



Bulletin Officiel

de la Propriété
Industrielle
(BOPI)

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Brevets d'Invention

www.oapi.int

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**PREMIERE PARTIE :
GENERALITES**

Extrait de la norme ST.3 de l'OMPI

Code normalisé à deux lettres, recommandé pour la représentation des pays ainsi que d'autres entités et des organisations internationales délivrant ou enregistrant des titres de propriété industrielle.

Afghanistan	AF
Afrique du Sud	ZA
Albanie	AL
Algérie	DZ
Allemagne	DE
Andorre	AD
Angola	AO
Anguilla	AI
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Arabie Saoudite	SA
Argentine	AR
Arménie	AM
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Botswana	BW
Bouvet, Île	BV
Brésil	BR
Brunéi Darussalam	BN
Bulgarie	BG
Burkina Faso*	BF
Burundi	BI
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Cambodge	KH
Cameroun*	CM
Canada	CA
Cap-Vert	CV

Cook, Îles	CK
Corée (République de Corée)	KR
Corée (Rép. Populaire de Corée)	KP
Costa Rica	CR
Côte d'Ivoire*	CI
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Cuba	CU
Danemark	DK
Djibouti	DJ
Dominicaine, République	DO
Dominique	DM
Egypte	EG
El Salvador	SV
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Erythrée	ER
Espagne	ES
Estonie	EE
Etats-Unis d'Amérique	US
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Fidji	FJ
Féroé, Îles	FO
Finlande	FI
France	FR
Gabon*	GA
Gambie	GM
Géorgie	GE
Géorgie du Sud et les Îles Sandwich du Sud	GS
Ghana	GH
Gibraltar	GI
Grèce	GR
Grenade	GD
Groenland	GL
Guatemala	GT
Guernesey	GG
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Guinée-Bissau*	GW
Guinée Equatoriale*	GQ
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Congo*	CG	Inde	IN
Congo (Rép. Démocratique)	CD	Indonésie	ID
Iran (République Islamique d')	IR	Norvège	NO
Iraq	IQ	Nouvelle-Zélande	NZ
Irlande	IE	Oman	OM
Islande	IS	Ouganda	UG
Israël	IL	Ouzbékistan	UZ
Italie	IT	Pakistan	PK
Jamaïque	JM	Palaos	PW
Japon	JP	Panama	PA
Jersey	JE	Papouasie-Nouvelle-Guinée	PG
Jordanie	JO	Paraguay	PY
Kazakhstan	KZ	Pays-Bas	NL
Kenya	KE	Pérou	PE
Kirghizistan	KG	Philippines	PH
Kiribati	KI	Pologne	PL
Koweït	KW	Portugal	PT
Laos	LA	Qatar	QA
Lesotho	LS	Région admin. Spéciale de Hong Kong (Rep. Populaire de Chine)	HK
Lettonie	LV	Roumanie	RO
Liban	LB	Royaume Uni (Grande Bretagne)	GB
Libéria	LR	Rwanda	RW
Libye	LY	Sahara Occidental	EH
Liechtenstein	LI	Sainte-Hélène	SH
Lituanie	LT	Saint-Kitts-et-Nevis	KN
Luxembourg	LU	Sainte-Lucie	LC
Macao	MO	Saint-Marin	SM
Macédoine	MK	Saint-Marin (Partie Néerlandaise)	SX
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Malawi	MW	Salomon, Îles	SB
Maldives	MV	Samoa	WS
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Malte	MT	Sénégal*	SN
Mariannes du Nord, Îles	MP	Serbie	RS
Maroc	MA	Seychelles	SC
Maurice	MU	Sierra Leone	SL
Mauritanie*	MR	Singapour	SG
Mexique	MX	Slovaquie	SK
Moldova	MD	Slovénie	SI

Monaco	MC	Somalie	SO
Mongolie	MN	Soudan	SD
Monténégro	ME	Sri Lanka	LK
Montserrat	MS	Suède	SE
Mozambique	MZ	Suisse	CH
Myanmar (Birmanie)	MM	Suriname	SR
Namibie	NA	Swaziland	SZ
Nauru	NR	Syrie	SY
Népal	NP	Tadjikistan	TJ
Nicaragua	NI	Taïwan, Province de Chine	TW
Niger*	NE	Tanzanie (Rép.-Unie)	TZ
Nigéria	NG	Tchad*	TD
Thaïlande	TH	Tchèque, République	CZ
Timor Oriental	TP	Ukraine	UA
Togo*	TG	Uruguay	UY
Tonga	TO	Vanuata	VU
Trinité-et-Tobago	TT	Venezuela	VE
Tunisie	TN	Viet Nam	VN
Turkménistan	TM	Yémen	YE
Turks et Caïques, Îles	TC	Yougoslavie	YU
Turquie	TR	Zambie	ZM
Tuvalu	TV	Zimbabwe	ZW

ORGANISATIONS INTERNATIONALES DELIVRANT OU ENREGISTRANT DES TITRES DE PROPRIÉTÉ INDUSTRIELLE

Bureau Benelux des marques et des dessins et modèles industriels	BX
Office Communautaire des variétés végétales (Communauté Européenne (OCVV))	QZ
Office de l'harmonisation dans le marché intérieur (Marque, dessins et modèles)	EM
Office des Brevets du conseil de Coopération des Etats du Golf (CCG)	GC
Office Européen des Brevets (OEB)	EP
Organisation Mondiale de la Propriété Intellectuelle (OMPI)	WO
Bureau International de l'OMPI	IB
Organisation Africaine de la Propriété Intellectuelle (OAPI)	OA
Organisation Eurasienne des Brevets (OEAB)	EA
Organisation Régionale Africaine de la Propriété Industrielle (ARIPO)	AP

***Etats membres de l'OAPI**

CODES UTILISES EN MATIERE DE DOCUMENTATION DES BREVETS D'INVENTION ET DES MODELES D'UTILITE

- (11) Numéro de publication.
- (12) Désignation du type de document.
- (19) Identification de l'office qui publie le document.
- (21) Numéro d'enregistrement ou de dépôt.
- (22) Date de dépôt.
- (24) Date de délivrance.
- (30) Pays dans lequel (lesquels) la(les) demande(s) de priorité a (ont) été déposée(s).
Date(s) de dépôt de la (des) demande(s) de priorité.
- (43) Date de publication de la demande.

(le cas échéant)

- Numéro(s) attribué(s) à la (aux) demande(s) de priorité.
- (51) Classification internationale des brevets(CIB).
- (54) Titre de l'invention.
- (57) Abrégé.
- (60) Références à d'autres documents apparentés (le cas échéant).
- (71) Nom(s) du ou des demandeur(s).
- (72) Nom de l'inventeur (le cas échéant) suivi éventuellement du nom de la société d'appartenance.
- (73) Nom(s) du ou des titulaire(s) le cas échéant.
(Ce code n'apparaît que sur la première page du brevet délivré)
- (74) Nom du mandataire en territoire OAPI (le cas échéant).

CODES UTILISES EN MATIERE D'INSCRIPTIONS DANS LE REGISTRE SPECIAL DES BREVETS D'INVENTION ET DES MODELES D'UTILITE

- (1) Numéro de délivrance.
- (2) Numéro de dépôt.
- (3) Numéro et date de la demande d'inscription.
- (4) Nature de l'inscription.
- (5) Numéro et date de l'inscription.
- (10) Cédant.
- (11) Cessionnaire.
- (12) Apporteur.
- (13) Bénéficiaire.
- (14) Dénomination avant.
- (15) Dénomination après.
- (16) Concédant.
- (17) Titulaire.
- (18) Ancienne adresse.
- (19) Nouvelle adresse.
- (20) Constituant du nantissement.
- (21) Créancier nanti.

CLARIFICATION DU REGLEMENT RELATIF A L'EXTENSION DES DROITS SUITE A UNE NOUVELLE ADHESION A L'ACCORD DE BANGUI

RESOLUTION N°47/32

LE CONSEIL D'ADMINISTRATION DE L'ORGANISATION AFRICAINE DE LA PROPRIETE INTELLECTUELLE

Vu L'accord portant révision de l'accord de Bangui du
02 Mars

1977 instituant une Organisation Africaine de la
Propriété
Intellectuelle et ses annexes ;

Vu Les dispositions des articles 18 et 19 dudit Accord
relatives

Aux attributions et pouvoirs du Conseil
d'Administration ;

ADOpte la clarification du règlement du 04 décembre
1988 relatif à l'extension des droits suite à une nouvelle
adhésion à l'Accord de Bangui ci-après :

Article 1er :

Le Règlement du 04 décembre 1988 relatif à l'extension
des droits suite à une nouvelle adhésion à l'Accord de
Bangui est réaménagé ainsi qu'il suit :

«Article 5 (nouveau) :

Les titulaires des titres en vigueur à l'Organisation avant la
production des effets de l'adhésion d'un Etat à l'accord de

Bangui ou ceux dont la demande a été déposée avant
cette date et qui voudront étendre la protection dans ces
Etats doivent formuler une demande d'extension à cet effet
auprès de l'Organisation suivant les modalités fixées aux
articles 6 à 18 ci-dessous.

