050137)
[87] (WO2023/085952)
[30] AU (2021903641) 2021-11-12

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[13] A1
[51] **Int.Cl. C07C 321/06 (2006.01) C07H 1/00 (2006.01) C07H 19/073 (2006.01) C07H 21/04 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING POLYNUCLEOTIDES**
[54] **PROCEDE DE PRODUCTION DE POLYNUCLEOTIDES**
[72] BROWN, TOM, GB
[72] COX, OWEN, GB
[71] ATDBIO LIMITED, GB
[85] 2024-04-19
[86] 2022-11-29 (PCT/EP2022/083664)
[87] (WO2023/099471)
[30] EP (21211482.1) 2021-11-30

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[13] A1
[51] **Int.Cl. A41B 11/14 (2006.01) A41D 13/05 (2006.01)**
[25] EN
[54] **LEGGINGS AND SOCKS**
[54] **CALECON LONG ET CHAUSSETTES**
[72] SASAKI, TAKASHI, JP
[71] RELIVE CO., LTD., JP
[85] 2024-04-19
[86] 2022-10-20 (PCT/JP2022/039194)
[87] (WO2023/068344)
[30] JP (2021-172343) 2021-10-21

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[13] A1
[51] **Int.Cl. G01N 25/66 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR INDIRECT DETERMINATION OF THE DEW POINT OF COMPRESSED AIR**
[54] **PROCEDE ET APPAREIL DE DETERMINATION INDIRECTE DU POINT DE ROSEE DE L'AIR COMPRIME**
[72] VAN DEN WYNGAERT, THOMAS, BE
[71] ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP, BE
[85] 2024-04-19
[86] 2022-10-17 (PCT/IB2022/059929)
[87] (WO2023/073493)
[30] BE (BE2021/5834) 2021-10-26

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[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING MUSCULAR DYSTROPHY**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE LA DYSTROPHIE MUSCULAIRE**
[72] BIRESSI, STEFANO, IT
[72] FLORIO, FRANCESCA, IT
[72] ANDREWS-ZWILLING, YAISA, US
[71] ANNEXON, INC., US
[71] UNIVERSITA DEGLI STUDI DI TRENTO, IT
[71] FONDAZIONE TELETHON ETS, IT
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/078510)
[87] (WO2023/070087)
[30] US (63/270,352) 2021-10-21

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[13] A1
[51] **Int.Cl. B65D 17/34 (2006.01)**
[25] EN
[54] **FOOD AND BEVERAGE CAN TAB**
[54] **LANGUETTE DE BOITE A DENREES ET A BOISSON**
[72] SNIOSZEK, LUKASZ, PL
[72] DOBRANOWSKI, JAN, PL
[72] BOCIAN, JANUSZ, PL
[71] CANPACK FOOD AND INDUSTRIAL PACKAGING SP. Z O.O., PL
[85] 2024-04-19
[86] 2022-10-18 (PCT/IB2022/060014)
[87] (WO2023/067508)
[30] US (63/257,931) 2021-10-20

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[13] A1
[51] **Int.Cl. A47J 36/32 (2006.01)**
[25] EN
[54] **COOKING APPLIANCE**
[54] **APPAREIL DE CUISSON**
[72] SZYMANSKI, MAREK, AU
[71] SZYMANSKI, MAREK, AU
[85] 2024-04-19
[86] 2022-10-21 (PCT/AU2022/051261)
[87] (WO2023/064989)
[30] AU (2021903381) 2021-10-21

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[13] A1
[51] **Int.Cl. B65D 21/02 (2006.01) B65D 25/20 (2006.01) B65D 85/816 (2006.01)**
[25] EN
[54] **CONTAINER FOR FOOD PRODUCTS**
[54] **CONTENANT POUR PRODUITS ALIMENTAIRES**
[72] BATES, NATHAN JAMES, NL
[72] VON CARLSBURG, LARS-INGO, NL
[72] GENOVES-CASQUETE, JOSE RAFAEL, NL
[71] UNILEVER IP HOLDINGS B.V., NL
[85] 2024-04-19
[86] 2022-11-01 (PCT/EP2022/080433)
[87] (WO2023/078867)
[30] EP (21206714.4) 2021-11-05

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[13] A1
[51] **Int.Cl. F21L 14/02 (2006.01) F21V 15/02 (2006.01) F21V 17/10 (2006.01) F21V 23/00 (2015.01) F21V 23/04 (2006.01) F21V 23/06 (2006.01) F21V 27/02 (2006.01) F21V 31/00 (2006.01)**
[25] EN
[54] **AREA LIGHT**
[54] **DISPOSITIF D'ECLAIRAGE LOCAL**
[72] GODSELL, THOMAS, US
[71] SOUTHWIRE COMPANY, LLC, US
[85] 2024-04-19
[86] 2022-10-20 (PCT/US2022/078451)
[87] (WO2023/070046)
[30] US (63/270,161) 2021-10-21

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[13] A1
[51] **Int.Cl. E02F 3/36 (2006.01) F16L 1/00 (2006.01)**
[25] EN
[54] **PIPE-JOINING ATTACHMENT FOR WORK MACHINE, WORK MACHINE PROVIDED WITH SAME, AND PIPE-JOINING METHOD**
[54] **ACCESSOIRE DE RACCORDEMENT DE TUYAU POUR MACHINE DE TRAVAIL, MACHINE DE TRAVAIL EQUIPEE DE CELUI-CI ET PROCEDE DE RACCORDEMENT DE TUYAU**
[72] IDOMOTO, YASUSHI, JP
[72] KAGEYAMA, HAYATO, JP
[72] MIYAZAKI, YASUHIRO, JP
[72] TAKAGI, YUSUKE, JP
[72] YAMAMOTO, KEIICHIRO, JP
[72] TAKENONAKA, MASATO, JP
[71] KUBOTA CORPORATION, JP
[85] 2024-04-19
[86] 2022-10-20 (PCT/JP2022/039046)
[87] (WO2023/068319)
[30] JP (2021-172218) 2021-10-21

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[13] A1
[51] **Int.Cl. A47F 5/00 (2006.01) A47F 5/08 (2006.01) A47F 3/08 (2006.01)**
[25] EN
[54] **DISPLAY BOARD AND METHOD OF USE**
[54] **PANNEAU D'AFFICHAGE ET SON PROCEDE D'UTILISATION**
[72] MUN, EUN SU, US
[71] IVY ENTERPRISES, INC., US
[85] 2024-04-19
[86] 2022-10-20 (PCT/US2022/047267)
[87] (WO2023/069609)
[30] US (63/271,082) 2021-10-22

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[13] A1
[51] **Int.Cl. G06Q 30/02 (2023.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR MANAGING USER ACCOUNT DATA AND AWARD REDEMPTIONS**
[54] **SYSTEMES ET PROCEDES MIS EN ?UVRE PAR ORDINATEUR POUR GERER DES DONNEES DE COMPTE D'UTILISATEUR ET DES ATTRIBUTIONS DE RECOMPENSE**
[72] DORRIS, JR. JAMES F., US
[72] ROHMAN, III, KENNETH WILLIAM, US
[72] BELL, BRIAN FRANKLIN, US
[72] ANDERSON, PETER, US
[72] FRALICK, CANDY KIRBY, US
[72] MILTON, JESSICA, US
[71] POARCH BAND OF CREEK INDIANS, D/B/A PCI GAMING AUTHORITY, US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/078514)
[87] (WO2023/070089)
[30] US (63/262,860) 2021-10-21

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[13] A1
[51] **Int.Cl. A61N 5/06 (2006.01) A61N 5/067 (2006.01) G02B 6/02 (2006.01) H01S 3/067 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR DILATION OF A TUBULAR ANATOMICAL STRUCTURE**
[54] **DISPOSITIF ET PROCEDE DE DILATATION D'UNE STRUCTURE ANATOMIQUE TUBULAIRE**
[72] WATSON, BRANT D., US
[72] VAN VURST, HENRY W., US
[71] ENDO UV TECH, US
[85] 2024-04-19
[86] 2021-10-22 (PCT/US2021/056347)
[87] (WO2023/069118)

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[13] A1
[51] **Int.Cl. C25B 1/20 (2006.01) C01F 5/14 (2006.01) C01F 11/02 (2006.01)**
[25] EN
[54] **ELECTROCHEMICAL CA(OH)2 AND/OR MG(OH)2 PRODUCTION FROM INDUSTRIAL WASTES AND CA/MG-CONTAINING ROCKS**
[54] **PRODUCTION DE CA(OH)2 ET/OU MG(OH)2 ELECTROCHIMIQUE A PARTIR DE DECHETS INDUSTRIELS ET DE ROCHES A BASE DE CA/MG**
[72] SANT, GAURAV, US
[72] CHEN, XIN, US
[72] ARNOLD, ROSS ALEXANDER, US
[72] SIMONETTI, DANTE ADAM, US
[72] CASTANO, SARA VALLEJO, US
[72] PRENTICE, DALE PHILIP, US
[72] JASSBY, DAVID, US
[72] TRAYNOR, THOMAS, US
[71] THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-04-19
[86] 2022-10-24 (PCT/US2022/047585)
[87] (WO2023/069777)
[30] US (63/271,059) 2021-10-22

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[13] A1
[51] **Int.Cl. C01G 53/10 (2006.01)**
[25] EN
[54] **PROCESSES AND SYSTEMS FOR PRODUCING A NICKEL SULFATE PRODUCT**
[54] **PROCEDES ET SYSTEMES DE PRODUCTION D'UN PRODUIT DE SULFATE DE NICKEL**
[72] FRISCHHUT, SABINE, DE
[72] HOFINGER, JULIA, DE
[72] BOEHLING, RALF, DE
[72] PICHLMAIR, STEFAN, US
[71] BASF SE, DE
[85] 2024-04-19
[86] 2022-10-04 (PCT/EP2022/077572)
[87] (WO2023/066656)
[30] US (63/262,927) 2021-10-22
[30] EP (21205128.8) 2021-10-27

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[13] A1
[51] **Int.Cl. A61K 47/60 (2017.01) A61K 47/69 (2017.01) A61P 1/16 (2006.01) A61P 37/02 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01)**
[25] EN
[54] **TREATMENT OF PRIMARY BILIARY CHOLANGITIS (PBC) WITH TOLERIZING NANOPARTICLES**
[54] **TRAITEMENT DE LA CHOLANGITE BILIAIRE PRIMAIRE (CBP) AVEC DES NANOPARTICULES DE TOLERISATION**
[72] PUISIS, JOHN J., US
[72] BOYNE, MICHAEL, US
[72] WODARCYK, GRETA, US
[72] ELHOFY, ADAM, US
[71] COUR PHARMACEUTICALS DEVELOPMENT COMPANY INC., US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/078545)
[87] (WO2023/070104)
[30] US (63/270,447) 2021-10-21
[30] US (63/369,574) 2022-07-27

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[13] A1
[51] **Int.Cl. G02C 7/04 (2006.01)**
[25] EN
[54] **OPHTHALMIC LENSES**
[54] **LENTILLES OPHTALMIQUES**
[72] BRADLEY, ARTHUR, US
[72] WEBBER, MARTIN, GB
[72] HAMMOND, DAVID S., US
[72] ARUMUGAM, BASKAR, US
[72] CHAMBERLAIN, PAUL, US
[71] COOPERVISION INTERNATIONAL LIMITED, GB
[85] 2024-04-19
[86] 2022-09-30 (PCT/GB2022/052493)
[87] (WO2023/073339)
[30] US (63/272,357) 2021-10-27

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[13] A1
[51] **Int.Cl. A61K 8/37 (2006.01) A61K 8/49 (2006.01) A61K 31/192 (2006.01)**
[25] FR
[54] **COMPOSITION FOR USE IN THE CUTANEOUS SYNTHESIS OF HYALURONIC ACID, IN AN IMMUNO-CUTANEOUS RESPONSE AND TO IMPROVE SKIN**
[54] **COMPOSITION POUR SON UTILISATION DANS LA SYNTHESE CUTANEE D'ACIDE HYALURONIQUE, DANS LA REPONSE IMMUNO-CUTANEE ET UNE AMELIORATION DE LA PEAU**
[72] BERNARD, PHILIPPE, FR
[71] JR, FR
[85] 2024-04-19
[86] 2022-06-21 (PCT/FR2022/051204)
[87] (WO2023/067251)
[30] FR (2111237) 2021-10-22

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[13] A1
[51] **Int.Cl. A23G 9/38 (2006.01) A23G 9/42 (2006.01) A23G 9/48 (2006.01) A23G 9/50 (2006.01)**
[25] EN
[54] **NOVEL FROZEN CONFECTION PRODUCT**
[54] **NOUVEAU PRODUIT DE CONFISERIE CONGELE**
[72] NANDI, ASISH, NL
[72] ROSSETTI, DAMIANO, NL
[71] UNILEVER IP HOLDINGS B.V., NL
[85] 2024-04-19
[86] 2022-10-06 (PCT/EP2022/077855)
[87] (WO2023/078631)
[30] EP (21206674.0) 2021-11-05

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[13] A1
[51] **Int.Cl. G06F 16/9535 (2019.01) G06F 16/2457 (2019.01) G06F 16/36 (2019.01) G06F 16/38 (2019.01) G06F 16/532 (2019.01) G06F 16/9536 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR BUILDING AND/OR USING A GRAPH DATA STRUCTURE**
[54] **PROCEDES ET SYSTEMES DE CONSTRUCTION ET/OU D'UTILISATION D'UNE STRUCTURE DE DONNEES GRAPHIQUES**
[72] VANT, KENDRA, NZ
[72] CHEAH, SOON-EE, NZ
[72] DRIDAN, REBECCA, NZ
[72] PACE, SHANNON, NZ
[71] XERO LIMITED, NZ
[85] 2024-04-19
[86] 2022-11-24 (PCT/NZ2022/050152)
[87] (WO2023/096501)
[30] AU (2021903791) 2021-11-24

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[13] A1
[51] **Int.Cl. E04B 1/343 (2006.01) E04B 1/38 (2006.01) E04B 1/58 (2006.01) E04C 3/04 (2006.01)**
[25] FR
[54] **BEAM OR POST FOR A CONSTRUCTION SYSTEM**
[54] **POUTRE OU POTEAU D'UN SYSTEME DE CONSTRUCTION**
[72] HOFFMANN, ANDRE, CH
[72] USTINOV, IGOR, CH
[71] UHCS PROPERTY SA, CH
[85] 2024-04-19
[86] 2022-10-11 (PCT/IB2022/059732)
[87] (WO2023/067438)
[30] CH (CH070419/2021) 2021-10-20

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[13] A1
[51] **Int.Cl. A23D 9/007 (2006.01) A23L 11/30 (2016.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01) C11B 1/00 (2006.01) C11B 1/04 (2006.01) C11B 1/10 (2006.01)**
[25] EN
[54] **METHOD FOR EXTRACTING A LIPID-, A PROTEIN-, AND/OR A CARBOHYDRATE-CONTAINING COMPOSITION FROM OIL-RICH SEEDS**
[54] **PROCEDE D'EXTRACTION D'UNE COMPOSITION CONTENANT DES LIPIDES, DES PROTEINES ET/OU DES GLUCIDES A PARTIR DE GRAINES RICHES EN HUILE**
[72] ROMERO GUZMAN, MARIA JULIANA, NL
[72] NICCOLAI, ALBERTO, NL
[71] CANO-ELA B.V., NL
[85] 2024-04-19
[86] 2022-11-02 (PCT/EP2022/080584)
[87] (WO2023/078952)
[30] NL (2029591) 2021-11-02

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[13] A1
[51] **Int.Cl. E04C 5/16 (2006.01) E04G 21/32 (2006.01)**
[25] EN
[54] **PROTECTIVE COVERS**
[54] **CAPOTS DE PROTECTION**
[72] DUDHIA, SHIRAZ, GB
[71] DUDHIA, SHIRAZ, GB
[85] 2024-04-19
[86] 2022-10-17 (PCT/GB2022/052642)
[87] (WO2023/067320)
[30] GB (2114916.6) 2021-10-19

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[13] A1
[51] **Int.Cl. H04B 5/00 (2024.01)**
[25] EN
[54] **ELECTRICAL DEVICE WITH INDIRECT LIGHTNING PROTECTION, ATTITUDE AND HEADING REFERENCE SYSTEM, AND AIRCRAFT**
[54] **DISPOSITIF ELECTRIQUE AVEC PROTECTION INDIRECTE CONTRE LA FOUDRE, SYSTEME DE REFERENCE DE POSITION DE TRAJECTOIRE ET AERONEF**
[72] ZELLER, PETER, DE
[71] NORTHROP GRUMMAN LITEF GMBH, DE
[85] 2024-04-19
[86] 2022-09-15 (PCT/EP2022/075711)
[87] (WO2023/066575)
[30] DE (10 2021 127 228.9) 2021-10-20

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[51] **Int.Cl. H01J 37/244 (2006.01)**
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[54] **DETECTOR ASSEMBLY, CHARGED PARTICLE DEVICE, APPARATUS, AND METHODS**
[54] **ENSEMBLE DETECTEUR, DISPOSITIF A PARTICULES CHARGEES, APPAREIL ET PROCEDES**
[72] WIELAND, MARCO JAN-JACO, NL
[71] ASML NETHERLANDS B.V., NL
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[87] (WO2023/066595)
[30] EP (21203434.2) 2021-10-19
[30] EP (22159534.1) 2022-03-01

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[51] **Int.Cl. G16H 10/40 (2018.01) A61K 35/17 (2015.01) G16H 40/20 (2018.01) A61K 35/12 (2015.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COORDINATING MANUFACTURING OF CELLS FOR PATIENT-SPECIFIC IMMUNOTHERAPY**
[54] **SYSTEMES ET METHODES POUR COORDONNER LA FABRICATION DE CELLULES POUR L'IMMUNOTHERAPIE SPECIFIQUE D'UN PATIENT**
[72] VOGT, FREDERICK G., US
[72] LAM, BINH, US
[72] CHANG, JENNIFER, US
[72] REPACZKI-JONES, RAMONA, US
[71] IOVANCE BIOTHERAPEUTICS, INC., US
[85] 2024-04-19
[86] 2022-10-27 (PCT/US2022/078803)
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[30] US (63/272,660) 2021-10-27

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[51] **Int.Cl. E04B 1/98 (2006.01) E04H 9/02 (2006.01) F16F 7/12 (2006.01)**
[25] EN
[54] **DEVICES AND SYSTEMS FOR DISPLACEMENT CONTROL IN SEISMIC BRACES**
[54] **DISPOSITIFS ET SYSTEMES DE COMMANDE DE DEPLACEMENT DANS DES BARRES DE CONTREVENTEMENT SISMIQUES**
[72] ROBINSON, KIMBERLEY S., US
[71] ROBINSON, KIMBERLEY S., US
[85] 2024-04-19
[86] 2022-10-19 (PCT/US2022/047145)
[87] (WO2023/069528)
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[25] EN
[54] **GENOME EDITING COMPOSITIONS AND METHODS FOR TREATMENT OF USHER SYNDROME TYPE 3**
[54] **COMPOSITIONS D'EDITION DE GENOME ET METHODES DE TRAITEMENT DU SYNDROME D'USHER DE TYPE 3**
[72] YEH, WEI HSI, US
[71] PRIME MEDICINE, INC., US
[85] 2024-04-19
[86] 2022-10-20 (PCT/US2022/078473)
[87] (WO2023/070062)
[30] US (63/270,368) 2021-10-21

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[51] **Int.Cl. C12N 15/113 (2010.01) C12N 9/22 (2006.01) C12N 15/11 (2006.01)**
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[54] **GENOME EDITING COMPOSITIONS AND METHODS FOR TREATMENT OF RETINITIS PIGMENTOSA**
[54] **COMPOSITIONS D'EDITION GENOMIQUE ET METHODES DE TRAITEMENT DE LA RETINITE PIGMENTAIRE**
[72] YEH, WEI HSI, US
[71] PRIME MEDICINE, INC., US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/078552)
[87] (WO2023/070110)
[30] US (63/270,308) 2021-10-21

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[54] **GENOTYPING METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES DE GENOTYPAGE**
[72] OSTROW, ANDREW, US
[72] BARNES, BRET, US
[72] NGUYEN, THU, US
[72] SHANNON, KAREN, US
[72] DAVIS, CAREY, US
[72] CHIN, BRIAN, US
[72] HANSON, SARAH, US
[71] ILLUMINA, INC., US
[85] 2024-04-19
[86] 2021-10-22 (PCT/US2021/056305)
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[51] **Int.Cl. A61B 3/00 (2006.01) A61B 3/15 (2006.01) A61B 3/16 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **ALIGNMENT SYSTEM FOR OPHTHALMIC INSTRUMENT**
[54] **SYSTEME D'ALIGNEMENT POUR INSTRUMENT OPHTALMIQUE**
[72] CLARKE, ROGER BRIAN MINCHIN, GB
[72] HAMLYN, WILL, GB
[72] LINTERN, RICHARD, GB
[72] RICHARDSON, JAMES, GB
[72] JESSEL, KARL, GB
[71] COOPERVISION INTERNATIONAL LIMITED, GB
[85] 2024-04-19
[86] 2022-10-25 (PCT/GB2022/052710)
[87] (WO2023/073355)
[30] US (63/272,827) 2021-10-28

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[51] **Int.Cl. G01N 33/50 (2006.01) G01N 1/18 (2006.01) G01N 33/487 (2006.01)**
[25] EN
[54] **DEVICE FOR DETECTING ANALYTE IN FLUID SAMPLE**
[54] **DISPOSITIF DE DETECTION D'ANALYTE DANS UN ECHANTILLON DE FLUIDE**
[72] BAILEY, TODD, US
[72] HONG, LIANG, CN
[71] PREMIER BIOTECH, LLC., US
[85] 2024-04-19
[86] 2022-10-18 (PCT/IB2022/060013)
[87] (WO2023/067507)
[30] CN (202111226003.3) 2021-10-21
[30] US (63/270,178) 2021-10-21

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[51] **Int.Cl. F24H 3/04 (2022.01) H05B 3/12 (2006.01)**
[25] EN
[54] **GAS HEATER**
[54] **DISPOSITIF DE CHAUFFAGE DE GAZ**
[72] AROLD, JONATHAN BRUCE, US
[71] TUTCO, LLC, US
[85] 2024-04-19
[86] 2022-11-17 (PCT/US2022/080016)
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[30] US (63/264,210) 2021-11-17
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[51] **Int.Cl. A61K 39/125 (2006.01) C07K 14/085 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **NOROVIRUS VACCINE AND METHODS OF USE**
[54] **VACCIN CONTRE UN NOROVIRUS ET METHODES D'UTILISATION**
[72] ATOCHINA-VASSERMAN, ELENA, US
[72] WEISSMAN, DREW, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2024-04-19
[86] 2022-10-27 (PCT/US2022/078753)
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[13] A1
[51] **Int.Cl. A61K 31/46 (2006.01) C07D 209/00 (2006.01) C07D 451/04 (2006.01)**
[25] EN
[54] **A METHOD FOR THE PREPARATION OF INDOLE-3-CARBOXYLIC ACID DERIVATIVES**
[54] **PROCEDE DE PREPARATION DE DERIVES D'ACIDE INDOLE-3-CARBOXYLIQUE**
[72] DEB, INDUBHUSAN, IN
[72] BHOWMIK, ARUP, IN
[71] COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGN. OF SOC. ACT (ACT XXI OF 1860), IN
[85] 2024-04-19
[86] 2022-10-20 (PCT/IN2022/050940)
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[30] IN (202111047806) 2021-10-20

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[51] **Int.Cl. G01S 7/521 (2006.01) G01B 17/02 (2006.01) G21C 17/017 (2006.01)**
[25] EN
[54] **ULTRASONIC DEVICE AND METHOD**
[54] **DISPOSITIF A ULTRASONS ET PROCEDE ASSOCIE**
[72] DEKKER, ROBERT ANDREW, CA
[72] MARTIN, ROBERT JEFFREY, CA
[72] WEST, MITCHEL LUCAS, CA
[71] BWXT CANADA LTD., CA
[85] 2024-04-19
[86] 2022-10-21 (PCT/IB2022/000640)
[87] (WO2023/067393)
[30] US (63/270,286) 2021-10-21

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[13] A1
[51] **Int.Cl. G16H 30/20 (2018.01) G16H 10/60 (2018.01) G16H 40/60 (2018.01)**
[25] EN
[54] **MEDICAL IMAGING UPGRADES PROVIDING IMPROVED DATA QUALITY AND ACCESSIBILITY**
[54] **MISES A NIVEAU D'IMAGERIE MEDICALE PERMETTANT D'AMELIORER LA QUALITE ET L'ACCESSIBILITE DES DONNEES**
[72] URNESS, MARK, US
[72] GUENTHER, DRAKE, US
[72] ROSS, MICHAEL, US
[71] EXO IMAGING, INC., US
[85] 2024-04-19
[86] 2021-10-20 (PCT/US2021/055890)
[87] (WO2023/069093)

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[51] **Int.Cl. C01B 3/04 (2006.01) C01B 3/50 (2006.01)**
[25] EN
[54] **A HYDROGEN GENERATION DEVICE**
[54] **UN DISPOSITIF DE GENERATION D'HYDROGENE**
[72] ROCA ENRICH, SALVADOR, ES
[71] HIDROGMAR ROS ROCA SLU, ES
[85] 2024-04-19
[86] 2022-10-18 (PCT/ES2022/070657)
[87] (WO2023/067217)
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[51] **Int.Cl. A61B 5/346 (2021.01) G16H 50/20 (2018.01) A61B 5/349 (2021.01) A61B 5/355 (2021.01) A61B 5/358 (2021.01) A61B 5/366 (2021.01) G06N 7/02 (2006.01)**
[25] EN
[54] **EARLY DETECTION OF A HEART ATTACK BASED ON ELECTROCARDIOGRAPHY AND CLINICAL SYMPTOMS**
[54] **DETECTION PRECOCE D'UNE ATTAQUE CARDIAQUE SUR LA BASE D'ELECTROCARDIOGRAPHIE ET DE SYMPTOMES CLINIQUES**
[72] ESHRAGHI, ELHAM, CA
[72] ATYABI, SEYYED ABBAS, IR
[72] NIKNAMI, MOHAMMAD ALI, IR
[72] NIKNAMI, MARYAM, IR
[72] MALEKI, AFSANEH, IR
[72] NIKNAMI, PAYAM, IR
[72] NIKNAMI, PARNIA, IR
[72] RAHIMPOUR, REYHANE, IR
[71] ESHRAGHI, ELHAM, CA
[71] ATYABI, SEYYED ABBAS, IR
[71] NIKNAMI, MOHAMMAD ALI, IR
[71] NIKNAMI, MARYAM, IR
[71] MALEKI, AFSANEH, IR
[71] NIKNAMI, PAYAM, IR
[71] NIKNAMI, PARNIA, IR
[71] RAHIMPOUR, REYHANE, IR
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[86] 2022-10-24 (PCT/CA2022/051568)
[87] (WO2023/065051)
[30] US (63/271,193) 2021-10-24

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[51] **Int.Cl. G01H 9/00 (2006.01) G01V 1/00 (2024.01)**
[25] EN
[54] **DETECTING SEISMIC EVENTS USING MULTISPAN SIGNALS**
[54] **DETECTION D'EVENEMENTS SISMIQUES A L'AIDE DE SIGNAUX A PORTEE MULTIPLE**
[72] GONCHARUK, ARTEM, US
[72] SMITH, KEVIN FORSYTHE, US
[72] KAMALOV, VALEY, US
[72] CANTONO, MATTIA, US
[72] MULLER, RAFAEL, CA
[71] X DEVELOPMENT LLC, US
[85] 2024-04-22
[86] 2022-10-20 (PCT/US2022/047227)
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[30] US (63/257,866) 2021-10-20

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[13] A1
[51] **Int.Cl. H02K 11/22 (2016.01) H02K 11/33 (2016.01) H02K 21/12 (2006.01) H02K 29/10 (2006.01) H02K 53/00 (2006.01) H02P 6/14 (2016.01)**
[25] EN
[54] **APPARATUS FOR OPERATING SIMULTANEOUSLY AS DC (DIRECT CURRENT) MOTOR AND DC GENERATOR**
[54] **APPAREIL FONCTIONNANT EN ALTERNANCE COMME MOTEUR A COURANT CONTINU ET GENERATEUR A COURANT CONTINU**
[72] GOO, JEI HYUN, KR
[71] GOO, JEI HYUN, KR
[85] 2024-04-22
[86] 2022-06-27 (PCT/KR2022/009089)
[87] (WO2023/075073)
[30] KR (10-2021-0144053) 2021-10-26

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[13] A1
[51] **Int.Cl. G06F 21/84 (2013.01) G06F 21/32 (2013.01) G06F 21/45 (2013.01) G06V 40/16 (2022.01) G06V 40/20 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTINUOUS PRIVACY-PRESERVING FACIAL-BASED AUTHENTICATION AND FEEDBACK**
[54] **SYSTEME ET PROCEDE D'AUTHENTIFICATION ET DE RETROACTION BASEE SUR LE VISAGE PRESERVANT LA CONFIDENTIALITE CONTINUE**
[72] SCHEI, NIMA, US
[72] TABKHIVAYGHAN, HAMED, US
[72] FOROUGHI, EHSAN, US
[72] PABON CORREA, DAVID ALEJANDRO, US
[71] HUMMINGBIRDS AI INC, US
[85] 2024-04-22
[86] 2022-10-21 (PCT/US2022/047436)
[87] (WO2023/069719)
[30] US (63/271,140) 2021-10-23

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[51] **Int.Cl. A61L 2/03 (2006.01)**
[25] EN
[54] **ELECTRIC FIELD STERILIZER FOR PATHOGENS**
[54] **STERILISATEUR A CHAMP ELECTRIQUE POUR AGENTS PATHOGENES**
[72] MALBOEUF JOSET, MATHIEU LUDOVIC, CA
[72] PIASKOWSKI, ANDREW, CA
[72] AHDOOT, ELIOT, CA
[72] AHDOOT, ROBERT, CA
[71] HYPERTEC SYSTEMES INC., CA
[85] 2024-04-12
[86] 2022-10-17 (PCT/CA2022/051526)
[87] (WO2023/060366)
[30] US (63/256,358) 2021-10-15

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[13] A1
[51] **Int.Cl. H04B 7/185 (2006.01) H04B 17/21 (2015.01)**
[25] EN
[54] **TECHNIQUES FOR CALIBRATION AND MEASUREMENTS OF AN E-BAND SATELLITE COMMUNICATION (SATCOM) SYSTEM**
[54] **TECHNIQUES D'ETALONNAGE ET DE MESURES D'UN SYSTEME DE COMMUNICATION PAR SATELLITE A BANDE E (SATCOM)**
[72] MORRAR, SAM, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2024-04-22
[86] 2022-10-21 (PCT/US2022/047412)
[87] (WO2023/069702)
[30] US (63/270,973) 2021-10-22
[30] US (17/522,805) 2021-11-09

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[13] A1
[51] **Int.Cl. C11D 9/00 (2006.01) C11D 9/02 (2006.01) C11D 9/22 (2006.01) C11D 9/44 (2006.01) C11D 13/00 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **LOW-WATER COMPOSITIONS**
[54] **COMPOSITIONS A FAIBLE TENEUR EN EAU**
[72] LYNCH, MATTHEW LAWRENCE, US
[72] ILLIE, BRANDON PHILIP, US
[72] WILLIAMS, KRISTIN RHEDRICK, US
[72] MCCULLOUGH, JOCELYN MICHELLE, US
[72] SMETS, JOHAN, BE
[72] IBERI, VIGHTER, US
[72] HUFFORD, KAREN DIANA, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-22
[86] 2023-08-08 (PCT/US2023/071805)
[87] (WO2024/036119)
[30] US (63/397,405) 2022-08-12

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[13] A1
[51] **Int.Cl. B65G 59/00 (2006.01) B65G 61/00 (2006.01)**
[25] EN
[54] **SLIP SHEET REMOVAL APPARATUS**
[54] **APPAREIL D'ELIMINATION D'INTERCALAIRE DE PALETTISATION**
[72] MORENCY, SYLVAIN-PAUL, CA
[72] BEAUDOIN, LOUIS-PHILIPPE, CA
[72] BRECHER, MATT, CA
[72] SIMON, CHRISTIAN, CA
[72] MELLAL, SALAH, CA
[72] RAMIREZ, RENE ALEXANDER VIDES, CA
[72] AMBEAULT, PHILLIPPE, CA
[72] LEMELIN, GUILLAUME, CA
[72] LEGARE, WILLIAM, CA
[71] SYMBOTIC CANADA, ULC, CA
[85] 2024-04-22
[86] 2022-10-21 (PCT/CA2022/051555)
[87] (WO2023/065041)
[30] US (63/270,765) 2021-10-22
[30] US (18/047,918) 2022-10-19

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[13] A1
[51] **Int.Cl. C11D 13/00 (2006.01) C11D 9/00 (2006.01) C11D 9/02 (2006.01) C11D 9/44 (2006.01)**
[25] EN
[54] **SOLID DISSOLVABLE COMPOSITIONS**
[54] **COMPOSITIONS SOLUBLES SOLIDES**
[72] LYNCH, MATTHEW LAWRENCE, US
[72] ILLIE, BRANDON PHILIP, US
[72] WILLIAMS, KRISTIN RHEDRICK, US
[72] MCCULLOUGH, JOCELYN MICHELLE, US
[72] DRIA, JAMIE LYNN, US
[72] VERSTRAETE, PIERRE DANIEL, BE
[72] BARROS, ANDRE MARTIM, BE
[72] CARDOSO, MARIANA B. T., BE
[72] SMETS, JOHAN, BE
[72] IBERI, VIGHTER, US
[72] HUFFORD, KAREN DIANA, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-22
[86] 2023-08-08 (PCT/US2023/071806)
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[13] A1
[51] **Int.Cl. B60L 53/51 (2019.01) H02S 10/10 (2014.01) H02S 10/20 (2014.01) H01M 10/46 (2006.01)**
[25] EN
[54] **INTEGRATED POWER DISTRIBUTION UTILITY PANEL**
[54] **PANNEAU INTEGRE D'INSTALLATION DE DISTRIBUTION D'ENERGIE**
[72] BOUCHER, RANDALL, US
[72] KUEHN, JUSTIN F., US
[72] SWAMINATHAN, BALAJI, US
[71] FRANKLIN FUELING SYSTEMS, LLC, US
[71] BOUCHER, RANDALL, US
[71] KUEHN, JUSTIN F., US
[71] SWAMINATHAN, BALAJI, US
[85] 2024-04-22
[86] 2022-10-20 (PCT/US2022/078460)
[87] (WO2023/070052)
[30] US (63/257,790) 2021-10-20
[30] US (63/277,687) 2021-11-10
[30] US (63/394,478) 2022-08-02

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[13] A1
[51] **Int.Cl. A61F 2/14 (2006.01) B29C 33/52 (2006.01) B29D 11/00 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEMS, AND METHODS OF FORMING OPHTHALMIC LENS COMPONENTS WITH SOLUBLE CORES AND MOLDS**
[54] **APPAREIL, SYSTEMES ET PROCEDES DE FORMATION DE COMPOSANTS DE LENTILLE OPHTALMIQUE AVEC DES NOYAUX ET DES MOULES SOLUBLES**
[72] WALZ, ANDREW R., US
[72] HAJELA, SHARAD, US
[72] MATTHEWS, GREGORY VINTON, US
[71] ALCON INC., CH
[85] 2024-04-22
[86] 2022-12-16 (PCT/US2022/081756)
[87] (WO2023/122490)
[30] US (63/265,735) 2021-12-20

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[13] A1
[51] **Int.Cl. A61K 35/36 (2015.01)**
[25] EN
[54] **METHODS FOR MAKING EXTRACELLULAR VESICLES, AND COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **PROCEDES DE FABRICATION DE VESICULES EXTRACELLULAIRES, ET COMPOSITIONS ET PROCEDES D'UTILISATION DE CELLES-CI**
[72] OCHIYA, TAKAHIRO, JP
[71] EVIA LIFE SCIENCES INC., US
[85] 2024-04-22
[86] 2022-10-24 (PCT/IB2022/000656)
[87] (WO2023/067394)
[30] US (63/270,875) 2021-10-22
[30] US (63/333,854) 2022-04-22

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[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) C07K 14/165 (2006.01) C12N 15/867 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THERAPEUTIC OR VACCINE DELIVERY**
[54] **COMPOSITIONS ET METHODES D'ADMINISTRATION THERAPEUTIQUE OU VACCINALE**
[72] FISCHER-LOUGHEED, JACQUELINE, US
[72] STEELE, BRADFORD H., US
[72] ROH, CECILIA, US
[72] JOHNSON, ROBERT G., US
[71] GENVIVO, INC., US
[85] 2024-04-22
[86] 2022-10-24 (PCT/US2022/047599)
[87] (WO2023/076180)
[30] US (63/271,675) 2021-10-25
[30] US (63/413,188) 2022-10-04

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[13] A1
[51] **Int.Cl. A61K 9/127 (2006.01) A61K 9/19 (2006.01) A61K 38/00 (2006.01)**
[25] EN
[54] **MRNA VACCINE COMPOSITION**
[54] **COMPOSITION DE VACCIN A BASE D'ARNM**
[72] MOSAHEB, MUNIR, US
[72] PATEL, SIDDHARTH, US
[72] ARAFA, EMAD, US
[72] BOGORAD, ROMAN, US
[71] SAIL BIOMEDICINES, INC., US
[85] 2024-04-22
[86] 2022-10-19 (PCT/US2022/047107)
[87] (WO2023/069498)
[30] US (63/270,964) 2021-10-22
[30] US (63/290,889) 2021-12-17
[30] US (63/320,647) 2022-03-16

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[13] A1
[51] **Int.Cl. A61F 2/16 (2006.01)**
[25] EN
[54] **ACHROMATIC IOL WITH MULTIPLE LAYERS OF DIFFRACTIVE OPTICS**
[54] **LIO ACHROMATIQUE A COUCHES MULTIPLES D'OPTIQUE DIFFRACTIVE**
[72] LEE, SHINWOOK, US
[72] HONG, XIN, US
[72] CHOI, MYOUNG-TAEK, US
[72] XU, ZHIGUANG, US
[71] ALCON INC., CH
[85] 2024-04-22
[86] 2022-11-15 (PCT/IB2022/061000)
[87] (WO2023/100009)
[30] US (63/284,318) 2021-11-30

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[13] A1
[51] **Int.Cl. C12Q 1/6895 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6844 (2018.01) C07H 21/04 (2006.01)**
[25] EN
[54] **METHODS FOR GENETIC ANALYSIS OF TEXTILES COMPRISING G. BARBADENSE**
[54] **PROCEDES D'ANALYSE GENETIQUE DE TEXTILES COMPRENANT DU G. BARBADENSE**
[72] DONG, LING, US
[71] APPLIED DNA SCIENCES, INC., US
[85] 2024-04-22
[86] 2022-10-21 (PCT/US2022/047411)
[87] (WO2023/069701)
[30] US (63/270,346) 2021-10-21

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[13] A1
[51] **Int.Cl. A61F 9/008 (2006.01)**
[25] EN
[54] **OPTICAL FIBER CONNECTOR AND ADAPTER**
[54] **CONNECTEUR ET ADAPTATEUR DE FIBRE OPTIQUE**
[72] FARLEY, MARK HARRISON, US
[72] DIAO, CHENGUANG, US
[72] HOPKINS, MARK A., US
[72] MIRSEPASSI, ALIREZA, US
[72] RYAN, TIMOTHY C., US
[72] SMITH, RONALD T., US
[72] TERENZIO, DENNIS MARTIN, US
[71] ALCON INC., CH
[85] 2024-04-22
[86] 2022-12-07 (PCT/IB2022/061891)
[87] (WO2023/105444)
[30] US (63/265,159) 2021-12-09

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[13] A1
[51] **Int.Cl. C07D 417/06 (2006.01) A61P 3/00 (2006.01) A61P 3/10 (2006.01) A61P 19/02 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 31/12 (2006.01) A61P 31/16 (2006.01) A61P 31/18 (2006.01) A61P 31/22 (2006.01) A61P 33/00 (2006.01) A61P 35/00 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **IMIDAZOLONE DERIVATIVES AS INHIBITORS OF PROTEIN KINASES IN PARTICULAR DYRK1A, CLK1 AND/OR CLK4**
[54] **DERIVES D'IMIDAZOLONE UTILISES EN TANT QU'INHIBITEURS DE PROTEINES KINASES, EN PARTICULIER DYRK1A, CLK1 ET/OU CLK4**
[72] DEAU, EMMANUEL, FR
[72] GEORGE, PASCAL, FR
[72] MEIJER, LAURENT, FR
[72] MIEGE, FREDERIC, FR
[71] PERHA PHARMACEUTICALS, FR
[85] 2024-04-22
[86] 2022-10-25 (PCT/EP2022/079832)
[87] (WO2023/072961)
[30] EP (21306490.0) 2021-10-26

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[13] A1
[51] **Int.Cl. C05B 7/00 (2006.01) C05G 5/12 (2020.01) C05B 9/00 (2006.01) C05B 17/00 (2006.01) C05B 21/00 (2006.01)**
[25] EN
[54] **INTERMEDIATE-RELEASE FERTILIZERS AND METHODS FOR MAKING SAME**
[54] **ENGRAIS A LIBERATION INTERMEDIAIRE ET LEURS PROCEDES DE FABRICATION**
[72] BRITTON, AHREN, CA
[72] VERIGIN, MIKAELA, CA
[72] LEATHERWOOD, ROLAND, CA
[72] SATHYANARAYANA, RAM PRASAD MELAHALLI, CA
[71] OSTARA NUTRIENT RECOVERY TECHNOLOGIES INC., CA
[85] 2024-04-12
[86] 2022-10-18 (PCT/CA2022/051536)
[87] (WO2023/065025)
[30] US (63/262,968) 2021-10-23