Le renouvellement de la protection des titres qui n'ont pas
fait l'objet d'extension avant l'échéance dudit
renouvellement entraîne une extension automatique des
effets de la protection à l'ensemble du territoire OAPI».

Le reste sans changement.

Article 2 :

La présente clarification, qui entre en vigueur à compter
du 1^{er} janvier 2008, s'applique aussi aux demandes
d'extension en instance et sera publiée au Bulletin Officiel
de l'Organisation.

Fait à Bangui le 17 décembre 2007

Siège social

Place de la Préfecture
B.P. 887 Yaoundé - Cameroun
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Site web : www.oapi.int / Email : oapi@oapi.int

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Agence Nationale de la Propriété Industrielle (ANAPI)

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Fax.: (229) 21 30 30 24

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Fax.: (226) 50 33 05 63

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Fax.: (237) 222 20 37 38

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Tél.: (236) 21 61 17 44
Fax.: (236) 21 61 76 53

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Fax: (225) 22 41 11 81

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Office Gabonais de la Propriété Industrielle (OGAPI)

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Fax.: (241) 01 76 30 55

(Ministère de l'Industrie et des Mines)

GUINEE - Conakry

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Fax.: (245) 322 34 64 15

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Direction du développement Industriel

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Fax: (222) 525 72 66

(Ministère du Commerce, de l'Industrie, de l'Artisanat et du Tourisme)

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Agence Nationale de la Propriété Industrielle et de la Promotion de l'Innovation (ANA2PI)

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(Ministère des Mines et du Développement Industriel)

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B.P. 4037 Dakar
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(Ministère du Commerce de l'Industrie et de l'Artisanat)

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Direction de la Propriété Industrielle et de la Technologie

B.P. 424 N'Djamena
Tél.: (235) 22 52 08 67
Fax: (235) 22 52 21 79/68 84 84 18

(Ministère du Commerce et de l'Industrie)

**Sécuriser les investissements
étrangers est notre affaire.
Développer l'Afrique par la
propriété intellectuelle
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Institut National de la Propriété Industrielle et de la Technologie (INPIT)

B.P. 2339 Lomé Tél.:
(228) 22 22 10 08 Fax :
(228) 222 44 70

(Ministère du Commerce, de l'Industrie, de la Promotion du secteur privé et du Tourisme)

DEUXIEME PARTIE :
DELIVRANCE DES BREVETS D'INVENTION
selon l'Accord de Bangui, Acte de 1999

A
REPertoire NUMERIQUE
Du N° 22136 au N° 22180

(11) **22136**[Consulter le mémoire](#)

- (51) A61K 31/40 (2023.01);
A61K 31/4025 (2023.01);
A61K 31/407 (2023.01);
A61K 31/427 (2023.01);
A61P 31/20 (2023.01);
C07D 207/34 (2023.01);
C07D 401/12 (2023.01);
C07D 405/12 (2023.01);
C07D 409/12 (2023.01)

(21) **1202100454 - PCT/US2020/026116**

(22) 01/04/2020

- (30) **US n° 62/828,919 du 03/04/2019 et**
US n° 62/932,686 du 08/11/2019

(54) **Pyrrole compounds.**

- (72) BEIGELMAN, Leonid (US);
SEREBRYANY, Vladimir (US);
SMITH, David Bernard (US);
VENDEVILLE, Sandrine (US);
SCHINAZI, Raymond F. (US);
AMBLARD, Franck (US) et
BASSIT, Leda (US)

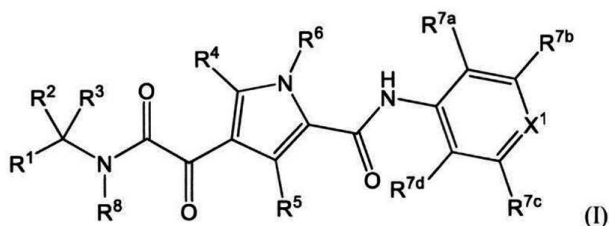
(73) **1-ALIGOS THERAPEUTICS, INC.,** 1
Corporate Drive, 2nd Floor, SOUTH SAN
FRANCISCO, California 94080 (US) et

2-EMORY UNIVERSITY, 1599 Clifton Road NE,
4th Floor, Mailstop 1599/001/1AZ, ATLANTA,
Georgia 30322 (US)

(74) **S.C.P AKKUM, AKKUM & Associates, No.**
1777, rue 6.261, Yaoundé 2, Auditorium Jean
Paul II boulevard, Face Brigade de
Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE
(CM).

(57)

Provided herein are compounds of Formula (I),



or pharmaceutically acceptable salts thereof, pharmaceutical compositions that include a compound described herein (including pharmaceutically acceptable salts of a compound described herein) and methods of synthesizing the same. Also provided herein are methods of treating diseases and/or conditions with a compound of Formula (I), or a pharmaceutically acceptable salt thereof.

(11) **22137**[Consulter le mémoire](#)

- (51) B65G 15/00 (2018.01);
B65G 41/02 (2018.01)

(21) **1202400001 - PCT/CN2022/070662**

(22) 07/01/2022

- (30) **CN n° 202121529131.0 du 05/07/2021 et**
CN n° 202110758470.4 du 05/07/2021

(54) **Wheel-rail belt conveyor and support trolley thereof.**

- (72) ZHANG, Yuan (CN);
JIA, Xianghui (CN);
SUN, Changzheng (CN);
YAO, Wenhui (CN);
WANG, Chengjian (CN);
LIU, Jiankun (CN);
CHANG, Xin (CN) et
LIU, Jinshan (CN)

(73) **1-LIBO HEAVY INDUSTRY TECHNOLOGY CO., LTD,** 51 Yingsheng Road, Taishan District, TAI 'AN, SHANDONG 271000 (CN) et

2-LIBO INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE (SHANDONG) CO., LTD, 51 Yingsheng Road, Taishan District, TAI 'AN, SHANDONG 271000 (CN)

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL,** The House of Gideon, Golf/Bastos Quarters, opposite The American Embassy, Entrance-Saint John Paul II Boulevard, P.O. Box 8211, YAOUNDE (CM).

(57)

A rail belt conveyor and a support carriage thereof, comprising two frames, where wheel

assemblies are mounted on the two frames; an axle of the wheel assembly of the first frame is parallel with an axle of the wheel assembly of the second frame; and the first frame is in hinged connection with the second frame, and a hinged center line is perpendicular to an axis of the axle and is substantially parallel with a traveling direction of the support carriage. According to the structural design of the support carriage, wheels of the support carriage in actual operation can be automatically adjusted, and the processing precision of the wheels and the precision requirement on the mounting of a wheel-rail are reduced. Accordingly, the processing difficulty and the assembly difficulty are reduced, so that the production and operation costs of the rail belt conveyor are reduced.