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[13] A1
[51] **Int.Cl. H01M 10/04 (2006.01) H01M 50/531 (2021.01) H01M 50/538 (2021.01) H01M 50/586 (2021.01) H01M 50/593 (2021.01)**
[25] EN
[54] **CYLINDRICAL BATTERY, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **BATTERIE CYLINDRIQUE, AINSI QUE BATTERIE ET VEHICULE LA COMPRENANT**
[72] PARK, JONG-SIK, KR
[72] JO, MIN-KI, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-22
[86] 2022-10-21 (PCT/KR2022/016201)
[87] (WO2023/068891)
[30] KR (10-2021-0142186) 2021-10-22

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[13] A1
[51] **Int.Cl. G01R 33/00 (2006.01) G06F 30/20 (2020.01) G06F 30/3308 (2020.01) G06F 30/39 (2020.01) G06N 10/20 (2022.01) G06N 10/40 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ANALOGUE QUANTUM COMPUTING**
[54] **PROCEDES ET SYSTEMES DE CALCUL QUANTIQUE ANALOGIQUE**
[72] GORMAN, SAMUEL KEITH, AU
[72] SIMMONS, MICHELLE YVONNE, AU
[72] KEIZER, JORIS, AU
[72] GENG, HELEN, AU
[72] CHUNG, YOUSUN, AU
[72] DONNELLY, MATTHEW, AU
[72] KICZYNSKI, MITCHELL, AU
[72] MYERS, CASEY, AU
[72] SUTHERLAND, SAM, AU
[71] SILICON QUANTUM COMPUTING PTY LIMITED, AU
[85] 2024-04-22
[86] 2022-10-24 (PCT/AU2022/051275)
[87] (WO2023/064999)
[30] AU (2021903398) 2021-10-24
[30] AU (2022901715) 2022-06-22

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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] **PHARMACEUTICAL FORMULATION COMPRISING ANTI-OX40 MONOCLONAL ANTIBODY**
[54] **FORMULATION PHARMACEUTIQUE COMPRENANT UN ANTICORPS MONOCLONAL ANTI-OX40**
[72] SUN, QIANG, CN
[72] JIN, XIONGHUA, CN
[72] FAN, PENGCHENG, CN
[72] XU, ZHIHAO, CN
[71] INMAGENE PTE. LTD., SG
[85] 2024-04-12
[86] 2022-10-13 (PCT/CN2022/125017)
[87] (WO2023/061424)
[30] CN (PCT/CN2021/124200) 2021-10-15
[30] CN (PCT/CN2022/118065) 2022-09-09

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[13] A1
[51] **Int.Cl. E05B 37/16 (2006.01)**
[25] EN
[54] **A LOCK**
[54] **VERROU**
[72] WILLIAMS, ROBERT, GB
[72] OGDEN, DAVID LEE, GB
[71] SUPRA (UK) LIMITED, GB
[85] 2024-04-22
[86] 2022-10-19 (PCT/GB2022/052673)
[87] (WO2023/067341)
[30] GB (2115283.0) 2021-10-23

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[13] A1
[51] **Int.Cl. A42B 3/06 (2006.01) A42B 3/12 (2006.01) A42B 3/14 (2006.01)**
[25] EN
[54] **SAFETY HELMET**
[54] **CASQUE DE SECURITE**
[72] BENNETT, DAVID WINSTON AIKEN, NZ
[72] HUGHES, JUSTIN RICHARD, NZ
[72] MILSOM, SAMUEL, NZ
[71] PACIFIC HELMETS NZ LIMITED, NZ
[85] 2024-04-22
[86] 2022-10-21 (PCT/IB2022/060120)
[87] (WO2023/067559)
[30] NZ (781540) 2021-10-21
[30] NZ (784306) 2022-01-14

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[13] A1
[51] **Int.Cl. A47J 36/32 (2006.01)**
[25] EN
[54] **ELECTRONIC MODULE FOR AT LEAST ONE KITCHEN APPLIANCE, PREFERABLY COOKWA RE**
[54] **MODULE ELECTRONIQUE POUR AU MOINS UN APPAREIL DE CUISINE, DE PREFERENCE UN USTENSILE DE CUISSON**
[72] MADER, SEBASTIAN, DE
[72] DEVRIENDT, BERNARD, DE
[72] WILLAERTS, KENNETH, DE
[71] ZWILLING J. A. HENCKELS AG, DE
[85] 2024-04-12
[86] 2022-10-13 (PCT/EP2022/078485)
[87] (WO2023/062119)
[30] DE (10 2021 126 811.7) 2021-10-15

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[13] A1
[51] **Int.Cl. C08L 97/00 (2006.01) C08L 23/06 (2006.01) C08L 23/12 (2006.01) C08L 55/02 (2006.01)**
[25] EN
[54] **A RECYCLABLE THERMOPLASTIC COMPOSITION**
[54] **COMPOSITION THERMOPLASTIQUE RECYCLABLE**
[72] GALL, BARBARA, FI
[72] DIEHL, FLORIAN, FI
[71] UPM-KYMMENE CORPORATION, FI
[85] 2024-04-12
[86] 2021-10-21 (PCT/FI2021/050704)
[87] (WO2023/067236)

[21] **3,235,888**
[13] A1
[51] **Int.Cl. C08L 97/00 (2006.01) C08L 23/06 (2006.01) C08L 23/12 (2006.01) C08L 29/04 (2006.01) C08L 55/02 (2006.01)**
[25] EN
[54] **A RECYCLABLE AND SORTABLE THERMOPLASTIC COMPOSITION**
[54] **COMPOSITION THERMOPLASTIQUE POUVANT ETRE RECYCLEE ET TRIEE**
[72] GALL, BARBARA, FI
[72] DIEHL, FLORIAN, FI
[71] UPM-KYMMENE CORPORATION, FI
[85] 2024-04-12
[86] 2021-10-21 (PCT/FI2021/050705)
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[13] A1
[51] **Int.Cl. A01H 6/54 (2018.01) C12N 15/82 (2006.01)**
[25] EN
[54] **TRANSCRIPTION REGULATING NUCLEOTIDE SEQUENCES AND METHODS OF USE**
[54] **SEQUENCES NUCLEOTIDIQUES REGULANT LA TRANSCRIPTION ET METHODES D'UTILISATION**
[72] DAVIS, ERIN MARIE, US
[72] MARTSCHAT, SEBASTIAN HERMANN, DE
[72] VOGEL, JONATHAN T., US
[72] CAMERON, HUNTER JAMES, US
[72] SHI, ZHIXIN, US
[71] BASF AGRICULTURAL SOLUTIONS SEED US LLC, US
[85] 2024-04-22
[86] 2022-10-27 (PCT/US2022/078751)
[87] (WO2023/076975)
[30] US (63/272,492) 2021-10-27

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[13] A1
[51] **Int.Cl. C08L 97/00 (2006.01) C08L 23/12 (2006.01) C08L 25/06 (2006.01)**
[25] EN
[54] **A BURNING-RESISTANT THERMOPLASTIC COMPOSITION**
[54] **COMPOSITION THERMOPLASTIQUE RESISTANTE A LA COMBUSTION**
[72] GALL, BARBARA, FI
[72] DIEHL, FLORIAN, FI
[72] MIETTINEN, MAUNO, FI
[71] UPM-KYMMENE CORPORATION, FI
[85] 2024-04-12
[86] 2021-10-21 (PCT/FI2021/050706)
[87] (WO2023/067238)

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[13] A1
[51] **Int.Cl. B01F 23/231 (2022.01) B01F 23/2373 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING BUBBLES IN A VESSEL**
[54] **SYSTEME ET PROCEDE DE GENERATION DE BULLES DANS UN RECIPIENT**
[72] BRENC, RACHEL JANE, US
[72] CONRADO, ROBERT JOHN, US
[72] COOMBES, JOSS ANTON, US
[72] EBRAHIMIAQDA, ELHAM, US
[72] GAO, ALLAN HAIMING, US
[72] HORTON, BRIAN NELSON, US
[72] LI, XUELIANG, US
[72] SATHE, MAYUR, US
[72] STUDEBAKER, CURTIS PAUL, US
[71] LANZATECH, INC., US
[85] 2024-04-22
[86] 2022-10-31 (PCT/US2022/078967)
[87] (WO2023/081615)
[30] US (17/453,476) 2021-11-03

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[13] A1
[51] **Int.Cl. H02J 3/24 (2006.01) H02J 3/32 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **METHODS FOR OPERATING BATTERY FREQUENCY RESPONSE**
[54] **PROCEDES DE FONCTIONNEMENT DE REPONSE DE FREQUENCE DE BATTERIE**
[72] MESSER, NATHAN, GB
[71] KRAKEN TECHNOLOGIES LIMITED, GB
[85] 2024-04-12
[86] 2022-10-13 (PCT/GB2022/052608)
[87] (WO2023/062376)
[30] GB (2114660.0) 2021-10-13

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[13] A1
[51] **Int.Cl. H01M 10/04 (2006.01) H01M 50/533 (2021.01) H01M 50/538 (2021.01)**
[25] EN
[54] **ELECTRODE ASSEMBLY, BATTERY, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME**
[54] **ASSEMBLAGE D'ELECTRODE, BATTERIE ET BLOC-BATTERIE ET VEHICULE LES COMPRENANT**
[72] LIM, HAE-JIN, KR
[72] KONG, JIN-HAK, KR
[72] LEE, SOON-O, KR
[72] CHOI, KYU-HYUN, KR
[72] KIM, DO-GYUN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-22
[86] 2022-07-19 (PCT/KR2022/010559)
[87] (WO2023/068494)
[30] KR (10-2021-0142196) 2021-10-22
[30] KR (10-2022-0002970) 2022-01-07

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[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) A61K 38/20 (2006.01) A61P 35/00 (2006.01) C07K 14/54 (2006.01) C12N 15/867 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THERAPEUTIC DELIVERY**
[54] **COMPOSITIONS ET METHODES D'ADMINISTRATION THERAPEUTIQUE**
[72] CHUNG, BRILE, US
[72] ROH, CECILIA, US
[72] JOHNSON, ROBERT G., US
[71] GENVIVO, INC., US
[85] 2024-04-22
[86] 2022-10-24 (PCT/US2022/047596)
[87] (WO2023/076177)
[30] US (63/271,674) 2021-10-25
[30] US (63/413,165) 2022-10-04

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[13] A1
[51] **Int.Cl. H04L 67/1008 (2022.01)**
[25] EN
[54] **PEER SELECTION FOR DATA DISTRIBUTION IN A MESH NETWORK**
[54] **SELECTION D'HOMOLOGUE A DES FINS DE DISTRIBUTION DE DONNEES DANS UN RESEAU MAILLE**
[72] JAMIL, IMAD, US
[72] BARTIER, JEROME, US
[72] MONIER, FABRICE, US
[72] DE VALS, SAMUEL, US
[71] ITRON, INC, US
[85] 2024-04-12
[86] 2022-11-10 (PCT/US2022/049572)
[87] (WO2023/086487)
[30] US (17/527,070) 2021-11-15

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[13] A1
[51] **Int.Cl. H04W 48/00 (2009.01) H04W 28/18 (2009.01) H04W 48/10 (2009.01) H04W 72/02 (2009.01) H04W 28/02 (2009.01) H04W 72/12 (2023.01) H04W 84/18 (2009.01) H04W 88/08 (2009.01)**
[25] EN
[54] **TIME-MULTIPLEXING OF MULTIPLE LISTENING SCHEDULES AND PHYSICAL LAYER MODES IN A MESH NETWORK**
[54] **MULTIPLEXAGE TEMPOREL DE MULTIPLES PROGRAMMES D'ECOUTE ET MODES DE COUCHE PHYSIQUE DANS UN RESEAU MAILLE**
[72] MONIER, FABRICE, US
[72] BARTIER, JEROME, US
[72] KHALED, YACINE, US
[72] JAMIL, IMAD, US
[72] MAALLEM, KHALID, US
[72] DE VALS, SAMUEL, US
[71] ITRON, INC, US
[85] 2024-04-12
[86] 2022-11-10 (PCT/US2022/049578)
[87] (WO2023/086492)
[30] US (17/527,051) 2021-11-15

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[13] A1
[51] **Int.Cl. A01N 25/34 (2006.01) A01N 33/12 (2006.01) A01N 37/02 (2006.01) A01N 37/04 (2006.01) A01N 37/08 (2006.01) A01N 37/10 (2006.01) A01P 1/00 (2006.01)**
[25] EN
[54] **NO RINSE QUATERNARY AMMONIUM DISINFECTANT COMPOSITION FOR FOOD CONTACT SURFACES**
[54] **COMPOSITION DESINFECTANTE A BASE D'AMMONIUM QUATERNAIRE SANS RINCAGE POUR SURFACES EN CONTACT AVEC DES DENREES ALIMENTAIRES**
[72] ANDERSON, DERRICK, US
[72] RIGHTMIRE, KELLY ANNE, US
[72] OLSON, ERIK C., US
[71] ECOLAB USA INC., US
[85] 2024-04-22
[86] 2022-10-31 (PCT/US2022/048411)
[87] (WO2023/076669)
[30] US (63/263,293) 2021-10-29

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[13] A1
[51] **Int.Cl. C07F 9/6558 (2006.01) A61P 31/12 (2006.01)**
[25] EN
[54] **PRODRUGS OF L-BHDU AND METHODS OF TREATING VIRAL INFECTIONS**
[54] **PROMEDICAMENTS DE L-BHDU ET PROCEDES DE TRAITEMENT D'INFECTIONS VIRALES**
[72] SINGH, UMA SHARAN, US
[72] CHU, CHUNG K., US
[71] UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC., US
[71] ANTEROGEN CO. LTD, KR
[85] 2024-04-22
[86] 2022-10-28 (PCT/US2022/048241)
[87] (WO2023/076611)
[30] US (63/273,403) 2021-10-29

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[13] A1
[51] **Int.Cl. E04B 1/61 (2006.01) E04B 5/10 (2006.01) E04B 5/12 (2006.01) E04B 5/26 (2006.01) E04B 5/23 (2006.01)**
[25] EN
[54] **WOOD-CONCRETE COMPOSITE SLAB HAVING A PLANAR WOOD ELEMENT, METHOD FOR PRODUCTION OF SAME, AND CONSTRUCTIONS HAVING SUCH A WOOD-CONCRETE COMPOSITE SLAB**
[54] **PLANCHER COMPOSITE EN BOIS-BETON COMPRENANT UN ELEMENT EN BOIS PLAT, SON PROCEDE DE FABRICATION AINSI QUE CONSTRUCTIONS COMPRENANT LEDIT PLANCHER COMPOSITE EN BOIS-BETON**
[72] KUNDIG, CHRISTIAN, CH
[72] KREIS, BENJAMIN, CH
[72] KUBLER, WOLFRAM, CH
[71] IMPLENIA SCHWEIZ AG, CH
[71] WALTGALMARINI AG, CH
[85] 2024-04-17
[86] 2022-10-16 (PCT/EP2022/078753)
[87] (WO2023/062238)
[30] EP (21203049.8) 2021-10-17

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[13] A1
[51] **Int.Cl. A61B 10/00 (2006.01)**
[25] EN
[54] **SAMPLING FLEXIBLE CLOTH WITH RUPTURE ZONE, WHICH PROTECTS THE SAMPLED CELLS**
[54] **TISSU SOUPLE D'ECHANTILLONNAGE AVEC ZONE DE RUPTURE, QUI PROTEGE LES CELLULES ECHANTILLONNEES**
[72] CHAFFRINGEON, BERNARD-MARIE, RO
[71] CHAFFRINGEON, BERNARD-MARIE, RO
[85] 2024-04-17
[86] 2021-10-18 (PCT/IB2021/059576)
[87] (WO2023/067368)

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[13] A1
[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/506 (2006.01) A61P 9/00 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORMS AND PROCESSES FOR THE PREPARATION OF PYRIMIDINE DERIVATIVES USEFUL AS MODULATORS OF THE 5-HT 2A SEROTONIN RECEPTOR**
[54] **FORMES CRISTALLINES ET PROCESSUS POUR LA PREPARATION DE DERIVES DE PYRIMIDINE UTILES EN TANT QUE MODULATEURS DU RECEPTEUR 5-HT2A DE LA SEROTONINE**
[72] BLACKBURN, ANTHONY C., US
[72] LIN, JUI-CHEN, TW
[71] ARENA PHARMACEUTICALS, INC., US
[85] 2024-04-17
[86] 2022-10-19 (PCT/IB2022/060059)
[87] (WO2023/067520)
[30] US (63/270,926) 2021-10-22

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[13] A1
[51] **Int.Cl. C01B 15/023 (2006.01)**
[25] EN
[54] **NOVEL PROCESS FOR THE PRODUCTION OF HYDROGEN PEROXIDE**
[54] **NOUVEAU PROCEDE POUR LA PRODUCTION DE PEROXYDE D'HYDROGENE**
[72] WILLSON, ANDREW, BE
[72] FORMIGA, NUNO, BE
[72] FESTAS, ANTONIO, BE
[72] FEDELI, MASSIMO, BE
[71] SOLVAY SA, BE
[85] 2024-04-22
[86] 2022-12-01 (PCT/EP2022/084049)
[87] (WO2023/117360)
[30] EP (21216775.3) 2021-12-22

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[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06F 21/62 (2013.01)**
[25] EN
[54] **SHARED MODEL TRAINING WITH PRIVACY PROTECTIONS**
[54] **ENTRAINEMENT DE MODELE PARTAGE AVEC PROTECTIONS DE CONFIDENTIALITE**
[72] KALRA, SHIVAM, CA
[72] CRESSWELL, JESSE COLE, CA
[72] WEN, JUNFENG, CA
[72] VOLKOVS, MAKSIMS, CA
[72] TIZHOOSH, HAMID R., US
[71] THE TORONTO-DOMINION BANK, CA
[71] TIZHOOSH, HAMID R., US
[85] 2024-04-22
[86] 2022-11-16 (PCT/CA2022/051691)
[87] (WO2023/087102)
[30] US (63/279,929) 2021-11-16

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[13] A1
[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4439 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **CCR6 RECEPTOR MODULATORS**
[54] **MODULATEURS DU RECEPTEUR CCR6**
[72] ALLEMANN, OLIVER, CH
[72] CAROFF, EVA, CH
[72] HUBLER, FRANCIS, CH
[72] MEYER, EMMANUEL, CH
[71] IDORSIA PHARMACEUTICALS LTD, CH
[85] 2024-04-22
[86] 2022-10-25 (PCT/EP2022/079766)
[87] (WO2023/072924)
[30] EP (PCT/EP2021/079694) 2021-10-26

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[13] A1
[51] **Int.Cl. A61K 9/08 (2006.01) A61K 38/07 (2006.01) A61K 47/10 (2017.01)**
[25] EN
[54] **STABLE READY TO DILUTE COMPOSITION OF CARFILZOMIB**
[54] **COMPOSITION STABLE PRETE A DILUER DE CARFILZOMIB**
[72] VASANANI, PARAS RASIKLAL, IN
[72] MEHTA, SANDIP PARESHBHAI, IN
[71] KASHIV BIOSCIENCES, LLC, US
[85] 2024-04-17
[86] 2022-10-21 (PCT/IB2022/060145)
[87] (WO2023/067569)
[30] IN (202121047991) 2021-10-21

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[13] A1
[51] **Int.Cl. G06F 3/01 (2006.01) G06F 3/0482 (2013.01) H04L 51/02 (2022.01)**
[25] EN
[54] **METHODS OF INPUT AND INTERACTION WITH AN AUGMENTATIVE AND ALTERNATIVE COMMUNICATIONS (AAC) DEVICE**
[54] **PROCEDES D'ENTREE ET D'INTERACTION AVEC UN DISPOSITIF DE COMMUNICATION AMELIOREE ET ALTERNATIVE (AAC)**
[72] BADMAN, CHRISTOPHER, SE
[72] SAVHAMMAR, DANIEL, SE
[72] BRAUN, LOVISA, SE
[72] KALLIGIANNIS, ZOE, SE
[72] DIENER, BETHANY, SE
[72] JAMES, ROYDEN, SE
[72] ENGELHARDT, FREDERIK, SE
[72] CANTOR, JAEN, SE
[72] KHAN, ADIL, SAEED, SE
[71] TOBII DYNAVOX AB, SE
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[30] US (63/276,835) 2021-11-08

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[54] **BIFUNCTIONAL DEGRADERS OF HEMATOPOIETIC PROGENITOR KINASE AND THERAPEUTIC USES THEREOF**
[54] **AGENTS DE DEGRADATION BIFONCTIONNELS DE PROGENITEUR HEMATOPOIETIQUE KINASE ET LEURS UTILISATIONS THERAPEUTIQUES**
[72] BUELL, JOHN, US
[72] COHEN, FREDERICK, US
[72] PEMBERTON, RYAN, US
[72] SHUNATONA, HUNTER P., US
[72] WANG, LAN, US
[72] ZAK, MARK EDWARD, US
[71] NURIX THERAPEUTICS, INC., US
[71] GILEAD SCIENCES, INC., US
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[86] 2022-11-09 (PCT/US2022/049426)
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[54] **EYE TRACKING DEVICE AND METHODS OF OPERATION**
[54] **DISPOSITIF D'OCULOMETRIE ET PROCEDES DE FONCTIONNEMENT**
[72] AKO, SHEA, KANANIONALANI, US
[71] TOBII DYNAVOX AB, SE
[85] 2024-04-17
[86] 2022-11-15 (PCT/IB2022/060990)
[87] (WO2023/084496)
[30] US (63/279,204) 2021-11-15

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[54] **QUALITY OF EXPERIENCE MEASUREMENT**
[54] **MESURE DE QUALITE D'EXPERIENCE**
[72] TOMALA, MALGORZATA, PL
[72] HE, JING, CN
[72] PING, JING, CN
[71] NOKIA TECHNOLOGIES OY, FI
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[54] **CHOLINE-BETAINE BASED ADJUVANTS FOR HERBICIDES**
[54] **ADJUVANTS A BASE DE CHOLINE-BETAINE POUR HERBICIDES**
[72] ZAVGORODNYA, OLEKSANDRA, US
[71] SPECIALTY OPERATIONS FRANCE, FR
[85] 2024-04-22
[86] 2022-11-16 (PCT/US2022/050139)
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[54] **INDUSTRIAL TRUCK**
[54] **CHARIOT DE MANUTENTION**
[72] BABEL, CHRISTOPH, DE
[71] CROWN EQUIPMENT CORPORATION, US
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[51] **Int.Cl. A61N 1/04 (2006.01)**
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[54] **ELECTRODE ASSEMBLY WITH NON-HYDROGEL CONDUCTIVE ADHESIVE LAYER AND METHODS OF APPLYING TUMOR TREATING FIELDS USING SAME**
[54] **ENSEMBLE ELECTRODE A COUCHE ADHESIVE CONDUCTRICE SANS HYDROGEL ET PROCEDES D'APPLICATION DE CHAMPS DE TRAITEMENT DE TUMEUR L'UTILISANT**
[72] WASSERMAN, YORAM, IL
[72] OBUCHOVSKY, STAS, IL
[72] KUPLENNIK, NATALIYA, IL
[72] SHAPIRO, DAVID, IL
[71] NOVOCURE GMBH, CH
[85] 2024-04-17
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[25] EN
[54] **PERFORMING PROPERTY ESTIMATION USING QUANTUM GRADIENT OPERATION ON QUANTUM COMPUTING SYSTEM**
[54] **REALISATION D'UNE ESTIMATION DE PROPRIETE A L'AIDE D'UNE OPERATION DE GRADIENT QUANTIQUE SUR UN SYSTEME INFORMATIQUE QUANTIQUE**
[72] HUGGINS, BILL, US
[72] MCCLEAN, JARROD RYAN, US
[71] GOOGLE LLC, US
[85] 2024-04-22
[86] 2022-10-21 (PCT/US2022/047416)
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[25] EN
[54] **METHODS FOR LARGE SCALE SYNTHESIS OF RADIONUCLIDE COMPLEXES**
[54] **PROCEDES DE SYNTHESE A GRANDE ECHELLE DE COMPLEXES DE RADIONUCLEIDES**
[72] BARBATO, DONATO, IT
[72] BO, MICHELE, IT
[72] ROSSETTO, MATTIA, IT
[72] TEDESCO, MATTIA, IT
[72] VALERIO, FEDERICO, IT
[71] ADVANCED ACCELERATOR APPLICATIONS, FR
[85] 2024-04-17
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[25] EN
[54] **PHYTOENE-CONTAINING OLEORESIN AND COMPOSITION**
[54] **OLEORESINE CONTENANT DU PHYTOENE ET COMPOSITION**
[72] OFFER, TAL, IL
[72] LEVY-NISSENBAUM, ETGAR, IL
[72] SAPOJNIK, MASHA, IL
[72] BRAVERMAN, OLEG, IL
[72] BONDAR, IRYNA, UA
[71] LYCORED LTD, IL
[85] 2024-04-17
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[51] **Int.Cl. A61K 36/23 (2006.01) A61K 36/185 (2006.01) A23L 33/105 (2016.01) A61K 8/9789 (2017.01)**
[25] EN
[54] **SYNERGISTIC HERBAL COMPOSITIONS FOR LONGEVITY AND GENERAL HEALTH**
[54] **COMPOSITIONS SYNERGIQUES A BASE D'HERBES POUR LA LONGEVITE ET LA SANTE GENERALE**
[72] GOKARAJU, GANGA RAJU, IN
[72] GOKARAJU, RAMA RAJU, IN
[72] BHUPATHIRAJU, KIRAN, IN
[72] GOKARAJU, VENKATA KANAKA RANGA RAJU, IN
[72] GOLAKOTI, TRIMURTULU, IN
[72] ALLURI, VENKATA KRISHNA RAJU, IN
[72] SOMEPALLI, VENKATESWARLU, IN
[72] SENGUPTHA, KRISHANU, IN
[71] LAILA NUTRACEUTICALS, IN
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[51] **Int.Cl. G03F 1/62 (2012.01)**
[25] EN
[54] **PELLICLE MEMBRANE FOR A LITHOGRAPHIC APPARATUS**
[54] **MEMBRANE PELLICULAIRE POUR APPAREIL LITHOGRAPHIQUE**
[72] DONMEZ NOYAN, INCI, NL
[72] VAN DER WOORD, TIES WOUTER, NL
[72] REININK, JOHAN, NL
[72] VAN DE GOOR, TIM WILLEM JOHAN, NL
[72] KLEIN, ALEXANDER LUDWIG, NL
[72] HOUWELING, ZOMER SILVESTER, NL
[72] VERMEULEN, PAUL ALEXANDER, NL
[72] GIESBERS, ADRIANUS JOHANNES MARIA, NL
[72] KLOOTWIJK, JOHAN HENDRIK, NL
[72] BERGERS, LAMBERTUS IDRIS JOHANNES CATHARINA, NL
[71] ASML NETHERLANDS B.V., NL
[85] 2024-04-22
[86] 2022-10-07 (PCT/EP2022/077941)
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[51] **Int.Cl. A61B 5/00 (2006.01) A61N 2/00 (2006.01) H04N 5/33 (2023.01)**
[25] EN
[54] **AN APPARATUS FOR DELIVERING VARIABLE PULSE**
[54] **APPAREIL PERMETTANT DE DE TRANSMETTRE DES IMPULSIONS VARIABLES**
[72] HO, CONWAY, CN
[72] JIN, DEREK HERTZ, CN
[71] VENITAS RESEARCH CENTER, INC., CN
[85] 2024-04-22
[86] 2022-12-01 (PCT/CN2022/135868)
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[30] US (63/299,002) 2022-01-12
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[51] **Int.Cl. E21B 47/107 (2012.01)**
[25] EN
[54] **MACHINE LOGIC MULTI-PHASE METERING USING DISTRIBUTED ACOUSTIC SENSING DATA**
[54] **MESURE MULTIPHASE A LOGIQUE DE MACHINE UTILISANT DES DONNEES DE DETECTION ACOUSTIQUE DISTRIBUEE**
[72] TIWARI, UPENDRA K., US
[72] ROY, BAISHALI, US
[72] MA, NAN, US
[72] JIN, GE, US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2024-04-22
[86] 2022-11-09 (PCT/US2022/049378)
[87] (WO2023/086370)
[30] US (63/277,257) 2021-11-09

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[51] **Int.Cl. G06F 16/25 (2019.01) G06N 20/00 (2019.01)**
[25] EN
[54] **ARTIFICIAL INTELLIGENCE BASED INTEGRATION FRAMEWORKS**
[54] **CADRES D'INTEGRATION BASES SUR L'INTELLIGENCE ARTIFICIELLE**
[72] SHARMA, DUSHYANT, US
[71] PAYMENTUS CORPORATION, US
[85] 2024-04-22
[86] 2021-10-26 (PCT/US2021/056615)
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[30] US (17/452,267) 2021-10-26

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[51] **Int.Cl. A61K 31/4439 (2006.01) A61P 31/18 (2006.01) C07D 401/14 (2006.01) C07F 9/00 (2006.01)**
[25] EN
[54] **THERAPEUTIC COMPOUNDS FOR HIV VIRUS INFECTION**
[54] **COMPOSES THERAPEUTIQUES CONTRE L'INFECTION PAR LE VIRUS DU VIH**
[72] FARAND, JULIE, US
[72] GRAUPE, MICHAEL, US
[72] GUNEY, TEZCAN, US
[72] KATO, DARRYL, US
[72] LI, JIAYAO, US
[72] LINK, JOHN O., US
[72] MACK, JAMES B.C., US
[72] MUN, DONG MIN, US
[72] SAITO, ROLAND D., US
[72] WATKINS, WILLIAM J., US
[72] ZHANG, JENNIFER R., US
[71] GILEAD SCIENCES, INC., US
[85] 2024-04-22
[86] 2022-12-02 (PCT/US2022/051734)
[87] (WO2023/102239)
[30] US (63/285,730) 2021-12-03
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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **COMBINATION CANCER THERAPY WITH MEMORY NK CELLS AND ANTI-CANCER BISPECIFIC MOLECULES**
[54] **POLYTHERAPIE ANTICANCEREUSE AVEC DES CELLULES NK A MEMOIRE ET DES MOLECULES BISPECIFIQUES ANTICANCEREUSES**
[72] KABAKIBI, AYMAN, US
[72] SULLIVAN, RYAN P., US
[71] WUGEN, INC., US
[85] 2024-04-22
[86] 2022-11-09 (PCT/US2022/079528)
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[30] US (63/277,505) 2021-11-09

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[25] EN
[54] **FLEXIBLE, DISSOLVABLE, POROUS SHEETS**
[54] **FEUILLES POREUSES, SOLUBLES ET SOUPLES**
[72] MAC NAMARA, CARL DAVID, CN
[72] TAN, HONG SING, CN
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-22
[86] 2022-07-04 (PCT/CN2022/103649)
[87] (WO2024/007114)

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[51] **Int.Cl. A61K 31/18 (2006.01) A61P 35/00 (2006.01) C12Q 1/68 (2018.01) G01N 33/50 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF HYPERPROLIFERATIVE, INFLAMMATORY, AND IMMUNOLOGICAL DISEASES, AND INFECTIONS**
[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT DE MALADIES HYPERPROLIFERATIVES, INFLAMMATOIRES ET IMMUNOLOGIQUES, ET D'INFECTIONS**
[72] BACHA, JEFFREY A., US
[72] BROWN, DENNIS, US
[71] EDISON ONCOLOGY, US
[85] 2024-04-22
[86] 2022-10-21 (PCT/US2022/047447)
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[30] US (63/270,382) 2021-10-21

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[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) A61P 1/16 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MODULATING APOC3 EXPRESSION**
[54] **COMPOSITIONS ET PROCEDES DE MODULATION DE L'EXPRESSION D'APOC3**
[72] BROWN, BOB DALE, US
[72] DUDEK, HENRYK, US
[72] SAXENA, UTSAV, US
[72] HAN, WEN, US
[71] DICERNA PHARMACEUTICALS, INC., US
[85] 2024-04-22
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[30] US (63/264,730) 2021-12-01

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[25] EN
[54] **FAVA PROTEIN COMPOSITION**
[54] **COMPOSITION DE PROTEINE DE FEVEROLE**
[72] GEERTS, MARLIES ELISABETH JOHANNA, NL
[72] VAN NISPEN, JOANNES GERARDUS MARIA, NL
[71] COOPERATIE KONINKLIJKE COSUN U.A., NL
[85] 2024-04-22
[86] 2022-11-01 (PCT/EP2022/080429)
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[30] EP (21205789.7) 2021-11-01

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[13] A1
[51] **Int.Cl. A61B 17/08 (2006.01) A61B 50/22 (2016.01) A61B 50/33 (2016.01) A61B 90/53 (2016.01)**
[25] EN
[54] **APPLICATOR TOOL CAPABLE OF USE WITH FORCE MODULATING TISSUE BRIDGE, AND ASSOCIATED SYSTEMS, METHODS AND KITS**
[54] **OUTIL APPLICATEUR POUVANT ETRE UTILISE AVEC UN PONT TISSULAIRE A MODULATION DE FORCE, ET SYSTEMES, PROCEDES ET KITS ASSOCIES**
[72] EAVES, FELMONT F., US
[72] KNIGHT, GARY W., US
[72] HOOD, JACOB E., US
[71] BRIJ MEDICAL, INC., US
[85] 2024-04-22
[86] 2022-10-31 (PCT/US2022/048359)
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[30] US (63/274,132) 2021-11-01

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[51] **Int.Cl. E02D 29/067 (2006.01) F16L 1/14 (2006.01)**
[25] EN
[54] **FLOATING UNDERWATER PIPELINES - "PROCESS OF TYN"**
[54] **PIPELINE SOUS-MARIN FLOTTANT - « PROCEDE DE TYN »**
[72] BUTTERWORTH, COLIN, GB
[71] BUTTERWORTH, COLIN, GB
[85] 2024-04-22
[86] 2022-10-19 (PCT/GB2022/052661)
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[30] GB (2115095.8) 2021-10-21

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[13] A1
[51] **Int.Cl. D21H 19/14 (2006.01) D21H 19/18 (2006.01)**
[25] EN
[54] **PACKAGING PAPER WITH TRANSPARENT ZONE, METHOD FOR MANUFACTURING PACKAGING PAPER WITH TRANSPARENT ZONE, AND PACKAGING COMPRISING SUCH PACKAGING PAPER**
[54] **PAPIER D'EMBALLAGE A ZONE TRANSPARENTE, PROCEDE DE FABRICATION DE PAPIER D'EMBALLAGE A ZONE TRANSPARENTE, ET EMBALLAGE COMPRENANT UN TEL PAPIER D'EMBALLAGE**
[72] TIRIONS, BENNY FRANCOIS EMILE, BE
[72] STAPPAERTS, DAVE, BE
[71] ACE PACKAGING N.V., BE
[85] 2024-04-22
[86] 2022-10-28 (PCT/IB2022/060365)
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[30] BE (2021/5844) 2021-10-28

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[51] **Int.Cl. E21B 41/00 (2006.01) E21B 47/117 (2012.01) E21B 47/12 (2012.01)**
[25] EN
[54] **SUBTERRANEAN PARAMETER SENSING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE PARAMETRES SOUTERRAINS**
[72] SMITH, KEVIN FORSYTHE, US
[72] GONCHARUK, ARTEM, US
[72] ZHAO, ALLEN RICHARD, US
[72] WILFONG, JONATHAN GRAY, US
[71] X DEVELOPMENT LLC, US
[85] 2024-04-22
[86] 2022-10-24 (PCT/US2022/047583)
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[30] US (63/270,951) 2021-10-22

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[51] **Int.Cl. H01M 50/583 (2021.01) H01M 50/249 (2021.01) H01M 50/342 (2021.01) H01M 50/538 (2021.01) H01M 50/586 (2021.01) H01M 50/593 (2021.01) H01M 50/595 (2021.01)**
[25] EN
[54] **CYLINDRICAL BATTERY CELL, BATTERY PACK, VEHICLE AND CURRENT COLLECTOR PLATE.ING SAME AND CURRENT COLLECTOR PLATE**
[54] **ELEMENT DE BATTERIE CYLINDRIQUE, ET BLOC-BATTERIE LE COMPRENANT ET VEHICULE LE COMPRENANT ET PLAQUE COLLECTRICE DE COURANT**
[72] CHOI, JIN-YI, KR
[72] RYU, DUK-HYUN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-04-22
[86] 2022-10-28 (PCT/KR2022/016747)
[87] (WO2023/075523)
[30] KR (10-2021-0147347) 2021-10-29
[30] KR (10-2022-0012575) 2022-01-27
[30] KR (10-2022-0089234) 2022-07-19

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[51] **Int.Cl. A61K 47/00 (2006.01) A61K 47/64 (2017.01) A61K 47/65 (2017.01) A61K 48/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ORAL ADMINISTRATION**
[54] **COMPOSITIONS ET PROCEDES D'ADMINISTRATION ORALE**
[72] THAI, NGOC, US
[72] POLLETT, JONATHAN, US
[71] IMAGINE PHARMA LLC, US
[85] 2024-04-22
[86] 2022-12-09 (PCT/US2022/081277)
[87] (WO2023/108126)
[30] US (63/288,579) 2021-12-11

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[51] **Int.Cl. H04N 21/438 (2011.01) H04N 21/414 (2011.01) H04N 21/482 (2011.01) H04N 21/61 (2011.01)**
[25] EN
[54] **RADIO HEAD UNIT WITH DYNAMICALLY UPDATED TUNABLE CHANNEL LISTING**
[54] **AUTORADIO A ETABLISSEMENT DE LISTE DE CANAUX ACCORDABLES A MISE A JOUR DYNAMIQUE**
[72] JEYACHANDRAN, SURESH, US
[72] FASCHING, DAMON, US
[72] TANAKA, HIDENORI, US
[72] VETRISELVI, KAVIARASU, US
[72] RAUL, SAMIT, US
[71] GRACENOTE, INC., US
[85] 2024-04-22
[86] 2022-10-20 (PCT/US2022/047219)
[87] (WO2023/069581)
[30] US (63/270,832) 2021-10-22
[30] US (17/969,407) 2022-10-19

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[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01) A61B 90/00 (2016.01) A61B 17/00 (2006.01) A61B 17/06 (2006.01) A61B 17/062 (2006.01)**
[25] EN
[54] **SURGICAL DEVICE, DEVICE FOR PRE-BENDING A BUCKLING WIRE, METHOD FOR FELTING AN IMPLANT TO SOFT TISSUE, AND METHOD FOR PRE-BENDING A BUCKLING WIRE**
[54] **DISPOSITIF CHIRURGICAL, DISPOSITIF DE PRE-CINTRAGE D'UN FIL DE BOUCLAGE, PROCEDE DE FEUTRAGE D'UN IMPLANT SUR UN TISSU MOU ET PROCEDE DE PRE-CINTRAGE D'UN FIL DE BOUCLAGE**
[72] BANZET, POL, CH
[72] GRAF, RETO, CH
[72] BACHMANN, ELIAS, CH
[72] LI, XIANG, CH
[71] ZURIMED TECHNOLOGIES AG, CH
[85] 2024-04-22
[86] 2022-11-28 (PCT/EP2022/083491)
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[30] EP (21211467.2) 2021-11-30

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[25] EN
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[54] **TRANSPALETTE**
[72] KUFFNER, SUSANNE, DE
[72] MULLER, ROLAND, DE
[72] XIA, BRUCE, CN
[72] CHEN, ANDY, CN
[72] MA, MARTIN, CN
[72] PAN, ANDREW, CN
[72] FENG, TERRY, CN
[72] HU, CHARLIE, CN
[71] CROWN EQUIPMENT CORPORATION, US
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[51] **Int.Cl. H02K 3/04 (2006.01) H02K 11/33 (2016.01) H02K 3/28 (2006.01) H02K 3/50 (2006.01)**
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[54] **ELECTRIC DRIVE**
[54] **ENTRAINEMENT ELECTRIQUE**
[72] ROBINSON, JONATHAN, NL
[71] INNOMOTICS GMBH, DE
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[87] (WO2023/083505)
[30] EP (21207491.8) 2021-11-10

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[51] **Int.Cl. C22C 38/00 (2006.01) C21D 9/08 (2006.01) C22C 38/54 (2006.01)**
[25] EN
[54] **SEAMLESS STEEL PIPE**
[54] **TUBE EN ACIER SANS SOUDURE**
[72] AOKI, KOSUKE, JP
[72] NAKAMURA, HIROFUMI, JP
[72] OMURA, TOMOHIKO, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2024-04-22
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[30] JP (2022-058282) 2022-03-31

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[51] **Int.Cl. B01D 53/14 (2006.01) C10L 3/10 (2006.01)**
[25] EN
[54] **METHOD FOR THE PURIFICATION OF A GAS MIXTURE COMPRISING CARBON DIOXIDE AND OPTIONALLY HYDROGEN SULFIDE**
[54] **PROCEDE DE PURIFICATION D'UN MELANGE GAZEUX COMPRENANT DU DIOXYDE DE CARBONE ET EVENTUELLEMENT DU SULFURE D'HYDROGENE**
[72] DE MEYER, FREDERICK, FR
[72] GONZALEZ-TOVAR, KAREN, FR
[72] POULAIN, BENEDICTE, FR
[71] TOTALENERGIES ONETECH, FR
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[51] **Int.Cl. A61K 35/17 (2015.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRANS-MODULATION OF IMMUNE CELLS BY GENETIC MANIPULATION OF IMMUNE REGULATORY GENES**
[54] **SYSTEMES ET PROCEDES DE TRANS-MODULATION DE CELLULES IMMUNITAIRES PAR MANIPULATION GENETIQUE DE GENES IMMUNOREGULATEURS**
[72] WEINTHAL, DAN MICHAEL, IL
[72] SHIBOLETH, YOEL, IL
[72] STEINER, DAVID, IL
[72] KUNIK, TALYA, IL
[71] TARGETGENE BIOTECHNOLOGIES LTD., IL
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[25] EN
[54] **CLEARING ROD**
[54] **TIGE DE DEGAGEMENT**
[72] HARRIS, PATRICK, US
[72] GIAMMANCO, ROBERT LOUIS, US
[72] CRUVER IV, CURTIS, US
[71] GIAMMANCO, ROBERT LOUIS, US
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[54] **STUD FOR A WINTER TIRE, WINTER TIRE AND METHOD FOR PRODUCING SUCH A STUD**
[54] **CRAMPON POUR PNEU HIVER, PNEU HIVER ET PROCEDE DE PRODUCTION D'UN TEL CRAMPON**
[72] HYOKKI, SAMI, FI
[72] LAINE, REKO, FI
[72] SALAKARI, MIKKO, FI
[72] SALAKARI, HEIKKI, FI
[71] TURVANASTA OY, FI
[85] 2024-04-22
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[25] EN
[54] **CRYSTALLINE COMPOSITION OF TILDACERFONT AND METHODS OF USE AND PREPARATION THEREOF**
[54] **COMPOSITION CRISTALLINE DE TILDACERFONT ET SES METHODES D'UTILISATION ET DE PREPARATION**
[72] REDDY, DASHARATHA, US
[72] RAJAGOPAL, ASHOKRAJ, US
[72] WANG, LU, US
[72] BARNES, CHRISTOPHER, US
[71] SPRUCE BIOSCIENCES, INC., US
[85] 2024-04-22
[86] 2022-11-18 (PCT/US2022/050436)
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[25] EN
[54] **WEARABLE NON-INVASIVE CENTRAL NERVOUS SYSTEM NEUROMODULATOR AND METHODS FOR USING SAME**
[54] **NEUROMODULATEUR DE SYSTEME NERVEUX CENTRAL NON INVASIF POUVANT ETRE PORTE SUR SOI ET SES PROCEDES D'UTILISATION**
[72] GAD, PARAG, US
[71] SPINEX INC., US
[85] 2024-04-22
[86] 2022-11-04 (PCT/US2022/048974)
[87] (WO2023/081368)
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[25] EN
[54] **LAMINATED CORE**
[54] **NOYAU DE FER STRATIFIE**
[72] OMURA, TAKESHI, JP
[72] ICHIHARA, YOSHIHISA, JP
[72] YOSHIZAKI, SOUICHIRO, JP
[71] JFE STEEL CORPORATION, JP
[85] 2024-04-17
[86] 2022-09-22 (PCT/JP2022/035416)
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[30] JP (2021-202285) 2021-12-14