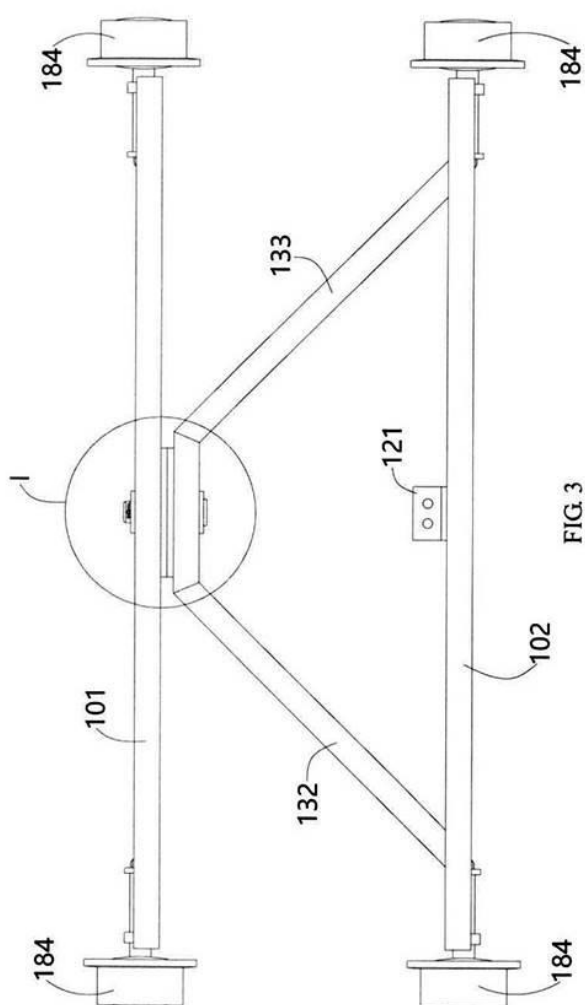


Fig. 3

(11) **22138**[Consulter le mémoire](#)

(51) A61K 31/415 (2023.01);
A61K 47/46 (2023.01);
A61K 9/00 (2023.01);
A61P 33/14 (2023.01)

(21) 1202400054

(22) 19/02/2024

(30) **US n° 63/445,601 du 17/02/2023**(54) **Low dose fipronil deer feed.**

(72) POCHÉ, Richard (US) et
POCHÉ, David Matthew (US)

(73) **SCIMETRICS LIMITED CORP.**, 9974 NE Frontage Road, WELLINGTON, Colorado 80549 (US)

(74) **S.C.P AKKUM, AKKUM & Associates, No. 1777, rue 6.261, Yaoundé 2, Auditorium Jean Paul II boulevard, Face Brigade de Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE (CM).**

(57)

A vector control composition and corresponding methods of use, the vector control composition including an active agent effective to decrease the fitness of a vector capable of transmitting a pathogen, whereby the active agent includes an acaricide or a low dose of an acaricide, whereby the active agent can be formulated for oral delivery to a host of the vector, and whereby the host can be an ungulate.

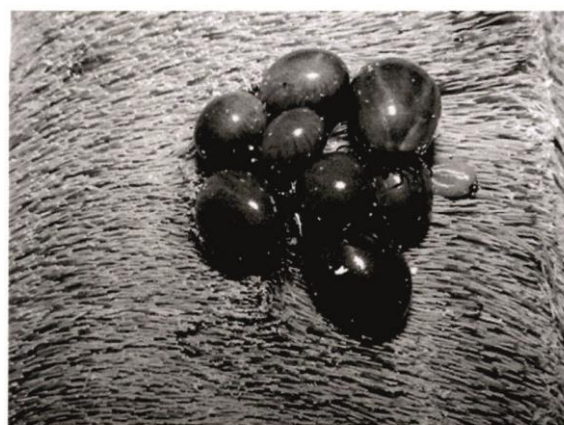


Fig. 12A

(11) **22139**[Consulter le mémoire](#)

- (51) A61K 35/08 (2023.01);
A61K 35/64 (2023.01);
A61K 35/644 (2023.01);
A61P 31/00 (2023.01)

(21) **1202400143 - PCT/EP2022/078687**

(22) 14/10/2022

- (30) **GB n° 2114802.8 du 15/10/2021 et**
GB n° 2204461.4 du 29/03/2022

(54) **Therapeutic and preventive compositions.**

- (72) KELLEHER, John (IE) et
EL HELOU, Rania (IE)

(73) **CELLNUTRITION LTD**, Unit 2, Westlink
Commercial Park, ORANMORE, Co. Galway (IE)

(74) **ALEMBONG OSWALD AMIN, S/C VON
SEIDELS CAMEROON SARL**, Suite 516,
Commercial Bank Building, Quartier
Intendance (adjacent Espace Landmark),
B.P. 30188, YAOUNDE (CM).

(57)

Provided are compositions comprising a bee-derived component and a marine plasma, and methods of preparation thereof, in particular wherein the bee-derived component comprises or is derived from zabrus. These compositions may be used in the treatment or prevention of disease, especially bacterial, viral, fungal, and/or parasitic diseases.

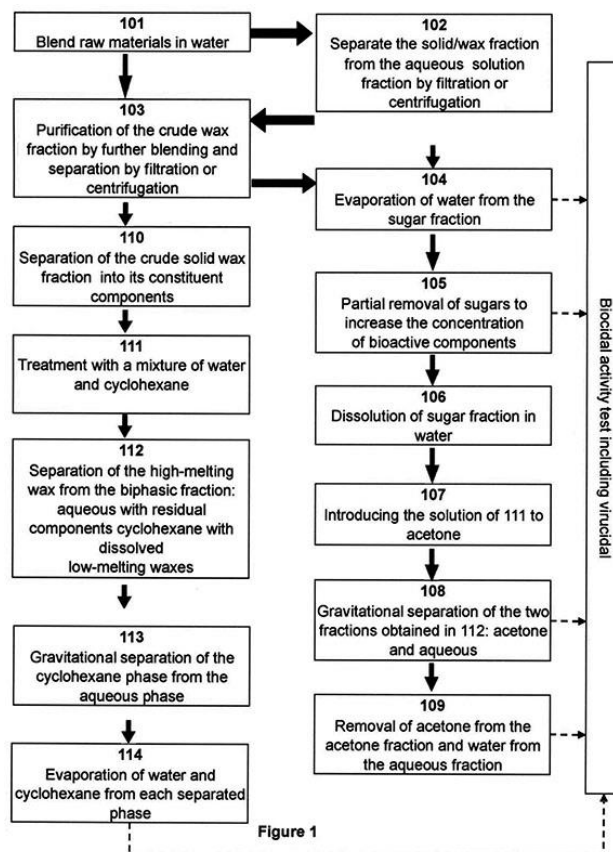


Figure 1

Fig. 1

(11) **22140**[Consulter le mémoire](#)

- (51) A61K 38/17 (2023.01);
A61P 25/04 (2023.01);
A61P 29/00 (2023.01)

(21) **1202400212 - PCT/EP2022/086559**

(22) 19/12/2022

(30) **EP n° 21306835.6 du 17/12/2021**(54) **Peptides and methods for use in treating pain.**

- (72) GAILLARD Stéphane (FR);
CASTETS Francis (FR) et
MOQRICH Abdelaziz (FR)

(73) **Tafalgie Therapeutics**, 163 Avenue de Luminy, Parc Scientifique et Technologique de Luminy, Bâtiment CCIMP, 13009 MARSEILLE (FR)

(74) **Cabinet ÉKÉMÉ LYSAGHT SARL**, B.P. 6370, YAOUNDE (CM).

(57)

The present invention relates to novel peptides, compositions and kits comprising the peptides, for use as active ingredient for preventing or treating pain in a subject in need thereof. Also herein described is an in vitro or ex vivo method for modulating the expression of these peptides.

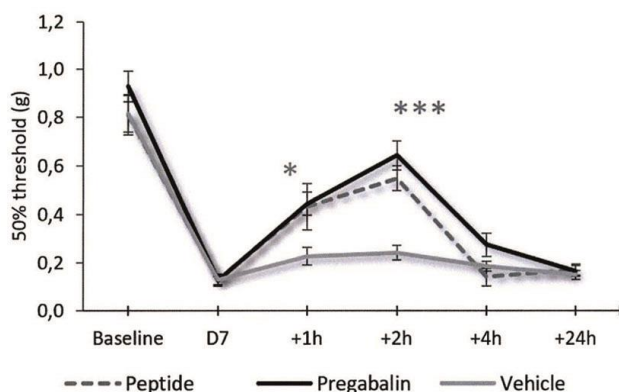


FIGURE 1

Fig. 1

(11) **22141**
[Consulter le mémoire](#)

(51) B23K 26/36 (2019.01);

B42D 25/00 (2019.01)

(21) **1202300304 - PCT/SG2022/050044**

(22) 28/01/2022

(30) **SG n° 1020101057P du 01/02/2021**

(54) **Book with an image and methods of production.**

(72) VERMEULIN, Alice (FR) et
ROUCH-PAULIN, Anthony (FR)

(73) **TOPPAN LEEFUNG PTE LTD**, 1 Kim Seng Promenade, #18-01 Great World City, SINGAPORE 237994 (SG)

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL**, The House of Gideon, Golf/Bastos Quarters, opposite The American Embassy, Entrance-Saint John Paul II Boulevard, P.O. Box 8211, YAOUNDE (CM).

(57)

A book with an image and methods of producing the book are described. The method includes

providing a plurality of sheets, each sheet having a sheet side surface which combines to form a side surface of a book; and applying a laser beam to the side surface to modify at least a part of the side surface to form an image thereon, wherein removal of the sheet having a portion of it modified by the laser beam causes a distortion in the image. The book has a plurality of sheets, each sheet having a sheet side surface with at least one original region and at least one laser modified region, the plurality of sheet side surfaces combine to form a side surface of the book; and an image on the side surface of the book, formed by the combination of the adjacent original and laser modified regions.