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[25] EN
[54] **MAIZE EVENT DP-910521-2 AND METHODS FOR DETECTION THEREOF**
[54] **EVENEMENT DP-910521-2 DU MAIS ET PROCEDES DE DETECTION DE CELUI-CI**
[72] CONG, BIN, US
[72] CRANE, VIRGINIA, US
[72] LU, ALBERT L., US
[72] MUTTI, JASDEEP S., US
[72] PASCUAL, M. ALEJANDRA, US
[72] RINEHART KREBS, KRISTEN DENISE, US
[72] VAN DYK, MARIA MAGDALENA, US
[72] YIN, JIAMING, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2024-04-17
[86] 2022-11-14 (PCT/US2022/079794)
[87] (WO2023/091888)
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[25] EN
[54] **BRANCHED TRIPLE LIPID-MODIFIED NUCLEIC ACID COMPOUNDS**
[54] **COMPOSES D'ACIDE NUCLEIQUE MODIFIE A TRIPLE LIPIDE RAMIFIE**
[72] ALLERSON, CHARLES, US
[72] SUCKOW, ARTHUR T., US
[71] NOVARTIS AG, CH
[85] 2024-04-17
[86] 2022-11-14 (PCT/US2022/079788)
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[51] **Int.Cl. B01D 61/44 (2006.01) B01D 61/24 (2006.01) B01D 71/28 (2006.01)**
[25] EN
[54] **MONOVALENT SELECTIVE ANION EXCHANGE MEMBRANE FOR APPLICATION IN LITHIUM EXTRACTION FROM NATURAL SOURCES**
[54] **MEMBRANE ECHANGEUSE D'ANIONS MONOVALENTS SELECTIVE POUR APPLICATION DANS L'EXTRACTION DE LITHIUM DE SOURCES NATURELLES**
[72] GU, GEORGE Y., US
[72] HU, MICHAEL Z., US
[72] PATWARDHAN, AMIT, US
[72] LYNDON, RICHELLE, US
[72] MA, GUANYU, US
[72] EGAN, TEAGUE M., US
[71] ENERGY EXPLORATION TECHNOLOGIES, INC., US
[85] 2024-04-17
[86] 2022-10-21 (PCT/US2022/078533)
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[30] US (63/270,299) 2021-10-21

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[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61K 39/15 (2006.01) C07K 14/005 (2006.01)**
[25] EN
[54] **RECOMBINANT ROTAVIRUS EXPRESSING EXOGENOUS PROTEIN AND USES THEREOF**
[54] **ROTAVIRUS RECOMBINANT EXPRIMANT UNE PROTEINE EXOGENE ET SES UTILISATIONS**
[72] PATTON, JOHN THOMAS, US
[71] THE TRUSTEES OF INDIANA UNIVERSITY, US
[85] 2024-04-17
[86] 2022-10-18 (PCT/US2022/078305)
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[51] **Int.Cl. A61M 5/31 (2006.01) G01M 99/00 (2011.01) A61M 5/315 (2006.01) G01L 1/00 (2006.01)**
[25] EN
[54] **PLUNGER ROD REMOVAL FORCE METHOD AND FIXTURE**
[54] **METHODE ET FIXATION DE LA FORCE DE RETRAIT DE LA TIGE DE PISTON**
[72] OBA, RYAN, US
[72] ASADOURIAN, MHER, US
[72] SANCHEZ, SANDRA, US
[72] BALLI-CRUZ, CHELSEA, US
[72] TAMSKY, JOSHUA, US
[71] AMGEN INC., US
[85] 2024-04-17
[86] 2022-11-28 (PCT/US2022/051036)
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[51] **Int.Cl. G06N 3/0442 (2023.01) G06N 3/045 (2023.01) G06N 3/09 (2023.01) G06N 3/048 (2023.01) G06N 3/092 (2023.01)**
[25] EN
[54] **APPLICATION OF NATURAL LANGUAGE PROCESSING TO FACILITATE RESPONSES TO REGULATORY QUESTIONS**
[54] **APPLICATION DE TRAITEMENT AUTOMATIQUE DU LANGAGE NATUREL POUR FACILITER DES REPONSES A DES QUESTIONS REGLEMENTAIRES**
[72] ALKHALIFA, SALEH, US
[72] VAGLE, DANIEL, US
[72] OZYURT, FURKAN, US
[72] BAYRAK, ELIF SEYMA, US
[71] AMGEN INC., US
[85] 2024-04-17
[86] 2022-10-18 (PCT/US2022/046974)
[87] (WO2023/069401)
[30] US (63/270,448) 2021-10-21
[30] US (63/389,569) 2022-07-15

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[51] **Int.Cl. E21B 17/02 (2006.01) E21B 47/12 (2012.01)**
[25] EN
[54] **WET-MATE CONNECTOR ASSEMBLY WITH A DIELECTRIC GREASE RETAINER AND A STIFFENING MATERIAL IN A WELLBORE**
[54] **ENSEMBLE CONNECTEUR A ACCOUPLEMENT EN MILIEU HUMIDE COMPORTANT UN DISPOSITIF DE RETENUE DE GRAISSE DIELECTRIQUE ET UN MATERIAU DE RAIDISSEMENT DANS UN PUITS DE FORAGE**
[72] ZHONG, XIAOGUANG ALLAN, US
[72] FERNANDES, MARCO ANTONIO, US
[72] YIN, SHENGJUN, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-04-17
[86] 2021-12-29 (PCT/US2021/065456)
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[51] **Int.Cl. H01F 41/02 (2006.01) C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/60 (2006.01)**
[25] EN
[54] **METHODS FOR MANUFACTURING LAMINATED CORE**
[54] **PROCEDE DE FABRICATION DE NOYAU DE FER STRATIFIE**
[72] OMURA, TAKESHI, JP
[72] ICHIHARA, YOSHIHISA, JP
[72] YOSHIZAKI, SOUICHIRO, JP
[71] JFE STEEL CORPORATION, JP
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[86] 2022-09-22 (PCT/JP2022/035417)
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[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **METHODS AND MATERIALS FOR EXPANDING TUMOR INFILTRATING GAMMA-DELTA T CELLS**
[54] **METHODES ET MATERIAUX D'EXPANSION DE CELLULES T GAMMA-DELTA INFILTRANT LES TUMEURS**
[72] LOTZE, MICHAEL T., US
[72] MURTHY, PRANAV, US
[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2024-04-18
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[51] **Int.Cl. G06T 11/00 (2006.01) G16H 20/40 (2018.01) G16H 30/40 (2018.01) A61N 5/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PET IMAGING ANALYSIS FOR BIOLOGY-GUIDED RADIOTHERAPY**
[54] **SYSTEMES ET PROCEDES D'ANALYSE D'IMAGERIE DE TEP POUR RADIOTHERAPIE GUIDEE PAR LA BIOLOGIE**
[72] SHI, LINXI, US
[72] DA SILVA, ANGELA JANE, US
[72] HAYTMYRADOV, MAKSAT, US
[72] OLCOTT, PETER DEMETRI, US
[72] ZDASIUK, GEORGE ANDREW, US
[71] REFLEXION MEDICAL, INC., US
[85] 2024-04-18
[86] 2022-10-21 (PCT/US2022/078511)
[87] (WO2023/070088)
[30] US (63/270,404) 2021-10-21
[30] US (63/392,446) 2022-07-26

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[13] A1
[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/0775 (2010.01)**
[25] EN
[54] **METHOD FOR PRODUCING MILK LIKE PRODUCTS**
[54] **PROCEDE DE PRODUCTION DE PRODUITS DE TYPE LAIT**
[72] MARQUES DE LIMA, MARIA, CH
[72] BIANCHI, ARIANNA, CH
[72] MASHINCHIAN, OMID, CH
[72] KRAUS, MARINE, CH
[72] DESTAILLATS, FREDERIC, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-04-18
[86] 2022-10-27 (PCT/EP2022/080089)
[87] (WO2023/073108)
[30] EP (21205070.2) 2021-10-27

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[51] **Int.Cl. D03D 9/00 (2006.01) D03D 15/43 (2021.01) D03D 15/46 (2021.01) B32B 5/08 (2006.01)**
[25] EN
[54] **WOVEN FABRIC, VACUUM INDUCED RESIN INFUSION PROCESS AND FIBRE REINFORCED COMPOSITE**
[54] **TISSU TISSE, PROCEDE D'INJECTION DE RESINE INDUITE PAR LE VIDE ET COMPOSITE RENFORCE PAR DES FIBRES**
[72] HUOPONEN, PETRO, FI
[72] FJALLSTROM, MAIJA, FI
[71] VITRULAN COMPOSITES OY, FI
[85] 2024-04-18
[86] 2022-12-14 (PCT/EP2022/085815)
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[30] EP (21216045.1) 2021-12-20

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[13] A1
[51] **Int.Cl. A61J 3/00 (2006.01)**
[25] EN
[54] **MEDICINE DISPENSING APPARATUS**
[54] **MACHINE DE CONDITIONNEMENT DE MEDICAMENT**
[72] OMURA, YOSHIHITO, JP
[71] TOSHO, INC., JP
[85] 2024-04-18
[86] 2022-10-25 (PCT/JP2022/039597)
[87] (WO2023/080006)
[30] JP (2021-179557) 2021-11-02
[30] JP (2021-179750) 2021-11-02

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[51] **Int.Cl. G06N 20/20 (2019.01) G06N 3/0499 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DYNAMIC MODEL TRAINING WITH HUMAN IN THE LOOP**
[54] **SYSTEME ET PROCEDE D'ENTRAINEMENT DE MODELE DYNAMIQUE A L'AIDE D'UN ETRE HUMAIN DANS LA BOUCLE**
[72] RATNER, EDWARD, US
[72] KHAN, KALLIN CAROLUS, US
[71] EDAMMO, INC., US
[85] 2024-04-18
[86] 2022-10-17 (PCT/US2022/046880)
[87] (WO2023/069358)
[30] US (17/503,490) 2021-10-18

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[51] **Int.Cl. C12Q 1/02 (2006.01) G01N 33/52 (2006.01) C12N 5/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **TREATMENT RESPONSE ASSESSMENT USING NORMALIZED SINGLE CELL MEASUREMENTS**
[54] **EVALUATION DE LA REPONSE AU TRAITEMENT A L'AIDE DE MESURES NORMALISEES UNICELLULAIRES**
[72] KIMMERLING, ROBERT, US
[72] OLCUM, SELIM, US
[72] STEVENS, MARK, US
[71] TRAVERA, INC., US
[85] 2024-04-18
[86] 2022-10-20 (PCT/US2022/047231)
[87] (WO2023/069588)
[30] US (63/257,906) 2021-10-20
[30] US (63/278,420) 2021-11-11

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[51] **Int.Cl. C07K 16/10 (2006.01) A61K 39/42 (2006.01) A61P 31/14 (2006.01) C12N 15/13 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **ANTIBODY FOR RECOGNIZING RSV PRE-F PROTEIN AND USE THEREOF**
[54] **ANTICORPS POUR RECONNAITRE UNE PROTEINE PRE-F DU VRS ET SON UTILISATION**
[72] ZHENG, ZIZHENG, CN
[72] SUN, YONGPENG, CN
[72] LEI, SIYU, CN
[72] QIANG, HONGSHENG, CN
[72] CHEN, LI, CN
[72] XIA, NINGSHAO, CN
[71] XIAMEN UNIVERSITY, CN
[85] 2024-04-18
[86] 2022-08-15 (PCT/CN2022/112500)
[87] (WO2023/103440)
[30] CN (202111477846.0) 2021-12-06

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[51] **Int.Cl. H02J 7/00 (2006.01)**
[25] EN
[54] **METHOD FOR CHARGING A BATTERY USING A THERMAL MODEL FOR AN ELECTRICAL DEVICE CONNECTED TO THE BATTERY**
[54] **PROCEDE DE CHARGE D'UNE BATTERIE A L'AIDE D'UN MODELE THERMIQUE POUR UN DISPOSITIF ELECTRIQUE CONNECTE A LA BATTERIE**
[72] LEMBERG, NICHOLAS A., US
[72] COLLINS, LIAM, US
[71] BAE SYSTEMS CONTROLS INC., US
[85] 2024-04-18
[86] 2022-11-03 (PCT/US2022/048812)
[87] (WO2023/086261)
[30] US (17/524,965) 2021-11-12

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[13] A1
[51] **Int.Cl. B01J 19/24 (2006.01) B01J 21/04 (2006.01)**
[25] EN
[54] **DIRECT ELECTRICAL HEATING OF CATALYTIC REACTIVE SYSTEM**
[54] **CHAUFFAGE ELECTRIQUE DIRECT D'UN SYSTEME REACTIF CATALYTIQUE**
[72] CARR, LANYON, US
[72] QUERE, GREGOIRE, FR
[71] SCHNEIDER ELECTRIC SYSTEMS USA, INC., US
[71] EUROTHERM AUTOMATION SAS, FR
[85] 2024-04-18
[86] 2022-10-28 (PCT/US2022/048183)
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[30] US (17/532,571) 2021-11-22

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[51] **Int.Cl. B01D 15/08 (2006.01) B01J 20/24 (2006.01) B01J 20/28 (2006.01) B01J 20/30 (2006.01)**
[25] EN
[54] **METHODS OF REMOVING ENVIRONMENTAL CONTAMINANTS**
[54] **PROCEDES D'ELIMINATION DE CONTAMINANTS ENVIRONNEMENTAUX**
[72] DIXIT, FUHAR, CA
[72] BARBEAU, BENOIT, CA
[72] MOHSENI, MADJID, CA
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[71] POLYVALOR, LIMITED PARTNERSHIP, CA
[85] 2024-04-18
[86] 2022-10-20 (PCT/CA2022/051552)
[87] (WO2023/065039)
[30] US (63/257,755) 2021-10-20
[30] US (63/270,105) 2021-10-21

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[13] A1
[51] **Int.Cl. A01G 31/02 (2006.01) G06F 16/25 (2019.01) A01G 9/24 (2006.01)**
[25] EN
[54] **HYDROPONICS FARMING APPARATUS, AND SYSTEMS INCLUDING THE SAME**
[54] **APPAREIL DE CULTURE HYDROPONIQUE ET SYSTEMES LE COMPRENANT**
[72] CHAN, EDWIN YAT-WANG, CN
[71] FARM LOCALLY LIMITED, CN
[85] 2024-04-18
[86] 2022-09-30 (PCT/CN2022/123174)
[87] (WO2023/066016)
[30] HK (32021040786.4) 2021-10-20

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[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/19 (2006.01) A61K 31/216 (2006.01) A61K 31/5575 (2006.01) A61M 15/00 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING PULMONARY HYPERTENSION**
[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DE L'HYPERTENSION PULMONAIRE**
[72] FREEMAN, JR., JOHN J., US
[72] GRANT, MARSHALL L., US
[72] ANTUNOVICH, JASON J., US
[72] BAY, WILLIAM ELLIOTT, US
[71] MANNKIND CORPORATION, US
[85] 2024-04-18
[86] 2022-10-27 (PCT/US2022/078816)
[87] (WO2023/077025)
[30] US (63/272,467) 2021-10-27

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[51] **Int.Cl. C07F 9/6561 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CD73 COMPOUNDS**
[54] **COMPOSES CD73**
[72] BARTLETT, MARK J., US
[72] CHIN, GREGORY F., US
[72] CLARKE, MICHAEL O., US
[72] COSMAN ELLIS, JENNIFER L., US
[72] ENSAN, DEEBA, US
[72] GOYAL, BINDU, US
[72] HO, STEPHEN, GB
[72] MACKMAN, RICHARD L., US
[72] MISH, MICHAEL R., US
[72] SIEGEL, DUSTIN S., US
[72] TAMSHEN, KYLE C., US
[72] YANG, HAI, US
[71] GILEAD SCIENCE, INC., US
[85] 2024-04-18
[86] 2022-10-27 (PCT/US2022/078822)
[87] (WO2023/077030)
[30] US (63/273,454) 2021-10-29

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[13] A1
[51] **Int.Cl. B32B 7/12 (2006.01) B32B 27/08 (2006.01) B32B 27/32 (2006.01)**
[25] EN
[54] **ALL-PE RECYCLABLE LAMINATE WITH NANOCLAY COATING**
[54] **STRATIFIE RECYCLABLE TOUT-PE COMPRENANT UN REVETEMENT DE NANOARGILE**
[72] CLARE, ROBERT, GB
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2024-04-18
[86] 2022-11-25 (PCT/IB2022/061438)
[87] (WO2023/111735)
[30] US (63/288,848) 2021-12-13

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[25] EN
[54] **FREE HAND ACOUSTIC PROBE TRACKING**
[54] **SUIVI PAR SONDE ACOUSTIQUE MAINS LIBRES**
[72] LE DUFF, ALAIN, CA
[71] EVIDENT CANADA, INC., CA
[85] 2024-04-19
[86] 2022-10-21 (PCT/CA2022/051557)
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[30] US (63/262,857) 2021-10-21

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[13] A1
[51] **Int.Cl. G01N 29/24 (2006.01)**
[25] EN
[54] **REDUCTION OF CROSSTALK IN ROW-COLUMN ADDRESSED ARRAY PROBES**
[54] **REDUCTION DE LA DIAPHONIE DANS DES SONDES DE RESEAU ADRESSE EN RANGEES-COLONNES**
[72] ZHANG, JIN-CHI, CA
[72] MAHIEU, GAUTIER, CA
[72] LANDRY, FREDERIC, CA
[71] EVIDENT CANADA, INC., CA
[85] 2024-04-19
[86] 2022-10-21 (PCT/CA2022/051561)
[87] (WO2023/065047)
[30] US (63/270,687) 2021-10-22

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[51] **Int.Cl. H04W 74/08 (2024.01) H04W 74/00 (2009.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ENHANCED RANDOM ACCESS PROCEDURE**
[54] **SYSTEMES ET PROCEDES POUR PROCEDURE D'ACCES ALEATOIRE AMELIOREE**
[72] GAO, YUAN, CN
[72] HUANG, HE, CN
[71] ZTE CORPORATION, CN
[85] 2024-04-19
[86] 2021-10-22 (PCT/CN2021/125527)
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[51] **Int.Cl. A01N 35/02 (2006.01) A01N 27/00 (2006.01) A01P 7/04 (2006.01) A01P 17/00 (2006.01) A01P 19/00 (2006.01)**
[25] EN
[54] **ANT CONTROL AGENT AND ANT CONTROL METHOD**
[54] **AGENT DE LUTTE CONTRE LES FOURMIS ET PROCEDE DE LUTTE CONTRE LES FOURMIS**
[72] SUGAWARA, YUMA, JP
[72] MIYAKE, YUKI, JP
[72] WATANABE, TAKERU, JP
[72] KUTSUWADA, YASUHIKO, JP
[71] SHIN-ETSU CHEMICAL CO., LTD., JP
[85] 2024-04-18
[86] 2022-10-13 (PCT/JP2022/038236)
[87] (WO2023/074396)
[30] JP (2021-178122) 2021-10-29

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[51] **Int.Cl. C07D 401/14 (2006.01)**
[25] EN
[54] **SUBSTITUTED PHENYLPROPIONIC ACID DERIVATIVE AND USE THEREOF**
[54] **DERIVE D'ACIDE PHENYLPROPIONIQUE SUBSTITUE ET SON UTILISATION**
[72] TAN, LIANG, CN
[72] DONG, YUQIONG, CN
[72] LIU, MIN, CN
[72] LI, JIAO, CN
[72] LI, JIAN, CN
[72] ZHANG, ZHEN, CN
[72] LIN, XIAOYAN, CN
[72] LI, YUNFEI, CN
[71] TUOJIE BIOTECH (SHANGHAI) CO., LTD., CN
[85] 2024-04-23
[86] 2022-11-03 (PCT/CN2022/129479)
[87] (WO2023/078333)
[30] CN (202111293711.9) 2021-11-03
[30] CN (202211033065.7) 2022-08-26

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[54] **MULTI-SEAT PLUG VALVE**
[54] **SOUPAPE A BOUCHON A SIEGES MULTIPLES**
[72] THOMPSON, DUSTIN RYAN, US
[71] FRANKLIN VALVE, LP, US
[85] 2024-04-23
[86] 2023-10-11 (PCT/US2023/076616)
[87] (WO2024/077307)
[30] US (63/511,944) 2023-07-05

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[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 47/54 (2017.01) A61K 31/713 (2006.01) A61P 9/12 (2006.01)**
[25] EN
[54] **AGT INHIBITORS AND USE THEREOF**
[54] **INHIBITEUR D'AGT ET SON UTILISATION**
[72] CUI, KUNYUAN, CN
[72] WANG, SHENGJUN, CN
[72] CHEN, QINGYAN, CN
[71] KYLONOVA (XIAMEN) BIOPHARMA CO., LTD., CN
[85] 2024-04-19
[86] 2022-10-18 (PCT/CN2022/125877)
[87] (WO2023/066236)
[30] CN (202111222428.7) 2021-10-20

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[13] A1
[51] **Int.Cl. E21B 33/129 (2006.01) E21B 23/01 (2006.01) E21B 33/12 (2006.01)**
[25] EN
[54] **EXPANDING AND COLLAPSING APPARATUS HAVING BOOKEND SEAL CARTRIDGES**
[54] **APPAREIL D'EXPANSION ET DE PLIAGE AYANT DES CARTOUCHES A ETANCHEITE DE PART ET D'AUTRE**
[72] BROWN, GARETH, GB
[72] FRY, OLIVER, GB
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-04-18
[86] 2021-10-18 (PCT/US2021/055439)
[87] (WO2023/069069)

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[51] **Int.Cl. A24D 1/20 (2020.01) A24F 40/51 (2020.01) A24F 40/53 (2020.01) A24F 40/20 (2020.01)**
[25] EN
[54] **AEROSOL-GENERATING ARTICLE WITH TAGGANT**
[54] **ARTICLE DE GENERATION D'AEROSOL DOTE D'UN TRACEUR**
[72] BESSANT, MICHEL, CH
[72] BINASSI, ENRICO, CH
[72] CANAL PONSICO, ANNA, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2024-04-23
[86] 2022-10-24 (PCT/EP2022/079663)
[87] (WO2023/072875)
[30] CN (PCT/CN2021/126079) 2021-10-25

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[25] EN
[54] **SOLID DISSOLVABLE COMPOSITIONS**
[54] **COMPOSITIONS SOLIDES SOLUBLES**
[72] LYNCH, MATTHEW LAWRENCE, US
[72] ILLIE, BRANDON PHILIP, US
[72] WILLIAMS, KRISTIN RHEDRICK, US
[72] MCCULLOUGH, JOCELYN MICHELLE, US
[72] DRIA, JAMIE LYNN, US
[72] IBERI, VIGHTER, US
[72] HUFFORD, KAREN DIANA, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-23
[86] 2023-08-08 (PCT/US2023/071802)
[87] (WO2024/036116)
[30] US (63/397,402) 2022-08-12

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[13] A1
[51] **Int.Cl. G06Q 10/06 (2023.01) G06Q 10/04 (2023.01) G06Q 10/08 (2023.01)**
[25] EN
[54] **DETECTING A MISSING ASSET BASED ON AMOUNT OF WORK CYCLES**
[54] **DETECTION D'UN BIEN MANQUANT SUR LA BASE DE LA QUANTITE DE CYCLES DE TRAVAIL**
[72] HANAUER, NICHOLAS ADAM, US
[72] BRICKNER, CHAD TIMOTHY, US
[72] NAMA, MANASWINI, US
[72] BOMER, BRADLEY K., US
[71] CATERPILLAR INC., US
[85] 2024-04-23
[86] 2022-10-07 (PCT/US2022/045965)
[87] (WO2023/076016)
[30] US (17/452,637) 2021-10-28

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **BIOSYNTHETIC MONOVALENT BINDING MOLECULES WITH ENHANCED EFFECTOR FUNCTIONS**
[54] **MOLECULES DE LIAISON MONOVALENTS BIOSYNTHETIQUES AYANT DES FONCTIONS EFFECTRICES AMELIOREES**
[72] ZWOLAK, ADAM, US
[72] HO, JASON, US
[72] TESTA JR., JAMES, US
[72] HANSEN, MICHAEL RIIS, US
[72] LIN-SCHMIDT, XIEFAN, US
[72] WHITE, IAN, US
[72] SINGH, SANJAYA, US
[71] JANSSEN BIOTECH, INC., US
[85] 2024-04-18
[86] 2022-10-19 (PCT/US2022/078351)
[87] (WO2023/069982)
[30] US (63/270,023) 2021-10-20

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[51] **Int.Cl. C11D 9/00 (2006.01) C11D 9/02 (2006.01) C11D 9/22 (2006.01) C11D 9/44 (2006.01) C11D 13/00 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **LOW-WATER COMPOSITIONS**
[54] **COMPOSITIONS A FAIBLE TENEUR EN EAU**
[72] LYNCH, MATTHEW LAWRENCE, US
[72] ILLIE, BRANDON PHILIP, US
[72] WILLIAMS, KRISTIN RHEDRICK, US
[72] MCCULLOUGH, JOCELYN MICHELLE, US
[72] VERSTRAETE, PIERRE DANIEL, BE
[72] BARROS, ANDRE MARTIM, BE
[72] CARDOSO, MARIANA B. T., BE
[72] SMETS, JOHAN, BE
[72] IBERI, VIGHTER, US
[72] HUFFORD, KAREN DIANA, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-23
[86] 2023-08-08 (PCT/US2023/071807)
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[30] US (63/397,407) 2022-08-12

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[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 9/22 (2006.01) C12N 15/11 (2006.01) C12N 15/88 (2006.01)**
[25] EN
[54] **MODIFIED GUIDE RNAS FOR GENE EDITING**
[54] **ARN GUIDES MODIFIES POUR L'EDITION GENIQUE**
[72] MULEPATI, SABIN, US
[72] STRETZ, LINDSEY JEAN, US
[72] YOUNG, MICHELLE, US
[72] CHOI, SUNG HEE, US
[72] PARMAR, RUBINA GIARE, US
[72] YOON, EUN SOO, US
[72] CHEN, WEIJUN, US
[71] INTELLIA THERAPEUTICS, INC., US
[85] 2024-04-18
[86] 2022-11-02 (PCT/US2022/079121)
[87] (WO2023/081687)
[30] US (63/275,426) 2021-11-03
[30] US (63/352,161) 2022-06-14

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **BIOSYNTHETIC BIPARATOPIC OR BISPECIFIC BINDING MOLECULES WITH ENHANCED EFFECTOR FUNCTIONS**
[54] **MOLECULES DE LIAISON BIPARATOPIQUES OU BISPECIFIQUES AYANT DES FONCTIONS EFFECTRICES AMELIOREES**
[72] ZWOLAK, ADAM, US
[72] HO, JASON, US
[72] TESTA JR., JAMES, US
[72] HANSEN, MICHAEL RIIS, US
[72] LIN-SCHMIDT, XIEFAN, US
[72] WHITE, IAN, US
[72] SINGH, SANJAYA, US
[71] JANSSEN BIOTECH, INC., US
[85] 2024-04-18
[86] 2022-10-19 (PCT/US2022/078355)
[87] (WO2023/069986)
[30] US (63/270,031) 2021-10-20

[21] **3,236,003**
[13] A1
[51] **Int.Cl. E21B 33/04 (2006.01) E21B 33/129 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR HANGER AND PACKOFF LOCK RING ACTUATION**
[54] **SYSTEME ET PROCEDE D'ACTIONNEMENT DE BAGUE DE BLOCAGE DE SUPPORT ET DE DISPOSITIF D'ETANCHEITE**
[72] CHENG, SAMUEL, US
[72] PATEL, PRASHANT, US
[72] ZHANG, XICHANG, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2024-04-23
[86] 2022-10-24 (PCT/US2022/078574)
[87] (WO2023/076851)
[30] US (17/514,270) 2021-10-29

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[13] A1
[51] **Int.Cl. D01F 6/62 (2006.01)**
[25] EN
[54] **POLYTRIMETHYLENE TEREPHTHALATE FIBER AND METHOD FOR PRODUCING SAME**
[54] **FIBRE DE POLYTRIMETHYLENE TEREPHTALATE ET SON PROCEDE DE PRODUCTION**
[72] YONEDA, HIROYUKI, JP
[71] TEIJIN FRONTIER CO., LTD., JP
[85] 2024-04-17
[86] 2022-10-14 (PCT/JP2022/038311)
[87] (WO2023/068178)
[30] JP (2021-170677) 2021-10-19
[30] JP (2021-189867) 2021-11-24

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[13] A1
[51] **Int.Cl. H04W 36/00 (2009.01) H04W 36/04 (2009.01)**
[25] EN
[54] **HANDOVER METHOD AND COMMUNICATION DEVICE**
[54] **PROCEDE ET APPAREIL DE TRANSFERT, ET DISPOSITIF ET SUPPORT DE STOCKAGE LISIBLE**
[72] CHEN, JINGJING, CN
[72] XIE, FANG, CN
[71] CHINA MOBILE COMMUNICATION CO., LTD RESEARCH INSTITUTE, CN
[71] CHINA MOBILE COMMUNICATIONS GROUP CO., LTD., CN
[85] 2024-04-19
[86] 2022-10-21 (PCT/CN2022/126601)
[87] (WO2023/066360)
[30] CN (202111228027.2) 2021-10-21

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING SYSTEMIC LUPUS ERYTHEMATOSUS (SLE) WITH MOSUNETUZUMAB**
[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DU LUPUS ERYTHEMATEUX DISSEMINE (SLE) PAR MOSUNETUZUMAB**
[72] LIMB, SUSAN LEE, US
[72] CASCINO, MATTHEW DOMINIC, US
[72] NICOLL, MONIQUE, US
[72] GARG, JAY PRAKASH, US
[72] LIAO, MICHAEL ZECONG, US
[71] GENENTECH, INC., US
[85] 2024-04-18
[86] 2022-11-14 (PCT/US2022/079787)
[87] (WO2023/091887)
[30] US (63/264,139) 2021-11-16
[30] US (63/378,353) 2022-10-19

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[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01) A24F 40/51 (2020.01) A24F 40/53 (2020.01) A24F 40/20 (2020.01)**
[25] EN
[54] **AEROSOL-GENERATING ARTICLE WITH PHOTOLUMINESCENT TAGGANT**
[54] **ARTICLE DE GENERATION D'AEROSOL AVEC TRACEUR PHOTOLUMINESCENT**
[72] BESSANT, MICHEL, CH
[72] MONNEY, PATRICK PHILIPPE, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2024-04-23
[86] 2022-10-25 (PCT/EP2022/079729)
[87] (WO2023/072909)
[30] CN (PCT/CN2021/126124) 2021-10-25

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[13] A1
[51] **Int.Cl. B01J 23/78 (2006.01) B01D 53/48 (2006.01) B01J 21/12 (2006.01)**
[25] EN
[54] **CATALYST AND APPLICATION, AND METHOD FOR REMOVING CARBONYL SULFIDE IN NATURAL GAS**
[54] **CATALYSEUR ET UTILISATION, ET PROCEDE D'ELIMINATION DU SULFURE DE CARBONYLE DANS LE GAZ NATUREL**
[72] LIU, JIANLI, CN
[72] LIU, ZENGRANG, CN
[72] XU, CUICUI, CN
[72] LIU, AIHUA, CN
[72] YUAN, HUIZHI, CN
[72] TAO, WEIDONG, CN
[72] SONG, WANLIN, CN
[72] CHANG, WENZHI, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC QILU BRANCH COMPANY, CN
[85] 2024-04-19
[86] 2022-10-26 (PCT/CN2022/127628)
[87] (WO2023/072134)
[30] CN (202111250608.6) 2021-10-26

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[13] A1
[51] **Int.Cl. A01G 23/083 (2006.01) F16H 61/4043 (2010.01) A01G 23/095 (2006.01)**
[25] EN
[54] **CONTROL CIRCUIT FOR A HARVESTER HEAD**
[54] **CIRCUIT DE COMMANDE POUR UNE TETE D'ABATTAGE-EBRANCHAGE**
[72] LIUKKUNEN, TOMMI, FI
[71] PONSSE OYJ, FI
[85] 2024-04-19
[86] 2022-10-19 (PCT/FI2022/050694)
[87] (WO2023/067245)
[30] FI (20216093) 2021-10-21

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[13] A1
[51] **Int.Cl. C11D 9/00 (2006.01) C11D 9/02 (2006.01) C11D 9/44 (2006.01) C11D 13/00 (2006.01)**
[25] EN
[54] **SOLID DISSOLVABLE COMPOSITIONS**
[54] **COMPOSITIONS SOLUBLES SOLIDES**
[72] LYNCH, MATTHEW LAWRENCE, US
[72] ILLIE, BRANDON PHILIP, US
[72] WILLIAMS, KRISTIN RHEDRICK, US
[72] MCCULLOUGH, JOCELYN MICHELLE, US
[72] DRIA, JAMIE LYNN, US
[72] IBERI, VIGHTER, US
[72] HUFFORD, KAREN DIANA, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-23
[86] 2023-08-08 (PCT/US2023/071808)
[87] (WO2024/036122)
[30] US (63/397,408) 2022-08-12

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[13] A1
[51] **Int.Cl. A61L 27/10 (2006.01) A61L 27/38 (2006.01) A61L 27/54 (2006.01)**
[25] EN
[54] **IMPLANT**
[54] **IMPLANT**
[72] POOLOGASUNDARAMPILLAI, GOWSIHAN, GB
[71] THE UNIVERSITY OF BIRMINGHAM, GB
[85] 2024-04-19
[86] 2022-10-20 (PCT/GB2022/052675)
[87] (WO2023/067343)
[30] GB (2115042.0) 2021-10-20

[21] **3,236,015**
[13] A1
[51] **Int.Cl. F15B 15/28 (2006.01) F15B 15/14 (2006.01)**
[25] EN
[54] **HYDRAULIC CYLINDER WITH A SIDE LOAD SENSOR RETENTION PIN**
[54] **VERIN HYDRAULIQUE DOTE D'UNE BROCHE DE RETENUE DE CAPTEUR DE CHARGE LATERALE**
[72] MARQUETTE, MATTHEW S., US
[72] JAYAKODY, NIMESH AKALANKA, US
[72] YEUNG, THOMAS K., US
[72] GOSLOVICH, KURT S., US
[72] SETTLES, TROY A., US
[72] CROISANT, BRUCE A., US
[71] CATERPILLAR INC., US
[85] 2024-04-23
[86] 2022-10-05 (PCT/US2022/045726)
[87] (WO2023/076002)
[30] US (17/514,745) 2021-10-29

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[13] A1
[51] **Int.Cl. G06V 20/17 (2022.01) G06T 7/55 (2017.01) G06V 20/10 (2022.01)**
[25] EN
[54] **THREE-DIMENSIONAL BUILDING MODEL GENERATION BASED ON CLASSIFICATION OF IMAGE ELEMENTS**
[54] **GENERATION DE MODELE DE BATIMENT TRIDIMENSIONNEL SUR LA BASE D'UNE CLASSIFICATION D'ELEMENTS D'IMAGE**
[72] LANGERMAN, JACK MICHAEL, US
[72] ENDRES, IAN, US
[72] RETHAGE, DARIO, US
[72] LI, PANFENG, US
[71] HOVER INC., US
[85] 2024-04-23
[86] 2022-10-21 (PCT/US2022/078558)
[87] (WO2023/070115)
[30] US (63/271,197) 2021-10-24

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[13] A1
[51] **Int.Cl. A61K 31/485 (2006.01) A61K 31/49 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHODS OF TREATING AGITATION ASSOCIATED WITH ALZHEIMER'S DISEASE**
[54] **METHODES DE TRAITEMENT DE L'AGITATION ASSOCIEE A LA MALADIE D'ALZHEIMER**
[72] DUBE, SANJAY, US
[71] AVANIR PHARMACEUTICALS, INC., US
[85] 2024-04-23
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[87] (WO2023/076414)
[30] US (63/272,471) 2021-10-27
[30] US (63/275,091) 2021-11-03

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[54] **PROTEINS COMPRISING THE EXTRACELLULAR DOMAIN OF P75NTR**
[54] **PROTEINES COMPRENANT LE DOMAINE EXTRACELLULAIRE DE P75NTR**
[72] LI, MENG AMY, GB
[72] BARDELLI, MARCO, GB
[71] PETMEDIX LTD, GB
[85] 2024-04-19
[86] 2022-10-21 (PCT/GB2022/052692)
[87] (WO2023/067358)
[30] GB (2115098.2) 2021-10-21
[30] US (17/506,876) 2021-10-21

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[13] A1
[51] **Int.Cl. C04B 20/04 (2006.01)**
[25] EN
[54] **PROCESS FOR ACTIVATING CLAYS WITH HIGH RESIDUAL MOISTURE**
[54] **PROCEDE D'ACTIVATION D'ARGILES A HUMIDITE RESIDUELLE ELEVEE**
[72] FEISS, MARC, DE
[72] GUSSMANN, ROLF, DE
[72] STREIT, NORBERT, DE
[71] KHD HUMBOLDT WEDAG GMBH, DE
[85] 2024-04-18
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[30] DE (10 2021 128 060.5) 2021-10-28

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[13] A1
[51] **Int.Cl. C22C 38/02 (2006.01) B32B 15/01 (2006.01) C21D 1/22 (2006.01) C21D 6/00 (2006.01) C21D 8/02 (2006.01) C21D 9/46 (2006.01) C22C 38/00 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/44 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01) C22C 38/54 (2006.01) C23C 2/06 (2006.01) C23C 2/12 (2006.01)**
[25] EN
[54] **COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF**
[54] **TOLE D'ACIER LAMINEE A FROID ET TRAITEE THERMIQUEMENT ET SON PROCEDE DE FABRICATION**
[72] LIN, BRIAN, US
[72] CHALLA, VENKATA SAI ANANTH, US
[72] SONG, HYOJIN, US
[72] PANAHI, DAMON, US
[71] ARCELORMITTAL, LU
[85] 2024-04-19
[86] 2021-10-29 (PCT/IB2021/060010)
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[13] A1
[51] **Int.Cl. A61K 47/02 (2006.01) B22F 1/102 (2022.01) A61K 47/06 (2006.01)**
[25] EN
[54] **BIOSOLUBLE POLYMER OR PARTICLE FOR DELIVERY OF AN ACTIVE AGENT AND A METHOD FOR THE PRODUCTION**
[54] **POLYMERE OU PARTICULE BIOSOLUBLE POUR L'ADMINISTRATION D'UN AGENT ACTIF ET SON PROCEDE DE PRODUCTION**
[72] TIJANI, AMINA, NL
[71] TIJANI HOLDING B.V., NL
[85] 2024-04-17
[86] 2022-10-19 (PCT/NL2022/050593)
[87] (WO2023/068928)
[30] EP (21203511.7) 2021-10-19

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[13] A1
[51] **Int.Cl. A61B 5/15 (2006.01)**
[25] EN
[54] **DEVICES FOR COLLECTING CAPILLARY BLOOD AND METHODS FOR SAME**
[54] **DISPOSITIFS DE COLLECTE DE SANG CAPILLAIRE ET METHODES ASSOCIEES**
[72] DIJU, TAUFEEQ, ELAHI, IE
[72] GAHAN, KATHLEEN, IE
[72] RYAN, RONAN, P., IE
[71] PAULUS HOLDINGS LIMITED, IE
[85] 2024-04-19
[86] 2022-10-19 (PCT/IB2022/000618)
[87] (WO2023/067389)
[30] US (63/257,630) 2021-10-20
[30] US (17/591,342) 2022-02-02

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[13] A1
[51] **Int.Cl. A61K 31/465 (2006.01) A23G 4/20 (2006.01) A61K 9/68 (2006.01)**
[25] EN
[54] **NICOTINE CHEWING GUM**
[54] **GOMME A MACHER A BASE DE NICOTINE**
[72] EDMAN, MARTIN, SE
[72] NILGARD, JILL, SE
[71] MCNEIL AB, SE
[85] 2024-04-19
[86] 2022-10-20 (PCT/EP2022/079258)
[87] (WO2023/067087)
[30] SE (2151282-7) 2021-10-21

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[13] A1
[51] **Int.Cl. A61B 1/00 (2006.01) A61B 3/00 (2006.01) A61F 9/00 (2006.01)**
[25] EN
[54] **OPTICAL SYSTEM FOR OBTAINING SURGICAL INFORMATION**
[54] **SYSTEME OPTIQUE POUR OBTENIR DES INFORMATIONS CHIRURGICALES**
[72] PARK, JOHN, US
[72] XIANG, QING, US
[72] DURVASULA, RAVI, US
[72] SMITH, RONALD T., US
[71] ALCON INC., CH
[85] 2024-04-23
[86] 2022-12-07 (PCT/IB2022/061887)
[87] (WO2023/105442)
[30] US (63/265,165) 2021-12-09

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[13] A1
[51] **Int.Cl. B65D 71/50 (2006.01)**
[25] EN
[54] **CONTAINER CARRIER**
[54] **SUPPORT DE RECIPIENT**
[72] BOWMAN, VINCENT, US
[72] RUSTAD, GRIFFIN E., US
[72] KIM, HYUNCHUL, US
[72] FORNOF, JACOB M., US
[71] ILLINOIS TOOL WORKS INC., US
[85] 2024-04-23
[86] 2022-11-07 (PCT/US2022/049120)
[87] (WO2023/081459)
[30] US (63/276,296) 2021-11-05
[30] US (63/276,304) 2021-11-05
[30] US (63/276,309) 2021-11-05
[30] US (17/981,064) 2022-11-04

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[13] A1
[51] **Int.Cl. B67D 7/04 (2010.01) B67D 9/00 (2010.01) B63B 25/24 (2006.01)**
[25] EN
[54] **LIQUID LOADING ASSEMBLY FOR FILLING A SHIP-HOLD OR TANK**
[54] **ENSEMBLE DE CHARGEMENT DE LIQUIDE POUR LE REMPLISSAGE D'UNE CALE DE NAVIRE OU D'UN RESERVOIR**
[72] BO, RUNE, NO
[72] AASEN, HELGE K., NO
[71] GBA MARINE AS, NO
[85] 2024-04-17
[86] 2022-10-25 (PCT/NO2022/050241)
[87] (WO2023/075605)
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[51] **Int.Cl. H04N 23/951 (2023.01) G06N 3/045 (2023.01) H04N 23/68 (2023.01) G06T 1/20 (2006.01) G06T 1/40 (2006.01)**
[25] EN
[54] **EFFICIENT VIDEO EXECUTION METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME D'EXECUTION DE VIDEO EFFICACE**
[72] GORDON, KEVIN, CA
[72] D'AMORE, COLIN, CA
[72] PUT, TIMOTHY, CA
[71] SPECTRUM OPTIX INC., CA
[85] 2024-04-19
[86] 2022-10-21 (PCT/IB2022/060116)
[87] (WO2023/067557)
[30] US (63/270,325) 2021-10-21

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[13] A1
[51] **Int.Cl. G06F 3/16 (2006.01)**
[25] EN
[54] **BITSTREAM REPRESENTING AUDIO IN AN ENVIRONMENT**
[54] **FLUX BINAIRE DE REPRESENTATION AUDIO DANS UN ENVIRONNEMENT**
[72] KOPPENS, JEROEN GERARDUS HENRICUS, NL
[71] KONINKLIJKE PHILIPS N.V., NL
[85] 2024-04-19
[86] 2022-10-20 (PCT/EP2022/079285)
[87] (WO2023/072739)
[30] EP (21204639.5) 2021-10-26

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[13] A1
[51] **Int.Cl. C07K 1/113 (2006.01) C12N 9/10 (2006.01) C12N 15/11 (2006.01) C12P 21/02 (2006.01) C40B 40/08 (2006.01) C40B 40/10 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING COMPOUNDS, METHOD FOR PRODUCING COMPOUND LIBRARY, COMPOUND LIBRARY, AND SCREENING METHOD**
[54] **PROCEDE DE PRODUCTION DE COMPOSES, PROCEDE DE PRODUCTION D'UNE BIBLIOTHEQUE DE COMPOSES, BIBLIOTHEQUE DE COMPOSES ET PROCEDE DE CRIBLAGE**
[72] SUGA, HIROAKI, JP
[72] GOTO, YUKI, JP
[72] ZHANG YUCHEN, JP
[72] OKADA, MASAHIRO, JP
[71] THE UNIVERSITY OF TOKYO, JP
[85] 2024-04-19
[86] 2022-10-19 (PCT/JP2022/038924)
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[30] JP (2021-170768) 2021-10-19

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[13] A1
[51] **Int.Cl. H04N 21/262 (2011.01) H04N 21/431 (2011.01) H04N 21/462 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PREDICTIVE SELECTION OF PAUSE POINTS**
[54] **SYSTEMES ET PROCEDES DE SELECTION PREDICTIVE DE POINTS DE PAUSE**
[72] DHANWAL, ISHAN, IN
[72] GILL, SIMRANJEET, IN
[72] MAKKAR, ANJUM, IN
[72] SEHGAL, VIVEK, IN
[72] HARB, REDA, US
[71] ROVI GUIDES, INC., US
[85] 2024-04-17
[86] 2022-10-12 (PCT/US2022/077976)
[87] (WO2023/069853)
[30] US (17/503,997) 2021-10-18
[30] US (17/504,007) 2021-10-18

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[13] A1
[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6888 (2018.01)**
[25] EN
[54] **DNA BASED IDENTIFICATION OF SEAFOOD SPECIES IN SAMPLES**
[54] **IDENTIFICATION A BASE D'ADN D'ESPECES DE FRUITS DE MER DANS DES ECHANTILLONS**
[72] GENSE, KRISTINA, AT
[72] PETERSEIL, VERENA, AT
[72] LICINA, ALMA, AT
[71] FFOQSI GMBH, AT
[71] OSTERREICHISCHE AGENTUR FUR GESUNDHEIT UND ERNAHRUNGSSICHERHEIT GMBH, AT
[71] LVA GMBH, AT
[85] 2024-04-19
[86] 2022-10-25 (PCT/EP2022/079764)
[87] (WO2023/072922)
[30] EP (21204456.4) 2021-10-25

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS TARGETING BCMA AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS CIBLANT BCMA ET LEURS PROCEDES D'UTILISATION**
[72] CURLEY, MICHAEL, US
[72] ERYILMAZ, ERTAN, US
[72] JENNINGS, SHAWN, US
[72] TALARICO, LEEANN, US
[72] HICKMAN, TAYLOR, US
[72] WONG, CHRISTINA SHEAU FEN, US
[72] FRASER, KATHRYN, US
[72] WANG, HAIQING, US
[72] PIERSIGILLI, ALESSANDRA, US
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP
[85] 2024-04-19
[86] 2022-10-19 (PCT/JP2022/040573)
[87] (WO2023/068382)
[30] US (63/257,822) 2021-10-20
[30] US (63/257,846) 2021-10-20

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[13] A1
[51] **Int.Cl. H01M 10/0567 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **LITHIUM SECONDARY BATTERY**
[54] **BATTERIE SECONDAIRE AU LITHIUM**
[72] OH, JEONG WOO, KR
[72] LEE, CHUL HAENG, KR
[72] LEE, HO CHUN, KR
[72] PARK, JONG WON, KR
[72] PARK, DOH HEE, KR
[71] LG ENERGY SOLUTION, LTD., KR
[71] DAEGU GYEONGBUK INSTITUTE OF SCIENCE & TECHNOLOGY, KR
[85] 2024-04-19
[86] 2022-11-02 (PCT/KR2022/017011)
[87] (WO2023/085678)
[30] KR (10-2021-0154694) 2021-11-11

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[13] A1
[51] **Int.Cl. B32B 21/04 (2006.01) C08G 18/10 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C09J 175/08 (2006.01)**
[25] EN
[54] **MOISTURE CURABLE ADHESIVE COMPOSITION**
[54] **COMPOSITION ADHESIVES DURCISSABLES A L'HUMIDITE**
[72] VISHAL, PATIL, US
[72] WANG, XIANPING, US
[71] ARKEMA FRANCE, FR
[85] 2024-04-19
[86] 2022-10-06 (PCT/US2022/045885)
[87] (WO2023/069254)
[30] US (63/270,301) 2021-10-21

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[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4035 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **INDOLINES AS PROTAC COMPOUNDS**
[54] **INDOLINES UTILISEES EN TANT QUE COMPOSES PROTAC**
[72] BLAGG, JULIAN, GB
[72] DRYSDALE, MARTIN, GB
[72] CLARK, DAVID, GB
[71] NEOPHORE LIMITED, GB
[85] 2024-04-23
[86] 2022-11-28 (PCT/GB2022/053005)
[87] (WO2023/094833)
[30] GB (2117225.9) 2021-11-29

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[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 47/36 (2006.01) A61K 31/137 (2006.01) A61K 47/04 (2006.01) A61K 47/08 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS WITH ENHANCED STABILITY PROFILES**
[54] **COMPOSITIONS PHARMACEUTIQUES A PROFILS DE STABILITE AMELIORES**
[72] WARGACKI, STEPHEN PAUL, US
[72] KAINTHAN, RAJESH KUMAR, US
[72] BUONO, VINCENT, US
[72] SCHOBEL, ALEXANDER MARK, US
[72] KOONS, MICHAEL, US
[72] GOODRICH, MICHAEL, US
[72] TSODIKOV, GREGORY, US
[71] AQUESTIVE THERAPEUTICS, INC., US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/047456)
[87] (WO2023/069733)
[30] US (63/271,001) 2021-10-22

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[13] A1
[51] **Int.Cl. A61B 3/00 (2006.01) A61B 90/30 (2016.01) A61F 9/007 (2006.01) A61F 9/008 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR LIGHT MODULATION DURING OPHTHALMIC SURGERY**
[54] **SYSTEMES ET PROCEDES DE MODULATION DE LUMIERE PENDANT LA CHIRURGIE OPHTALMIQUE**
[72] HALLEN, PAUL R., US
[72] OVCHINNIKOV, MIKHAIL, US
[71] ALCON INC., CH
[85] 2024-04-23
[86] 2022-11-30 (PCT/IB2022/061616)
[87] (WO2023/105356)
[30] US (63/265,156) 2021-12-09

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[13] A1
[51] **Int.Cl. C07D 209/44 (2006.01) A61K 31/4035 (2006.01) C07D 217/06 (2006.01)**
[25] EN
[54] **ISOINDOLINES AS PMS2 INHIBITORS**
[54] **ISOINDOLINES EN TANT QU'INHIBITEURS DE PMS2**
[72] JULIAN, BLAGG, GB
[72] DRYSDALE, MARTIN, GB
[72] CLARK, DAVID, GB
[72] WINSHIP, PAUL, GB
[71] NEOPHORE LIMITED, GB
[85] 2024-04-23
[86] 2022-11-28 (PCT/GB2022/053006)
[87] (WO2023/094834)
[30] GB (2117224.2) 2021-11-29

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[13] A1
[51] **Int.Cl. D04H 3/015 (2012.01) C09K 8/584 (2006.01) C09K 8/40 (2006.01)**
[25] EN
[54] **SURFACTANT IMPREGNATED LOST CIRCULATION, SCRUBBING, AND SCOURING MATERIAL**
[54] **MATERIAU DE RECURAGE, DE LAVAGE ET DE PERTE DE CIRCULATION IMPREGNE DE TENSIOACTIF**
[72] SCHULTZ, GARRETT, US
[72] CLARK, JORDAN, US
[71] SELECT CHEMISTRY, LLC, US
[85] 2024-04-19
[86] 2022-10-06 (PCT/US2022/045910)
[87] (WO2023/076014)
[30] US (63/272,772) 2021-10-28

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[13] A1
[51] **Int.Cl. H01M 10/0569 (2010.01) H01M 10/052 (2010.01) H01M 4/38 (2006.01)**
[25] EN
[54] **ELECTROLYTE SOLVENTS AND METHODS FOR LITHIUM METAL AND LITHIUM ION BATTERIES**
[54] **SOLVANTS D'ELECTROLYTE ET PROCEDES POUR DES BATTERIES LITHIUM-ION ET LITHIUM-METAL**
[72] CUI, YI, US
[72] BAO, ZHENAN, US
[72] CHEN, YUELANG, US
[72] YU, ZHIAO, US
[72] LIN, YANGJU, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANDFORD JUNIOR UNIVERSITY, US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/047472)
[87] (WO2023/069740)
[30] US (63/270,506) 2021-10-21
[30] US (63/283,828) 2021-11-29

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[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 9/20 (2006.01) A61K 31/7042 (2006.01) A61K 31/7068 (2006.01) A61K 47/10 (2017.01) A61P 7/06 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING 2'-DEOXYCYTIDINE ANALOGS AND USE THEREOF FOR THE TREATMENT OF SICKLE CELL DISEASE, THALASSEMIA, AND CANCERS**
[54] **COMPOSITIONS COMPRENANT DES ANALOGUES DE LA 2'-DESOXYCYTIDINE ET UTILISATION ASSOCIEE POUR LE TRAITEMENT DE LA DREPANOCYTOSE, DE LA THALASSEMIE ET DE CANCERS**
[72] VADIVELU, SANTHOSH, US
[71] AKIRABIO, INC., US
[85] 2024-04-19
[86] 2022-10-19 (PCT/US2022/047146)
[87] (WO2023/069529)
[30] US (63/257,541) 2021-10-19

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[13] A1
[51] **Int.Cl. B65D 85/07 (2017.01) B65D 71/04 (2006.01)**
[25] EN
[54] **PACKAGED FIBROUS MATERIAL BALES COMPRISING LOWER SHEET**
[54] **BALLES DE MATIERES FIBREUSES EMBALLEES COMPRENANT UNE FEUILLE INFERIEURE**
[72] CAENEN, PHILIP, US
[72] BUNDREN, CHRISTOPHER, US
[72] LOIX, CHRISTOPHE, US
[72] OLAERTS, FRANK, US
[72] SANDERSON, WILLIAM, US
[71] ACETATE INTERNATIONAL LLC, US
[85] 2024-04-19
[86] 2022-10-20 (PCT/US2022/047299)
[87] (WO2023/069634)
[30] US (63/270,483) 2021-10-21

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[13] A1
[51] **Int.Cl. C12N 9/64 (2006.01) A61P 35/00 (2006.01) C07K 14/00 (2006.01) C07K 16/40 (2006.01)**
[25] EN
[54] **SPECIFIC BINDING MOLECULES FOR FIBROBLAST ACTIVATION PROTEIN (FAP)**
[54] **MOLECULES DE LIAISON SPECIFIQUES POUR UNE PROTEINE D'ACTIVATION DES FIBROBLASTES (FAP)**
[72] BOSSE-DOENECKE, EVA, DE
[72] GLOSER-BRAEUNIG, MANJA, DE
[72] LOTZE, JONATHAN, DE
[72] KATZSCHMANN, ANJA, DE
[72] COBURGER, INA, DE
[72] BOECKER, HEIKE, DE
[72] BOBOLOWSKI, HANNA, DE
[71] NAVIGO PROTEINS GMBH, DE
[85] 2024-04-23
[86] 2022-11-29 (PCT/EP2022/083725)
[87] (WO2023/094704)
[30] EP (21211160.3) 2021-11-29
[30] EP (22156353.9) 2022-02-11

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[13] A1
[51] **Int.Cl. B60G 21/05 (2006.01) B60G 11/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR REDUCING SHAKE FOR A VEHICLE HAVING A SOLID FRONT AXLE**
[54] **SYSTEME DE REDUCTION DE SECOUSSES POUR UN VEHICULE AYANT UN ESSIEU AVANT SOLIDE**
[72] GOLDSBY, GLENN M., US
[71] GOLDSBY, GLENN M., US
[85] 2024-04-19
[86] 2022-10-20 (PCT/US2022/047309)
[87] (WO2023/069642)
[30] US (63/257,911) 2021-10-20

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[13] A1
[51] **Int.Cl. A61F 9/00 (2006.01) A61F 9/007 (2006.01)**
[25] EN
[54] **SCHLEMM'S CANAL DRUG ELUTING DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE D'ELUTION DE MEDICAMENT DANS LE CANAL DE SCHLEMM**
[72] TRAUTHEN, BRETT A., US
[71] ALCON INC., CH
[85] 2024-04-23
[86] 2023-01-05 (PCT/IB2023/050084)
[87] (WO2023/131893)
[30] US (63/297,133) 2022-01-06

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[13] A1
[51] **Int.Cl. A61K 38/48 (2006.01) A61K 31/198 (2006.01) A61P 11/06 (2006.01) A61P 11/12 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING RESPIRATORY DISEASES**
[54] **METHODES DE TRAITEMENT DE MALADIES RESPIRATOIRES**
[72] MORRIS, DAVID, AU
[72] VALLE, SARAH, AU
[72] MEKKAWY, AHMED, AU
[72] PILLAI, KRISHNA, AU
[71] MUCPHARM PTY LTD, AU
[85] 2024-04-23
[86] 2022-10-27 (PCT/AU2022/051294)
[87] (WO2023/070158)
[30] AU (2021903441) 2021-10-27

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[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS TO PREVENT DISULFIDE SCRAMBLING FOR MS-BASED PROTEOMICS**
[54] **PROCEDES POUR EMPECHER UN BROUILLAGE DES DISULFURES POUR PROTEOMIQUE BASEE SUR MS**
[72] KLEINBERG, ANDREW, US
[72] MAO, YUAN, US
[72] LI, NING, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-04-19
[86] 2022-10-28 (PCT/US2022/048242)
[87] (WO2023/076612)
[30] US (63/274,256) 2021-11-01

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[13] A1
[51] **Int.Cl. G01B 17/02 (2006.01) G01B 17/06 (2006.01) G01B 17/08 (2006.01) G01N 29/04 (2006.01) G01N 29/44 (2006.01)**
[25] EN
[54] **ULTRASONIC REMOTE CONDITION MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE D'ETAT A DISTANCE A ULTRASONS**
[72] SAYEGH, ANTHONY E., US
[71] EVIDENT SCIENTIFIC, INC., US
[85] 2024-04-19
[86] 2022-10-10 (PCT/US2022/077838)
[87] (WO2023/069845)
[30] US (63/270,750) 2021-10-22

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[51] **Int.Cl. C12N 15/63 (2006.01) A61K 31/711 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **GENE THERAPY FOR SPINAL MUSCULAR ATROPHY**
[54] **THERAPIE GENIQUE POUR AMYOTROPHIE SPINALE**
[72] XIE, JUN, US
[72] GAO, GUANGPING, US
[72] XIE, QING, US
[72] MA, HONG, US
[71] UNIVERSITY OF MASSACHUSETTS, US
[85] 2024-04-18
[86] 2022-11-22 (PCT/US2022/080315)
[87] (WO2023/097214)
[30] US (63/282,246) 2021-11-23
[30] US (63/341,650) 2022-05-13

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[13] A1
[51] **Int.Cl. E21B 21/08 (2006.01) E21B 43/12 (2006.01) E21B 47/10 (2012.01)**
[25] EN
[54] **DRILLING FLUID DILUTION SYSTEM**
[54] **SYSTEME DE DILUTION DE FLUIDE DE FORAGE**
[72] JOLING, MICHAEL, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-04-19
[86] 2022-10-20 (PCT/US2022/078457)
[87] (WO2023/070050)
[30] US (63/257,641) 2021-10-20

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[13] A1
[51] **Int.Cl. A61B 3/00 (2006.01) A61B 3/12 (2006.01) A61B 3/14 (2006.01)**
[25] EN
[54] **OBTAINING OPHTHALMIC INFORMATION USING MULTICOLOR ENDOILLUMINATION WITH HYPERSPECTRAL IMAGING**
[54] **OBTENTION D'INFORMATIONS OPHTALMIQUES A L'AIDE D'UN ENDOECLAIRAGE MULTICOLORE AVEC IMAGERIE HYPERSPECTRALE**
[72] PARK, JOHN, US
[72] TRIPATHI, ASHOK BURTON, US
[72] XIANG, QING, US
[71] ALCON INC., CH
[85] 2024-04-23
[86] 2022-12-13 (PCT/IB2022/062157)
[87] (WO2023/111858)
[30] US (63/290,538) 2021-12-16

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[13] A1
[51] **Int.Cl. G06Q 30/0601 (2023.01) G06F 16/27 (2019.01)**
[25] EN
[54] **KEY-BASED HANDLING OF PRODUCT PURCHASES**
[54] **GESTION A BASE DE CLES D'ACHATS DE PRODUITS**
[72] POULAIN, YOANN, FR
[72] CULTIEN, CHARLES MICHEL PIERRE GUILLAUME, FR
[72] VALIGIANI, GREGORY, FR
[72] DI NOIA, LUIGI, FR
[72] SARCEY, PHILIPPE, FR
[71] AMADEUS S.A.S., FR
[85] 2024-04-23
[86] 2022-10-21 (PCT/EP2022/079386)
[87] (WO2023/072753)
[30] US (17/510,876) 2021-10-26

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[13] A1
[51] **Int.Cl. G01N 1/10 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **METHODS OF EVALUATING MICRO RNA**
[54] **PROCEDES D'EVALUATION DE MICRO-ARN**
[72] BRUN, CECILIA, FR
[72] ROUX, PIERRE-FRANCOIS, FR
[72] MANGEZ, CLAIRE, FR
[72] ISON, RENNY, US
[72] DONNELLY, RYAN F., IE
[71] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2024-04-19
[86] 2022-10-21 (PCT/US2022/078526)
[87] (WO2023/070095)
[30] EP (21306470.2) 2021-10-22

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[13] A1
[51] **Int.Cl. B65D 71/50 (2006.01)**
[25] EN
[54] **CONTAINER CARRIER**
[54] **SUPPORT POUR RECIPIENTS**
[72] RUSTAD, GRIFFIN E., US
[72] SAMARAS, CHRISTOPHER J., US
[72] KIM, HYUNCHUL, US
[72] FORNOF, JACOB M., US
[71] ILLINOIS TOOL WORKS INC., US
[85] 2024-04-23
[86] 2022-11-07 (PCT/US2022/049124)
[87] (WO2023/081460)
[30] US (63/276,280) 2021-11-05
[30] US (63/348,612) 2022-06-03
[30] US (17/981,081) 2022-11-04

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[13] A1
[51] **Int.Cl. C07D 267/10 (2006.01) C07D 277/62 (2006.01) C07D 333/10 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01)**
[25] EN
[54] **CERTAIN N-(1-CYANO-2-PHENYLETHYL)-1,4-OXAZEPANE-2-CARBOXAMIDES FOR TREATING CHRONIC RHINOSINUSITIS**
[54] **UTILISATIONS DE CERTAINS N-(1-CYANO-2-PHENYLETHYL)-1,4-OXAZEPANE-2-CARBOXAMIDES POUR TRAITER LA RHINO-SINUSITE CHRONIQUE**
[72] TEPER, ARIEL, US
[72] FERNANDEZ, CARLOS, US
[72] CIPOLLA, DAVID, US
[71] INSMED INCORPORATED, US
[85] 2024-04-23
[86] 2022-10-28 (PCT/US2022/048249)
[87] (WO2023/076615)
[30] US (63/273,540) 2021-10-29

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[51] **Int.Cl. A61K 38/17 (2006.01) A61P 9/00 (2006.01) C07K 14/705 (2006.01) C07K 16/18 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **DSG2 COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS DSG2 ET METHODES**
[72] FOO, SHI YIN, US
[72] TYLER, RYAN EDWARD, US
[71] ARVADA THERAPEUTICS, INC., US
[85] 2024-04-19
[86] 2022-11-02 (PCT/US2022/079106)
[87] (WO2023/081674)
[30] US (63/274,707) 2021-11-02

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[13] A1
[51] **Int.Cl. A61K 31/497 (2006.01) A61K 31/5377 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **PIPERIDINYLPYRAZINE-CARBOXAMIDE COMPOUNDS FOR TREATING AND PREVENTING CANCER AND FOR DEGRADING BTK**
[54] **COMPOSES DE PIPERIDINYLPYRAZINE-CARBOXAMIDE POUR LE TRAITEMENT ET LA PREVENTION DU CANCER ET POUR LA DEGRADATION DE BTK**
[72] BROWN, ROBERT J., US
[72] SANDS, ARTHUR T., US
[71] NURIX THERAPEUTICS, INC., US
[85] 2024-04-23
[86] 2022-10-25 (PCT/US2022/047767)
[87] (WO2023/076303)
[30] US (63/263,081) 2021-10-26
[30] US (63/391,671) 2022-07-22

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[13] A1
[51] **Int.Cl. A61F 7/02 (2006.01) A61K 35/17 (2015.01) A61F 7/08 (2006.01) A61K 9/06 (2006.01) A61K 31/455 (2006.01) A61K 38/18 (2006.01) A61K 38/20 (2006.01) A61K 38/21 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) A61P 37/02 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION AND KIT COMPRISING AN IMMUNOMODULATORY SUBSTANCE FOR TREATING DISEASES**
[54] **COMPOSITION PHARMACEUTIQUE ET KIT COMPRENANT UNE SUBSTANCE IMMUNO-MODULATRICE POUR TRAITER DES MALADIES**
[72] NEUMANN, LYDIA ELLEN, DE
[71] ELLENNBE GMBH, DE
[85] 2024-04-23
[86] 2022-10-24 (PCT/EP2022/079665)
[87] (WO2023/072877)
[30] EP (21204596.7) 2021-10-25
[30] EP (PCT/EP2022/079311) 2022-10-20
[30] EP (PCT/EP2022/079313) 2022-10-20
[30] EP (PCT/EP2022/079314) 2022-10-20
[30] EP (PCT/EP2022/079325) 2022-10-20
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[30] EP (PCT/EP2022/079316) 2022-10-20
[30] EP (PCT/EP2022/079317) 2022-10-20
[30] EP (PCT/EP2022/079319) 2022-10-20
[30] EP (PCT/EP2022/079318) 2022-10-20
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[30] EP (PCT/EP2022/079322) 2022-10-20
[30] EP (PCT/EP2022/079323) 2022-10-20
[30] EP (PCT/EP2022/079324) 2022-10-20
[30] EP (PCT/EP2022/079326) 2022-10-20

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[13] A1
[51] **Int.Cl. C22B 3/08 (2006.01)**
[25] EN
[54] **SELECTIVE ACID LEACHING OF MIXED HYDROXIDE PRECIPITATE**
[54] **LIXIVIATION ACIDE SELECTIVE DE PRECIPITE D'HYDROXYDE MIXTE**
[72] LACADENA, MARIA JOSE, BE
[72] JAMES, ALUN PRYCE, GB
[72] VASQUEZ, OSCAR, AU
[71] SOLVAY SA, BE
[85] 2024-04-23
[86] 2022-11-10 (PCT/EP2022/081451)
[87] (WO2023/083953)
[30] EP (21208049.3) 2021-11-12

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[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0531 (2021.01) A61B 5/0535 (2021.01) A61B 5/0537 (2021.01) A61B 5/0295 (2006.01) A61B 5/145 (2006.01)**
[25] EN
[54] **PHYSIOLOGICAL SENSOR PATCH FOR MAKING COMPLEX MEASUREMENTS OF BIOIMPEDANCE**
[54] **PATCH DE CAPTEUR PHYSIOLOGIQUE POUR REALISER DES MESURES COMPLEXES DE BIO-IMPEDANCE**
[72] MCCANNA, JAMES PATRICK, US
[72] DHILLON, MARSHAL SINGH, US
[72] BUCKINGHAM, JUSTIN GRANT, US
[72] BANET, MATTHEW JOHN, US
[72] TANG, ERIK EDWIN, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-22
[86] 2022-12-22 (PCT/US2022/053867)
[87] (WO2023/122302)
[30] US (63/293,338) 2021-12-23

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[13] A1
[51] **Int.Cl. C07D 239/70 (2006.01) A61K 31/5377 (2006.01) A61K 31/538 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 405/12 (2006.01) C07D 498/02 (2006.01)**
[25] EN
[54] **BENZO[H]QUINAZOLINE-4-AMINE DERIVATIVES FOR THE TREATMENT OF CANCER**
[54] **DERIVES DE BENZO[H]QUINAZOLINE-4-AMINE POUR TRAITER LE CANCER**
[72] WEILER, SVEN, CH
[72] GAUCHER, BERANGERE, CH
[72] RICHALET, FLORIAN, CH
[72] RADIMERSKI, THOMAS, CH
[72] ALOIA, ANDREA, CH
[71] REDONA THERAPEUTICS, INC., US
[85] 2024-04-23
[86] 2022-10-25 (PCT/EP2022/079738)
[87] (WO2023/072913)
[30] EP (21204520.7) 2021-10-25
[30] EP (22167146.4) 2022-04-07
[30] EP (22186200.6) 2022-07-21

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[13] A1
[51] **Int.Cl. B60N 2/50 (2006.01) A01D 34/00 (2006.01) A01D 67/04 (2006.01) B60N 2/54 (2006.01)**
[25] EN
[54] **LAWN CARE VEHICLE WITH IMPROVED SEAT ISOLATION**
[54] **VEHICULE D'ENTRETIEN DES PELOUSES AVEC ISOLATION AMELIOREE DU SIEGE**
[72] COPPING, RYAN, US
[72] MANDEVILLE, KENNETH, US
[72] ESTEY, DAVID, US
[72] SCHOONMAKER, ADAM, US
[72] WILLIAMS, LEE, US
[71] HUSQVARNA AB, SE
[85] 2024-04-22
[86] 2021-10-22 (PCT/US2021/056206)
[87] (WO2023/069112)

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[13] A1
[51] **Int.Cl. A61K 35/741 (2015.01) A61K 35/747 (2015.01) A23L 33/135 (2016.01) A61P 1/14 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **PROBIOTIC COMPOSITION FOR GUT MICROBIOME MODULATION**
[54] **COMPOSITION PROBIOTIQUE POUR LA MODULATION DU MICROBIOME INTESTINAL**
[72] SPECKMANN, BODO, DE
[72] GOBBETTI, MARCO, IT
[72] PANKOKE, HELGA CAROLA, DE
[72] FLUGEL, MONIKA, DE
[72] STANNEK-GOBEL, LORENA, DE
[72] TOM DIECK, HEIKE, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2024-04-23
[86] 2022-10-25 (PCT/EP2022/079755)
[87] (WO2023/072921)
[30] EP (21204680.9) 2021-10-26

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[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/28 (2006.01) B01D 63/02 (2006.01) B01D 63/06 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM HAVING A CAPILLARY PATIENT LINE FILTER**
[54] **SYSTEME DE DIALYSE PERITONEALE AYANT UN FILTRE DE LIGNE DE PATIENT CAPILLAIRE**
[72] WAGNER, STEFFEN, US
[72] FLIEG, RALF, US
[72] BUCK, REINHOLD, US
[72] BECK, CHRISTOF, US
[72] BLICKLE, RAINER, US
[72] KRAUSE, BERND, US
[72] KNOER, TORSTEN, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-22
[86] 2022-11-18 (PCT/US2022/080121)
[87] (WO2023/114608)
[30] US (63/291,010) 2021-12-17

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[13] A1
[51] **Int.Cl. A61L 24/04 (2006.01) A61K 38/48 (2006.01) A61L 24/10 (2006.01) A61P 7/04 (2006.01)**
[25] EN
[54] **IMPROVED HEMOSTAT RECONSTITUTION METHODS AND DEVICES**
[54] **PROCEDES ET DISPOSITIFS AMELIORES DE RECONSTITUTION D'HEMOSTAT**
[72] DELMOTTE, YVES, BE
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-22
[86] 2022-11-11 (PCT/US2022/079740)
[87] (WO2023/097148)
[30] US (63/283,781) 2021-11-29

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[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61P 3/10 (2006.01) A61P 19/02 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 31/16 (2006.01) A61P 31/18 (2006.01) A61P 31/22 (2006.01) A61P 33/02 (2006.01) A61P 33/06 (2006.01) A61P 35/00 (2006.01) C07D 403/06 (2006.01) C07D 405/14 (2006.01) C07D 413/06 (2006.01) C07D 413/14 (2006.01) C07D 417/06 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **IMIDAZOLONE DERIVATIVES AS INHIBITORS OF PROTEIN KINASES IN PARTICULAR DYRK1A, CLK1 AND/OR CLK4**
[54] **DERIVES D'IMIDAZOLONE UTILISES COMME INHIBITEURS DE PROTEINES KINASES, EN PARTICULIER DYRK1A, CLK1 ET/OU CLK4**
[72] DEAU, EMMANUEL, FR
[72] GEORGE, PASCAL, FR
[72] MEIJER, LAURENT, FR
[72] MIEGE, FREDERIC, FR
[71] PERHA PHARMACEUTICALS, FR
[85] 2024-04-23
[86] 2022-10-25 (PCT/EP2022/079838)
[87] (WO2023/072966)
[30] EP (21306489.2) 2021-10-26

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[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/28 (2006.01) B01D 63/02 (2006.01) B01D 63/06 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM INCLUDING A PATIENT LINE FILTER HAVING A TUBULAR MEMBRANE**
[54] **SYSTEME DE DIALYSE PERITONEALE INCLUANT UN FILTRE DE LIGNE DE PATIENT AYANT UNE MEMBRANE TUBULAIRE**
[72] WAGNER, STEFFEN, US
[72] FLIEG, RALF, US
[72] BUCK, REINHOLD, US
[72] BECK, CHRISTOF, US
[72] BLICKLE, RAINER, US
[72] KRAUSE, BERND, US
[72] KNOER, TORSTEN, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-22
[86] 2022-11-18 (PCT/US2022/080123)
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[13] A1
[51] **Int.Cl. A61M 1/28 (2006.01) A61M 1/16 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM HAVING CARBON DIOXIDE INJECTION TO INHIBIT PRODUCTION OF AND/OR REMOVE CALCIUM CARBONATE**
[54] **SYSTEME DE DIALYSE PERITONEALE AVEC INJECTION DE DIOXYDE DE CARBONE POUR INHIBER LA PRODUCTION ET/OU L'ELIMINATION DU CARBONATE DE CALCIUM**
[72] STYRBJORN FALLMAN, OSKAR ERIK FRODE, SE
[72] PETTERSSON, MICHAEL, SE
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-22
[86] 2022-12-14 (PCT/US2022/081526)
[87] (WO2023/122456)
[30] US (63/293,383) 2021-12-23

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[13] A1
[51] **Int.Cl. C10G 3/00 (2006.01) C10G 7/00 (2006.01) C10G 45/58 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING A GASEOUS COMPOSITION COMPRISING PROPANE**
[54] **PROCEDE DE TRAITEMENT D'UNE COMPOSITION GAZEUSE COMPRENANT DU PROPANE**
[72] SUNTIO, VILLE, FI
[72] SIFONTES HERRERA, VICTOR, FI
[71] NESTE OYJ, FI
[85] 2024-04-23
[86] 2022-12-02 (PCT/FI2022/050806)
[87] (WO2023/111391)
[30] FI (20216296) 2021-12-17

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[13] A1
[51] **Int.Cl. G06F 21/36 (2013.01) H04W 12/06 (2021.01)**
[25] EN
[54] **MUTUAL AUTHENTICATION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'AUTHENTIFICATION MUTUELLE**
[72] SUAREZ CORONA, ADRIANA REMEDIOS, ES
[72] PEDRO PEREZ GRANDE, PEDRO PEREZ GRANDE, ES
[71] PEDRO PEREZ GRANDE, PEDRO PEREZ GRANDE, ES
[85] 2024-04-23
[86] 2022-10-24 (PCT/ES2022/070690)
[87] (WO2023/073267)
[30] ES (P202131005) 2021-10-26

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[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) C12N 9/52 (2006.01)**
[25] EN
[54] **CULTURE MEDIUM FOR CULTIVATING HATHEWAYA HISTOLYTICA (OR CLOSTRIDIUM HISTOLYTICUM) AND THE PRODUCTION OF ONE OR MORE PROTEASES**
[54] **MILIEU DE CULTURE POUR LA CULTURE DE HATHEWAYA HISTOLYTICA (OU CLOSTRIDIUM HISTOLYTICUM) ET LA PRODUCTION D'UNE OU DE PLUSIEURS PROTEASES**
[72] HEYLAND, JAN, DE
[72] STAWORZYNSKA-GODDE, MALGORZATA, DE
[72] SCHRADER, THOMAS, DE
[71] NORDMARK PHARMA GMBH, DE
[85] 2024-04-23
[86] 2023-01-02 (PCT/EP2023/050027)
[87] (WO2023/131588)
[30] EP (22150333.7) 2022-01-05
[30] DE (10 2022 121 862.7) 2022-08-30

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[13] A1
[51] **Int.Cl. A42B 3/12 (2006.01)**
[25] EN
[54] **HELMET**
[54] **CASQUE**
[72] STOREY, PIERS CHRISTIAN, MC
[72] BASS, LUC, FR
[72] NAIS, MATHILDE, FR
[71] GEORGE TFE SCP, MC
[85] 2024-04-23
[86] 2022-09-14 (PCT/IB2022/058669)
[87] (WO2023/089386)
[30] EP (21020568.8) 2021-11-16

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[13] A1
[51] **Int.Cl. A61K 31/50 (2006.01) A61K 31/502 (2006.01) A61K 31/5025 (2006.01) C09B 31/143 (2006.01) C09B 31/147 (2006.01)**
[25] EN
[54] **PYRIDAZINEDIONE-BASED HETEROBICYCLIC COVALENT LINKERS AND METHODS AND APPLICATIONS THEREOF**
[54] **LIEURS COVALENTS HETEROBICYCLIQUES A BASE DE PYRIDAZINEDIONE ET LEURS PROCEDES ET APPLICATIONS**
[72] LIU, HUI, US
[72] LI, PATRICK, US
[71] SYNTABIO LLC, US
[85] 2024-04-23
[86] 2022-10-21 (PCT/US2022/078563)
[87] (WO2023/076848)
[30] US (63/271,692) 2021-10-25

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[13] A1
[51] **Int.Cl. H01M 50/202 (2021.01) H01M 10/613 (2014.01) H01M 10/647 (2014.01) H01M 10/6551 (2014.01) B60L 50/64 (2019.01) B60L 58/26 (2019.01) H01M 50/105 (2021.01) H01M 50/211 (2021.01) H01M 50/249 (2021.01) H01M 50/258 (2021.01) H01M 50/262 (2021.01) H01M 50/293 (2021.01) H01M 50/516 (2021.01) H01M 50/548 (2021.01) H01M 50/553 (2021.01)**
[25] FR
[54] **BATTERY SUB-MODULE FOR A MOTOR VEHICLE**
[54] **SOUS-MODULE DE BATTERIE POUR VEHICULE AUTOMOBILE**
[72] DERANGERE, NICOLAS, BE
[72] OSZWALD, PIERRE, BE
[72] DHAUSSY, FRANCK, BE
[71] PLASTIC OMNIUM CLEAN ENERGY SYSTEMS RESEARCH, FR
[85] 2024-04-23
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[87] (WO2023/118380)
[30] FR (FR2114257) 2021-12-22

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[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/454 (2006.01)**
[25] EN
[54] **PIPERIDINYL INDOLE DERIVATIVES, PREPARATION METHODS AND MEDICINAL USES THEREOF**
[54] **DERIVES DE PIPERIDINYL INDOLE, LEURS PROCEDES DE PREPARATION ET LEURS UTILISATIONS MEDICALES**
[72] ZHU, HUGH Y., US
[72] KHANNA, AVINASH, US
[72] KIER, MATTHEW, US
[72] DE MEESE, LISA A., US
[72] ZHOU, WEI, US
[71] HANSOH BIO LLC, US
[71] SHANGHAI HANSOH BIOMEDICAL CO., LTD., CN
[71] JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., CN
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[87] (WO2023/072197)
[30] US (63/263,108) 2021-10-27
[30] US (63/268,655) 2022-02-28
[30] US (63/362,916) 2022-04-13
[30] US (63/365,029) 2022-05-20
[30] US (63/366,101) 2022-06-09

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[51] **Int.Cl. C12Q 1/6806 (2018.01)**
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[54] **METHOD**
[54] **PROCEDE**
[72] NEUMANN, FELIX, SE
[72] ASTOBIZA, LEIORE AJURIA, SE
[72] BERGMAN, JOOST, SE
[71] COUNTAGEN AB, SE
[85] 2024-04-23
[86] 2022-10-25 (PCT/SE2022/050974)
[87] (WO2023/075663)
[30] GB (2115325.9) 2021-10-25