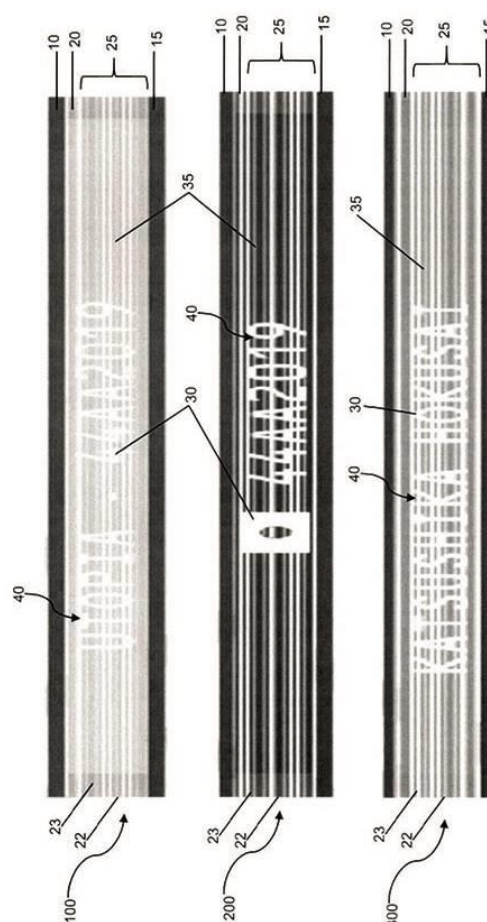


Figure 1

Fig. 1

(11) **22142**
[Consulter le mémoire](#)

(51) C01F 11/22 (2023.01);
C01F 5/28 (2023.01);
C01G 45/10 (2023.01)

(21) **1202400346 - PCT/IB2023/052117**

(22) 07/03/2023

(30) **ZA n° 2022/03168 du 17/03/2022**

(54) **Purification Of Mnso4 Solutions.**

(72) PRETORIUS, Gerard (ZA)

(73) **INNOVATIVE MANGANESE TECHNOLOGIES SA (PTY) LTD**, 97 Broadbury Circle, Cornwall Hill Estate, Irene, 0178 PRETORIA (ZA)

(74) **S.C.P AKKUM, AKKUM & Associates, No. 1777, rue 6.261, Yaoundé 2, Auditorium Jean Paul II boulevard, Face Brigade de Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE (CM).**

(57)

A process (10) for purifying a MnSO₄ solution (34) includes precipitating (12) impurities from the MnSO₄ solution (i) in the presence of a stoichiometric excess of fluoride anions (36), where said stoichiometric excess of fluoride anions is calculated on the basis of the fluoride anions required to react with all Mg²⁺ and Ca²⁺ cations present in the MnSO₄ solution as impurities to form CaF₂ and MgF₂, and (ii) in the presence of sulphide anions (52). The precipitation is effected at a pH higher than 4, producing a slurry or suspension (54) comprising a purified MnSO₄ solution as a carrier medium and a suspended precipitate which includes MnS, MnF₂, CaF₂ and MgF₂. The slurry or suspension is separated (20) into the purified MnSO₄ solution (56) and the precipitate (58), whereafter the precipitate (58) is reacted (24) with a SO₄ salt (62) other than MnSO₄ in a solid-state reaction to produce recovered MnSO₄ from the MnS and MnF₂. The recovered MnSO₄ is recycled (76) to the MnSO₄ solution (34) which is being purified, thereby to reduce Mn losses and improve MnSO₄ yield.

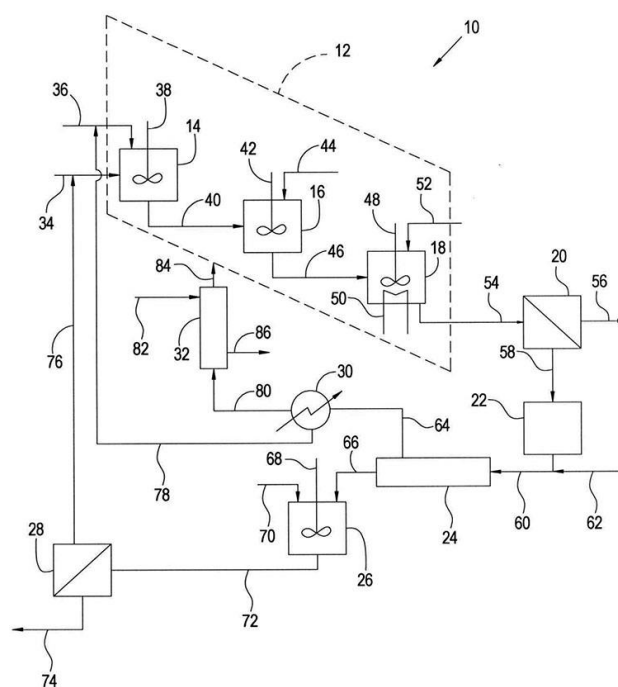


Planche Unique - Fig. 1

(11) **22143**

[Consulter le mémoire](#)

(51) B29B 7/42 (2023.01);
B29B 7/84 (2023.01);
B29C 48/68 (2023.01);
B29C 48/685 (2023.01);
B29C 48/693 (2023.01)

(21) **1202400368 - PCT/EP2023/058786**

(22) 04/04/2023

(30) **FR n° FR2203534 du 15/04/2022**

(54) **Procédé de décontamination de caoutchouc naturel par filtration d'un coagulum humide de caoutchouc naturel.**

(72) DUSSILLOLS Jérôme (FR)

(73) **COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN**, 23, Place des Carmes-Déchaux, 63000 CLERMONT-FERRAND (FR)

(74) **Cabinet CAZENAVE SARL, B.P. 500, YAOUNDE (CM).**

(57)

L'invention concerne un procédé de préparation d'un caoutchouc naturel décontaminé, qui comprend une étape de décontamination par

passage d'un coagulum de caoutchouc naturel humide dans un dispositif comprenant une extrudeuse comportant un fourreau et une vis sans fin, et un filtre installé en sortie de l'extrudeuse, le fourreau comprenant sur sa surface intérieure des rainures qui s'étendent depuis l'extrémité du fourreau la plus proche de la zone d'alimentation de l'extrudeuse, l'extrudeuse ayant des doigts dans le fourreau qui s'étendent radialement vers l'intérieur du fourreau relativement à l'axe de rotation de la vis et qui sont présents au moins dans une partie du fourreau qui s'étend depuis l'extrémité du fourreau la plus proche de la sortie de l'extrudeuse, la pression appliquée au coagulum à l'entrée du filtre allant de 70 bars à 120 bars, la température du coagulum à l'entrée du filtre étant supérieure à 130°C et inférieure à 190°C.

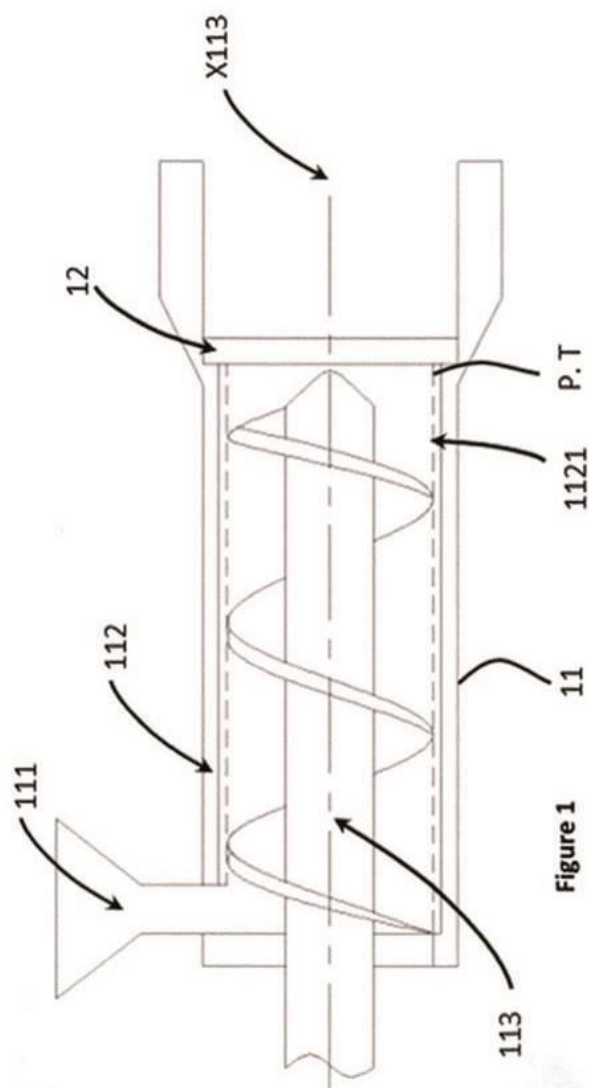


Fig. 1

(11) **22144**[Consulter le mémoire](#)