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[51] **Int.Cl. A61K 39/00 (2006.01) C07K 14/00 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **MODIFIED ARENAVIRUS PARTICLES EXPRESSING MUTANT KRAS, MUTATED CANCER DRIVER GENE, OR TUMOR-ASSOCIATED ANTIGEN AS CANCER IMMUNOTHERAPIES**
[54] **PARTICULES D'ARENAVIRUS MODIFIEES EXPRIMANT UN KRAS MUTANT, UN GENE PROMOTEUR DE CANCER MUTE OU UN ANTIGENE ASSOCIE A UNE TUMEUR EN TANT QU'IMMUNOTHERAPIES ANTICANCEREUSES**
[72] LAUTERBACH, HENNING, DE
[72] LAMPERT, JORG CHRISTOPH, NL
[72] HABBEDDINE, MOHAMED, CH
[72] RAGUZ, JOSIPA, AT
[72] SCHIPPERS, TIMO, AT
[72] SCHMIDT, SARAH, AT
[72] AHMADI-ERBER, SARAH, AT
[72] ROSSKOPF, SANDRA, AT
[72] ORLINGER, KLAUS, AT
[72] MATUSHANSKY, IGOR, US
[71] HOOKIPA BIOTECH GMBH, AT
[85] 2024-04-23
[86] 2022-11-07 (PCT/EP2022/081018)
[87] (WO2023/079153)
[30] US (63/277,049) 2021-11-08
[30] US (63/277,052) 2021-11-08
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[25] EN
[54] **GALECTIN-10 ANTIBODIES**
[54] **ANTICORPS ANTI-GALECTINE-10**
[72] VAN DER WONING, PAUL SEBASTIAN, BE
[72] PERCIER, JEAN-MICHEL, BE
[71] ARGENX BVBA, BE
[85] 2024-04-23
[86] 2023-01-18 (PCT/EP2023/051100)
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[51] **Int.Cl. H04L 9/40 (2022.01)**
[25] EN
[54] **USER AUTHENTICATION IN AN INDUSTRIAL SYSTEM**
[54] **AUTHENTIFICATION D'UTILISATEUR DANS UN SYSTEME INDUSTRIEL**
[72] HAVERINEN, HENRY, FI
[72] PAAJANEN, EERO, FI
[72] PAAVOLA, JERE, FI
[72] HOLAPPA, JARKKO, FI
[72] KOSKINEN, JOHANNES, FI
[71] SANDVIK MINING AND CONSTRUCTION OY, FI
[85] 2024-04-23
[86] 2022-11-25 (PCT/EP2022/083367)
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[51] **Int.Cl. C01B 32/194 (2017.01) C01B 32/198 (2017.01)**
[25] EN
[54] **GRAPHENE DISPERSION**
[54] **DISPERSION DE GRAPHENE**
[72] DAWSON, CRAIG, GB
[72] SCULLION, LISA, GB
[72] IJIJE, HAPPINESS, GB
[71] CONCRETENE LTD., GB
[85] 2024-04-23
[86] 2022-10-26 (PCT/EP2022/079980)
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[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS FOR TREATMENT OF RELAPSED/REFRACTORY FOLLICULAR LYMPHOMA WITH MOSUNETUZUMAB AND LENALIDOMIDE**
[54] **PROCEDES POUR TRAITER UN LYMPHOME FOLLICULAIRE EN RECHUTE / REFRACTAIRE AVEC MOSUNETUZUMAB ET LENALIDOMIDE**
[72] GRANIER, CATHERINE, GB
[72] KNAPP, ANDREA, CH
[72] LI, CHI-CHUNG, US
[72] O'HEAR, CAROL ELAINE, US
[72] PUREV, ENKHTSETSEG, US
[72] WEI, MICHAEL C., US
[71] GENENTECH, INC., US
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2024-04-23
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[51] **Int.Cl. C30B 29/46 (2006.01) H01M 4/131 (2010.01) H01M 10/0562 (2010.01) C01B 17/22 (2006.01) C30B 1/10 (2006.01)**
[25] FR
[54] **INORGANIC COMPOUNDS HAVING A STRUCTURE OF ARGYRODITE TYPE, PROCESSES FOR THE PREPARATION THEREOF, AND USES THEREOF IN ELECTROCHEMICAL APPLICATIONS**
[54] **COMPOSES INORGANIQUES POSSEDANT UNE STRUCTURE DE TYPE ARGYRODITE, LEURS PROCEDES DE PREPARATION ET LEURS UTILISATIONS DANS DES APPLICATIONS ELECTROCHIMIQUES**
[72] NASSOY, FABIEN, CA
[72] FLEUTOT, BENOIT, CA
[72] GIRARD, MARC-ANDRE, CA
[72] DUCHESNE, STEVE, CA
[72] GAGNON, CATHERINE, CA
[72] PEREA, ALEXIS, CA
[72] ROZON, DAVID, CA
[72] KRACHKOVSKIY, SERGEY, CA
[71] HYDRO-QUEBEC, CA
[85] 2024-04-23
[86] 2022-10-27 (PCT/CA2022/051593)
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[30] CA (3136069) 2021-10-27
[30] CA (3179099) 2022-10-12

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[51] **Int.Cl. A61K 39/00 (2006.01)**
[25] EN
[54] **NEBULIZATION OF FAB FRAGMENTS**
[54] **NEBULISATION DE FRAGMENTS FAB**
[72] HEUZE-VOURC'H, NATHALIE, FR
[72] VAN DER WONING, PAUL SEBASTIAN, BE
[72] PERCIER, JEAN-MICHEL, BE
[71] ARGENX BV, BE
[85] 2024-04-23
[86] 2023-01-18 (PCT/EP2023/051073)
[87] (WO2023/139090)
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[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) B32B 17/00 (2006.01) B32B 27/36 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **KITS AND CONTAINERS FOR TREATING VIMENTIN EXPRESSING TUMORS**
[54] **KITS ET CONTENANTS POUR LE TRAITEMENT DE TUMEURS EXPRIMANT LA VIMENTINE**
[72] BABIC, IVAN, US
[71] NASCENT BIOTECH, INC., US
[85] 2024-04-23
[86] 2021-10-29 (PCT/US2021/057313)
[87] (WO2023/075790)

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[51] **Int.Cl. A61K 48/00 (2006.01) A61P 29/00 (2006.01) A61P 31/14 (2006.01) A61P 37/06 (2006.01) A61K 35/76 (2015.01) A61K 45/06 (2006.01)**
[25] EN
[54] **METHODS OF TREATING THE EFFECTS OF CYTOKINE STORMS**
[54] **METHODES DE TRAITEMENT DES EFFETS DE TEMPETES DE CYTOKINE**
[72] CHUGH, SUMANT SINGH, US
[71] RUSH UNIVERSITY MEDICAL CENTER, US
[85] 2024-04-23
[86] 2022-10-20 (PCT/US2022/047254)
[87] (WO2023/076096)
[30] US (63/272,402) 2021-10-27

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[51] **Int.Cl. A47K 11/02 (2006.01) E03D 5/00 (2006.01) E03D 5/014 (2006.01) E03D 11/11 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR REMOVING SOLIDS DOWNSTREAM OF A SIPHON OF A TOILET, AND OPERATION OF A DEVICE OF THIS TYPE**
[54] **PROCEDE ET DISPOSITIF DE SEPARATION DE MATIERES SOLIDES DERRIERE UN SIPHON D'UN TOILETTE ET FONCTIONNEMENT D'UN TEL DISPOSITIF**
[72] KOLLER, MARKUS, CH
[71] LEFT AG, CH
[85] 2024-04-23
[86] 2022-11-15 (PCT/EP2022/081879)
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[30] CH (CH70554/2021) 2021-11-15

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[13] A1
[51] **Int.Cl. B60B 19/00 (2006.01) B60K 7/00 (2006.01) B62B 7/06 (2006.01) B62K 11/00 (2013.01) B62K 25/02 (2006.01)**
[25] EN
[54] **ROBOTIC SYSTEM**
[54] **SYSTEME ROBOTISE**
[72] CRISTACHE, LUCIAN, US
[71] LUCOMM TECHNOLOGIES, INC., US
[85] 2024-04-23
[86] 2022-01-27 (PCT/US2022/070373)
[87] (WO2023/069793)
[30] US (17/509,013) 2021-10-24
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[13] A1
[51] **Int.Cl. B61D 17/04 (2006.01) B61D 17/08 (2006.01) B62D 31/02 (2006.01)**
[25] EN
[54] **A PANEL, SUPPORT RIB AND CANTRAIL**
[54] **PANNEAU, NERVURE DE SUPPORT ET RENFORT DE TOIT**
[72] SALKELD, PAUL, GB
[72] HOWSON, ADRIAN, GB
[72] O'BRIEN, SHAUN, GB
[71] VLR TECHNOLOGIES LIMITED, GB
[85] 2024-04-23
[86] 2022-09-20 (PCT/GB2022/052372)
[87] (WO2023/041941)
[30] GB (2113402.8) 2021-09-20

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[13] A1
[51] **Int.Cl. B65B 1/04 (2006.01) B65B 29/02 (2006.01) B65B 51/10 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF A CONTAINER FOR THE PREPRATION OF A BEVERAGE IN A BEVERAGE PREPARATION DEVICE, SEALING STATION FOR CARRYING OUT A SEALING STEP OF SAID PROCESS, AND A CONTAINER OBTAINED BY SAID PROCES**
[54] **PROCEDE DE FABRICATION DE RECIPIENT POUR LA PREPRATION D'UNE BOISSON DANS UN DISPOSITIF DE PREPARATION DE BOISSONS, STATION D'ETANCHEITE POUR REALISER UNE ETAPE D'ETANCHEIFICATION DUDIT PROCEDE, ET RECIPIENT PRODUIT PAR LEDIT PROCED**
[72] MISSOUM, KARIM, FR
[72] GALAFFU, NICOLA, FR
[72] NIEDERREITER, GERHARD, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-04-23
[86] 2022-11-24 (PCT/EP2022/083113)
[87] (WO2023/094515)
[30] EP (21210930.0) 2021-11-29

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[13] A1
[51] **Int.Cl. G16H 20/13 (2018.01) G16H 40/63 (2018.01)**
[25] EN
[54] **APPARATUS FOR ADMINISTERING MEDICAMENTS AND METHOD FOR MANAGING EXPIRY DATES OF A MEDICAMENT DISPENSER**
[54] **APPAREIL D'ADMINISTRATION DE MEDICAMENTS ET PROCEDE DE GESTION DE DATES D'EXPIRATION D'UN DISTRIBUTEUR DE MEDICAMENTS**
[72] POTTER, CHARLES, IT
[71] CHIESI FARMACEUTICI S.P.A., IT
[85] 2024-04-23
[86] 2022-11-08 (PCT/EP2022/081136)
[87] (WO2023/079173)
[30] EP (21207001.5) 2021-11-08

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[51] **Int.Cl. A61B 18/08 (2006.01) A61B 18/14 (2006.01) A61N 1/04 (2006.01) A61N 1/05 (2006.01) A61N 1/32 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ELECTRICALLY STIMULATING TISSUE**
[54] **SYSTEME ET PROCEDE DE STIMULATION ELECTRIQUE DE TISSU**
[72] SOLOMON, SASI, IL
[72] SIMON, SEMION, IL
[71] SYNAPSTIM, IL
[85] 2024-04-23
[86] 2022-11-01 (PCT/IL2022/051156)
[87] (WO2023/073722)

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[13] A1
[51] **Int.Cl. C12N 15/11 (2006.01) C12N 15/113 (2010.01)**
[25] EN
[54] **ENGINEERED RNAS**
[54] **ARN MODIFIES**
[72] BYRNE, SUSAN, US
[72] BOOTH, BRIAN JOHN, US
[72] SULLIVAN, RICHARD THOMAS, US
[72] BRIGGS, ADRIAN WRANGHAM, US
[72] SAVVA, YIANNIS, US
[71] SHAPE THERAPEUTICS INC., US
[85] 2024-04-23
[86] 2022-10-27 (PCT/US2022/078801)
[87] (WO2023/077013)
[30] US (63/272,418) 2021-10-27
[30] US (63/277,662) 2021-11-10
[30] US (63/333,256) 2022-04-21

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[51] **Int.Cl. B60L 53/302 (2019.01) H02J 7/00 (2006.01) H02J 7/02 (2016.01) H05K 7/20 (2006.01)**
[25] EN
[54] **A MOBILE CHARGING STATION FOR MINING APPLICATIONS**
[54] **STATION DE CHARGE MOBILE POUR APPLICATIONS MINIERES**
[72] ERIKSSON, HARRI, FI
[72] VIERIKKO, JAAKKO, FI
[71] SANDVIK MINING AND CONSTRUCTION OY, FI
[85] 2024-04-23
[86] 2022-11-18 (PCT/EP2022/082362)
[87] (WO2023/094267)
[30] EP (21210095.2) 2021-11-24

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[13] A1
[51] **Int.Cl. A61N 7/02 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING HIGH-INTENSITY FOCUSED ULTRASOUND PROBE FOR SKIN THERAPY**
[54] **PROCEDE DE FABRICATION DE SONDE ULTRASONORE FOCALISEE A HAUTE INTENSITE DESTINEE A UNE THERAPIE DE LA PEAU**
[72] CHANG, JIN HO, KR
[72] KIM, JIN WOO, KR
[72] KIM, JU HWAN, KR
[72] NA, JONG JU, KR
[72] LEE, DUK KYU, KR
[72] KIM, JOUNG PIL, KR
[71] VIOL CO. LTD., KR
[71] DAEGU GYEONGBUK INSTITUTE OF SCIENCE & TECHNOLOGY, KR
[71] DONG IL TECHNOLOGY LTD., KR
[85] 2024-04-23
[86] 2022-11-02 (PCT/KR2022/016969)
[87] (WO2023/090699)
[30] KR (10-2021-0158796) 2021-11-17

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[13] A1
[51] **Int.Cl. G01B 5/20 (2006.01) G01B 5/00 (2006.01) G01B 5/28 (2006.01)**
[25] EN
[54] **MEASURING ROUNDNESS WITH POLAR COORDINATES OF BACK-UP AND WORK ROLLS UTILIZED IN STEEL ROLLING PROCESSES**
[54] **MESURE DE RONDEUR AVEC DES COORDONNEES POLAIRES DE ROULEAUX ANTI-FLEXION ET DE TRAVAIL UTILISES DANS DES PROCEDES DE LAMINAGE D'ACIER**
[72] BAGDAL, KARL, US
[71] BAGDAL, KARL, US
[85] 2024-04-23
[86] 2022-10-24 (PCT/US2022/078613)
[87] (WO2023/076870)
[30] US (63/271,468) 2021-10-25

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[13] A1
[51] **Int.Cl. C05C 9/00 (2006.01) C05G 3/90 (2020.01)**
[25] EN
[54] **UREASE INHIBITOR FORMULATION FOR USE IN UREA GRANULATION PROCESS**
[54] **FORMULATION D'INHIBITEUR D'UREASE DESTINEE A ETRE UTILISEE DANS UN PROCEDE DE GRANULATION D'UREE**
[72] STAAL, MAARTEN, DE
[72] SCHMID, MARKUS, DE
[72] PASDA, GREGOR, DE
[72] THIEL, UWE, DE
[72] MALANG, ULRIKE, DE
[72] KNAUER, MANUEL, DE
[71] BASF SE, DE
[85] 2024-04-23
[86] 2022-10-24 (PCT/EP2022/079516)
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[30] EP (21204746.8) 2021-10-26

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[51] **Int.Cl. G16B 20/00 (2019.01) G16B 10/00 (2019.01) G16B 30/10 (2019.01) G16B 40/20 (2019.01) G16B 40/30 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR A PET RELATIVE FINDER**
[54] **SYSTEMES ET PROCEDES POUR UN DISPOSITIF DE RECHERCHE DE PARENTS D'ANIMAUX DE COMPAGNIE**
[72] GARRIGAN, DANIEL, US
[72] HUFF, JASON TROY, US
[72] FORAN, REBECCA CHODROFF, US
[71] MARS, INC., US
[85] 2024-04-23
[86] 2022-10-26 (PCT/US2022/078695)
[87] (WO2023/076932)
[30] US (63/263,138) 2021-10-27

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[51] **Int.Cl. A61B 34/10 (2016.01) G06T 19/00 (2011.01) G02B 27/01 (2006.01) G06F 3/01 (2006.01) G09B 5/06 (2006.01) G09B 9/00 (2006.01) G09B 23/30 (2006.01)**
[25] EN
[54] **PROCEDURE GUIDANCE AND TRAINING APPARATUS, METHODS AND SYSTEMS**
[54] **APPAREIL, PROCEDES ET SYSTEMES D'AIDE ET DE FORMATION POUR INTERVENTIONS**
[72] STONE, NELSON, US
[72] GRIFFITH, STEVEN, US
[72] STONE, JONATHAN, US
[71] SIMULATED INANIMATE MODELS, LLC, US
[85] 2024-04-23
[86] 2022-10-24 (PCT/US2022/047604)
[87] (WO2023/069782)
[30] US (63/271,153) 2021-10-23
[30] US (63/341,234) 2022-05-12

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[13] A1
[51] **Int.Cl. C05C 9/00 (2006.01) C05G 3/90 (2020.01)**
[25] EN
[54] **POLYMER FREE AND LOW ODOR UREASE INHIBITOR FORMULATION WITH IMPROVED STORAGE STABILITY ON UREA**
[54] **FORMULATION D'INHIBITEUR D'UREASE EXEMPTE DE POLYMERE ET A FAIBLE ODEUR PRESENTANT UNE STABILITE AMELIOREE AU STOCKAGE SUR L'UREE**
[72] STAAL, MAARTEN, DE
[72] MALANG, ULRIKE, DE
[72] SCHMID, MARKUS, DE
[72] PASDA, GREGOR, DE
[72] THIEL, UWE, DE
[72] KNAUER, MANUEL, DE
[72] BLANZ, BIRGIT, DE
[71] BASF SE, DE
[85] 2024-04-23
[86] 2022-10-24 (PCT/EP2022/079514)
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[30] EP (21204749.2) 2021-10-26

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[51] **Int.Cl. A61B 17/34 (2006.01) A61M 25/06 (2006.01) A61M 39/08 (2006.01) A61M 39/10 (2006.01) B29C 48/16 (2019.01)**
[25] EN
[54] **LOW PROFILE ACCESS SHEATHS**
[54] **GAINES D'ACCES A PROFIL BAS**
[72] DELORENZO, CHARLES, US
[72] KORKUCH, CHRISTOPHER, US
[72] FANTUZZI, GLEN, US
[72] CHOUINARD, BRIAN, US
[72] BOYD, MEGAN, US
[72] RAJARAM, MITHUN, US
[72] D'AGOSTINO, MATTHEW, US
[71] ABIOMED, INC., US
[85] 2024-04-23
[86] 2022-10-27 (PCT/US2022/048042)
[87] (WO2023/076488)
[30] US (63/272,750) 2021-10-28
[30] US (63/413,098) 2022-10-04

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[13] A1
[51] **Int.Cl. H04L 67/54 (2022.01) G06F 18/2323 (2023.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR GENERATING A VIRTUAL GRAPH OF MULTI CHANNEL COMMUNICATIONS**
[54] **PROCEDES ET SYSTEMES PERMETTANT DE GENERER UN GRAPHE VIRTUEL DE COMMUNICATIONS A CANAUX MULTIPLES**
[72] TAYLOR, BRADLEY, US
[71] INTELEPEER, US
[85] 2024-04-23
[86] 2022-11-03 (PCT/US2022/048845)
[87] (WO2023/081295)
[30] US (17/521,320) 2021-11-08

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[13] A1
[51] **Int.Cl. A23L 2/74 (2006.01) A23L 7/10 (2016.01) A23J 1/12 (2006.01) A23L 2/66 (2006.01)**
[25] EN
[54] **OAT FRACTIONATION PROCESS AND BEVERAGES PRODUCED THEREFROM**
[54] **PROCEDE DE FRACTIONNEMENT D'AVOINE ET BOISSONS PRODUITES A PARTIR DE CELUI-CI**
[72] GROSSBIER, DUSTIN, US
[72] UR REHMAN, SHAKEEL, US
[72] DOELMAN, TIMOTHY P., US
[72] ADAMSON, NICHOLAS, US
[71] FAIRLIFE, LLC, US
[85] 2024-04-23
[86] 2022-10-24 (PCT/US2022/078602)
[87] (WO2023/076865)
[30] US (63/271,259) 2021-10-25

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[13] A1
[51] **Int.Cl. G06F 16/28 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR BUILDING DOCUMENT RELATIONSHIPS AND AGGREGATES**
[54] **SYSTEME ET PROCEDE POUR CONSTRUIRE DES RELATIONS ET DES AGREGATS DE DOCUMENTS**
[72] HRON II, JOEL M., US
[72] VANDIVERE, NICHOLAS E., US
[72] DROKE, DANIEL, US
[71] THOMSON REUTERS ENTERPRISE CENTRE GMBH, CH
[85] 2024-04-23
[86] 2022-11-03 (PCT/US2022/048861)
[87] (WO2023/081303)
[30] US (63/275,801) 2021-11-04

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[13] A1
[51] **Int.Cl. A61P 3/00 (2006.01) A61P 3/10 (2006.01) A61P 19/02 (2006.01) A61P 25/00 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 31/00 (2006.01) A61P 31/12 (2006.01) A61P 31/16 (2006.01) A61P 31/18 (2006.01) A61P 31/22 (2006.01) A61P 33/00 (2006.01) A61P 33/06 (2006.01) A61P 35/00 (2006.01) C07D 401/06 (2006.01) C07D 401/14 (2006.01) C07D 403/06 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **IMIDAZOLONE DERIVATIVES AS INHIBITORS OF PROTEIN KINASES IN PARTICULAR DYRK1A, CLK1 AND/OR CLK4**
[54] **DERIVES D'IMIDAZOLONE EN TANT QU'INHIBITEURS DE PROTEINE KINASES, EN PARTICULIER DYRK1A, CLK1 ET/OU CLK4**
[72] DEAU, EMMANUEL, FR
[72] GEORGE, PASCAL, FR
[72] MEIJER, LAURENT, FR
[72] MIEGE, FREDERIC, FR
[72] ARCHAMBAUD, SYLVIE, FR
[71] PERHA PHARMACEUTICALS, FR
[85] 2024-04-23
[86] 2022-10-25 (PCT/EP2022/079842)
[87] (WO2023/072969)
[30] EP (21306491.8) 2021-10-26

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[13] A1
[51] **Int.Cl. A45D 40/18 (2006.01) A45D 40/22 (2006.01)**
[25] EN
[54] **APPLICATOR WITH CONTAINER HAVING MULTIPLE CHAMBERS**
[54] **APPLICATEUR AVEC RECIPIENT A CHAMBRES MULTIPLES**
[72] LEFEBVRE, DENNIS, CA
[71] 2189704 ALBERTA LTD., CA
[85] 2024-04-23
[86] 2021-11-02 (PCT/IB2021/060137)
[87] (WO2023/079333)

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[13] A1
[51] **Int.Cl. A61K 31/7125 (2006.01) C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **OLIGONUCLEOTIDE COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS D'OLIGONUCLEOTIDES ET LEURS METHODES D'UTILISATION**
[72] BYRNE, MICHAEL JOHN, US
[72] VATHIPADIEKAL, VINOD, US
[72] IWAMOTO, NAOKI, US
[72] VARGEESE, CHANDRA, US
[72] GUO, LANKAI, US
[72] HOSS, ANDREW GUZIOR, US
[71] WAVE LIFE SCIENCES LTD., SG
[85] 2024-04-23
[86] 2021-10-27 (PCT/US2021/056900)
[87] (WO2023/075766)

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[13] A1
[51] **Int.Cl. B29C 64/106 (2017.01) B29C 64/129 (2017.01)**
[25] EN
[54] **METHOD OF PRINTING A HYDROGEL SCAFFOLD**
[54] **PROCEDE D'IMPRESSION D'UN ECHAFAUDAGE D'HYDROGEL**
[72] BACKMAN, DANIEL, US
[72] SAFAVIEH, MOHAMMADALI, US
[72] KAUR, AMAN, US
[72] MORRIS, DEREK, US
[72] ALVAREZ, LUIS M., US
[71] LUNG BIOTECHNOLOGY PBC, US
[85] 2024-04-23
[86] 2022-10-21 (PCT/US2022/047384)
[87] (WO2023/076111)
[30] US (63/271,670) 2021-10-25

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CD122 ANTIBODIES, ANTI-CD132 ANTIBODIES, AND RELATED BISPECIFIC BINDING PROTEINS**
[54] **ANTICORPS ANTI-CD122, ANTICORPS ANTI-CD132 ET PROTEINES DE LIAISON BISPECIFIQUES ASSOCIEES**
[72] GONG, SHIYONG, CN
[72] HUANG, LINI, CN
[72] WU, CHENGBIN, CN
[72] WU, DANQING, CN
[72] WU, XUAN, CN
[72] ZHANG, RUI, CN
[71] SHANGHAI EPIMAB BIOTHERAPEUTICS CO., LTD., CN
[85] 2024-04-23
[86] 2022-10-24 (PCT/CN2022/127036)
[87] (WO2023/078113)
[30] CN (PCT/CN2021/128208) 2021-11-02

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[13] A1
[51] **Int.Cl. A61K 35/16 (2015.01)**
[25] EN
[54] **SPECIMEN COLLECTION DEVICE**
[54] **DISPOSITIF DE COLLECTE D'ECHANTILLONS**
[72] KOWALEWSKI, MARCIN, CA
[72] KOWALEWSKI, RYSZARD, CA
[71] PRP TECHNOLOGIES, INC., US
[85] 2024-04-23
[86] 2021-11-11 (PCT/US2021/058921)
[87] (WO2023/086090)

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[13] A1
[51] **Int.Cl. F24H 1/10 (2022.01) F24H 1/12 (2006.01) F24H 1/14 (2006.01) F24H 1/18 (2022.01) F24H 1/20 (2006.01) F24H 1/44 (2022.01) F24H 1/48 (2006.01)**
[25] EN
[54] **BURNER VESSEL AND FLUID HEATER**
[54] **RECIPIENT DE BRULEUR ET APPAREIL DE CHAUFFAGE DE FLUIDE**
[72] WHITE, MATTHEW, GB
[71] DIGITAL HEAT LTD, GB
[85] 2024-04-23
[86] 2022-10-25 (PCT/GB2022/052713)
[87] (WO2023/073358)
[30] GB (2115479.4) 2021-10-27

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[13] A1
[51] **Int.Cl. F24D 3/08 (2006.01)**
[25] EN
[54] **ELECTRIC FLUID HEATER**
[54] **DISPOSITIF ELECTRIQUE DE CHAUFFAGE DE FLUIDE**
[72] WHITE, MATTHEW, GB
[71] DIGITAL HEAT LTD, GB
[85] 2024-04-23
[86] 2022-10-25 (PCT/GB2022/052712)
[87] (WO2023/073357)
[30] GB (2115478.6) 2021-10-27

[21] **3,236,142**
[13] A1
[51] **Int.Cl. F24D 3/08 (2006.01) F24H 1/10 (2022.01) F24H 1/48 (2006.01) F24H 9/02 (2006.01)**
[25] EN
[54] **ELECTRIC FLUID HEATER**
[54] **DISPOSITIF DE CHAUFFAGE DE FLUIDE ELECTRIQUE**
[72] WHITE, MATTHEW, GB
[71] DIGITAL HEAT LTD, GB
[85] 2024-04-23
[86] 2022-10-25 (PCT/GB2022/052711)
[87] (WO2023/073356)
[30] GB (2115477.8) 2021-10-27

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[13] A1
[51] **Int.Cl. G08B 21/02 (2006.01) G08B 25/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FALL DETECTION USING MULTIPLE SENSORS, INCLUDING BAROMETRIC OR ATMOSPHERIC PRESSURE SENSORS**
[54] **SYSTEME ET PROCEDE DE DETECTION DE CHUTE A L'AIDE DE MULTIPLES CAPTEURS, COMPRENANT DES CAPTEURS DE PRESSION BAROMETRIQUE OU ATMOSPHERIQUE**
[72] LARSON, JONATHAN, US
[72] SIMMONS, CHIA-LIN, US
[72] POWERS, SEAN, US
[71] LOGICMARK, INC., US
[85] 2024-04-23
[86] 2022-10-24 (PCT/US2022/047601)
[87] (WO2023/069781)
[30] US (63/271,194) 2021-10-24

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[13] A1
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/10 (2020.01) A61P 25/34 (2006.01)**
[25] EN
[54] **SMART SYSTEM FOR COMBATING NICOTINE DEPENDENCE**
[54] **SYSTEME INTELLIGENT DE LUTTE CONTRE LA DEPENDANCE A LA NICOTINE**
[72] NAZAROV, MARLEN PETROVICH, RU
[71] ALFABET LABS DMCC, AE
[85] 2024-04-23
[86] 2022-10-05 (PCT/RU2022/050313)
[87] (WO2023/085974)
[30] RU (2021132504) 2021-11-09

[21] **3,236,145**
[13] A1
[51] **Int.Cl. H01F 29/02 (2006.01) H01F 27/04 (2006.01)**
[25] EN
[54] **THREE-PHASE MULTI-TAP BALANCING DISTRIBUTION TRANSFORMER**
[54] **TRANSFORMATEUR DE DISTRIBUTION TRIPHASE A EQUILIBRAGE DE LA CHARGE A SORTIES MULTIPLES**
[72] NUNAMAKER, JAMES PATRICK, US
[72] UMBER, RYAN JOE, US
[72] MARTINEZ, WILLIAN ARISTIDES, US
[71] SOUTHWEST ELECTRIC CO., US
[85] 2024-04-22
[86] 2022-10-19 (PCT/US2022/047148)
[87] (WO2023/069531)
[30] US (63/270,803) 2021-10-22

[21] **3,236,146**
[13] A1
[51] **Int.Cl. E02D 29/12 (2006.01)**
[25] EN
[54] **ON-SITE ASSEMBLED HANDHOLES**
[54] **TROUS A POING ASSEMBLES SUR PLACE**
[72] VOGEL, MARK, US
[71] AFL TELECOMMUNICATIONS LLC, US
[85] 2024-04-22
[86] 2022-10-20 (PCT/US2022/047246)
[87] (WO2023/069597)
[30] US (63/270,937) 2021-10-22

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[13] A1
[51] **Int.Cl. G06F 21/31 (2013.01) G06F 21/62 (2013.01) H04L 9/40 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MANAGING TOKENS AND FILTERING DATA TO CONTROL DATA ACCESS**
[54] **SYSTEMES ET PROCEDES DE GESTION DE JETONS ET DE FILTRAGE DE DONNEES POUR CONTROLER L'ACCES A DES DONNEES**
[72] BABANI, DENIS, US
[72] D'SOUZA, WILSON, US
[72] DISSANAYAKE, ASANKA, US
[72] KUKESH, JEFFREY, US
[72] MAHALAHA, ANIL, US
[72] RUBINSTEIN, STUART, US
[72] HILL, GREYSON, US
[71] AKOYA LLC, US
[85] 2024-04-22
[86] 2022-10-20 (PCT/US2022/047287)
[87] (WO2023/069624)
[30] US (17/452,007) 2021-10-22
[30] US (17/452,010) 2021-10-22
[30] US (17/452,019) 2021-10-22
[30] US (17/452,020) 2021-10-22
[30] US (17/452,031) 2021-10-22

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[13] A1
[51] **Int.Cl. A23L 33/115 (2016.01)**
[25] EN
[54] **TRIBUTYRIN SUPPLEMENTATION PROVIDES BENEFITS FOR MENTAL WELLNESS, IMMUNE HEALTH AND FAT METABOLISM**
[54] **SUPPLEMENTATION EN TRIBUTYRINE PROCURANT DES AVANTAGES POUR LE BIEN-ETRE MENTAL, LA SANTE IMMUNITAIRE ET LE METABOLISME DES GRAISSES**
[72] SHARMA, VANDANA, US
[72] MITMESSER, SUSAN HAZELS, US
[71] PHARMAVITE LLC, US
[85] 2024-04-22
[86] 2022-10-22 (PCT/US2022/047501)
[87] (WO2023/069761)
[30] US (63/271,093) 2021-10-22

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[13] A1
[51] **Int.Cl. A61B 3/103 (2006.01) A61B 3/11 (2006.01) A61B 3/14 (2006.01) A61B 3/15 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR OCULAR EXAMINATION**
[54] **PROCEDES ET APPAREIL D'EXAMEN OCULAIRE**
[72] HOFMANN, MATTHIAS, US
[72] MOLDAVE, JACK, US
[71] 123 SEE, INC., US
[85] 2024-04-22
[86] 2022-10-21 (PCT/US2022/047459)
[87] (WO2023/069734)
[30] US (63/270,907) 2021-10-22

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[13] A1
[51] **Int.Cl. C07D 231/14 (2006.01) A61K 31/415 (2006.01) A61K 31/4155 (2006.01) A61K 31/435 (2006.01) A61K 31/454 (2006.01) A61K 31/496 (2006.01) A61K 31/497 (2006.01) A61K 31/4995 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61K 31/541 (2006.01) A61K 31/554 (2006.01) A61P 31/12 (2006.01) C07D 401/12 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 409/12 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **NOVEL HOST-TARGETED PAN-RESPIRATORY ANTIVIRAL SMALL MOLECULE THERAPEUTICS**
[54] **NOUVEAUX AGENTS THERAPEUTIQUES ANTIVIRAUX PAN-RESPIRATOIRES A PETITES MOLECULES CIBLANT L'HOTE**
[72] LINGAPPA, VISHWANATH R., US
[72] PAULVANNAN, KUMARAPANDIAN, US
[71] PROSETTA BIOSCIENCES, INC., US
[85] 2024-04-22
[86] 2022-10-24 (PCT/US2022/047533)
[87] (WO2023/069770)
[30] US (63/270,918) 2021-10-22

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[13] A1
[51] **Int.Cl. G06T 7/60 (2017.01) G06T 7/12 (2017.01) G06T 7/73 (2017.01)**
[25] EN
[54] **PASSIVE RANGE FINDER AND ASSOCIATED METHOD**
[54] **TELEMETRE PASSIF ET PROCEDE ASSOCIE**
[72] ALEXANDER, DONOVAN LEE, US
[72] HARDING, JAMES ANDREW, GB
[72] PARGETER, RYAN EILLIS, GB
[71] QIOPTIQ LIMITED, GB
[85] 2024-04-22
[86] 2022-10-26 (PCT/US2022/047875)
[87] (WO2023/076378)
[30] US (63/272,254) 2021-10-27

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[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ERM2 MODIFICATION**
[54] **COMPOSITIONS ET PROCEDES POUR LA MODIFICATION DE L'ERM2**
[72] LYDEARD, JOHN, US
[72] CHAKRABORTY, TIRTHA, US
[71] VOR BIOPHARMA INC., US
[85] 2024-04-22
[86] 2022-11-09 (PCT/US2022/049460)
[87] (WO2023/086422)
[30] US (63/277,542) 2021-11-09

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[13] A1
[51] **Int.Cl. A61K 9/51 (2006.01) A61K 9/127 (2006.01) A61K 31/7088 (2006.01)**
[25] EN
[54] **POEGMA-BASED LIPID NANOPARTICLES**
[54] **NANOPARTICULES LIPIDIQUES A BASE DE POEGMA**
[72] CHILKOTI, ASHUTOSH, US
[72] SAHA, SOUMEN, US
[72] SIROHI, PARUL, US
[72] HUCKNALL, ANGUS, US
[72] DESHPANDE, SONAL, US
[71] DUKE UNIVERSITY, US
[85] 2024-04-22
[86] 2022-10-25 (PCT/US2022/078659)
[87] (WO2023/076902)
[30] US (63/271,595) 2021-10-25

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[13] A1
[51] **Int.Cl. B60L 5/24 (2006.01) B60L 53/14 (2019.01) B60L 53/16 (2019.01) B60L 5/26 (2006.01) B60L 5/36 (2006.01) B60L 5/42 (2006.01)**
[25] EN
[54] **POSITIONING UNIT FOR A CHARGING STATION, AND METHOD FOR ESTABLISHING CONTACT**
[54] **UNITE DE POSITIONNEMENT POUR UNE STATION DE CHARGE ET PROCEDE POUR ETABLIR UN CONTACT**
[72] FUHR, ALEXANDER, DE
[72] LEIB, HOLGER, DE
[72] SCHNEIDER, LOTHAR, DE
[72] DOMES, MATTHIAS, DE
[72] STAUBACH, TIMO, DE
[71] SCHUNK TRANSIT SYSTEMS GMBH, DE
[85] 2024-04-22
[86] 2021-10-25 (PCT/EP2021/079561)
[87] (WO2023/072365)

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[13] A1
[51] **Int.Cl. B25J 9/00 (2006.01) B25J 13/08 (2006.01)**
[25] EN
[54] **SENSORIZED EXOSKELETON SYSTEM**
[54] **SYSTEME D'EXOSQUELETTE MUNI DE CAPTEURS**
[72] PEREZ GIL DE LA SERNA, JUAN MANUEL, ES
[72] MORENO LORENTE, LUIS ENRIQUE, ES
[72] SABIN COPACI, DORIN, ES
[72] CRESPO BARTOLOME, SARA, ES
[71] GESNAER CONSULTING, S.L.N.E., ES
[85] 2024-04-22
[86] 2022-10-17 (PCT/EP2022/078801)
[87] (WO2023/072652)
[30] EP (21382966.6) 2021-10-26

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[13] A1
[51] **Int.Cl. C08F 8/06 (2006.01) C09J 133/06 (2006.01)**
[25] EN
[54] **AQUEOUS DISPERSION OF POLYMER PARTICLES AND USES THEREOF AS AN ADHESIVE COMPOSITION**
[54] **DISPERSION AQUEUSE DE PARTICULES DE POLYMERE ET SES UTILISATIONS EN TANT QUE COMPOSITION ADHESIVE**
[72] SAIJA, LEO MARIO, IT
[72] LUGLI, MARIO, IT
[72] PREMOLI, ANDREA, IT
[72] PERINO, LUCA, IT
[72] FERRETTI, SIMONA, IT
[72] CONTI, SILVIA, IT
[72] ORCESI, MANUELA, IT
[71] ARKEMA FRANCE, FR
[85] 2024-04-22
[86] 2022-11-09 (PCT/EP2022/081294)
[87] (WO2023/083873)
[30] EP (21306578.2) 2021-11-12

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[13] A1
[51] **Int.Cl. C07D 237/30 (2006.01) A61K 31/502 (2006.01) A61P 3/00 (2006.01) A61P 7/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 401/06 (2006.01) C07D 403/06 (2006.01) C07D 405/06 (2006.01) C07D 405/14 (2006.01) C07D 413/06 (2006.01) C07D 417/06 (2006.01) C07D 471/04 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **PHTHALAZINE DERIVATIVES AS PYRUVATE KINASE MODULATORS**
[54] **DERIVES DE PHTALAZINE UTILISES COMME MODULATEURS DE LA PYRUVATE KINASE**
[72] COUSIN, DAVID, GB
[72] BARBA, OSCAR, GB
[71] SITRYX THERAPEUTICS LIMITED, GB
[85] 2024-04-22
[86] 2022-11-04 (PCT/GB2022/052781)
[87] (WO2023/079294)
[30] EP (21206793.8) 2021-11-05
[30] EP (21216843.9) 2021-12-22
[30] EP (22177827.7) 2022-06-08

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[13] A1
[51] **Int.Cl. H04W 52/38 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION**
[72] LIU, YE, CN
[72] ZHANG, QIAN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-04-22
[86] 2022-09-14 (PCT/CN2022/118581)
[87] (WO2023/065892)
[30] CN (202111235354.0) 2021-10-22

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[13] A1
[51] **Int.Cl. C07K 14/74 (2006.01) A61K 31/7088 (2006.01) A61K 38/17 (2006.01) A61K 38/46 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) C12N 15/10 (2006.01) C12N 15/12 (2006.01)**
[25] EN
[54] **HLA SUPERAGONISTS AND USES THEREOF**
[54] **SUPERAGONISTES DE HLA ET LEURS UTILISATIONS**
[72] HIRANO, NAOTO, CA
[72] MURATA, KENJI, CA
[72] LY, DALAM, CA
[72] SAIJO, HIROSHI, CA
[72] MATSUNAGA, YUKIKO, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2024-04-22
[86] 2022-10-21 (PCT/IB2022/060159)
[87] (WO2023/067577)
[30] US (63/262,941) 2021-10-22

[21] **3,236,160**
[13] A1
[51] **Int.Cl. B60R 16/04 (2006.01) B66F 9/075 (2006.01)**
[25] EN
[54] **BATTERY LOCKING MECHANISMS, REMOVABLE BATTERY ASSEMBLIES, AND MATERIALS HANDLING VEHICLES INCORPORATING THE SAME**
[54] **MECANISMES DE VERROUILLAGE DE BATTERIE, ENSEMBLES BATTERIES AMOVIBLES ET VEHICULES DE MANUTENTION LES INCORPORANT**
[72] MULLER, ROLAND, DE
[72] MA, MARTIN, CN
[72] YANG, JACK, CN
[72] CHEN, ANDY, CN
[72] XIA, BRUCE, CN
[72] SUN, LUYING, CN
[71] CROWN EQUIPMENT CORPORATION, US
[85] 2024-04-22
[86] 2021-10-22 (PCT/CN2021/125825)
[87] (WO2023/065330)

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[13] A1
[51] **Int.Cl. C12N 9/02 (2006.01) A01G 22/00 (2018.01) A01H 6/20 (2018.01) A01H 6/54 (2018.01) A01G 7/06 (2006.01) A01G 13/00 (2006.01) A01H 5/00 (2018.01) C12N 15/53 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **MUTATED HYDROXYPHENYLPYRUVATE DIOXYGENASE POLYPEPTIDE, AND CODING GENE AND USE THEREOF**
[54] **POLYPEPTIDE MUTE DE L'HYDROXYPHENYLPYRUVATE DIOXYGENASE, GENE CODANT ET SON UTILISATION**
[72] XIAO, XIANG, CN
[72] SONG, QINGFANG, CN
[72] TAO, QING, CN
[72] YU, CAIHONG, CN
[71] BEIJING DABEINONG BIOTECHNOLOGY CO., LTD., CN
[85] 2024-04-22
[86] 2021-12-15 (PCT/CN2021/138425)
[87] (WO2023/108495)

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[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) A61K 39/02 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **IMMUNOGENIC COMPOSITION FOR THE PREVENTION OF MARINE TENACIBACULOSIS CAUSED BY TENACIBACULUM MARITIMUM AND TENACIBACULUM SOLEAE IN FISH, PRODUCTION METHOD AND USE**
[54] **COMPOSITION IMMUNOGENE POUR LA PREVENTION DE LA TENACIBACULOSIS MARINA CAUSEE PAR LA TENACIBACULUM MARITIMUM ET LA TENACIBACULUM SOLEAE CHEZ DES POISSONS, PROCEDE D'OBTENTION ET U TILISATION**
[72] SANTOS RODRIGUEZ, YSABEL, ES
[72] TORRES CORRAL, YOLANDA, ES
[71] UNIVERSIDADE DE SANTIAGO DE COMPOSTELA, ES
[85] 2024-04-22
[86] 2022-10-17 (PCT/ES2022/070654)
[87] (WO2023/073260)
[30] ES (P202131002) 2021-10-26

[21] **3,236,164**
[13] A1
[51] **Int.Cl. C12N 1/12 (2006.01) A23K 10/16 (2016.01) C11B 1/02 (2006.01) C12P 7/40 (2006.01)**
[25] EN
[54] **NOVEL STRAIN OF SCHIZOCHYTRIUM SP. WITH EASY INTRACELLULAR OIL EXTRACTION AND METHOD FOR PRODUCING OIL CONTAINING OMEGA3 USING SAME**
[54] **NOUVELLE SOUCHE DE SCHIZOCHYTRIUM SP. AVEC EXTRACTION FACILE DES HUILES INTRACELLULAIRES ET PROCEDE DE PRODUCTION D'HUILE CONTENANT DES OMEGA 3 L'UTILISANT**
[72] CHOI, JUNG-WOON, KR
[72] KANG, HAE-WON, KR
[72] GWAK, JUN SEOK, KR
[72] SHIN, WON SUB, KR
[72] JANG, SUNGHOON, KR
[72] KIM, JI YOUNG, KR
[72] RYU, AE JIN, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2024-04-22
[86] 2022-08-10 (PCT/KR2022/011959)
[87] (WO2023/080400)
[30] KR (10-2021-0152561) 2021-11-08

[21] **3,236,165**
[13] A1
[51] **Int.Cl. C10G 65/12 (2006.01)**
[25] EN
[54] **COMBINED HYDROGENATION PROCESS AND SYSTEM FOR PRODUCING CHEMICAL RAW MATERIALS**
[54] **PROCEDE D'HYDROGENATION COMBINE ET SYSTEME DE PRODUCTION DE MATIERES PREMIERES CHIMIQUES**
[72] FAN, SIQIANG, CN
[72] WANG, ZHONGYI, CN
[72] WU, ZIMING, CN
[72] PENG, SHAOZHONG, CN
[72] LIU, CHANG, CN
[72] CAO, ZHENGKAI, CN
[72] SUN, SHIKE, CN
[72] CUI, ZHE, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN
[85] 2024-04-22
[86] 2022-10-14 (PCT/CN2022/125330)
[87] (WO2023/071827)
[30] CN (202111277050.0) 2021-10-30

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[13] A1
[51] **Int.Cl. H04L 9/40 (2022.01) H04L 9/32 (2006.01) H04L 12/66 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MANAGING USER AUTHENTICATION IN IIOT ENVIRONMENTS USING HARDWARE TOKENS**
[54] **PROCEDES ET SYSTEMES DE GESTION D'AUTHENTIFICATION D'UTILISATEUR DANS DES ENVIRONNEMENTS IIOT EN UTILISANT DES JETONS MATERIELS**
[72] KROVATKINA, MARIA, US
[72] DANG, ANH, US
[72] YAQOOB, MUHAMMAD MOEEN, US
[72] KLEIN, FELIPE, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-04-22
[86] 2021-10-22 (PCT/US2021/056130)
[87] (WO2023/069106)

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[13] A1
[51] **Int.Cl. B26D 7/26 (2006.01) B26F 1/38 (2006.01) B26F 1/44 (2006.01)**
[25] EN
[54] **DIE-HOLDER CYLINDER FOR A LAMINAR MATERIAL DIE-CUTTING MACHINE**
[54] **CYLINDRE PORTE-MATRICE POUR MACHINE DE DECOUPAGE D'UN MATERIAU LAMELLAIRE**
[72] SERRA OBIOL, RAMON, ES
[72] PUIG VARGAS, JORDI, ES
[71] COMERCIAL INDUSTRIAL MAQUINARIA CARTON ONDULADO, S.L., ES
[85] 2024-04-22
[86] 2022-10-19 (PCT/ES2022/070662)
[87] (WO2023/067220)
[30] ES (U202132071) 2021-10-22

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[13] A1
[51] **Int.Cl. F24T 10/20 (2018.01) C09K 8/592 (2006.01) E21B 43/17 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **FRACTURING HOT ROCK**
[54] **FRACTURATION DE ROCHE CHAUDE**
[72] MCINTYRE, JACK, US
[71] MCINTYRE, JACK, US
[85] 2024-04-24
[86] 2022-10-25 (PCT/US2022/047743)
[87] (WO2023/076283)
[30] US (63/272,094) 2021-10-26
[30] US (17/970,845) 2022-10-21

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[13] A1
[51] **Int.Cl. B26D 7/26 (2006.01) B26F 1/38 (2006.01) B26F 1/44 (2006.01)**
[25] EN
[54] **DIE-HOLDER CYLINDER FOR A SHEET MATERIAL DIE-CUTTING MACHINE**
[54] **CYLINDRE PORTE-MATRICE POUR MACHINE DE DECOUPAGE D'UN MATERIAU LAMELLAIRE**
[72] SERRA OBIOL, RAMON, ES
[72] PUIG VARGAS, JORDI, ES
[71] COMERCIAL INDUSTRIAL MAQUINARIA CARTON ONDULADO, S.L., ES
[85] 2024-04-22
[86] 2022-10-19 (PCT/ES2022/070663)
[87] (WO2023/067221)
[30] ES (U202132071) 2021-10-22

[21] **3,236,172**
[13] A1
[51] **Int.Cl. B21B 37/76 (2006.01) B21B 37/44 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RAPID SUBSTRATE COOLING**
[54] **SYSTEME ET PROCEDE DE REFROIDISSEMENT RAPIDE DE SUBSTRAT**
[72] SU, FRANK, US
[72] XAVIER, RENATO RUFINO, US
[72] GAENSBAUER, DAVID ANTHONY, US
[72] STANISTREET, TIMOTHY FRANCIS, US
[72] NAZRO, LOUIS MITCHELL, US
[72] GANTZER, DAVID EDWARD, US
[72] EBOLI, CARLOS, US
[72] EDDIE, CURTIS, US
[72] WRIGHT, DAVID SKINGLEY, DE
[71] NOVELIS INC., US
[85] 2024-04-22
[86] 2022-10-21 (PCT/US2022/047487)
[87] (WO2023/076125)
[30] US (63/263,092) 2021-10-27

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[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **ANTIGEN-BINDING PROTEIN COMPRISING TWO FC DOMAINS AND USE THEREOF**
[54] **PROTEINE DE LIAISON A L'ANTIGENE COMPRENANT DEUX DOMAINES FC ET SON UTILISATION**
[72] CHOI, EUN SHIK, KR
[72] PARK, HYUNKYU, KR
[72] BAE, JI SEON, KR
[72] YANG, GI-HYEOK, KR
[71] CENTENAIRE BIOSCIENCES, INC., KR
[85] 2024-04-22
[86] 2022-10-22 (PCT/KR2022/015981)
[87] (WO2023/068818)
[30] KR (10-2021-0142135) 2021-10-22

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[13] A1
[51] **Int.Cl. B01J 19/12 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONTROLLING A MICROWAVE-ASSISTED TREATMENT**
[54] **PROCEDE ET SYSTEME DE COMMANDE D'UN TRAITEMENT ASSISTE PAR MICRO-ONDES**
[72] LAVIOLETTE, JEAN-PHILIPPE, CA
[72] DOUCET, JOCELYN, CA
[72] SEVIGNY, BENOIT, CA
[71] PYROWAVE INC., CA
[85] 2024-04-24
[86] 2022-10-28 (PCT/IB2022/060406)
[87] (WO2023/073642)
[30] US (63/263,173) 2021-10-28

[21] **3,236,178**
[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/28 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS CYCLER HAVING DISINFECTION**
[54] **CYCLEUR DE DIALYSE PERITONEALE A DESINFECTION**
[72] JANSSON, OLOF, SE
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-22
[86] 2022-11-09 (PCT/US2022/079544)
[87] (WO2023/091869)
[30] US (63/280,431) 2021-11-17

[21] **3,236,182**
[13] A1
[51] **Int.Cl. A61K 31/7105 (2006.01) C12N 15/113 (2010.01) A61K 48/00 (2006.01) C07H 21/02 (2006.01) C12N 5/10 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND SYSTEMS FOR RNA-PROGRAMABLE CELL EDITING AND METHODS OF MAKING AND USING SAME**
[54] **COMPOSITIONS ET SYSTEMES POUR L'EDITION DE CELLULES PAR PROGRAMMATION D'ARN ET LEURS METHODES DE PRODUCTION ET D'UTILISATION**
[72] HUANG, Z. JOSH, US
[72] QIAN, YONGJUN, US
[71] DUKE UNIVERISTY, US
[71] COLD SPRING HARBOR LABORATORY, US
[85] 2024-04-24
[86] 2022-10-31 (PCT/US2022/079008)
[87] (WO2023/077138)
[30] US (63/273,343) 2021-10-29
[30] US (63/343,669) 2022-05-19

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[13] A1
[51] **Int.Cl. A21D 2/36 (2006.01) A21D 8/04 (2006.01) A21D 10/00 (2006.01) C12N 1/04 (2006.01) C12N 1/16 (2006.01) C12N 1/20 (2006.01)**
[25] FR
[54] **STABILIZED, READY-TO-USE LIVE LEAVENING AGENT**
[54] **LEVAIN VIVANT STABILISE PRET A L'EMPLOI**
[72] BRYCKAERT, EMILIE, FR
[72] DESMONS, ANNE, FR
[72] DEPIERRE, ALBAN, FR
[71] LESAFFRE ET COMPAGNIE, FR
[85] 2024-04-24
[86] 2022-10-21 (PCT/EP2022/079480)
[87] (WO2023/072783)
[30] FR (FR2111427) 2021-10-27

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[13] A1
[51] **Int.Cl. A61K 38/47 (2006.01) A61K 48/00 (2006.01) A61P 3/00 (2006.01) C12N 9/24 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **AAV-IDUA VECTOR FOR TREATMENT OF MPS I**
[54] **VECTEUR AAV-IDUA POUR LE TRAITEMENT DE MPS I**
[72] FU, HAIYAN, US
[72] BOBO, TIERRA, US
[72] KWON, HYOUKBUM, US
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[85] 2024-04-24
[86] 2022-10-27 (PCT/US2022/078746)
[87] (WO2023/076972)
[30] US (63/272,501) 2021-10-27

[21] **3,236,190**
[13] A1
[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/686 (2018.01)**
[25] EN
[54] **A MICROSPHERE COMPRISING A FIRST MATERIAL AND A SECOND MATERIAL**
[54] **MICROSPHERE COMPRENANT UN PREMIER MATERIAU ET UN SECOND MATERIAU**
[72] ERMANTRAUT, EUGEN, DE
[72] ELLINGER, THOMAS, DE
[72] LEMUTH, OLIVER, DE
[72] STEINMETZER, KATRIN, DE
[72] KLINGNER, SUSANNE, DE
[72] KANITZ, LEA, DE
[71] BLINK AG, DE
[85] 2024-04-24
[86] 2022-11-07 (PCT/EP2022/080978)
[87] (WO2023/079140)
[30] EP (21206745.8) 2021-11-05

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[13] A1
[51] **Int.Cl. C07H 15/04 (2006.01) A61P 31/04 (2006.01) A61P 37/04 (2006.01) C07H 3/06 (2006.01) C07H 5/06 (2006.01)**
[25] EN
[54] **SYNTHETIC GLYCOCONJUGATE VACCINE PROTOTYPE AGAINST STREPTOCOCCUS SUIS**
[54] **PROTOTYPE DE VACCIN SYNTHETIQUE GLYCOCONJUGUE CONTRE STREPTOCOCCUS SUIS**
[72] SEGURA, MARIELA, CA
[72] GOTTSCHALK, MARCELO, CA
[72] LOWARY, TODD, CA
[72] LI, PEI-JHEN, CA
[72] JANA, MANAS, CA
[72] LO FIEGO, MARCOS, CA
[72] SWEENEY, RYAN, CA
[71] UNIVERSITE DE MONTREAL, CA
[71] UNIVERSITY OF ALBERTA, CA
[85] 2024-04-24
[86] 2022-10-28 (PCT/CA2022/051600)
[87] (WO2023/070223)
[30] US (63/263,356) 2021-11-01

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[13] A1
[51] **Int.Cl. E21B 21/08 (2006.01) E21B 41/00 (2006.01) E21B 43/013 (2006.01) E21B 43/16 (2006.01)**
[25] EN
[54] **EMISSIONS MANAGEMENT MODULES AND ASSOCIATED SYSTEMS AND METHODS**
[54] **MODULES DE GESTION D'EMISSIONS, ET SYSTEMES ET PROCEDES ASSOCIES**
[72] CASTAGNOS, BENJAMIN, US
[72] DAVIS, TYLER, US
[72] GALASSINI, BENJAMIN, US
[72] JUDICE, EVAN ELIE, US
[72] WASSON, MICHAEL, US
[72] WILLIAMS, WALTER E., US
[72] JOHNSON, JOHN H., US
[71] ARCHROCK SERVICES, L.P., US
[85] 2024-04-24
[86] 2022-10-28 (PCT/US2022/048251)
[87] (WO2023/076616)
[30] US (63/273,703) 2021-10-29

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[13] A1
[51] **Int.Cl. G01N 21/359 (2014.01) G01J 3/00 (2006.01) G01J 3/02 (2006.01) G01J 3/08 (2006.01) G01N 21/65 (2006.01) G01N 30/02 (2006.01) G06N 3/08 (2023.01)**
[25] EN
[54] **DEEP LEARNING-BASED PREDICTION FOR MONITORING OF PHARMACEUTICALS USING SPECTROSCOPY**
[54] **PREDICTION FONDEE SUR UN APPRENTISSAGE PROFOND POUR LA SURVEILLANCE DE PRODUITS PHARMACEUTIQUES PAR SPECTROSCOPIE**
[72] KHODABANDEHLOU, HAMID, US
[72] WANG, TONY Y., US
[72] TULSYAN, ADITYA, US
[72] SCHORNER, GREGORY L., US
[71] AMGEN INC., US
[85] 2024-04-23
[86] 2022-10-26 (PCT/US2022/047790)
[87] (WO2023/076318)
[30] US (63/272,595) 2021-10-27

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[13] A1
[51] **Int.Cl. B01D 53/96 (2006.01) B01D 53/04 (2006.01)**
[25] EN
[54] **PROCESSES AND SYSTEMS FOR REGENERATION OF SORBENT FOR USE IN CAPTURE OF CARBON DIOXIDE**
[54] **PROCEDES ET SYSTEMES DE REGENERATION DE SORBANT DESTINES A ETRE UTILISES DANS LA CAPTURE DE DIOXYDE DE CARBONE**
[72] BALAJI, SAYEE PRASAAD, NL
[72] NISBET, TIMOTHY MICHAEL, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2024-04-23
[86] 2022-11-10 (PCT/EP2022/081442)
[87] (WO2023/083949)
[30] EP (21207908.1) 2021-11-12

[21] **3,236,196**
[13] A1
[51] **Int.Cl. A62D 1/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR USE IN FIRE CONTROL**
[54] **PROCEDES ET COMPOSITIONS DESTINES A ETRE UTILISES DANS LA LUTTE CONTRE LES INCENDIES**
[72] AN, JUN SU, US
[72] NGANTUNG, FREDERYK, US
[72] TAN, LOONGYI, US
[72] DESAI, AMIT, US
[71] SOLUGEN, INC., US
[85] 2024-04-24
[86] 2022-11-02 (PCT/US2022/079174)
[87] (WO2023/081723)
[30] US (63/274,833) 2021-11-02

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[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/196 (2006.01) A61K 47/22 (2006.01) A61P 29/02 (2006.01)**
[25] EN
[54] **DICLOFENAC-CONTAINING TTS COMPRISING DIMETHYLPROPYLENEUREA**
[54] **TTS CONTENANT DU DICLOFENAC COMPRENANT DE LA DIMETHYLPROPYLENE UREE**
[72] DZEKAN, HORST, DE
[72] WITTLICH, LUISA, DE
[72] REUM, NICO, DE
[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE
[85] 2024-04-18
[86] 2022-11-04 (PCT/EP2022/080881)
[87] (WO2023/079118)
[30] DE (10 2021 128 911.4) 2021-11-05

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[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/21 (2006.01)**
[25] EN
[54] **BIOREACTOR APPARATUS**
[54] **APPAREIL DE BIOREACTEUR**
[72] AJIOKA, JAMES W., GB
[72] SA, RUI, GB
[72] YARKONI, ORR, GB
[71] COLORIFIX LTD, GB
[85] 2024-04-24
[86] 2022-11-03 (PCT/GB2022/052773)
[87] (WO2023/079286)
[30] GB (2115814.2) 2021-11-03

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[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **ANTI-AMYLOID BETA ANTIBODIES AND METHODS OF USING THE SAME**
[54] **ANTICORPS ANTI-BETA-AMYLOIDES ET LEURS PROCEDES D'UTILISATION**
[72] LIAO, FAN, US
[72] CHHAYA, MEHA, US
[72] MCCLUSKEY, ANDREW J., US
[72] BROWN, NATHAN J., US
[71] ABBVIE INC., US
[85] 2024-04-23
[86] 2022-10-28 (PCT/US2022/078913)
[87] (WO2023/077091)
[30] US (63/263,204) 2021-10-28

[21] **3,236,200**
[13] A1
[51] **Int.Cl. A61B 17/15 (2006.01) A61B 17/17 (2006.01)**
[25] EN
[54] **BONE REPOSITIONING GUIDE SYSTEM AND PROCEDURE**
[54] **SYSTEME GUIDE DE REPOSITIONNEMENT OSSEUX ET PROCEDURE**
[72] SAYGER, DANIEL, US
[72] HOLLIS, MICHAEL CHAD, US
[72] HARTDEGEN, VERNON, US
[71] CROSSROADS EXTREMITY SYSTEMS, LLC, US
[85] 2024-04-23
[86] 2022-10-24 (PCT/IB2022/060202)
[87] (WO2023/073535)
[30] US (63/263,076) 2021-10-26

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[13] A1
[51] **Int.Cl. C12Q 1/6883 (2018.01) A61P 11/00 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **TREATMENT OF LUNG DISEASE BASED UPON STRATIFICATION OF POLYGENIC RISK SCORE FOR INTERLEUKIN 33 (IL-33)**
[54] **TRAITEMENT DES MALADIES PULMONAIRES EN FONCTION DE LA STRATIFICATION DU SCORE DE RISQUE POLYGENIQUE POUR L'INTERLEUKINE 33 (IL-33)**
[72] PAULDING, CHARLES, US
[72] CHEN, SHAN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-04-23
[86] 2022-11-10 (PCT/US2022/079643)
[87] (WO2023/086887)
[30] US (63/278,266) 2021-11-11
[30] US (63/351,848) 2022-06-14

[21] **3,236,203**
[13] A1
[51] **Int.Cl. A63H 33/06 (2006.01)**
[25] EN
[54] **TOY BUILDING UNIT**
[54] **UNITE DE JOUET DE CONSTRUCTION**
[72] ENGELHARD, TERESA LUCILLE, AU
[71] ENGELHARD, TERESA LUCILLE, AU
[85] 2024-04-24
[86] 2022-11-14 (PCT/AU2022/051358)
[87] (WO2023/087050)
[30] US (17/527,884) 2021-11-16

[21] **3,236,204**
[13] A1
[51] **Int.Cl. E01C 11/22 (2006.01) E03F 5/046 (2006.01) E01C 11/24 (2006.01) E01C 23/09 (2006.01) E03F 7/00 (2006.01)**
[25] EN
[54] **PONDING ALLEVIATION PROCESS**
[54] **PROCEDE DE REDUCTION D'ACCUMULATION D'EAU**
[72] HESTER, AARON, US
[71] PIM CS LLC, US
[85] 2024-04-23
[86] 2022-11-01 (PCT/US2022/048553)
[87] (WO2023/086239)
[30] US (63/277,427) 2021-11-09
[30] US (17/958,034) 2022-09-30

[21] **3,236,206**
[13] A1
[51] **Int.Cl. G06F 1/14 (2006.01)**
[25] EN
[54] **DRUG DELIVERY DEVICES, COMPONENTS FOR USE WITHIN DRUG DELIVERY DEVICES**
[54] **DISPOSITIFS D'ADMINISTRATION DE MEDICAMENT, COMPOSANTS DESTINES A ETRE UTILISES DANS DES DISPOSITIFS D'ADMINISTRATION DE MEDICAMENT**
[72] QUON, CHRISTOPHER, US
[72] ASHANI, ALIREZA, US
[72] COLES, ANDREW, US
[72] SEE, KENG-TONG, US
[72] YIN, DESHENG, US
[72] GIORDANO, SERGIO, US
[72] TRABUCCHI, CARLO, US
[72] SILVANO, ALBERTO, US
[71] AMGEN INC., US
[85] 2024-04-23
[86] 2022-11-04 (PCT/US2022/048906)
[87] (WO2023/081324)
[30] US (63/276,384) 2021-11-05

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[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/28 (2006.01) B01D 63/02 (2006.01) B01D 63/06 (2006.01) B01D 63/08 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM HAVING A PATIENT LINE FILTER**
[54] **SYSTEME DE DIALYSE PERITONEALE PRESENTANT UN FILTRE EN LIGNE DE PATIENT**
[72] ACIKGOZ, SERHAN, US
[72] BECK, CHRISTOF, US
[72] BLICKLE, RAINER, US
[72] BUCK, REINHOLD, US
[72] ERICSON, BJORN, SE
[72] STYRBJORN FALLMAN, OSKAR ERIK FRODE, SE
[72] FLIEG, RALF, US
[72] KNOER, TORSTEN, US
[72] KRAUSE, BERND, US
[72] NORMAN, JOHN STERLING, US
[72] MORRISSEY, MICHAEL PATRICK, US
[72] WAGNER, STEFFEN, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-23
[86] 2022-11-18 (PCT/US2022/080119)
[87] (WO2023/114607)
[30] US (63/291,058) 2021-12-17

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[13] A1
[51] **Int.Cl. B25J 15/00 (2006.01) B25J 15/06 (2006.01)**
[25] FR
[54] **GRIPPER**
[54] **PREHENSEUR**
[72] KFOURY, FARES, FR
[72] GROSSARD, MATHIEU, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2024-04-24
[86] 2022-11-03 (PCT/EP2022/080731)
[87] (WO2023/079028)
[30] FR (FR2111735) 2021-11-04

[21] **3,236,209**
[13] A1
[51] **Int.Cl. C01G 53/00 (2006.01) C01G 53/04 (2006.01)**
[25] EN
[54] **A METAL OXIDE PRODUCT FOR MANUFACTURING A POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM-ION RECHARGEABLE BATTERIES**
[54] **PRODUIT D'OXYDE METALLIQUE POUR FABRICATION D'UN MATERIAU ACTIF D'ELECTRODE POSITIVE POUR BATTERIES LITHIUM-ION RECHARGEABLES**
[72] NELIS, DANIEL, BE
[72] LAMBRIGHS, KASPER, BE
[72] DE PALMA, RANDY, BE
[72] ZHU, LIANG, BE
[72] SHIN, JONG-WON, DE
[71] UMICORE, BE
[85] 2024-04-24
[86] 2022-10-20 (PCT/EP2022/079270)
[87] (WO2023/072734)
[30] EP (21204484.6) 2021-10-25

[21] **3,236,210**
[13] A1
[51] **Int.Cl. C12N 15/09 (2006.01) C12N 15/113 (2010.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01)**
[25] EN
[54] **METHODS OF IMPROVING SYSTEMIC DISEASE OUTCOMES BY INHIBITION OF ZHX2**
[54] **PROCEDES D'AMELIORATION DE RESULTATS DE MALADIE SYSTEMIQUE PAR INHIBITION DE ZHX2**
[72] CHUGH, SUMANT SINGH, US
[71] RUSH UNIVERSITY MEDICAL CENTER, US
[85] 2024-04-24
[86] 2022-10-20 (PCT/US2022/047263)
[87] (WO2023/076097)
[30] US (63/272,404) 2021-10-27

[21] **3,236,211**
[13] A1
[51] **Int.Cl. A61M 1/28 (2006.01) A61M 1/16 (2006.01) A61M 39/10 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM HAVING AN AIR RETURN PATIENT LINE FILTER**
[54] **SYSTEME DE DIALYSE PERITONEALE AYANT UN FILTRE DE CONDUITE DE PATIENT A RETOUR D'AIR**
[72] WAGNER, STEFFEN, US
[72] FLIEG, RALF, US
[72] BUCK, REINHOLD, US
[72] BECK, CHRISTOF, US
[72] BLICKLE, RAINER, US
[72] KRAUSE, BERND, US
[72] KNOER, TORSTEN, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-23
[86] 2022-11-18 (PCT/US2022/080155)
[87] (WO2023/114611)
[30] US (63/291,036) 2021-12-17

[21] **3,236,212**
[13] A1
[51] **Int.Cl. A61M 1/28 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM WITH DUAL LUMEN PATIENT LINE AND METHOD FOR DETECTION OF OCCLUSIONS**
[54] **SYSTEME DE DIALYSE PERITONEALE A CATHETER PATIENT A DOUBLE LUMIERE ET PROCEDE DE DETECTION D'OCCLUSIONS**
[72] ERICSON, BJORN, SE
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-23
[86] 2022-10-31 (PCT/US2022/078977)
[87] (WO2023/081620)
[30] US (63/274,693) 2021-11-02

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[13] A1
[51] **Int.Cl. C07K 1/16 (2006.01) B01D 15/36 (2006.01) B01D 15/38 (2006.01) C07K 1/18 (2006.01) C07K 1/22 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ISOLATING PROTEINS**
[54] **COMPOSITIONS ET PROCEDES POUR ISOLER DES PROTEINES**
[72] ZURLO, EUGENE, US
[72] CURTIN, DENNIS, US
[72] RADTKE, KLAUS PETER, US
[72] DORFMAN, RYAN, US
[72] WHELIHAN, MATTHEW, US
[71] PLASMA TECHNOLOGIES, LLC, US
[85] 2024-04-24
[86] 2021-12-22 (PCT/US2021/065024)
[87] (WO2023/075812)
[30] US (63/272,605) 2021-10-27

[21] **3,236,215**
[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **NANT COVID VACCINE CROSS REACTIVITY**
[54] **REACTIVITE CROISEE D'UN VACCIN ANTI-COVID NANT**
[72] SOON-SHIONG, PATRICK, US
[71] IMMUNITYBIO, INC., US
[85] 2024-04-23
[86] 2022-11-29 (PCT/US2022/080561)
[87] (WO2023/102375)
[30] US (63/284,203) 2021-11-30

[21] **3,236,216**
[13] A1
[51] **Int.Cl. C22B 1/00 (2006.01) C22B 7/00 (2006.01) C22B 21/00 (2006.01) F27D 3/08 (2006.01) F27D 9/00 (2006.01) F27D 19/00 (2006.01) F27D 21/00 (2006.01)**
[25] EN
[54] **COOLING SYSTEM FOR DECOATER CYCLONE DUST AND RELATED METHODS**
[54] **SYSTEME DE REFROIDISSEMENT POUR POUSSIERE DE CYCLONE DE DECAPAGE ET PROCEDES ASSOCIES**
[72] SON, JUNGYOUNG, US
[71] NOVELIS INC., US
[85] 2024-04-23
[86] 2022-11-30 (PCT/US2022/080693)
[87] (WO2023/133009)
[30] US (63/266,465) 2022-01-06

[21] **3,236,218**
[13] A1
[51] **Int.Cl. F03B 13/18 (2006.01) F03D 13/25 (2016.01) F03B 13/20 (2006.01) F03B 13/26 (2006.01) F03D 3/00 (2006.01) F03D 9/00 (2016.01)**
[25] EN
[54] **ENERGYMASTER - A FLOATING HYBRID TIDAL/WAVE/WIND HARVESTING SYSTEM**
[54] **ENERGYMASTER - SYSTEME DE COLLECTE D'ENERGIE EOLIENNE / HOULOMOTRICE / MAREMOTRICE HYBRIDE FLOTTANT**
[72] YU, MEILIN, US
[72] IOANA, STEFAN, US
[71] UNIVERSITY OF MARYLAND, BALTIMORE COUNTY, US
[85] 2024-04-24
[86] 2022-10-26 (PCT/US2022/078680)
[87] (WO2023/076918)
[30] US (63/271,733) 2021-10-26

[21] **3,236,219**
[13] A1
[51] **Int.Cl. A61J 1/14 (2006.01) A61J 1/10 (2006.01)**
[25] EN
[54] **INJECTION SITE WITH A MEMBRANE AND A LEAK-FREE REMOVABLE PROTECTION**
[54] **SITE D'INJECTION DOTE D'UNE MEMBRANE ET D'UNE PROTECTION AMOVIBLE SANS FUITE**
[72] MANTA, VIRGIL CLAUDIU, BE
[72] WASTERLAIN, STEVE, BE
[72] BEZIN, JEAN-CLAUDE, BE
[72] CASARTELLI, FABIO GIUSEPPE, CH
[72] DESBROSSES, FREDDY, BE
[72] GEORGES, MICHAEL, BE
[72] MARCHE, CECILE, BE
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-23
[86] 2022-12-06 (PCT/US2022/080972)
[87] (WO2023/107914)
[30] US (17/543,117) 2021-12-06

[21] **3,236,220**
[13] A1
[51] **Int.Cl. B24B 5/42 (2006.01) B24B 5/04 (2006.01)**
[25] EN
[54] **GRINDING MACHINE CENTERING GAUGE**
[54] **JAUGE DE CENTRAGE DE RECTIFIEUSE**
[72] HYKES, TIMOTHY W., US
[71] FIVES LANDIS CORP., US
[85] 2024-04-24
[86] 2021-10-27 (PCT/US2021/056783)
[87] (WO2023/075759)

[21] **3,236,221**
[13] A1
[51] **Int.Cl. C01G 53/00 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING A PRECURSOR MATERIAL FOR A LI-CONTAINING CATHODE ACTIVE MATERIAL**
[54] **PROCEDE DE PREPARATION D'UN MATERIAU PRECURSEUR POUR UN MATERIAU ACTIF DE CATHODE CONTENANT DU LI**
[72] PAULSEN, JENS MARTIN, NZ
[72] DRIESEN, KRIS, BE
[72] NELIS, DANIEL, BE
[72] DE PALMA, RANDY, BE
[72] LAMBRIGHS, KASPER, BE
[72] SHIN, JONG-WON, DE
[71] UMICORE, BE
[85] 2024-04-24
[86] 2022-10-20 (PCT/EP2022/079277)
[87] (WO2023/072737)
[30] EP (21204489.5) 2021-10-25

[21] **3,236,223**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12N 1/00 (2006.01) C12N 1/38 (2006.01) C12N 9/00 (2006.01)**
[25] EN
[54] **CELL CULTURE FEEDING DEVICE**
[54] **DISPOSITIF D'ALIMENTATION EN CULTURE CELLULAIRE**
[72] BERTUCCI, TAYLOR, US
[72] LOTZ, STEVEN, US
[72] TEMPLE, SALLY, US
[72] STERN, JEFFREY, US
[71] REGENERATIVE RESEARCH FOUNDATION, US
[85] 2024-04-24
[86] 2022-10-25 (PCT/US2022/047734)
[87] (WO2023/076275)
[30] US (63/272,461) 2021-10-27

[21] **3,236,224**
[13] A1
[51] **Int.Cl. C11D 9/00 (2006.01) C11D 9/02 (2006.01) C11D 9/22 (2006.01) C11D 9/44 (2006.01) C11D 13/00 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **LOW-WATER COMPOSITIONS**
[54] **COMPOSITIONS A FAIBLE TENEUR EN EAU**
[72] LYNCH, MATTHEW LAWRENCE, US
[72] ILLIE, BRANDON PHILIP, US
[72] WILLIAMS, KRISTIN RHEDRICK, US
[72] MCCULLOUGH, JOCELYN MICHELLE, US
[72] IBERI, VIGHTER, US
[72] HUFFORD, KAREN DIANA, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-24
[86] 2023-08-08 (PCT/US2023/071809)
[87] (WO2024/036123)
[30] US (63/397,411) 2022-08-12

[21] **3,236,225**
[13] A1
[51] **Int.Cl. A61K 31/165 (2006.01) A61P 35/00 (2006.01) C07C 327/44 (2006.01)**
[25] EN
[54] **ISOLATED TRANS ISOMER OF 3-(2-BROMO-3,4-DIHYDROXY-PHENYL)-N-(3,4,5-TRIHYDROXY-BENZYL)-THIOACRYLAMIDE**
[54] **ISOMERE TRANS ISOLE DE 3-(2-BROMO-3,4-DIHYDROXY-PHENYL)-N-(3,4,5-TRIHYDROXY-BENZYL)-THIOACRYLAMIDE**
[72] REUVENI, HADAS, IL
[71] TYRNOVO LTD., IL
[85] 2024-04-24
[86] 2022-10-03 (PCT/IL2022/051052)
[87] (WO2023/079545)
[30] US (63/275,488) 2021-11-04

[21] **3,236,226**
[13] A1
[51] **Int.Cl. C11D 9/00 (2006.01) C11D 9/02 (2006.01) C11D 9/22 (2006.01) C11D 9/44 (2006.01) C11D 13/00 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **LOW-WATER COMPOSITIONS**
[54] **COMPOSITIONS A FAIBLE TENEUR EN EAU**
[72] LYNCH, MATTHEW LAWRENCE, US
[72] ILLIE, BRANDON PHILIP, US
[72] WILLIAMS, KRISTIN RHEDRICK, US
[72] MCCULLOUGH, JOCELYN MICHELLE, US
[72] IBERI, VIGHTER, US
[72] HUFFORD, KAREN DIANA, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-24
[86] 2023-08-08 (PCT/US2023/071803)
[87] (WO2024/036117)
[30] US (63/397,403) 2022-08-12

[21] **3,236,227**
[13] A1
[51] **Int.Cl. C07C 1/20 (2006.01) C10G 7/02 (2006.01)**
[25] EN
[54] **PROCESS AND PLANT FOR IMPROVING OXYGENATE TO GASOLINE CONVERSION**
[54] **PROCEDE ET INSTALLATION POUR AMELIORER LA CONVERSION DE COMPOSES OXYGENES EN ESSENCE**
[72] KNUDSEN, ARNE, DK
[72] RABI, KUMAR, DK
[71] TOPSOE A/S, DK
[85] 2024-04-24
[86] 2022-10-28 (PCT/EP2022/080251)
[87] (WO2023/073199)
[30] EP (21205604.8) 2021-10-29

[21] **3,236,228**
[13] A1
[51] **Int.Cl. C01B 17/79 (2006.01) C01C 1/02 (2006.01) C01C 1/24 (2006.01) C05B 11/08 (2006.01)**
[25] EN
[54] **PRODUCTION OF SULFURIC ACID EMPLOYING AN O2 RICH STREAM**
[54] **PRODUCTION D'ACIDE SULFURIQUE A L'AIDE D'UN FLUX RICHE EN O2**
[72] GRANROTH, MARTEN NILS RICKARD, SE
[72] SORENSEN, PER AGGERHOLM, DK
[72] ROSENFELDT, JAMES BERNARD, AU
[71] TOPSOE A/S, DK
[85] 2024-04-24
[86] 2022-10-28 (PCT/EP2022/080166)
[87] (WO2023/073152)
[30] EP (21205190.8) 2021-10-28

[21] **3,236,229**
[13] A1
[51] **Int.Cl. G01D 5/00 (2006.01) G01S 11/00 (2006.01)**
[25] EN
[54] **ISOLATION OF ELECTRONIC ENVIRONMENT FOR IMPROVED CHANNEL ESTIMATION**
[54] **ISOLATION D'UN ENVIRONNEMENT ELECTRONIQUE POUR UNE ESTIMATION DE CANAL AMELIOREE**
[72] BEG, CHRIS, CA
[72] OMER, MOHAMMAD, CA
[71] COGNITIVE SYSTEMS CORP., CA
[85] 2024-04-24
[86] 2022-10-26 (PCT/IB2022/060308)
[87] (WO2023/073589)
[30] US (63/273,572) 2021-10-29
[30] US (63/284,305) 2021-11-30

[21] **3,236,230**
[13] A1
[51] **Int.Cl. C11D 1/83 (2006.01) C11D 3/20 (2006.01) C11D 3/50 (2006.01) C11D 11/00 (2006.01)**
[25] EN
[54] **DETERGENT COMPOSITIONS**
[54] **COMPOSITIONS DETERGENTES**
[72] FLANNERY, JONATHAN HARRIS, US
[72] RANDALL, SHERRI LYNN, US
[72] PORTER, PHILIP JOHN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-04-24
[86] 2022-11-23 (PCT/US2022/080392)
[87] (WO2023/102337)
[30] US (17/541,310) 2021-12-03

[21] **3,236,231**
[13] A1
[51] **Int.Cl. H04L 43/0864 (2022.01) H04L 47/70 (2022.01) H04L 1/00 (2006.01) H04L 67/101 (2022.01) H04L 67/563 (2022.01)**
[25] EN
[54] **NETWORK CHANNEL WITH LEVELIZED AND RANDOMIZED LATENCY**
[54] **CANAL DE RESEAU A LATENCE ACTUALISEE ET RANDOMISEE**
[72] MANNIX, BRIAN F., US
[71] TAMER TRADING TECHNOLOGIES LLC, US
[85] 2024-04-23
[86] 2022-11-02 (PCT/US2022/048701)
[87] (WO2023/081210)
[30] US (63/274,688) 2021-11-02
[30] US (17/978,830) 2022-11-01

[21] **3,236,232**
[13] A1
[51] **Int.Cl. C10B 53/00 (2006.01) C10G 1/00 (2006.01) C10G 3/00 (2006.01) C10G 45/44 (2006.01) C10G 65/12 (2006.01) C10G 65/14 (2006.01) C10G 69/06 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCTION OF A LOW-AROMATIC HYDROCARBON FROM PYROLYSIS OIL**
[54] **PROCEDE POUR LA PRODUCTION D'UN HYDROCARBURE A FAIBLE TENEUR EN COMPOSES AROMATIQUES A PARTIR D'HUILE DE PYROLYSE**
[72] STUMMANN, MAGNUS ZINGLER, DK
[72] ANDERSEN, STEFAN, DK
[72] GABRIELSEN, JOSTEIN, DK
[72] EGEBERG, RASMUS GOTTSCHALCK, DK
[71] TOPSOE A/S, DK
[85] 2024-04-24
[86] 2022-10-26 (PCT/EP2022/079933)
[87] (WO2023/073019)
[30] EP (21204788.0) 2021-10-26

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[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/145 (2006.01) A61B 5/16 (2006.01)**
[25] EN
[54] **CONTINUOUS CORTISOL MONITORING SYSTEM WITH MICRONEEDLE ARRAY**
[54] **SYSTEME DE SURVEILLANCE DU CORTISOL EN CONTINU DOTE D'UN RESEAU DE MICRO-AIGUILLES**
[72] MALLIRES, KYLE, US
[72] KAVNER, JONATHAN EVERETT, US
[72] WINDMILLER, JOSHUA RAY, US
[72] ARROYO, NETZAHUALCOYOTL, US
[71] BIOLINQ INCORPORATED, US
[85] 2024-04-24
[86] 2022-10-27 (PCT/US2022/078819)
[87] (WO2023/229662)
[30] US (63/272,640) 2021-10-27

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[13] A1
[51] **Int.Cl. C10B 53/00 (2006.01) C10G 1/00 (2006.01) C10G 3/00 (2006.01) C10G 45/44 (2006.01) C10G 47/00 (2006.01) C10G 65/12 (2006.01) C10G 67/04 (2006.01) C10G 69/06 (2006.01)**
[25] EN
[54] **A PROCESS FOR HYDROTREATMENT OF AROMATIC NITROGEN COMPOUNDS**
[54] **PROCEDE D'HYDROTRAITEMENT DE COMPOSES AZOTES AROMATIQUES**
[72] STUMMANN, MAGNUS ZINGLER, DK
[72] HANSEN, JENS ANDERS, DK
[72] SYMRENG, MARCUS, SE
[72] VERDIER, SYLVAIN, DK
[71] TOPSOE A/S, DK
[85] 2024-04-24
[86] 2022-10-26 (PCT/EP2022/079932)
[87] (WO2023/073018)
[30] EP (21204787.2) 2021-10-26

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[13] A1
[51] **Int.Cl. C07C 229/12 (2006.01) A61K 9/127 (2006.01) A61K 9/51 (2006.01) A61K 47/18 (2017.01)**
[25] EN
[54] **LIPID NANOPARTICLE COMPOSITIONS FOR DELIVERING CIRCULAR POLYNUCLEOTIDES**
[54] **COMPOSITIONS DE NANOPARTICULES LIPIDIQUES POUR L'ADMINISTRATION DE POLYNUCLEOTIDES CIRCULAIRES**
[72] HORHOTA, ALLEN T., US
[72] YANG, JUNGHOON, US
[72] KAUFFMAN, KEVIN, US
[72] BARNES, THOMAS, US
[72] WESSELHOEFT, ROBERT ALEXANDER, US
[72] BECKER, AMY M., US
[72] MOTZ, GREGORY, US
[71] ORNA THERAPEUTICS, INC., US
[85] 2024-04-23
[86] 2022-11-08 (PCT/US2022/049313)
[87] (WO2023/081526)
[30] US (63/277,055) 2021-11-08

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[13] A1
[51] **Int.Cl. A61K 31/7105 (2006.01) C12N 15/113 (2010.01) C12N 15/10 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND SYSTEMS FOR RNA-PROGRAMMABLE CELL EDITING AND METHODS OF MAKING AND USING SAME**
[54] **COMPOSITIONS ET SYSTEMES POUR L'EDITION CELLULAIRE PROGRAMMABLE PAR L'ARN ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] HUANG, Z. JOSH, US
[72] QIAN, YONGJUN, US
[71] DUKE UNIVERSITY, US
[71] COLD SPRING HARBOR LABORATORY, US
[85] 2024-04-24
[86] 2022-10-31 (PCT/US2022/079004)
[87] (WO2023/077135)
[30] US (63/273,343) 2021-10-29
[30] US (63/343,669) 2022-05-19

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[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) A61K 38/16 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07H 21/04 (2006.01)**
[25] EN
[54] **PEPTIDES AND ENGINEERED T CELL RECEPTORS TARGETING MAGE-A4 ANTIGEN AND METHODS OF USE**
[54] **PEPTIDES ET RECEPTEURS DE LYMPHOCYTES T MODIFIES CIBLANT L'ANTIGENE MAGE-A4 ET METHODES D'UTILISATION**
[72] YEE, CASSIAN, US
[72] PAN, KE, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2024-04-23
[86] 2022-10-24 (PCT/US2022/078597)
[87] (WO2023/076863)
[30] US (63/271,368) 2021-10-25
[30] US (63/279,527) 2021-11-15

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[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **KRAS G12C INHIBITORS**
[54] **INHIBITEURS DE KRAS G12C**
[72] PATEL, SNAHEL, US
[72] TANAKA, HIROKO, US
[72] ERLANSON, DANIEL A., US
[72] GERKEN, PHILIP A., US
[72] WIDEN, JOHN C., US
[72] WILLIAMS, MONIKA JANE, US
[72] DOTSENKO, IRINA, US
[71] FRONTIER MEDICINES CORPORATION, US
[85] 2024-04-23
[86] 2022-11-04 (PCT/US2022/079324)
[87] (WO2023/081840)
[30] US (63/276,478) 2021-11-05
[30] US (63/356,906) 2022-06-29
[30] US (63/403,565) 2022-09-02