(51) A23K 10/18 (2023.01);

A23K 10/30 (2023.01);

A23K 50/80 (2023.01)

(21) 1202400375

(22) 03/10/2024

(54) **Aliment Pour Clarias Gariepinus À Base De Sous-Produits Locaux Et D'organismes Invertébrés Sans Adjonction De Farine De Poisson Et Son Procédé.**

(72) Dr NGUEGUIM Jules R. (CM) et Mme DJOMO Tchounang Stephanie Audrey (CM)

(73) **Institut de Recherche Agricole pour le Développement (IRAD)**, B.P. 2123 Messa, YAOUNDE (CM)

(57)

L'invention concerne un aliment pour poissons à base de farine d'organismes invertébrés et son procédé de fabrication.

Trois rations alimentaires à base de farines de deux organismes invertébrés utilisés en association notamment les escargots de l'espèce *Achatina fulica* ou *Achatina fulica*+*Achatina marginata*, et les larves de la mouche domestique *Musca domestica* produites suivant un protocole optimisé, puis transformées en farine, et mélangés aux sous-produits locaux et additifs alimentaires notamment le tourteau de soja, le tourteau d'arachide, la farine de maïs, la farine de manioc, le remoulage de blé, la farine de coquillages, la farine d'os, la lysine, la méthionine, la vitamine C, le prémix 2%, l'huile et le sel iodé, pour la production de granulés utilisés en aquaculture.

L'aliment ainsi obtenu est très adapté à l'élevage des poissons.

(11) **22145**[Consulter le mémoire](#)

(51) A01N 25/00 (2023.01);
A01P 21/00 (2023.01);
C05G 3/60 (2023.01)

(21) 1202400398

(22) 10/10/2024

(54) **Procédé de fabrication d'un biostimulant à base de poudre de coquilles d'huîtres, de purin d'*Azadirachta Indica* (Neem), de flocons secs de *Tithonia Diversifolia* (Fleur Marguerite) pour l'amélioration de la croissance et la santé des plantes.**

(72) TENE TAYO Paul Martial (CM);
BELLA ODEN Gervais Martial (CM);
YAMONEKA Juste (CM) et
MOUAFO TCHINDA Armel Romaric (CM)

(73) **1-TENE TAYO Paul Martial**, B.P. 12793, DOUALA (CM);

2-BELLA ODEN Gervais Martial, BP 12793, DOUALA (CM);

3-YAMONEKA Juste, B.P. 12793, DOUALA (CM) et

4-MOUAFO TCHINDA Armel Romaric, B.P. 12793, DOUALA (CM)

(57)

La présente invention concerne le Procédé de fabrication d'un Biostimulant aux propriétés fertilisantes et pesticides obtenues à partir d'un mélange de purin de neem, poudres chauffées de coquilles d'huîtres, flocons secs de *Tithonia diversifolia*. Ce Biostimulant a des propriétés fertilisantes, pesticides, restauratrices des éléments fertilisants du sol et amélioratrices de la teneur en élément nutritifs des denrées agricoles. Il agit sur la morphologie générale des plantes, la fertilisation du sol, la protection des plantes contre les phytopathogènes et sur l'augmentation des rendements ainsi que sur le profil des éléments nutritifs des denrées agricoles. Son utilisation permet d'augmenter le rendement de production des produits agricoles enrichis en éléments nutritionnels. De ce fait, il contribue activement à préserver l'écosystème en général, la santé de l'homme ainsi que de l'environnement en particulier. /-

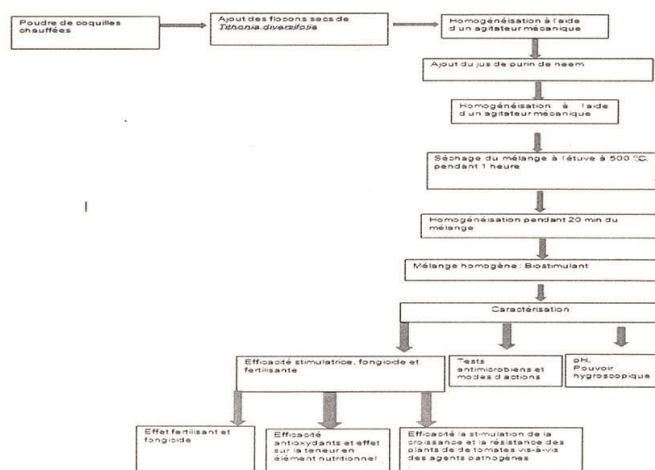


Figure 2 : Planche 2 : Schémas du procédé de production du Biostimulant

Fig. 2

(11) **22146**

[Consulter le mémoire](#)

(51) A61K 35/76 (2023.01);
A61K 48/00 (2023.01);
A61P 7/04 (2023.01);
C07K 14/755 (2023.01);
C12N 15/12 (2023.01);
C12N 15/62 (2023.01);
C12N 15/86 (2023.01);
C12N 5/10 (2023.01)

(21) **1202400409 - PCT/RU2023/050093**

(22) 18/04/2023

(30) **RU n° 2022111695 du 28/04/2022**

(54) **Isolated Nucleic Acid That Encodes Fusion Protein Based On Fviii-Bdd And On Heterologous Signal Peptide.**

(72) MOROZOV, Dmitry Valentinovich (RU);
GERSHOVICH, Pavel Mikhailovich (RU);
PEREPELKINA, Mariya Pavlovna (RU);
VLASOVA, Elena Veniaminovna (RU);
FOMINA, Anastasiia Vladimirovna (RU) et
MARKOVA, Vitaliia Aleksandrovna (RU)

(73) **JOINT STOCK COMPANY “BIOCAD”**, vn.
ter. g. poselok Strelna, p. Strelna, ul. Svyazi, d.
38, str. 1, pomeshch. 89, 198515, SAINT
PETERSBURG, Russian Federation (RU)

C12Q 1/6895 (2023.01);

G06Q 50/02 (2023.01)

(74) **Cabinet ISIS CONSEILS (SCP), Bastos,
Rue 1.862, face de l'Agence Turque de
Coopération et de Coordination, B.P. 15067,
YAOUNDE (CM).**

(21) **1202400438 - PCT/US2023/023524**

(22) 25/05/2023

(30) **US n° 63/345, 859 du 25/05/2022**

(54) **Systems And Methods For Agricultural
Risk Management.**

(57)

The present application relates to the fields of
genetics, gene therapy, and molecular
biology. More specifically, the présent invention
relates to a nucleic acid that encodes a fusion
protein based on FVIII-BDD (B-domain deleted
coagulation factor VIII)) and on a heterologous
signal peptide, to an expression cassette and a
vector based thereon, to a host cell for producing
the fusion protein based on FVIII-BDD and on a
heterologous signal peptide, and further to
various uses of the above vector.

(72) MARELLI, Jean-Philippe (US);

HENDERSON, Donna (US) et

NIOGRET, Jérôme (US)

(73) **Mars, Incorporated**, 6885 Elm Street,
McLean, Virginia 22101 (US)

(74) **SPOOR & FISHER Inc. NGWAFOR &
PARTNERS SARL, The House of Gideon,
Golf/Bastos Quarters, Opposite The American
Embassy, Entrance-Saint John Paul II
Boulevard, B.P. 8211, YAOUNDE (CM).**

(57)

Methods and systems for managing risks for
agricultural systems include receiving an
agricultural system unit (ASU) selection for an
ASU associated with an agroforestry agricultural
system, and accessing an analysis for a plant
corresponding to the ASU selection based on a
selection type of the ASU selection. An
assessment associated with the plant
corresponding to the ASU selection may be
accessed based on the analysis and the selection
type, and a need for a risk mitigating technique
based on the analysis and/or the assessment may
be determined. Results of processing the ASU
selection may be indicated in a graphical user
interface (GUI) based on the selection type.
Plants of the agroforestry agricultural system may
include cocoa trees.