[21] **3,236,239**
[13] A1
[51] **Int.Cl. G06F 21/35 (2013.01)**
[25] EN
[54] **IDENTIFYING POSITION AND DETERMINING INTENT BASED ON UWB TEMPORAL SIGNATURES**
[54] **IDENTIFICATION DE POSITION ET DETERMINATION D'INTENTION D'APRES DES SIGNATURES TEMPORELLES A BANDE ULTRALARGE (UWB)**
[72] ROWE, ROBERT KJELL, US
[72] MING, JING, US
[71] ASSA ABLOY AB, SE
[85] 2024-04-24
[86] 2021-10-25 (PCT/US2021/072013)
[87] (WO2023/075813)

[21] **3,236,240**
[13] A1
[51] **Int.Cl. A62B 18/04 (2006.01) A42B 3/28 (2006.01)**
[25] EN
[54] **PERSONAL PROTECTION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE PROTECTION PERSONNELLE**
[72] HERBERT, JACOB, US
[72] HACK, BRADFORD H., US
[72] GREEN, LAWRENCE J., US
[72] EL SHERIF, DINA, US
[72] SIMBULAN, CHRISTOPHER, US
[72] HERBERT, H. NICHOLAS, US
[72] MEMITA, CARLO C., US
[71] PABBAN DEVELOPMENT, INC., US
[85] 2024-04-23
[86] 2022-10-27 (PCT/US2022/048064)
[87] (WO2023/076498)
[30] US (63/272,633) 2021-10-27

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[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/42 (2006.01) G01N 21/64 (2006.01) G02B 6/124 (2006.01)**
[25] EN
[54] **DETECTION APPARATUS, GENE SEQUENCING SYSTEM, AND DETECTING METHOD**
[54] **DISPOSITIF DE DETECTION, SYSTEME DE SEQUENCAGE GENETIQUE ET PROCEDE DE DETECTION**
[72] WEI, YI, CN
[72] HUANG, YI, CN
[72] JIANG, HEMING, CN
[72] YANG, BIN, CN
[72] WEN, XIN, CN
[72] HUANG, HENG, CN
[72] CAO, MINGYOU, CN
[72] DENG, QIAN, CN
[71] MGI TECH CO., LTD., CN
[85] 2024-04-24
[86] 2021-11-03 (PCT/CN2021/128444)
[87] (WO2023/077306)

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[13] A1
[51] **Int.Cl. A61F 13/02 (2024.01) C09J 7/30 (2018.01) C09J 7/40 (2018.01) A61F 15/00 (2006.01) A61K 8/02 (2006.01) A61K 9/70 (2006.01) A61M 5/158 (2006.01)**
[25] EN
[54] **ADHESIVE BANDAGE SYSTEM FOR MEDICATION DELIVERY AND INDICATION OF PROCEDURE LOCATION**
[54] **SYSTEME DE PANSEMENT ADHESIF POUR L'ADMINISTRATION DE MEDICAMENTS ET L'INDICATION DE L'EMPLACEMENT D'UNE PROCEDURE**
[72] WELSH, STEPHEN, US
[71] WELSH, STEPHEN, US
[85] 2024-04-24
[86] 2022-12-13 (PCT/US2022/081425)
[87] (WO2023/114755)
[30] US (63/288,852) 2021-12-13

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[13] A1
[51] **Int.Cl. B27K 3/02 (2006.01) B05D 1/18 (2006.01)**
[25] EN
[54] **IMMERSION TREATMENT SYSTEM FOR ITEMS AND METHOD**
[54] **SYSTEME DE TRAITEMENT PAR IMMERSION POUR ARTICLES ET PROCEDE**
[72] ROMPRE, STEPHANE, CA
[72] BEN AYED, HAITHEM, CA
[72] TREMBLAY, LAURY, CA
[71] TECHNOLOGIES BORALIFE INC., CA
[85] 2024-04-24
[86] 2022-10-27 (PCT/CA2022/051598)
[87] (WO2023/070221)
[30] US (63/263,257) 2021-10-29

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[13] A1
[51] **Int.Cl. A47B 88/53 (2017.01) B65G 1/04 (2006.01)**
[25] EN
[54] **ACCESS STATION COMPRISING SAFETY MECHANISM**
[54] **STATION D'ACCES COMPRENANT UN MECANISME DE SECURITE**
[72] AUSTRHEIM, TROND, NO
[71] AUTOSTORE TECHNOLOGY AS, NO
[85] 2024-04-24
[86] 2022-10-13 (PCT/EP2022/078541)
[87] (WO2023/072612)
[30] NO (20211276) 2021-10-25

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[13] A1
[51] **Int.Cl. G01T 1/208 (2006.01) H01J 40/06 (2006.01) H01J 43/08 (2006.01) H01J 43/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SUPPRESSING X-RAY INTERFERENCE IN RADIATION PORTAL MONITORS**
[54] **SYSTEMES ET PROCEDES DESTINES A SUPPRIMER LES INTERFERENCES DE RAYONS X DANS DES PORTIQUES DE DETECTION DE RAYONNEMENTS**
[72] BATURIN, PAVLO, US
[71] SMITHS DETECTION INC., US
[85] 2024-04-24
[86] 2022-10-26 (PCT/US2022/047801)
[87] (WO2023/076325)
[30] US (63/271,796) 2021-10-26

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[13] A1
[51] **Int.Cl. F25J 1/00 (2006.01)**
[25] EN
[54] **GAS PURIFICATION AND LIQUEFICATION SYSTEM AND METHOD USING LIQUID NITROGEN**
[54] **SYSTEME ET PROCEDE DE PURIFICATION ET DE LIQUEFACTION DE GAZ FAISANT APPEL A L'AZOTE LIQUIDE**
[72] DORSI, CATHERINE, US
[72] KNOCHE, MARTIN, US
[72] MACRELLINO, ANDREA, US
[72] GARUTI, FILIPPO, US
[71] CHART ENERGY & CHEMICALS, INC., US
[85] 2024-04-24
[86] 2022-10-24 (PCT/US2022/047537)
[87] (WO2023/076142)
[30] US (63/271,388) 2021-10-25

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[13] A1
[51] **Int.Cl. A61G 10/00 (2006.01) A61G 10/02 (2006.01) E04H 1/12 (2006.01) E04H 3/08 (2006.01) E04H 15/44 (2006.01) E04H 15/50 (2006.01) H01R 13/62 (2006.01) H01R 13/627 (2006.01)**
[25] EN
[54] **ISOLATION ROOM APPARATUS**
[54] **APPAREIL DE CHAMBRE D'ISOLEMENT**
[72] BALLANTYNE, JUSTIN DOUGLAS, AU
[72] BURKWOOD, JAMES EDWARD ROBERT, AU
[72] BALLANTYNE, ANNA LOUISE, AU
[71] CARE STRATEGIC D.I.R. HOLDINGS PTY. LTD., AU
[85] 2024-04-24
[86] 2022-11-03 (PCT/AU2022/051320)
[87] (WO2023/077191)
[30] AU (2021903505) 2021-11-03

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[13] A1
[51] **Int.Cl. B60L 53/14 (2019.01) B60L 53/66 (2019.01) B60S 5/00 (2006.01)**
[25] EN
[54] **DETERMINING COMPONENT AND SERVICE RECOMMENDATIONS DURING AN ELECTRIC CHARGE**
[54] **DETERMINATION DE RECOMMANDATION D'ELEMENT ET DE SERVICE PENDANT UNE CHARGE ELECTRIQUE**
[72] RITCHIE, CHRISTIAN D., US
[72] ROBINSON, ANDREW B., US
[72] MUSLIMOVA, ZHANNA, US
[71] CATERPILLAR INC., US
[85] 2024-04-24
[86] 2022-09-30 (PCT/US2022/077365)
[87] (WO2023/076781)
[30] US (17/452,932) 2021-10-29

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[13] A1
[51] **Int.Cl. C08K 5/00 (2006.01) C08K 5/13 (2006.01) C08L 77/10 (2006.01)**
[25] EN
[54] **POLYAMIDE FORMULATIONS FOR LONG TERM HIGH TEMPERATURE PERFORMANCE**
[54] **FORMULATIONS DE POLYAMIDE POUR HAUTES PERFORMANCES A LONG TERME**
[72] WHITE, KIMBERLY M., US
[72] SPARKS, BRADLEY J., US
[72] RAY, JACOB G., US
[71] ASCEND PERFORMANCE MATERIALS OPERATIONS LLC, US
[85] 2024-04-24
[86] 2022-11-09 (PCT/US2022/049363)
[87] (WO2023/086359)
[30] US (63/277,424) 2021-11-09

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[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **DEFENSIN-DERIVED PEPTIDE WITH ANTIBACTERIAL ACTIVITY ALSO AGAINST MULTI-ANTIBIOTIC-RESISTANT BACTERIA**
[54] **PEPTIDE DERIVE DE LA DEFENSINE AYANT UNE ACTIVITE ANTIBACTERIENNE EGALEMENT CONTRE DES BACTERIES AYANT UNE RESISTANCE MULTIPLE AUX ANTIBIOTIQUES**
[72] NIGRO, ERSILIA, IT
[72] COLAVITA, IRENE, IT
[72] COLICCHIO, ROBERTA, IT
[72] DANIELE, AURORA, IT
[72] SALVATORE, PAOLA, IT
[72] PESSI, ANTONELLO, IT
[72] SALVATORE, FRANCESCO, IT
[71] CEINGE BIOTECNOLOGIE AVANZATE FRANCO SALVATORE S.C. A R.L., IT
[85] 2024-04-24
[86] 2022-10-26 (PCT/IB2022/060288)
[87] (WO2023/073577)
[30] IT (102021000027581) 2021-10-27

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[13] A1
[51] **Int.Cl. C10G 19/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND PROCESS FOR CONTROLLING A SULFUR EXTRACTION FROM A HYDROCARBON STREAM**
[54] **SYSTEMES ET PROCEDE DE REGULATION D?UNE EXTRACTION DU SOUFRE A PARTIR D?UN COURANT D?HYDROCARBURES**
[72] TRUCKO, JESSY E., US
[72] SHI, YILI, US
[72] LEHUTA, KEITH, US
[71] UOP LLC, US
[85] 2024-04-24
[86] 2022-10-24 (PCT/US2022/078575)
[87] (WO2023/076852)
[30] US (63/263,256) 2021-10-29

[21] **3,236,255**
[13] A1
[51] **Int.Cl. C08G 73/02 (2006.01) B27N 3/02 (2006.01)**
[25] EN
[54] **PROCESS TO PREPARE A WOOD-BASED ARTICLE USING A TWO-STEP ADDITION AND SUNFLOWER OR BRASSICA MATERIAL**
[54] **PROCEDE POUR PREPARER UN ARTICLE A BASE DE BOIS A L'AIDE D'UNE ADDITION EN DEUX ETAPES ET D'UNE MATIERE ISSUE DE TOURNESOL OU DE BRASSICA**
[72] LE FUR, XAVIER, FR
[72] PELLETIER, HENRI, FR
[71] EVERTREE, FR
[85] 2024-04-24
[86] 2022-11-18 (PCT/EP2022/082457)
[87] (WO2023/089119)
[30] EP (21306613.7) 2021-11-19

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[13] A1
[51] **Int.Cl. E05C 9/04 (2006.01) B62H 5/08 (2006.01)**
[25] FR
[54] **VEHICLE LOCKING DEVICE, VEHICLE AND STORAGE STATION**
[54] **DISPOSITIF DE VERROUILLAGE D'UN VEHICULE, VEHICULE ET STATION DE STOCKAGE**
[72] PRAQUIN, GAEL, FR
[72] BRUNEAU, LAURENT, FR
[71] FIFTEEN, FR
[85] 2024-04-24
[86] 2022-11-09 (PCT/EP2022/081365)
[87] (WO2023/083914)
[30] FR (FR2111883) 2021-11-09

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[13] A1
[51] **Int.Cl. B65D 3/00 (2006.01) B65D 3/02 (2006.01) B65D 3/06 (2006.01) E04B 1/41 (2006.01) F24S 25/16 (2018.01) F24S 25/60 (2018.01) F24S 25/61 (2018.01)**
[25] EN
[54] **FASTENING ASSEMBLY FOR SOLAR POWER SYSTEMS AND TOOLS THEREOF**
[54] **ENSEMBLE DE FIXATION POUR SYSTEMES D'ENERGIE SOLAIRE ET OUTILS ASSOCIES**
[72] DELGADO-NANEZ, RICARDO, US
[71] NEXTRACKER LLC, US
[85] 2024-04-24
[86] 2022-10-27 (PCT/US2022/048104)
[87] (WO2023/076526)
[30] US (63/272,664) 2021-10-27

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[13] A1
[51] **Int.Cl. C07K 14/54 (2006.01) C12N 5/074 (2010.01) C12N 5/078 (2010.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) C07K 14/715 (2006.01) C07K 14/725 (2006.01) C07K 14/735 (2006.01)**
[25] EN
[54] **ENGINEERED EFFECTOR CELLS FOR TRAFFICKING OF ALLOGENEIC CELL THERAPIES IN SOLID TUMORS**
[54] **CELLULES EFFECTRICES MODIFIEES POUR LA NAVIGATION ACTIVE DE THERAPIES CELLULAIRES ALLOGENIQUES DANS DES TUMEURS SOLIDES**
[72] HOSKING, MARTIN, US
[72] VALAMEHR, BAHRAM, US
[72] SHIRINBAK, SOHEILA, US
[71] FATE THERAPEUTICS, INC., US
[85] 2024-04-24
[86] 2022-11-07 (PCT/US2022/079412)
[87] (WO2023/081896)
[30] US (63/277,034) 2021-11-08
[30] US (63/329,203) 2022-04-08

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[13] A1
[51] **Int.Cl. A61K 35/545 (2015.01) A61K 35/17 (2015.01) A61K 45/06 (2006.01) A61P 31/12 (2006.01)**
[25] EN
[54] **ENGINEERED EFFECTOR CELLS AND METHODS OF ENHANCING UBIQUITOUS TARGETING OF SOLID TUMORS**
[54] **CELLULES EFFECTRICES MODIFIEES ET PROCEDES D'AMELIORATION DU CIBLAGE OMNIPRESENT DE TUMEURS SOLIDES**
[72] GOULDING, JOHN CHARLES, US
[72] VALAMEHR, BAHRAM, US
[72] HOSKING, MARTIN, US
[72] BJORDAHL, RYAN, US
[71] FATE THERAPEUTICS, INC., US
[85] 2024-04-24
[86] 2022-11-07 (PCT/US2022/079419)
[87] (WO2023/081901)
[30] US (63/263,758) 2021-11-08
[30] US (63/265,192) 2021-12-09

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[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01)**
[25] EN
[54] **TYK2 DEGRADERS AND USES THEREOF**
[54] **AGENTS DE DEGRADATION DE TYK2 ET LEURS UTILISATIONS**
[72] MARX, ISAAC, US
[72] YATES, CHRISTOPHER MICHAEL, US
[72] ZHU, XIAO, US
[72] PENNINGTON, LEWIS DALE, US
[72] COMER, EAMON, US
[72] FORD, MELISSA, US
[71] KYMERA THERAPEUTICS, INC., US
[85] 2024-04-24
[86] 2022-10-24 (PCT/US2022/047570)
[87] (WO2023/076161)
[30] US (63/271,648) 2021-10-25

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[13] A1
[51] **Int.Cl. A41D 19/00 (2006.01) A61B 5/00 (2006.01) A61B 5/11 (2006.01) A61F 2/58 (2006.01) A61F 2/68 (2006.01) B25J 9/00 (2006.01)**
[25] EN
[54] **A SENSOR**
[54] **DETECTEUR**
[72] NIELSEN, POUL MICHAEL FONSS, NZ
[72] SHAHMOHAMMADI, MOJTABA, NZ
[72] LIAROKAPIS, MINAS, NZ
[71] AUCKLAND UNISERVICES LIMITED, NZ
[85] 2024-04-24
[86] 2022-10-27 (PCT/IB2022/060357)
[87] (WO2023/073617)
[30] US (63/272,669) 2021-10-27

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[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61K 45/06 (2006.01) A61P 29/00 (2006.01) C07D 519/00 (2006.01) C07D 413/14 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **IRAK4 DEGRADERS AND SYNTHESIS THEREOF**
[54] **AGENTS DE DEGRADATION D'IRAK4 ET LEUR SYNTHESE**
[72] LEONG, WILLIAM, US
[72] WILSON, DHARYL CHARLES, GB
[71] KYMERA THERAPEUTICS, INC., US
[85] 2024-04-24
[86] 2022-10-28 (PCT/US2022/048163)
[87] (WO2023/076556)
[30] US (63/263,274) 2021-10-29

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[13] A1
[51] **Int.Cl. C08G 18/10 (2006.01) C08G 18/42 (2006.01) C08G 18/67 (2006.01) C08G 18/75 (2006.01) C09J 175/16 (2006.01)**
[25] EN
[54] **ELASTIC (METH)ACRYLATE COMPOSITION WITH IMPROVED ADHESION ON OILY SUBSTRATES**
[54] **COMPOSITION ELASTIQUE DE (METH)ACRYLATE PRESENTANT UNE ADHERENCE AMELIOREE SUR DES SUBSTRATS HUILEUX**
[72] STORRER, DENISE, CH
[72] CHOFFAT, FABIEN, CH
[71] SIKA TECHNOLOGY AG, CH
[85] 2024-04-24
[86] 2022-11-21 (PCT/EP2022/082581)
[87] (WO2023/104485)
[30] EP (21213314.4) 2021-12-09

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[13] A1
[51] **Int.Cl. C09D 17/00 (2006.01) A01N 43/52 (2006.01) A01N 43/80 (2006.01) A01N 47/12 (2006.01)**
[25] EN
[54] **LOW VOC WATER-BORNE COLORANT COMPOSITIONS WITH IMPROVED MICROBIAL RESISTANCE AND METHOD FOR ASSESSING MICROBIAL RESISTANCE OF COLORANT COMPOSITIONS**
[54] **COMPOSITIONS DE COLORANT A L'EAU A FAIBLE TENEUR EN COV PRESENTANT UNE RESISTANCE MICROBIENNE AMELIOREE ET PROCEDE D'EVALUATION DE LA RESISTANCE MICROBIENNE DE COMPOSITIONS DE COLORAN**
[72] DONLON, JACOB S., US
[72] DIEHL, DONALD, US
[72] OLOFSSON-ELKOW, PATRICIA L., US
[72] CLAYTON, RENEE, US
[72] BRAUN, CARL, US
[72] ROOK, TONY A., US
[71] SWIMC LLC, US
[85] 2024-04-24
[86] 2022-10-26 (PCT/US2022/078685)
[87] (WO2023/076923)
[30] US (63/273,383) 2021-10-29

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[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 19/00 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **DEVELOPING INDUCIBLE CLUSTER CHIMERIC ANTIGEN RECEPTOR (CCAR) CONSTRUCTS**
[54] **MISE AU POINT DE CONSTRUCTIONS DE RECEPTEURS ANTIGENIQUES CHIMERIQUES EN GRAPPES (CCAR) INDUCTIBLES**
[72] LOHR, JENS G., US
[72] KNOECHEL, BIRGIT, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2024-04-24
[86] 2022-11-03 (PCT/US2022/079218)
[87] (WO2023/081754)
[30] US (63/275,752) 2021-11-04

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[13] A1
[51] **Int.Cl. A23L 13/40 (2023.01) A23L 13/60 (2016.01) A23P 10/35 (2016.01) A23J 3/14 (2006.01) A23J 3/22 (2006.01)**
[25] EN
[54] **METHOD FOR OBTAINING A GELLED PLANT PROTEIN COMPOSITION USING TRANSGLUTAMINASE**
[54] **PROCEDE D'OBTENTION D'UNE COMPOSITION PROTEIQUE VEGETALE GELIFIEE A L'AIDE DE TRANSGLUTAMINASE**
[72] HERNANDEZ MEDINA, JOCELYN Y., US
[72] MAESSE, ALEXANDER, US
[72] TIETJEN, MARKUS, US
[71] CORN PRODUCTS DEVELOPMENT, INC., US
[71] KATECH INGREDIENT SOLUTIONS GMBH, DE
[85] 2024-04-24
[86] 2022-10-28 (PCT/US2022/048145)
[87] (WO2023/076541)
[30] US (63/273,202) 2021-10-29

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[13] A1
[51] **Int.Cl. A23B 5/04 (2006.01) A23B 5/14 (2006.01) A23L 3/3418 (2006.01) A23L 3/3508 (2006.01) A23L 3/37 (2006.01)**
[25] EN
[54] **TREATMENT OF REFRIGERATED PRE-COOKED EGG FOOD PRODUCTS**
[54] **TRAITEMENT DE PRODUITS ALIMENTAIRES A BASE D'OEUF PRECUITS REFRIGERES**
[72] KESSLER, SAMUEL EDWARD, US
[72] SHRESTHA, SUBASH, US
[71] CARGILL, INCORPORATED, US
[85] 2024-04-24
[86] 2022-11-02 (PCT/US2022/079120)
[87] (WO2023/081686)
[30] US (63/274,631) 2021-11-02

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[13] A1
[51] **Int.Cl. G06Q 10/20 (2023.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING MACHINE USAGE SEVERITY**
[54] **SYSTEMES ET PROCEDES POUR DETERMINER LA SEVERITE D'UTILISATION D'UNE MACHINE**
[72] GIURGIU, GAVRIL A., US
[72] RAI, PRASHANT M., US
[72] CLINE, KYLE J., US
[71] CATERPILLAR INC., US
[85] 2024-04-24
[86] 2022-11-01 (PCT/US2022/079016)
[87] (WO2023/081628)
[30] US (17/517,375) 2021-11-02

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[13] A1
[51] **Int.Cl. A61K 31/4709 (2006.01) A61K 31/498 (2006.01) A61P 7/04 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **USE OF QUINOLINONE DERIVATIVE IN TREATMENT OF IMMUNE THROMBOCYTOPENIA**
[54] **UTILISATION D'UN DERIVE QUINOLINONE DANS LE TRAITEMENT DE LA THROMBOCYTOPENIE IMMUNITAIRE**
[72] ZHAO, QIAN, CN
[72] WANG, XUNQIANG, CN
[72] ZHANG, XIQUAN, CN
[72] YU, DING, CN
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2024-04-24
[86] 2022-11-11 (PCT/CN2022/131278)
[87] (WO2023/083281)
[30] CN (202111340688.4) 2021-11-12

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[13] A1
[51] **Int.Cl. B61F 3/04 (2006.01)**
[25] EN
[54] **A BOGIE AND A VEHICLE WITH SUCH BOGIE**
[54] **BOGIE ET VEHICULE EQUIPE D'UN TEL BOGIE**
[72] HOWSON, ADRIAN, GB
[72] O'BRIEN, SHAUN, GB
[72] SALKELD, PAUL, GB
[71] VLR TECHNOLOGIES LIMITED, GB
[85] 2024-04-24
[86] 2022-09-20 (PCT/GB2022/052374)
[87] (WO2023/041943)
[30] GB (2113401.0) 2021-09-20

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[13] A1
[51] **Int.Cl. B66F 9/06 (2006.01) B66F 9/22 (2006.01) B66F 9/24 (2006.01)**
[25] EN
[54] **FORKLIFT KIT WITH INTERCHANGEABLE POWER SYSTEM CONVERSION UNITS**
[54] **KIT POUR CHARIOT ELEVATEUR A FOURCHE POURVU D'UNITES DE CONVERSION DE SYSTEME D'ALIMENTATION INTERCHANGEABLES**
[72] GUGLIELMO, KENNON, US
[72] SCHUMANN, ADAM, US
[72] LUDWIG, BRENT, US
[72] MARTIN, MATTHEW, US
[72] SANDERS, JUSTIN H., US
[72] ROTH, RONALD B., US
[71] ECONTROLS, LLC, US
[85] 2024-04-24
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[54] **COMMANDE PULSEE POUR DISPOSITIF VIBRANT D'ALIMENTATION EN PARTICULES**
[72] KOZLOWSKI, MICHAEL, US
[72] HARTUNG, DAVID, US
[72] MALEN, RICHARD, US
[72] COLWELL, JOHN, US
[71] 6K INC., US
[85] 2024-04-24
[86] 2022-10-24 (PCT/US2022/078607)
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[25] FR
[54] **METHOD FOR TREATING PLASTIC PYROLYSIS OILS INCLUDING A HYDROGENATION STEP AND A HOT SEPARATION**
[54] **PROCEDE DE TRAITEMENT D'HUILES DE PYROLYSE DE PLASTIQUES INCLUANT UNE ETAPE D'HYDROGENATION ET UNE SEPARATION A CHAUD**
[72] WEISS, WILFRIED, FR
[72] DECOTTIGNIES, DOMINIQUE, FR
[72] BONNARDOT, JEROME, FR
[72] RIBAS SANGUESA, INIGO, ES
[72] SANTOS MARTINEZ, MARTIN, ES
[72] CARRASCO HERNANDEZ, SHEYLA, ES
[71] IFP ENERGIES NOUVELLES, FR
[71] REPSOL S.A., ES
[85] 2024-04-24
[86] 2022-11-23 (PCT/EP2022/082956)
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[54] **PHARMACEUTICAL COMPOSITION COMPRISING HUMAN HYALURONIDASE PH20 AND DRUG**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UNE PH20 HYALURONIDASE HUMAINE ET UN MEDICAMENT**
[72] PARK, SOON JAE, KR
[72] KIM, KYUWAN, KR
[72] NAM, KI SEOK, KR
[72] SONG, HYUNG-NAM, KR
[71] ALTEOGEN, INC., KR
[85] 2024-04-24
[86] 2022-10-28 (PCT/KR2022/016709)
[87] (WO2023/075506)
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[54] **DOSES EFFICACES DE CONJUGUES CNP**
[72] SPROGOE, KENNETT, DK
[72] KJELGAARD-HANSEN, MADS JENS, DK
[71] ASCENDIS PHARMA GROWTH DISORDERS A/S, DK
[85] 2024-04-24
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[54] **HUMIDIFICATEUR A FLAMME SIMULEE**
[72] CAI, ZHENGFU, CN
[71] AIRMATE ELECTRICAL (JIU JIANG) CO., LTD, CN
[85] 2024-04-24
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[25] EN
[54] **SYSTEM AND METHOD FOR ELECTROSTATIC COATING**
[54] **SYSTEME ET PROCEDE DE REVETEMENT ELECTROSTATIQUE**
[72] MCSHANE, ROBERT, US
[72] DUCHAK, ALEX, US
[72] MURRAY, STEVE, US
[72] MURRAY, JEREMY, US
[72] KANTAWALA, PARAKH, US
[71] POWDERCOIL TECHNOLOGIES, LLC, US
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[25] EN
[54] **MODULAR CRYOGENIC COOLING SYSTEM**
[54] **SYSTEME DE REFROIDISSEMENT CRYOGENIQUE MODULAIRE**
[72] NIKNAMMOGHADAM, AMIR, FI
[72] VORSELMAN, PIETER, FI
[72] MANNINEN, MATTI, FI
[72] ROSCHIER, LEIF, FI
[72] GUNNARSSON, DAVID, FI
[71] BLUEFORS OY, FI
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[25] EN
[54] **HYDROGEN PRODUCTION METHOD AND HYDROGEN PRODUCTION SYSTEM**
[54] **PROCEDE DE PRODUCTION D'HYDROGENE ET DISPOSITIF DE PRODUCTION D'HYDROGENE**
[72] ABE, HIDEKI, JP
[72] NISHIMURA, CHIKASHI, JP
[72] NOHARA, YUKIKO, JP
[72] OKURA, NAOKO, JP
[72] FUKUHARA, CHOJI, JP
[72] WATANABE, RYO, JP
[72] AKAISHI, MAMORU, JP
[72] TOYOSHIBA, KENTA, JP
[71] NATIONAL INSTITUTE FOR MATERIALS SCIENCE, JP
[71] NATIONAL UNIVERSITY CORPORATION SHIZUOKA UNIVERSITY, JP
[71] EBARA CORPORATION, JP
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[54] **BLOOD COLLECTION ASSEMBLY**
[54] **ENSEMBLE PRELEVEMENT SANGUIN**
[72] TRAWICK, JONATHAN, US
[72] SEMMANN, CLINT, US
[72] PRICE, JAMES, US
[71] THE MONARCH COMPANY, US
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[86] 2021-10-20 (PCT/US2021/055870)
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[51] **Int.Cl. B60K 15/03 (2006.01)**
[25] EN
[54] **FUEL TANK ASSEMBLY AND METHOD OF USING SAME**
[54] **ENSEMBLE RESERVOIR DE CARBURANT ET PROCEDE D'UTILISATION DE CE DERNIER**
[72] GRANGER, DANIEL HARRY, CA
[72] GRANGER, TAYLOR DANIEL, CA
[72] SQUANCE, KYLE ALEXANDER, CA
[71] SLEEGERS ENGINEERED PRODUCTS, INC., CA
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[30] US (63/271,973) 2021-10-26
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[54] **CLEANING AND CARING APPLIANCE AND TRANSDUCING APPARATUS THEREOF**
[54] **APPAREIL DE SOINS DE NETTOYAGE ET DISPOSITIF DE TRANSDUCTION ASSOCIE**
[72] DAI, XIAOGUO, CN
[72] XU, ZHENWU, CN
[71] KOLN&SHIFT (SHANGHAI) TECHNOLOGIES CO., LTD, CN
[85] 2024-04-23
[86] 2022-09-19 (PCT/CN2022/119531)
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[25] EN
[54] **A METHOD FOR PROMOTING PHASE-SEPARATION OF POLYMER SOLUTION AND A METHOD FOR PREPARING OLEFIN POLYMER**
[54] **PROCEDE POUR FAVORISER LA SEPARATION DE PHASES D'UNE SOLUTION DE POLYMERE ET PROCEDE POUR PREPARER UN POLYMERE D'OLEFINE**
[72] SONG, WENBO, CN
[72] FANG, YUANYUAN, CN
[72] HAN, SHULIANG, CN
[72] LYU, JINGLAN, CN
[72] JIN, ZHAO, CN
[72] WANG, LUSHENG, CN
[72] WANG, YA, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION, CN
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[54] **AN AUDIO APPARATUS AND METHOD OF OPERATION THEREFOR**
[54] **SYSTEME AUDIO ET SON PROCEDE DE FONCTIONNEMENT**
[72] KOPPENS, JEROEN GERARDUS HENRICUS, NL
[71] KONINKLIJKE PHILIPS N.V., NL
[85] 2024-04-23
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[54] **OCCLUSIVE PLASTER WITH FLEXIBLE BACKING**
[54] **PLATRE OCCLUSIF A SUPPORT FLEXIBLE**
[72] DZEKAN, HORST, DE
[72] REUM, NICO, DE
[72] EMGENBROICH, MARCO, DE
[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE
[85] 2024-04-23
[86] 2022-11-04 (PCT/EP2022/080882)
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[30] DE (10 2021 128 912.2) 2021-11-05

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[51] **Int.Cl. A61M 1/28 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEM INCLUDING A PATIENT LINE FILTER HAVING A MEMBRANE SHEET**
[54] **SYSTEME DE DIALYSE PERITONEALE COMPRENANT UN FILTRE DE LIGNE DE PATIENT AYANT UNE FEUILLE DE MEMBRANE**
[72] WAGNER, STEFFEN, US
[72] FLIEG, RALF, US
[72] BUCK, REINHOLD, US
[72] BECK, CHRISTOF, US
[72] BLICKLE, RAINER, US
[72] KRAUSE, BERND, US
[72] KNOER, TORSTEN, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-04-23
[86] 2022-11-18 (PCT/US2022/080130)
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[25] EN
[54] **FORMULATED AND/OR CO-FORMULATED NANOCARRIERS COMPOSITIONS CONTAINING IMMUNOGENIC CELL DEATH (ICD) INDUCING PRODRUGS USEFUL IN THE TREATMENT OF CANCER AND METHODS THEREOF**
[54] **COMPOSITIONS DE NANOSUPPORTS FORMULES ET/OU CO-FORMULES CONTENANT DES PROMEDICAMENTS INDUISANT LA MORT CELLULAIRE IMMUNOGENE (ICD) UTILES DANS LE TRAITEMENT DU CANCER ET METHODES ASSOCIES**
[72] STOVER, DAVID, US
[72] BHARALI, DHRUBA, US
[72] HAY, BRUCE A., US
[72] SAFAIE, TAHMINEH, US
[71] NAMMI THERAPEUTICS, INC., US
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[30] US (63/361,075) 2021-11-18

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[54] **IMPROVED CATALYST FOR MWCNT PRODUCTION**
[54] **CATALYSEUR AMELIORE POUR LA PRODUCTION DE MWCNT**
[72] CHAN, FANG-YUE, BE
[72] HERMOSO LIMON, JUAN, BE
[72] JORIS, JEAN-PHILIPPE, BE
[71] NANOCYL SA, BE
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[54] **METHODS FOR NUCLEIC ACID CLEAVAGE**
[54] **PROCEDES DE CLIVAGE D'ACIDE NUCLEIQUE**
[72] BERNARDES, GONCALO, GB
[72] MIKUTIS, SIGITAS, GB
[72] SIB, ANNA, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2024-04-23
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[30] GB (2115540.3) 2021-10-28

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[25] EN
[54] **SEPARATION MATRIX AND METHODS FOR SEPARATING TARGET MOLECULES**
[54] **MATRICE DE SEPARATION ET PROCEDES DE SEPARATION DE MOLECULES CIBLES**
[72] MALOISEL, JEAN-LUC, SE
[72] HAGNER MCWHIRTER, ASA, SE
[72] LIND, OLA, SE
[72] VESTIN, IDA HELENA, SE
[72] TINGBORN, ERIK, SE
[72] NOREN, BJORN, SE
[71] CYTIVA BIOPROCESS R&D AB, SE
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[30] GB (2117619.3) 2021-12-07

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[51] **Int.Cl. C07K 16/28 (2006.01) A61P 37/06 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **ENGINEERED PD-1 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS PD-1 MODIFIES ET LEURS UTILISATIONS**
[72] PALUCH, CHRISTOPHER, GB
[72] MURRAY, LYNNE, GB
[71] MIROBIO LIMITED, GB
[85] 2024-04-23
[86] 2022-11-17 (PCT/IB2022/000705)
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[51] **Int.Cl. A61M 25/10 (2013.01) A61M 25/098 (2006.01)**
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[54] **CATHETER A BALLONNET**
[72] SATO, RYOTA, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2024-04-23
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[25] EN
[54] **PERSONALIZED BIOELECTROMAGNETIC THERAPEUTICS**
[54] **AGENTS THERAPEUTIQUES BIOELECTROMAGNETIQUES PERSONNALISES**
[72] SMITH, TIMOTHY J.N., CA
[72] GRANT, IAN, CA
[72] JERONIMO, MARK D., CA
[71] OCTANE INNOVATION INC., CA
[85] 2024-04-23
[86] 2022-10-07 (PCT/CA2022/051490)
[87] (WO2023/056567)
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[51] **Int.Cl. C07D 211/14 (2006.01)**
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[54] **IFENPRODIL SALTS AND THERAPEUTIC USES THEREOF**
[54] **SELS D'IFENPRODIL ET LEURS UTILISATIONS THERAPEUTIQUES**
[72] BRYAN, CHRISTOPHER, CA
[71] ALGERNON PHARMACEUTICALS INC., CA
[85] 2024-04-25
[86] 2022-10-24 (PCT/CA2022/051566)
[87] (WO2023/070197)
[30] US (63/271,471) 2021-10-25
[30] US (63/271,476) 2021-10-25
[30] US (63/271,484) 2021-10-25
[30] US (63/271,494) 2021-10-25
[30] US (63/271,503) 2021-10-25

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[51] **Int.Cl. C11D 1/37 (2006.01) C11D 1/14 (2006.01) C11D 1/22 (2006.01) C11D 1/29 (2006.01)**
[25] EN
[54] **LIQUID DETERGENT COMPOSITIONS**
[54] **COMPOSITIONS DETERGENTES LIQUIDES**
[72] STENGER, PATRICK CHRISTOPHER, US
[72] AULTMAN, ERIN JULIETTE, US
[72] LOUGHNANE, BRIAN JOSEPH, US
[72] BECKS, VINCENT JOHN, US
[71] THE PROCTER & GAMBLE COMPANY, US
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[86] 2022-11-23 (PCT/US2022/080393)
[87] (WO2023/102338)
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[51] **Int.Cl. H04N 21/442 (2011.01) H04N 21/414 (2011.01) G06Q 30/0272 (2023.01) H04N 21/81 (2011.01)**
[25] EN
[54] **PROOF OF PLAY FOR IMAGES DISPLAYED AT ELECTRONIC DISPLAYS**
[54] **PREUVE DE LECTURE POUR IMAGES AFFICHEES SUR DES DISPOSITIFS D'AFFICHAGE ELECTRONIQUES**
[72] DUNN, WILLIAM, US
[71] MANUFACTURING RESOURCES INTERNATIONAL, INC., US
[85] 2024-04-23
[86] 2022-10-26 (PCT/US2022/047792)
[87] (WO2023/076320)
[30] US (63/273,616) 2021-10-29
[30] US (63/282,737) 2021-11-24
[30] US (17/567,442) 2022-01-03

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[51] **Int.Cl. A61B 10/02 (2006.01) A61M 31/00 (2006.01) A61B 17/3205 (2006.01)**
[25] EN
[54] **BIOPSY SITE TISSUE REPAIR APPARATUS AND METHODS**
[54] **APPAREIL ET METHODES DE REPARATION DE TISSU DE SITE DE BIOPSIE**
[72] BURKETT, JOSEPH CHOATE, US
[71] BURKETT, JOSEPH CHOATE, US
[85] 2024-04-25
[86] 2022-10-28 (PCT/US2022/078919)
[87] (WO2023/077093)
[30] US (63/272,997) 2021-10-28
[30] US (63/319,195) 2022-03-11
[30] US (63/397,250) 2022-08-11
[30] US (63/413,161) 2022-10-04

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[51] **Int.Cl. F17C 1/00 (2006.01)**
[25] FR
[54] **PRESSURIZED FLUID CONTAINER**
[54] **CONTENANT DE FLUIDE SOUS PRESSION**
[72] SIEGWALD, CORENTIN, FR
[71] EIFHYTEC, FR
[85] 2024-04-25
[86] 2022-11-03 (PCT/EP2022/080735)
[87] (WO2023/079031)
[30] FR (FR2111750) 2021-11-05

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[13] A1
[51] **Int.Cl. C11D 1/14 (2006.01) C11D 1/22 (2006.01)**
[25] EN
[54] **LIQUID DETERGENT COMPOSITIONS**
[54] **COMPOSITIONS DETERGENTES LIQUIDES**
[72] STENGER, PATRICK CHRISTOPHER, US
[72] AULTMAN, ERIN JULIETTE, US
[72] LOUGHNANE, BRIAN JOSEPH, US
[72] BECKS, VINCENT JOHN, US
[71] THE PROCTER & GAMBLE COMPANY, US
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[30] US (17/541,315) 2021-12-03

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[51] **Int.Cl. F04B 53/16 (2006.01) F23J 3/02 (2006.01)**
[25] EN
[54] **PROTECTION DEVICE FOR A BOILER ACCESS POINT**
[54] **DISPOSITIF DE PROTECTION POUR UN POINT D'ACCES DE CHAUDIERE**
[72] HANGARTNER, MARC PETER, CH
[72] LIMACHER-LEHNER, DANIELA, CH
[71] EXPLO ENGINEERING AG, CH
[71] MARTIN GMBH FUR UMWELT - UND ENERGIETECHNIK, DE
[71] HITACHI, ZOSEN INOVA AG, CH
[85] 2024-04-25
[86] 2022-11-01 (PCT/EP2022/080465)
[87] (WO2023/078877)
[30] EP (21206023.0) 2021-11-02

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[51] **Int.Cl. F17C 3/00 (2006.01)**
[25] FR
[54] **TANK FOR STORING LIQUEFIED GAS AND FLUID TRANSFER METHOD**
[54] **RESERVOIR DE STOCKAGE DE GAZ LIQUEFIE ET PROCEDE DE TRANSFERT DE FLUIDE**
[72] BERNHARDT, JEAN-MARC, FR
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
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[86] 2022-11-24 (PCT/EP2022/083077)
[87] (WO2023/094500)
[30] FR (FR2112527) 2021-11-25

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[13] A1
[51] **Int.Cl. C01B 25/45 (2006.01) C04B 35/447 (2006.01)**
[25] EN
[54] **SOLID ELECTROLYTE MATERIALS, PROCESS FOR PRODUCTION AND USES THEREOF**
[54] **MATERIAUX D'ELECTROLYTE SOLIDE, PROCEDE DE PRODUCTION ET UTILISATIONS DE CEUX-CI**
[72] ALFF, HARALD, DE
[72] ANTONI, JESSICA, DE
[72] BLANK-SHIM, SILVIA, DE
[72] DANI, ALESSANDRO, DE
[72] FUCHS-WINKLER, REGINA, DE
[72] GORMAN, ELISABETH, DE
[72] HUG, MICHAEL, DE
[72] HYING, CHRISTIAN, DE
[72] JURETZKA, SABRINA, DE
[72] KLINK-TRAN, HUONG, DE
[72] KUSTER, THERESA, DE
[72] KUZNIK, SABINE, DE
[72] LOFFLER, FRANK, DE
[72] MENNERICH, HEIKO, DE
[72] MERTLICH, ANNE, DE
[72] SCHAFER, DURDU, DE
[72] SCHMIDT, FRANZ, DE
[72] SEITZ, TANJA, DE
[72] STADTMULLER, TOBIAS, DE
[72] STENNER, PATRIK, DE
[72] SUHR, SILKE, DE
[72] TAKATA, RYO, JP
[72] TECLE, YIKALO-EYOB, CN
[72] WIEGAND, ARMIN, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2024-04-25
[86] 2022-10-28 (PCT/EP2022/080157)
[87] (WO2023/078790)
[30] EP (21205986.9) 2021-11-02