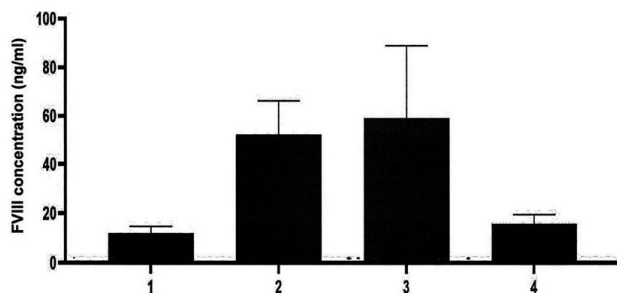


Fig. 1

(11) **22147**

[Consulter le mémoire](#)

(51) A01B 79/00 (2023.01);

A01B 79/02 (2023.01);

A01N 63/40 (2023.01);

A23G 1/00 (2023.01);

C12N 15/82 (2023.01);

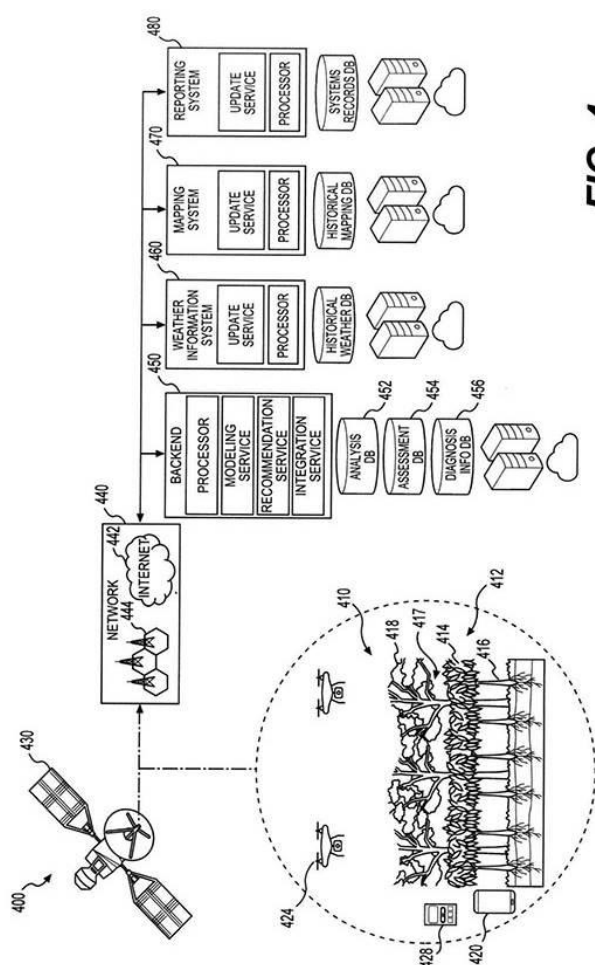


Fig. 4

FIG. 4

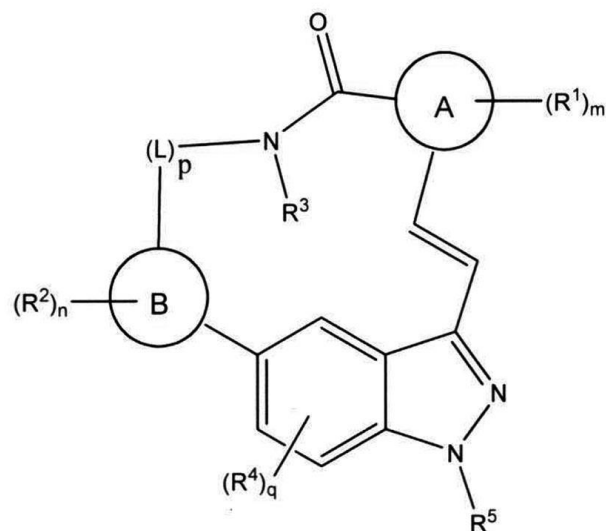
RUI, Eugene Yuanjin (US);
ZHAI, Dayong (US);
UNG, Jane (US);
DENG, Wei (US);
ROGERS, Evan W (US) et
JIANG, Ping (US)

(73) **BlossomHill Therapeutics, Inc.**, 3525 John Hopkins Court, Suite 100, San Diego, California 92121 (US)

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL**, The House of Gideon, Golf/Bastos Quarters, Opposite The American Embassy, Entrance-Saint John Paul II Boulevard, B.P. 8211, YAOUNDE (CM).

(57)

The present disclosure relates to indazole macrocyclic compounds, pharmaceutical compositions containing macrocyclic compounds, and methods of using macrocyclic compounds to treat disease, such as cancer.



I

Formula I

(11) **22148**

[Consulter le mémoire](#)

- (51) A61K 31/4155 (2023.01);
A61K 31/416 (2023.01);
A61K 31/4178 (2023.01);
A61K 31/4192 (2023.01);
A61K 31/4196 (2023.01);
A61K 31/422 (2023.01);
A61K 31/427 (2023.01)

(21) **1202400442 - PCT/US2023/068071**

(22) 07/06/2023

(30) **US n° 63/350, 307 du 08/06/2022 et
US n° 63/501, 114 du 09/05/2023**

(54) **Indazole Macrocycles And Their Use.**

(72) CUI, Jingrong Jean (US);

(11) **22149**

[Consulter le mémoire](#)

(51) H02J 7/00 (2023.01)

(21) 1202400456

(22) 23/08/2024

(54) **Système de stockage d'énergie de batterie connecté avec gestion thermique intégrée.**

(72) M. AGBANWU David Onu (CI)

(73) **M. AGBANWU David Onu**, 08 BP 900
Abidjan 08 (CI)

(57)

L'invention décrit un système de stockage d'énergie de batterie comprenant principalement un module de batterie (5), un système de gestion thermique, un système avancé d'Internet des objets ou IdO intégrant un microcontrôleur et un système automatique de gestion de l'énergie stockée pour une durée de vie d'au moins 20 ans pour la batterie. Le système de gestion thermique ou TMS est un échangeur de chaleur contrôlée par une carte de commande et permet un contrôle précis de la température pour la maintenir entre 22°C à 25°C. Le système avancé d'Internet des objets ou IdO avec son microcontrôleur et un Système de Gestion d'Énergie basé sur le web permet l'analyse, la maintenance, le contrôle, la gestion et le diagnostic à distance en temps réel des données et paramètres de fonctionnement et d'optimisation du système grâce aux modules GPRS et GPS.

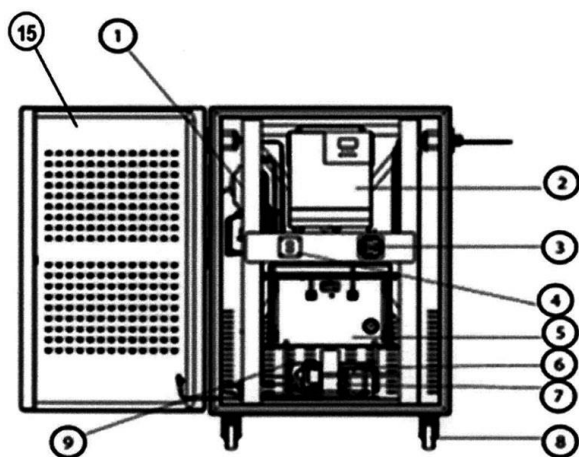


Fig. 3

(11) **22150**

[Consulter le mémoire](#)

(51) G06F 15/00 (2023.01)

(21) 1202400457

(22) 23/08/2024

(54) **Microcontrôleur pour la gestion thermique d'un système de stockage d'énergie de batterie.**

(72) M. AGBANWU David Onu (CI)

(73) **M. AGBANWU David Onu**, 08 BP 900
Abidjan 08 (CI)

(57)

L'invention est un système de microcontrôleur intégrant un module de gestion thermique, configuré pour la gestion thermique automatique des Systèmes de Stockage d'Energie de Batterie (BESS) afin de maintenir la température de la batterie entre 22°C et 25°C par une analyse prédictive des données en temps réel, via des modules GPS, GPRS et un circuit d'élimination. Le microcontrôleur selon l'invention consiste en une carte loi dont les modules GPRS et GPS assurent la multi-connectivité, grâce à des algorithmes d'analyse prédictive pour surveiller et gérer la température de la batterie; par la communication avec le serveur cloud et des capteurs, en engageant une unité de refroidissement et en utilisant des commandes GPIO, relais, ou TTL, pour effectuer des diagnostics à distance, en notifiant le serveur cloud des anomalies ou irrégularités du système.

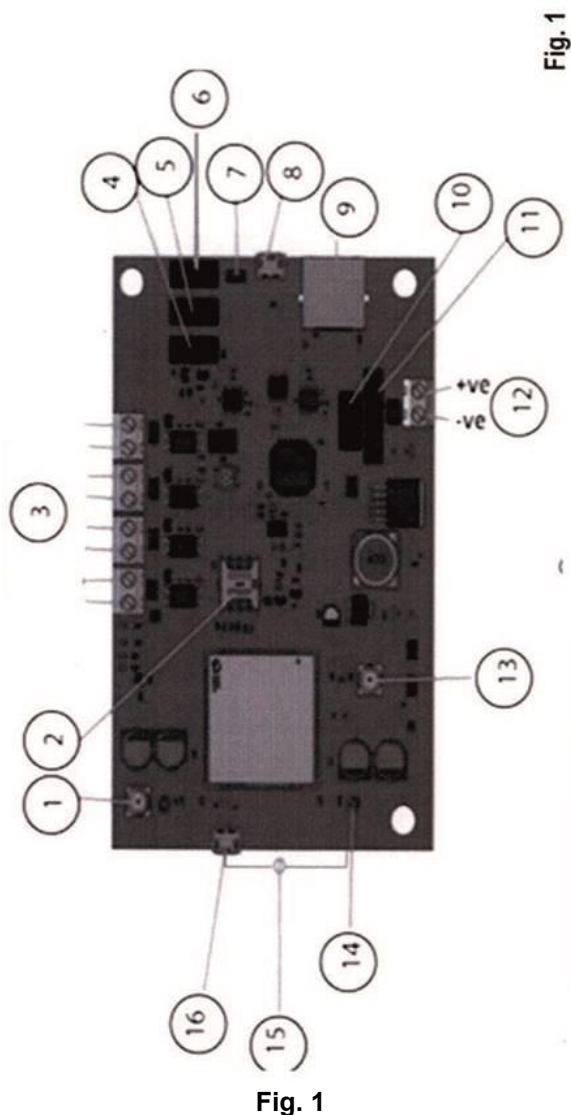


Fig. 1

(11) **22151**[Consulter le mémoire](#)

(51) F01K 13/00 (2023.01);

F01K 21/00 (2023.01)

(21) 1202400475

(22) 21/06/2023

(30) EP n° 22180199.6 du 21/06/2022

(54) **Method Of Operating A Heat Cycle System, Heat Cycle System And Method Of Modifying A Heat Cycle System.**

(72) HOLLINGWORTH, Hardy (SE) et
PERSSON, Karl Gustav (SE)

(73) **Noditech AB**, Noditech AB, 601 86
NORRKÖPING (SE)

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL, The House of Gideon, Golf/Bastos Quarters, Opposite The American Embassy, Entrance-Saint John Paul II Boulevard, B.P. 8211, YAOUNDE (CM).**

(57)

A method of operating a heat cycle system, wherein the heat cycle system comprises a working fluid, which is cycled through a circuit comprising a compressor (10), a condenser (11), an expander unit (130), and an evaporator (140) and wherein the expander unit (130) is configured to generate a rotating mechanical motion, comprises operating the evaporator at an evaporator working fluid evaporation capacity that is at least about 110 % of the nominal evaporator working fluid evaporation capacity. There is also disclosed a heat cycle system as well as a method of modifying a heat cycle system.

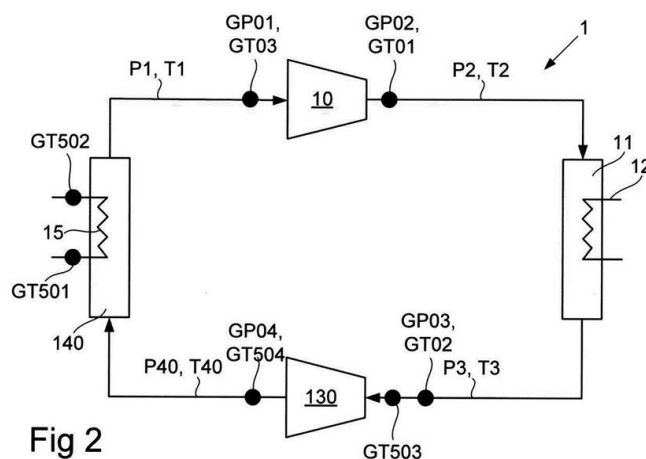


Fig 2

(11) **22152**[Consulter le mémoire](#)

(51) B41M 1/10 (2023.01);

B41M 3/14 (2023.01);

C09D 11/03 (2023.01);

C09D 11/033 (2023.01);

C09D 11/12 (2023.01);

C09F 9/00 (2023.01)

(21) 1202400480 - PCT/EP2023/068203

(22) 03/07/2023

(30) EP n° 22183328.8 du 06/07/2022

(54) **Intaglio Printing Processes For Producing Security Features Made Of Oxidative Drying Intaglio Inks.**

(72) MAGNIN, Patrick (FR);
LEFEBVRE, Olivier (CH);
SABOURIN, Maxime (CH) et
BRIGNOLI, Yann (CH)

(73) **SICPA HOLDING SA**, Avenue de Florissant
41, 1008 PRILLY (CH)

(74) **NICO HALLE & CO. LAW FIRM, 1st Floor
SHALOM Building, Ancienne Route
Bonassama, P.O. Box 4876, DOUALA (CM).**

(57)

The present invention relates to the field of processes for producing a security feature on a substrate by an intaglio printing process comprising a step a) of inking an intaglio engraved printing plate with an oxidative drying intaglio ink, said intaglio engraved printing plate being at a printing plate temperature between about 45°C and about 85°C; a step b) of wiping off any excess the oxidative drying intaglio ink using a paper of a tissue wiping system or using a polymeric wiping cylinder and cleaning said polymeric wiping cylinder with an alkaline aqueous wiping solution in

combination with one or more mechanical means; a step c) of transferring said oxidative drying intaglio ink in the form of the security feature on the substrate; and a step d) of drying the oxidative drying intaglio ink in the presence of air so as to form the security feature.

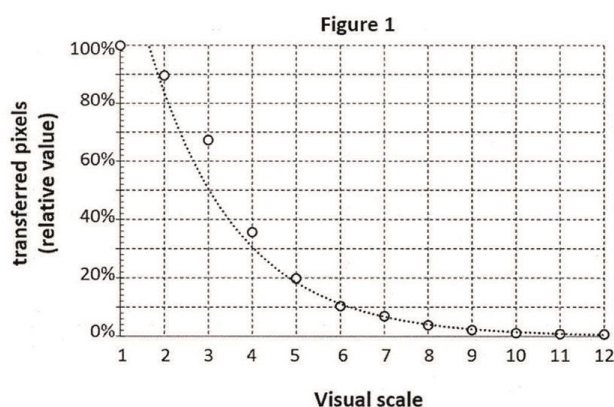


Planche Unique - Fig. 1

(11) **22153**

[Consulter le mémoire](#)

(51) G06Q 50/20 (2023.01)

(21) 1202400244

(22) 19/12/2023

(54) **Procédé permettant un enseignement-apprentissage réussi.**

(72) MIHINDOU TCHIAMA Glen Brenne (GA)

(73) **MIHINDOU TCHIAMA Glen Brenne**,
B.P. 13122, LIBREVILLE (GA)

(57)

La présente invention est relative à un procédé visant à favoriser un enseignement-apprentissage réussi, caractérisée en ce qu'elle est éducative et révolutionnaire, combinant les sciences de l'éducation et des nouvelles technologies pour créer un environnement d'apprentissage personnalisé qui repose sur une architecture technique sophistiquée pour la gestion des données relatives à l'apprentissage automatique et à la génération des recommandations des algorithmes.

(11) **22154**

[Consulter le mémoire](#)

(51) B03C 1/015 (2023.01);
C22B 1/00 (2023.01);
C22B 21/00 (2023.01) ;
C22B 7/00 (2023.01)

(21) **1202400484 - PCT/CN2023/105268**

(22) 30/06/2023

(30) **CN n° 202310045882.2 du 30/01/2023**

(54) **Method for recovering iron and aluminum from red mud.**

(72) QI, Lijuan (CN);
ZHENG, Jie (CN);
SHAO, Shuai (CN);
YU, Qing (CN) et
ZHENG, Chunhui (CN)

(73) **ZHENGZHOU NON-FERROUS METALS
RESEARCH INSTITUTE CO.LTD OF CHALCO**,
No. 82 Jiyuan Road, Shangjie District Zhengzhou,
Henan 450041 (CN)

(74) **Arielle MPECK & PARTNERS, 3rd Floor
Ndema Mpako Building, opposite Omnisports
Stadium, DOUALA (CM).**

(57)

The disclosure relates to a method for recovering an iron and aluminum from a red mud, which includes the following steps: providing a red mud, a mass percentage of an alumogothite is not less than 20% and a mass percentage of Fe_2O_3 is not less than 40% in the red mud; mixing the red mud with a circulating mother liquor and an additive and performing a wet treatment above 260°C to obtain an ore pulp; performing a liquid-solid separation on the ore pulp after the ore pulp is flash evaporated, to obtain a separated iron material and a separated liquid; performing a seed precipitation on the separated liquid after the separated liquid is refined, or performing a seed precipitation on the separated liquid after the separated liquid is combined with an existing refined liquid; and, performing an iron separation on the separated iron material after washed to obtain an iron concentrate. The additive includes an alkaline earth metal compound. The alkaline earth metal compound is at least one of a calcium oxide, a calcium hydroxide, a magnesium oxide and a magnesium hydroxide.