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[51] **Int.Cl. B01D 53/00 (2006.01) A61L 9/14 (2006.01) B01D 53/14 (2006.01) B01D 53/68 (2006.01)**
[25] EN
[54] **METHOD FOR SCRUBBING SULFURYL FLUORIDE FROM A FLUID**
[54] **PROCEDE DE PRODUCTION DE FLUORURE DE SULFURYLE PAR LAVAGE D'UN FLUIDE**
[72] PIGNATELLO, JOSEPH J., US
[72] CHEN, ZHIHAO, US
[72] WANG, CHENGJIN, CA
[71] THE CONNECTICUT AGRICULTURAL EXPERIMENT STATION, US
[85] 2024-04-25
[86] 2022-10-28 (PCT/US2022/048164)
[87] (WO2023/076557)
[30] US (63/273,394) 2021-10-29

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[13] A1
[51] **Int.Cl. F25B 9/12 (2006.01) F25D 19/00 (2006.01)**
[25] FR
[54] **DILUTION REFRIGERATION DEVICE**
[54] **DISPOSITIF DE REFRIGERATION A DILUTION**
[72] GUIA, OLIVIER, FR
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2024-04-25
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[87] (WO2023/088648)
[30] FR (FR2112235) 2021-11-19

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[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **METHODS TO REGULATE GLYCOLYSIS VIA TARGETING EXTRACELLULAR ALPHA-ENOLASE FOR TREATING HUMAN DISEASES**
[54] **METHODES DE REGULATION DE LA GLYCOLYSE PAR CIBLAGE D'ALPHA-ENOLASE EXTRACELLULAIRE POUR LE TRAITEMENT DE MALADIES HUMAINES**
[72] YUAN, TA-TUNG, CN
[72] HUANG, WEI-CHING, CN
[72] CHUNG, I-CHE, CN
[71] HUNILIFE BIOTECHNOLOGY, INC., CN
[85] 2024-04-25
[86] 2022-11-24 (PCT/CN2022/134197)
[87] (WO2023/093822)
[30] US (63/283,352) 2021-11-26

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[51] **Int.Cl. A61K 31/4458 (2006.01) A61K 31/455 (2006.01) A61K 31/495 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) C07D 401/12 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CARDIOVASCULAR CONDITIONS AND METHODS OF INCREASING THE EFFICIENCY OF CARDIAC METABOLISM**
[54] **METHODES DE TRAITEMENT D'AFFECTIONS CARDIOVASCULAIRES ET METHODES D'AUGMENTATION DE L'EFFICACITE DU METABOLISME CARDIAQUE**
[72] PATEL, JAIKRISHNA, US
[72] CHAMBERLIN, PAUL, US
[71] IMBRIA PHARMACEUTICALS, INC., US
[85] 2024-04-24
[86] 2022-10-31 (PCT/US2022/048401)
[87] (WO2023/076665)
[30] US (63/274,389) 2021-11-01

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[51] **Int.Cl. C12Q 1/6895 (2018.01) C12Q 1/6888 (2018.01) C12N 15/82 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **TRANSGENIC CORN EVENT ZM_BCS216090 AND METHODS FOR DETECTION AND USES THEREOF**
[54] **EVENEMENT DE MAIS TRANSGENIQUE ZM_BCS216090 ET PROCEDES DE DETECTION ET UTILISATIONS DE CELUI-CI**
[72] BRZOSTOWSKI, LILLIAN, US
[72] CARLSON, CARRIN, US
[72] GILLESPIE, KELLY, US
[72] PACIOREK, TOMASZ, US
[72] RALSTON, LYLE, US
[72] RENAUD, ALEXANDAR, US
[72] YANG, HEPING, US
[71] MONSANTO TECHNOLOGY LLC, US
[85] 2024-04-24
[86] 2022-10-31 (PCT/US2022/078966)
[87] (WO2023/081614)
[30] US (63/274,865) 2021-11-02
[30] US (63/279,508) 2021-11-15

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[51] **Int.Cl. C12N 15/85 (2006.01) A61K 35/15 (2015.01) A61K 35/17 (2015.01) A61K 39/00 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) C12N 15/86 (2006.01) C12N 15/867 (2006.01)**
[25] EN
[54] **METHODS AND MATERIALS FOR TREATING CANCER**
[54] **METHODES ET MATERIELS POUR LE TRAITEMENT DU CANCER**
[72] VILE, RICHARD G., US
[72] DIAZ MARCANO, ROSA M., US
[72] KOTTKE, TIMOTHY J., US
[72] TONNE, JASON M., US
[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US
[85] 2024-04-24
[86] 2022-11-04 (PCT/US2022/079279)
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[30] US (63/275,847) 2021-11-04

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[13] A1
[51] **Int.Cl. A61K 31/47 (2006.01) A61K 31/551 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **TREATMENTS FOR DISTURBED CEREBRAL HOMEOSTASIS**
[54] **TRAITEMENTS D'UN DEREGLEMENT DE L'HOMEOSTASIE CEREBRALE**
[72] MOSES, ZIEV B., US
[71] ANEURYST, INC., US
[85] 2024-04-25
[86] 2022-10-18 (PCT/US2022/078245)
[87] (WO2023/076812)
[30] US (63/273,925) 2021-10-30

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[51] **Int.Cl. E21B 33/13 (2006.01) E21B 17/10 (2006.01) E21B 33/138 (2006.01) E21B 43/112 (2006.01)**
[25] EN
[54] **PLUGGING TOOL FOR DOWNHOLE TUBULARS AND METHOD FOR USE THEREOF**
[54] **OUTIL D'OBTURATION POUR ELEMENTS TUBULAIRES DE FOND DE TROU ET PROCEDE D'UTILISATION ASSOCIE**
[72] CORNELISSEN, ERIK KERST, NL
[72] VAN SCHIE, COEN, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2024-04-24
[86] 2022-11-10 (PCT/EP2022/081440)
[87] (WO2023/083947)
[30] EP (21207923.0) 2021-11-12

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[51] **Int.Cl. G10L 17/04 (2013.01) G10L 17/10 (2013.01) G10L 17/26 (2013.01) G06F 40/263 (2020.01) G06N 3/045 (2023.01) G06N 3/02 (2006.01) G10L 17/00 (2013.01)**
[25] EN
[54] **CROSS-LINGUAL SPEAKER RECOGNITION**
[54] **RECONNAISSANCE DE LOCUTEUR MULTILINGUE**
[72] KHOURY, ELIE, US
[72] CHEN, TIANXIANG, US
[72] KUMAR, AVROSH, US
[72] SIVARAMAN, GANESH, US
[72] PHATAK, KEDAR, US
[71] PINDROP SECURITY, INC., US
[85] 2024-04-24
[86] 2022-10-31 (PCT/US2022/048365)
[87] (WO2023/076653)
[30] US (63/274,460) 2021-11-01
[30] US (63/274,909) 2021-11-02

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[51] **Int.Cl. C08G 18/76 (2006.01) C08G 18/08 (2006.01) C08G 18/12 (2006.01) C08G 18/18 (2006.01) C08G 18/32 (2006.01) C08G 18/58 (2006.01) C08G 18/80 (2006.01) C08G 59/10 (2006.01) C08G 59/14 (2006.01) C08L 75/12 (2006.01)**
[25] EN
[54] **ELECTRODEPOSITION COATING COMPOSITION AND ITS PREPARATION**
[54] **COMPOSITION DE REVETEMENT PAR ELECTRODEPOSITION ET PREPARATION ASSOCIEE**
[72] THEIL, HUBERT, DE
[72] WANG, LIN, DE
[72] XING, SU JIE, CN
[72] TANGVIJITSAKUL, PATTARASAI, CN
[71] BASF COATINGS GMBH, DE
[85] 2024-04-25
[86] 2022-10-18 (PCT/EP2022/078909)
[87] (WO2023/078664)
[30] CN (PCT/CN2021/128756) 2021-11-04

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[51] **Int.Cl. B29C 33/20 (2006.01) B29C 48/92 (2019.01) B29C 31/00 (2006.01) B29C 31/04 (2006.01) B29C 33/22 (2006.01) B29C 43/04 (2006.01) B29C 43/18 (2006.01) B29C 43/34 (2006.01) B29C 43/36 (2006.01) B29C 43/38 (2006.01) B29C 43/58 (2006.01) B29C 65/70 (2006.01) B29C 43/08 (2006.01) B29C 70/74 (2006.01)**
[25] EN
[54] **COMPRESSION MOULDING METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF DE MOULAGE PAR COMPRESSION**
[72] BRIDEVAUX, PHILIPPE, CH
[72] THIOLLAY, BRUNO, FR
[71] AISAPACK HOLDING SA, CH
[85] 2024-04-25
[86] 2023-02-07 (PCT/IB2023/051072)
[87] (WO2023/152631)
[30] EP (22155552.7) 2022-02-08

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[13] A1
[51] **Int.Cl. A61K 31/551 (2006.01) A61P 25/14 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHOD OF TREATING AMYOTROPHIC LATERAL SCLEROSIS AND DOSING REGIMEN FOR SAME**
[54] **METHODE DE TRAITEMENT DE LA SCLEROSE LATERALE AMYOTROPHIQUE ET REGIME POSOLOGIQUE ASSOCIE**
[72] MACALLISTER, THOMAS, US
[72] JACOBSON, SVEN, US
[71] WOOLSEY PHARMACEUTICALS, INC., US
[85] 2024-04-25
[86] 2022-11-10 (PCT/US2022/049541)
[87] (WO2023/086468)
[30] US (63/278,523) 2021-11-12

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[13] A1
[51] **Int.Cl. A61K 31/403 (2006.01) C07D 209/02 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **INDOLIZINE COMPOUNDS FOR THE TREATMENT OF MENTAL DISORDERS OR MENTAL ENHANCEMENT**
[54] **COMPOSES D'INDOLIZINE POUR LE TRAITEMENT DE TROUBLES MENTAUX OU POUR UNE AMELIORATION MENTALE**
[72] BAGGOTT, MATTHEW, US
[71] TACTOGEN INC, US
[85] 2024-04-25
[86] 2022-11-03 (PCT/US2022/048867)
[87] (WO2023/081306)
[30] US (63/275,324) 2021-11-03

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[13] A1
[51] **Int.Cl. A61K 9/16 (2006.01) A61L 2/20 (2006.01) B65G 47/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RAPID AND STERILE TRANSFER OF A VIAL INTO AN ISOLATOR**
[54] **SYSTEME ET PROCEDE DE TRANSFERT RAPIDE ET STERILE D'UN FLACON DANS UN ISOLATEUR**
[72] BRUNETTI, ALESSANDRO, IT
[72] TESTA, MARCO, IT
[71] COMECER S.P.A., IT
[85] 2024-04-25
[86] 2022-10-28 (PCT/IB2022/060373)
[87] (WO2023/073626)
[30] IT (102021000027662) 2021-10-28
[30] IT (102021000027668) 2021-10-28

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[51] **Int.Cl. A23G 1/44 (2006.01) A23L 11/50 (2021.01) A23G 1/48 (2006.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01)**
[25] EN
[54] **A CHOCOLATE PRODUCT COMPRISING A MILK ANALOGUE PRODUCT**
[54] **PRODUIT DE CHOCOLAT COMPRENANT UN PRODUIT ANALOGUE AU LAIT**
[72] WOOSTER, TIMOTHY JAMES, CH
[72] CELIGUETA TORRES, ISABEL, GB
[72] KAMMERHOFER, JANA CHRISTINA, CH
[72] DE WEERT, EVELIEN, CH
[72] HAAS, KLARA, CH
[72] CHISHOLM, HELEN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-04-25
[86] 2022-11-15 (PCT/EP2022/081951)
[87] (WO2023/084109)
[30] EP (21208228.3) 2021-11-15
[30] EP (21215318.3) 2021-12-16

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[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61K 31/519 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **ADENOSINE RECEPTOR ANTAGONISTS**
[54] **ANTAGONISTES DU RECEPTEUR DE L'ADENOSINE**
[72] HAN, SANGDON, US
[71] CROSSIGNAL THERAPEUTICS, INC., US
[85] 2024-04-25
[86] 2022-11-17 (PCT/US2022/050311)
[87] (WO2023/091604)
[30] US (63/281,445) 2021-11-19

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[13] A1
[51] **Int.Cl. G06N 10/20 (2022.01) G06N 10/40 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD USING MULTIPLE ENTANGLED LINEAR QUBIT ARRAYS FOR QUANTUM COMPUTING**
[54] **SYSTEME ET PROCEDE UTILISANT DE MULTIPLES RESEAUX DE BITS QUANTIQUES LINEAIRES ENCHEVETRES POUR UN CALCUL QUANTIQUE**
[72] HENDRICKSON, PETER CARL, US
[71] KBR WYLE SERVICES, LLC, US
[85] 2024-04-25
[86] 2022-10-26 (PCT/US2022/047845)
[87] (WO2023/214996)
[30] US (17/510,547) 2021-10-26

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[13] A1
[51] **Int.Cl. A61B 6/03 (2006.01) G16H 30/40 (2018.01) G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR RAPID DIAGNOSTIC IMAGING OF PATIENTS SUSPECTED OF SUFFERING ACUTE ISCHEMIC STROKE**
[54] **SYSTEMES ET PROCEDES D'IMAGERIE DIAGNOSTIQUE RAPIDE DE PATIENTS SUSPECTES DE SOUFFRIR D'UN ACCIDENT ISCHEMIQUE CEREBRAL AIGU**
[72] GOYAL, MAYANK, CA
[72] OSPEL, JOHANNA, CA
[72] SOJOUDI, ALIREZA, CA
[71] CIRCLE CARDIOVASCULAR IMAGING INC., CA
[85] 2024-04-25
[86] 2022-10-26 (PCT/CA2022/051585)
[87] (WO2023/070209)
[30] US (63/272,409) 2021-10-27

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[13] A1
[51] **Int.Cl. A61M 5/20 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **HIGH-DOSE DRUG DELIVERY DEVICE**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT A DOSE ELEVEE**
[72] SKAK, NIKOLAJ, DK
[72] LINDHARDT, KARSTEN, DK
[72] ERICHSEN, KAMILLE MAJKEN DUMONG, DK
[72] MIKKELSEN, HENRIK BANG, DK
[71] BIOGRAIL APS, DK
[85] 2024-04-25
[86] 2022-10-28 (PCT/EP2022/080195)
[87] (WO2023/073168)
[30] DK (PA202170524) 2021-10-28

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[13] A1
[51] **Int.Cl. A61M 5/142 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **DRUG DELIVERY DEVICE WITH OFFSET ACTUATOR MECHANISM**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT POURVU D'UN MECANISME D'ACTIONNEUR DECALE**
[72] SKAK, NIKOLAJ, DK
[72] LINDHARDT, KARSTEN, DK
[72] ERICHSEN, KAMILLE MAJKEN DUMONG, DK
[71] BIOGRAIL APS, DK
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[86] 2022-10-28 (PCT/EP2022/080211)
[87] (WO2023/073176)
[30] DK (PA202170525) 2021-10-28

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[13] A1
[51] **Int.Cl. C08L 75/04 (2006.01) C08G 77/04 (2006.01) C08J 9/36 (2006.01) C08L 75/02 (2006.01)**
[25] EN
[54] **A POLYMER COMPOSITION AND PROCESS FOR COATING WOODEN PALLET WITH THE POLYMER COMPOSITION**
[54] **COMPOSITION POLYMERE ET PROCEDE DE REVETEMENT D'UNE PALETTE EN BOIS AVEC LA COMPOSITION POLYMERE**
[72] WALAWALKAR, DEENAR SHASHIKANT, IN
[71] VERTE TECHNOLOGIES, LLC, US
[85] 2024-04-25
[86] 2022-10-28 (PCT/US2022/078834)
[87] (WO2023/077039)
[30] IN (202123049643) 2021-10-29

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[13] A1
[51] **Int.Cl. C09D 4/00 (2006.01) C09D 7/61 (2018.01) C09D 5/00 (2006.01)**
[25] EN
[54] **UV CURABLE WHITE COATING COMPOSITION AND ARTICLE**
[54] **COMPOSITION DE REVETEMENT BLANC DURCISSABLE AUX UV ET ARTICLE**
[72] YANG, WEI, CN
[71] GUANGDONG HUARUN PAINTS CO., LTD., CN
[85] 2024-04-25
[86] 2022-11-17 (PCT/CN2022/132653)
[87] (WO2023/088391)
[30] CN (202111409089.3) 2021-11-19

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[13] A1
[51] **Int.Cl. A61B 17/80 (2006.01) A61B 17/84 (2006.01) A61B 17/86 (2006.01)**
[25] EN
[54] **ROTATIONAL GUIDED GROWTH DEVICES, SYSTEMS, AND METHODS**
[54] **DISPOSITIFS, SYSTEMES ET METHODES DE CROISSANCE GUIDEE EN ROTATION**
[72] EVANS, ZACKERY, US
[72] FALLIN, T. WADE, US
[72] STEVENS, PETER M., US
[71] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US
[85] 2024-04-25
[86] 2022-10-03 (PCT/US2022/045514)
[87] (WO2023/086169)
[30] US (17/525,847) 2021-11-12

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[13] A1
[51] **Int.Cl. A63B 22/04 (2006.01) G16H 20/30 (2018.01)**
[25] EN
[54] **KOAPT-THERAPY-BASED TREATMENT AND REHABILITATION DEVICE FOR DEGENERATIVE KNEE JOINT DISEASE**
[54] **EQUIPEMENT DE TRAITEMENT ET DE REEDUCATION D'ARTHROSE DU GENOU FONDE SUR KOAPT**
[72] SONG, JIUHONG, CN
[72] LIU, XINTING, CN
[72] ZHANG, GUOSHENG, CN
[71] WUHAN KEDE MEDICAL INSTRUMENT CO., LTD., CN
[85] 2024-04-25
[86] 2022-05-16 (PCT/CN2022/092912)
[87] (WO2023/077768)
[30] CN (202111313071.3) 2021-11-08

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[13] A1
[51] **Int.Cl. C12N 9/22 (2006.01)**
[25] EN
[54] **DOUBLE-STRANDED DNA DEAMINASES**
[54] **DESAMINASES D'ADN DOUBLE BRIN**
[72] VAISVILA, ROMUALDAS, US
[72] JOHNSON, SEAN R., US
[72] SUN, ZHIYI, US
[72] EVANS, THOMAS C., US
[71] NEW ENGLAND BIOLABS, INC., US
[85] 2024-04-25
[86] 2022-11-22 (PCT/US2022/080345)
[87] (WO2023/097226)
[30] US (63/264,513) 2021-11-24
[30] US (18/058,115) 2022-11-22

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[13] A1
[51] **Int.Cl. C25B 11/055 (2021.01) C01B 32/40 (2017.01) C25B 3/25 (2021.01) C25B 3/26 (2021.01) C25B 11/032 (2021.01) C07C 1/04 (2006.01)**
[25] EN
[54] **COMPONENTS AND METHODS FOR THE ELECTROCHEMICAL REDUCTION OF GASEOUS CO2**
[54] **COMPOSANTS ET PROCEDES POUR LA REDUCTION ELECTROCHIMIQUE DE CO2 GAZEUX**
[72] DINH, CAO-THANG, CA
[72] O'BRIEN, COLIN, CA
[72] GABARDO, CHRISTINE, CA
[72] EDWARDS, JONATHAN, CA
[72] LIU, SHIJIE, CA
[72] SEDIGHIAN RASOULI, ARMIN, CA
[72] LAM, MINH TRIET, CA
[72] MCCALLUM, CHRISTOPHER, CA
[72] HOANG, YEN, CA
[72] SINTON, DAVID, CA
[72] SARGENT, EDWARD H., CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2024-04-25
[86] 2022-10-26 (PCT/CA2022/051587)
[87] (WO2023/070211)
[30] US (63/263,036) 2021-10-26

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[13] A1
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[25] EN
[54] **NOVEL ANTI-DEPRESSANT AND NEUROPLASTIC AGENTS AND THERAPEUTIC USES THEREOF**
[54] **NOUVEAUX AGENTS ANTIDEPRESSEURS ET NEUROPLASTIQUES ET LEURS UTILISATIONS THERAPEUTIQUES**
[72] WILLIAMS, MARK, CA
[71] MARVEL BIOTECHNOLOGY, CA
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[86] 2022-10-26 (PCT/CA2022/051579)
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[54] **TREATMENT OF METAL ORES**
[54] **TRAITEMENT DE MINERAIS METALLIQUES**
[72] FRAY, DEREK, GB
[72] COXON, PAUL, GB
[71] CHINUKA LTD, GB
[85] 2024-04-25
[86] 2022-10-07 (PCT/GB2022/052540)
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[54] **COMPOSITIONS AND METHODS FOR DETECTING PYROPHOSPHATE PRODUCTS OF ENZYME REACTIONS USING PYRIDYLAZOANILINE DYES**
[54] **COMPOSITIONS ET PROCEDES DE DETECTION DE PRODUITS DE PYROPHOSPHATE DE REACTIONS ENZYMATIQUES A L'AIDE DE COLORANTS DE PYRIDYLAZO-ANILINE**
[72] TANNER, NATHAN, US
[72] CORREA, IVAN R. JR., US
[72] ZHANG, YINHUA, US
[72] ALPASLAN, ECE, US
[71] NEW ENGLAND BIOLABS, INC., US
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[54] **MONITORING THE TREATMENT OF AN AGRICULTURAL FIELD**
[54] **SURVEILLANCE DU TRAITEMENT D'UN CHAMP AGRICOLE**
[72] SCHEEL, CARVIN GUENTHER, DE
[72] DELATREE, CLEMENS CHRISTIAN, DE
[72] NIGGE, VOLKER, DE
[72] SCHMEER, HUBERT, DE
[72] GERLACH, ANDREAS, DE
[71] BASF AGRO TRADEMARKS GMBH, DE
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[54] **IMAGING SYSTEMS AND RELATED METHODS**
[54] **SYSTEMES D'IMAGERIE ET PROCEDES ASSOCIES**
[72] BOEGE, STEVEN, US
[72] CONDELLO, DANILO, US
[72] PRINCE, SIMON, US
[72] BRYANT, JASON, GB
[72] SIU, MEREK, US
[71] ILLUMINA, INC., US
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[54] **CONTROL ROD REMOTE DISCONNECT MECHANISM**
[54] **MECANISME DE DECONNEXION A DISTANCE DE TIGE DE COMMANDE**
[72] SHARGOTS, SCOTT J., US
[72] ZIEGLER, RYAN Z., US
[72] BROWN, JASON C., US
[72] HASLET, DAVID K., US
[72] FLEMING, EMILY D., US
[71] BWXT ADVANCED TECHNOLOGIES LLC, US
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[54] **REAL TIME DOWNHOLE WATER CHEMISTRY AND USES**
[54] **CHIMIE DE L'EAU DE FOND EN TEMPS REEL ET UTILISATIONS**
[72] CHOWDHURY, SUBHADEEP, US
[72] TARGAC, GARY, US
[71] CONOCOPHILLIPS COMPANY, US
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[86] 2022-08-19 (PCT/US2022/040892)
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[54] **REMYELINISATION MEDIEE PAR TCF7L2 DANS LE CERVEAU**
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[72] BENRAISS, ABDELLATIF, US
[72] MARIANI, JOHN, US
[71] UNIVERSITY OF ROCHESTER, US
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[54] **UNIVERSAL STEM CELL AND USES THEREOF**
[54] **CELLULE SOUCHE UNIVERSELLE ET SES UTILISATIONS**
[72] LIAN, XIAOJUN, US
[72] RANDOLPH, LAUREN, US
[71] THE PENN STATE RESEARCH FOUNDATION, US
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[54] **SYSTEMS AND METHODS FOR GENERATING LABORATORY WATER AND DISTRIBUTING LABORATORY WATER AT DIFFERENT TEMPERATURES**
[54] **SYSTEMES ET PROCEDES DE GENERATION D'EAU DE LABORATOIRE ET DE DISTRIBUTION D'EAU DE LABORATOIRE A DIFFERENTES TEMPERATURES**
[72] LAFOND, MICHELLE, US
[71] REGENERON PHARMACEUTICALS, INC., US
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[54] **WORK VEHICLE MANAGEMENT DEVICE, SYSTEM, AND WORK VEHICLE MANAGEMENT METHOD**
[54] **DISPOSITIF DE GESTION DE VEHICULE DE TRAVAIL, SYSTEME, ET PROCEDE DE GESTION DE VEHICULE DE TRAVAIL**
[72] EBISUZAKI, HIDEYO, JP
[71] KOMATSU LTD., JP
[85] 2024-04-25
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[54] **METHODS FOR ADMINISTRATION OF DRUG TO THE RETINA**
[54] **PROCEDES D'ADMINISTRATION DE MEDICAMENT A LA RETINE**
[72] PRAUSNITZ, MARK R., US
[72] HEJRI BIDGOLI, SEYED AMIRHOSSEIN, US
[71] GEORGIA TECH RESEARCH CORPORATION, US
[85] 2024-04-25
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[54] **MULTIPLEXABLE APTAMER-BASED LIGAND DETECTION**
[54] **DETECTION MULTIPLEXABLE DE LIGANDS A BASE D'APTAMERES**
[72] FRASER, ANDREW G., CA
[72] TAN, JUNE H., CA
[72] MERCADO, MARIA P., CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
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[54] **POLYCARBONATE COMPOSITION COMPRISING A SURFACE-TREATED CALCIUM CARBONATE-CONTAINING MATERIAL**
[54] **COMPOSITION DE POLYCARBONATE COMPRENANT UN MATERIAU CONTENANT DU CARBONATE DE CALCIUM A SURFACE TRAITEE**
[72] BARADEL, FRANCK, CH
[72] WELKER, MATTHIAS, FR
[72] BARANGER, JORIS, FR
[71] OMYA INTERNATIONAL AG, CH
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[54] **HEAD FOR BRUSH CUTTERS**
[54] **TETE POUR DEBROUSSAILLEUSES**
[72] CIGARINI, ENRICO, IT
[71] TECOMEC S.R.L., IT
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[54] **TEMPERATURE-CONTROLLED DISPLAY CASE SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'ARMOIRE PRESENTOIR A TEMPERATURE REGULEE**
[72] MALUTO, DEXTER, US
[72] ALMAGUER, PEDRO, US
[72] SANDNES, MARK, US
[72] WOODY, ELLIS, US
[71] ANTHONY, INC., US
[85] 2024-04-25
[86] 2022-10-28 (PCT/US2022/048236)
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[54] **COMPOSITIONS AND METHODS FOR PROMOTING IN VITRO MATURATION OF CELLS**
[54] **COMPOSITIONS ET PROCEDES POUR FAVORISER LA MATURATION DE CELLULES IN VITRO**
[72] STUDER, LORENZ, US
[72] HERGENREDER, EMILIANO, US
[72] CICERI, GABRIELE, US
[71] MEMORIAL SLOAN-KETTERING CANCER CENTER, US
[85] 2024-04-25
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[54] **SYNERGISTIC HEAT PUMPED THERMAL STORAGE AND FLEXIBLE CARBON CAPTURE SYSTEM**
[54] **STOCKAGE THERMIQUE PAR POMPAGE DE CHALEUR SYNERGIQUE ET SYSTEME DE CAPTURE DE CARBONE FLEXIBLE**
[72] BANDHAUER, TODD M., US
[72] HERBER, DANIEL, US
[72] LIMB, BRADEN, US
[72] QUINN, JASON, US
[72] GARLAND, SHANE, US
[72] MARKEY, ETHAN, US
[72] VERCELLINO, ROBERTO, US
[72] ABARR, MILES, US
[72] HUYETT, JOE, US
[71] COLORADO STATE UNIVERSITY RESEARCH FOUNDATION, US
[85] 2024-04-25
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[30] US (63/262,996) 2021-10-25
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[54] **CRYOGENIC PUMPING SYSTEM AND INNOVATIVE INTEGRATION FOR SUB-KELVIN CRYOGENICS BELOW 1.5K**
[54] **SYSTEME DE POMPAGE CRYOGENIQUE ET INTEGRATION INNOVANTE POUR LA CRYOGENIE SUB KELVIN INFERIEURE A 1,5K**
[72] CRISPEL, SIMON, FR
[72] RAVEX, ALAIN, FR
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
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[54] **CRYOGENIC REFRIGERATION DEVICE**
[54] **DISPOSITIF DE REFRIGERATION CRYOGENIQUE**
[72] BOUVIER, CAMILLE, FR
[72] GAFFET, LUC, FR
[72] GUIA, OLIVIER, FR
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
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[54] **ELECTRIC VEHICLE WITH AN ELECTRIC POWERPACK ARRANGEMENT**
[54] **VEHICULE ELECTRIQUE DOTE D'UN AGENCEMENT DE BLOC D'ALIMENTATION ELECTRIQUE**
[72] BOURQUE, YANNICK, CA
[72] DRIANT, THOMAS, CA
[72] GUILLEMETTE, JEAN, CA
[72] FORTIER, JONATHAN, CA
[72] VACHON, ALEXANDRE, CA
[72] LECLAIR, ALEXANDRE, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
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[54] **DEUTERATED (TRIFLUOROMETHYL)PYRIMIDINE-2-AMINE COMPOUNDS AS POTENTIATORS OF THE HMRGX1 RECEPTOR**
[54] **COMPOSES DE (TRIFLUOROMETHYL)PYRIMIDIN-2-AMINE DEUTERES UTILISES EN TANT QUE POTENTIALISATEURS DU RECEPTEUR HMRGX1**
[72] RUBLE, JAMES CRAIG, US
[72] WINNEROSKI, LEONARD LARRY, US
[71] ELI LILLY AND COMPANY, US
[85] 2024-04-25
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[54] **LIGHTING DEVICE**
[54] **DISPOSITIF D'ECLAIRAGE**
[72] IKEDA, KOJIRO, JP
[72] KOITO, TAKEO, JP
[71] JAPAN DISPLAY INC., JP
[85] 2024-04-25
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[54] **COUNTER OBJECT, METHOD AND SYSTEM**
[54] **OBJET DE COMPTAGE, PROCEDE ET SYSTEME**
[72] XU, YINGQING, US
[72] JACKSON, TODD C., US
[72] STOLBOUSHKIN, EUGENE, US
[72] SOLFRONK, MATTHEW D., US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
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[54] **REMOVAL OF PFAS FROM CONTAMINATED SOIL**
[54] **ELIMINATION DE PFAS D'UN SOL CONTAMINE**
[72] VAREKAMP, ARJEN, NL
[72] KAMP, KORSTIAAN PETRUS WILLEM, NL
[72] VAN DER ZON, WILHELMUS HENDRIKUS, NL
[71] HARBOUR STONE B.V., NL
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[54] **DOT CODE DETECTION**
[54] **DETECTION DE CODE A POINTS**
[72] KERVER, JOHANNES BERNARDUS, NL
[72] VAN DOMMELEN, BJORN-ERIK JOHAN WILLEM PIETER HENDRIK, NL
[71] FILIMADE HOLDING B.V., NL
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[54] **COUNTER OBJECT, METHOD AND SYSTEM**
[54] **CONTRE-OBJET, PROCEDE ET SYSTEME**
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[72] JACKSON, TODD C., US
[72] STOLBOUSHKIN, EUGENE, US
[72] SOLFRONK, MATTHEW D., US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
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[54] **POLYVINYL ALCOHOL RESIN FILM: MANUFACTURING AND DISCRIMINATING**
[54] **FILM DE RESINE D'ALCOOL POLYVINYLIQUE : FABRICATION ET DISCRIMINATION**
[72] KAZETO, OSAMU, JP
[72] INUBUSHI, YASUTAKA, JP
[71] KURARAY CO., LTD., JP
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[54] **DISPOSITIF ET PROCEDE DE PROTECTION EMBOLIQUE AMELIOREE**
[72] KRAHBICHLER, ERIK, SE
[71] SWAT MEDICAL AB, SE
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[54] **DISPOSITIFS DE STETHOSCOPE AMELIORES ET PROCEDES**
[72] RAJAGOPAL, ADITYA, US
[72] RAJAGOPAL, ALAINA ANN BRINLEY, US
[71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US
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[72] RAJAGOPAL, ADITYA, US
[72] RAJAGOPAL, ALAINA ANN BRINLEY, US
[71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US
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[54] **SALT FORMS OF A COMPLEMENT COMPONENT C5A RECEPTOR**
[54] **FORMES SALINES D'UN RECEPTEUR DU COMPOSANT DU COMPLEMENT C5A**
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[72] YAU, KWOK, US
[72] ZENG, YIBIN, US
[72] ZHANG, PENGLIE, US
[72] LUI, REBECCA M., US
[72] YANG, JU, US
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[54] **PROTECTION D'ELEMENTS HERITES EN NEGOCE DE RARETES ET PLATE-FORME DE CONVERGENCE NUMERIQUE**
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[72] ZHANG, XIAOHONG, US
[71] LIQUID RARITY EXCHANGE, LLC, US
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[54] **ENHANCED STETHOSCOPE DEVICES AND METHODS**
[54] **DISPOSITIFS DE STETHOSCOPE AMELIORES ET PROCEDES**
[72] RAJAGOPAL, ADITYA, US
[72] RAJAGOPAL, ALAINA ANN BRINLEY, US
[71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US
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[54] **STEREOSCOPIC IMAGE DISPLAY APPARATUS WITH REMOTELY CONTROLLED ALIGNMENT FUNCTION AND METHOD OF DISPLAYING STEREOSCOPIC IMAGE USING THE SAME**
[54] **APPAREIL D'AFFICHAGE D'UNE IMAGE STEREOSCOPIQUE DOTE D'UNE FONCTION D'ALIGNEMENT CONTROLEE A DISTANCE ET METHODE D'AFFICHAGE D'UNE IMAGE STEREOSCOPIQUE EMPLOYANT LEDIT APPAREIL**
[72] KIM, YONG KYU, KR
[72] KIM, YOUNG SUK, KR
[72] SO, BONG JAE, KR
[71] REALD INC., US
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[54] **ALUMINOSILICATES, RELATED PROCESSES AND USES THEREOF AS SUPPLEMENTARY CEMENTING MATERIALS**
[54] **ALUMINOSILICATES, PROCEDES ASSOCIES ET LEURS UTILISATIONS EN TANT QUE MATERIAUX DE CIMENTATION SUPPLEMENTAIRES**
[72] MAGNAN, JEAN-FRANCOIS, CA
[72] ALLEN, DAVID-NICOLAS, CA
[71] NEMASKA LITHIUM INC., CA
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[54] **HIGH SPEED MANIPULATION OF NON-UNIFORM OBJECTS**
[54] **MANIPULATION A GRANDE VITESSE D'OBJETS NON UNIFORMES**
[72] ROBINSON, DEREK, US
[72] BROTHERTON, KIENAN, US
[71] EMERGING ACQUISITIONS, LLC, US
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[54] **REGULATORY NUCLEIC ACID MOLECULES FOR ENHANCING CONSTITUTIVE GENE EXPRESSION IN PLANTS**
[54] **MOLECULES D'ACIDE NUCLEIQUE REGULATRICES POUR L'ACCROISSEMENT DE L'EXPRESSION GENETIQUE CONSTITUTIVE DANS DES PLANTES**
[72] KUHN, JOSEF MARTIN, DE
[72] LOYALL, LINDA PATRICIA, DE
[72] SIEBERT, MALTE, DE
[72] DUWENIG, ELKE, DE
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[72] ZARABIAN, MINA, CA
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[71] CARBONOVA CORP., CA
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[54] **ANALYSE DE VALEUR MEDIANE DE GLYCEMIE, DE VARIABILITE ET DE RISQUE D'HYPOGLYCEMIE POUR SUPERVISION DE THERAPIE**
[72] DUNN, TIMOTHY C., US
[72] DONIGER, KENNETH J., US
[72] BERMAN, GLENN, US
[72] HAYTLER, GARY A., US
[72] BUDIMAN, ERWIN S., US
[72] BERNSTEIN, DANIEL M., US
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[72] ROUZIER, EDOUARD, CA
[72] JEAN, PHILIPPE, CA
[72] BIRD, JASON, CA
[71] BAUER HOCKEY LTD., CA
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[54] **COMBINAISON A DOSES FIXES D'UN ANTIHYPERTENSEUR ET D'UN HYPOCHOLESTEROLEMIANT, ET PROCEDE DE FABRICATION**
[72] STIMITS, ROY A., US
[72] GREGORY, DANIEL TYREE, JR., US
[72] WHITTINGHAM, WAYNE L., US
[72] GLENN, STEPHAN DALE, US
[72] HAUSE, DAVID P., US
[71] CARDIOPHARMA, INC., US
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[72] NAKEL, MATHIAS, DE
[71] MAQUET CARDIOPULMONARY GMBH, DE
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[54] **DETERMINATION DE PRESENCE ET DE PROFONDEUR DE MATERIAUX DANS LA TERRE**
[72] CLEGG, PHILIP, US
[71] TERRASEE TECH, LLC, US
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[54] **PROCEDE ET SYSTEME DE GENERATION D'AU MOINS UNE ANALYSE DE SORTIE POUR UNE PROMOTION**
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[72] ZHANG, FAN, CA
[72] PADMANABHAN, KANCHANA, CA
[71] KINAXIS INC., CA
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[54] **PRESENCE DETECTION AND TARGETED CONTENT**
[54] **DETECTION DE PRESENCE ET CONTENU CIBLE**
[72] SMALLEY, PRESTON, US
[72] KAREESON, TYLER, US
[72] NIEBRES, FRANCISCO, US
[72] EKLUND, SCOTT, US
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[54] **MICROSERVICE FULL-LINK MONITORING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DE LIAISON INTEGRALE DE MICROSERVICES**
[72] WANG, FUPING, CN
[72] ZHAI, XIAOQING, CN
[72] YANG, SHENG, CN
[72] CUI, JIANMEI, CN
[72] SUN, QIAN, CN
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[54] **TAFA4 COMPOUNDS AND USES THEREOF FOR TREATING PAIN**
[54] **COMPOSES TAFA4 ET LEURS UTILISATIONS POUR LE TRAITEMENT DE LA DOULEUR**
[72] MOQRICH, AZIZ, FR
[72] DELFINI, MARIE-CLAIRE, FR
[72] MANTILLERI, ANNABELLE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE D'AIX-MARSEILLE, FR
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[54] **NOVEL CRYSTALLINE FORMS OF SUGAMMADEX**
[54] **NOUVELLES FORMES CRISTALLINES DE SUGAMMADEX**
[72] LARPENT, PATRICK, US
[72] STUEBER, DIRK, US
[72] VARSOLONA, RICHARD J., US
[71] MERCK SHARP & DOHME LLC, US
[71] WERTHENSTEIN BIOPHARMA GMBH, CH
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[54] **APPARATUS AND METHOD FOR RECYCLING MOBILE PHONES**
[54] **APPAREIL ET PROCEDE PERMETTANT LE RECYCLAGE DE TELEPHONES MOBILES**
[72] BOWLES, MARK, US
[72] LIBRIZZI, MICHAEL, US
[72] VAN ROOYEN, PIETER, US
[72] DUBEN, AHRON, US
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[54] **POWER CONTROLLER FOR A DOOR LOCK AND METHOD OF CONSERVING POWER**
[54] **COMMANDE D'ELECTRICITE DESTINEE A UN VERROU DE PORTE ET METHODE DE CONSERVATION D'ENERGIE**
[72] SHAFFER, RANDALL, US
[72] CORBIN, DAVID, US
[71] HANCHETT ENTRY SYSTEMS, INC., US
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[54] **DUAL RELEASE DOSAGE FORM CAPSULE AND METHODS, DEVICES AND SYSTEMS FOR MAKING SAME**
[54] **CAPSULE A DOUBLE FORME POSOLOGIQUE POUR LIBERATION ET PROCEDES, DISPOSITIFS ET SYSTEMES POUR LA PRODUIRE**
[72] PUCKETT, JOHN, US
[71] GEL CAP TECHNOLOGIES, LLC, US
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[54] **TAG LAYOUT FOR INDUSTRIAL VEHICLE OPERATION**
[54] **DISPOSITION D'ETIQUETTES POUR EXPLOITATION DE VEHICULES INDUSTRIELS**
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[72] SHERMAN, NICHOLAS J., US
[71] CROWN EQUIPMENT CORPORATION, US
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[54] **TAURINE SUPPLEMENTED CELL CULTURE MEDIUM AND METHODS OF USE**
[54] **MILIEU DE CULTURE DE CELLULES SUPPLEMENTE EN TAURINE ET PROCEDES D'UTILISATION**
[72] JOHNSON, AMY S., US
[72] CASEY, MEGHAN E., US
[72] OSHODI, SHADIA, US
[72] LAWRENCE, SHAWN, US
[71] REGENERON PHARMACEUTICALS, INC., US
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[54] **MILIEU DE CULTURE DE CELLULES SUPPLEMENTE EN TAURINE ET PROCEDES D'UTILISATION**
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[72] CASEY, MEGHAN E., US
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[54] **MOBILE WEARABLE MONITORING SYSTEMS**
[54] **SYSTEMES DE SURVEILLANCE POUVANT ETRE MOBILES ET PORTES**
[72] BURTON, DAVID, AU
[71] BURTON, DAVID, AU
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[54] **UROFLOWMETRY SIGNAL ARTIFACT DETECTION AND REMOVAL SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE DETECTION ET D'ELIMINATION D'ARTEFACTS DE SIGNAL DE DEBITMETRIE URINAIRE**
[72] DACKO, ADRIAN G., CA
[72] COLE, DAVID NATHANIEL, CA
[72] MAUNDER, SIMON B., GB
[72] ZHANG, HANCE, CA
[72] DRIVER, CHRISTOPHER, CA
[71] LABORIE MEDICAL TECHNOLOGIES CORP., US
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[54] **PROCEDE DE CODAGE D'IMAGE EFFECTUE SUR LA BASE D'UNE TRANSFORMEE SECONDAIRE NON SEPARABLE ET DISPOSITIF A CET EFFET**
[72] SALEHIFAR, MEHDI, KR
[72] KIM, SEUNGHWAN, KR
[72] LIM, JAEHYUN, KR
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[54] **BROADLY-NEUTRALIZING ANTI-HIV ANTIBODIES**
[54] **ANTICORPS ANTI-VIH A NEUTRALISATION LARGE**
[72] MOUQUET, HUGO, US
[72] NUSSENZWEIG, MICHEL, US
[72] BJORKMAN, PAMELA J., US
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[71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US
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