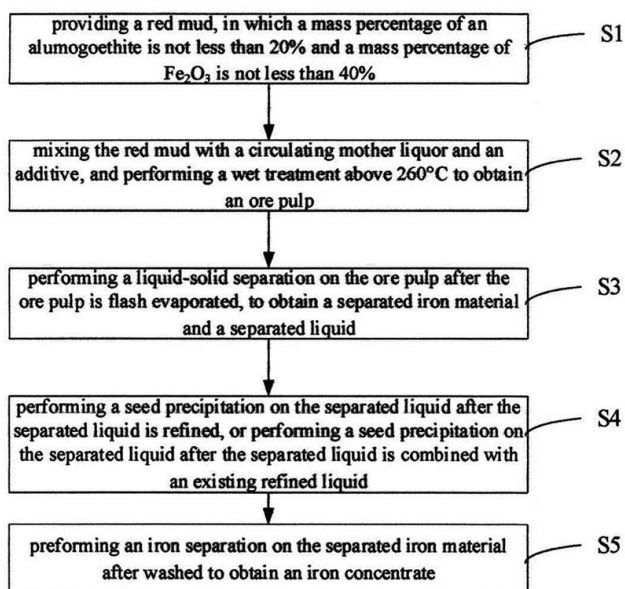


FIG. 1

Planche Unique - Fig. 1

(11) **22155**[Consulter le mémoire](#)

(51) A61K 36/00 (2023.01);

A61P 3/10 (2023.01)

(21) 1202500012

(22) 19/08/2024

(54) **Phytomédicament pour le traitement du diabète et son procédé de préparation.**

(72) LOUA Morofi (CI)

(73) **LOUA Morofi**, 09 B.P. 30 ABIDJAN 09 (CI)

(57)

L'invention est un phytomédicament qui consiste en une infusion à base de racines de *Olyra latifolia* et d'écorces de *Cinnamomum zeylanicum*, utilisée par voie orale et comme pansement pour le traitement du diabète de type I et de type II, ainsi que des maladies opportunistes qui en sont issues, plaies et courbatures diabétiques, après trois mois de traitement en corrigeant totalement le mécanisme biologique sous-jacent qui cause le diabète.

La préparation médicamenteuse aux propriétés antioxydante, antidiabétique, anticancéreuse, par sa teneur en glucides, en acides phénoliques, en flavonoïdes en anthocyanes, en leucoanthocyanes et en alcaloïde est obtenu après séchage, une double ébullition et tamisage et filtration de l'infusion obtenue et maturation pendant environ quatre semaines.

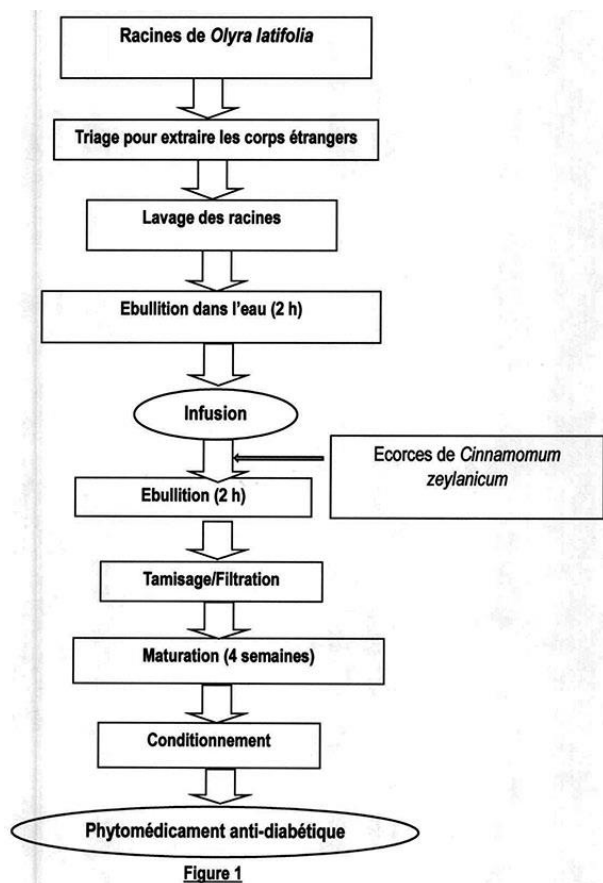


Planche Unique - Fig. 1

storage compartment (s) (122) being positioned below one of said one or more cross members (103) and between a portion of said one or more downtube(s) (104R, 104L). The improved frame accommodates both the storage compartment (122) like CNG cylinder as well as a petrol tank thereby providing platform 1 to create multiple variants without changing a frame assembly (100). This provides commonisation of frame for multiple variants of the vehicle (A).

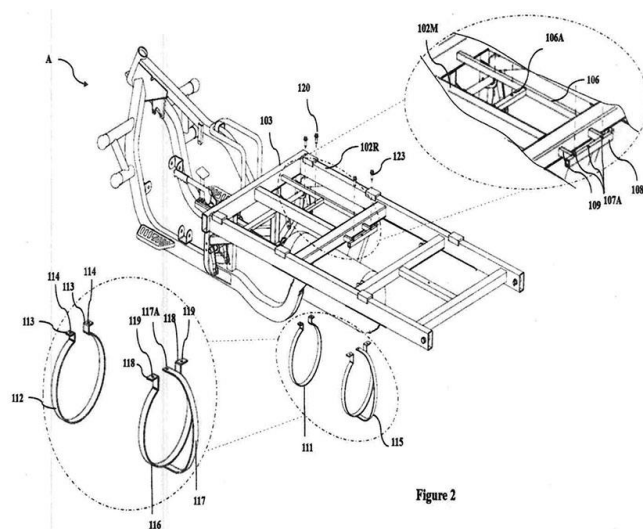


Fig. 2

(11) **22156**[Consulter le mémoire](#)

(51) B62D 21/02 (2023.01)

(21) 1202500276

(22) 26/02/2024

(30) **IN n° 202341014631 du 04/03/2023**(54) **A Frame Assembly For A Vehicle.**(72) DINAKAR, Sivalingam (IN) et
SRIDHAR, Balaguru (IN)(73) **TVS MOTOR COMPANY LIMITED**,
Chaitanya, No.12 Khader Nawaz Khan Road,
Nungambakkam, CHENNAI 600 006 (IN)(74) **DUGA TITANJI & PARTERNS IP, B.P. 3331
Messa, YAOUNDE (CM).**

(57)

The present invention relates to a frame assembly (100) for a vehicle (A). The frame assembly (100) includes a mounting assembly (105). The mounting assembly (105) being configured to connect one or more storage compartment (122) to said frame assembly (100). The one or more

(11) **22157**[Consulter le mémoire](#)

(51) A61K 31/4412 (2023.01);

A61P 35/00 (2023.01);

C07D 401/12 (2023.01)

(21) 1202500029

(22) 15/08/2023

(30) **IN n° 202221046493 du 16/08/2022**(54) **Substituted pyridinone compounds as
CBL-B inhibitors.**

(72) CHINNAPATTU, Murugan (IN);
CHAUDHARI, Sachin (IN);
GOWDA, Nagaraj (IN);
DAS, Sanjib (IN);
IYER, Pravin (IN);
WAGHMARE, Nayan (IN);
SHELKE, Sandeep (IN);
GAVHANE, Balasaheb (IN);
SAJNI, Jagmohan (IN) et
KADAM, Sheetal (IN)

(73) **GLENMARK PHARMACEUTICALS LTD**,
B/2, Mahalaxmi Chambers, 22 Bhulabhai Desai
Road, Maharashtra, MUMBAI – 400026 (IN)

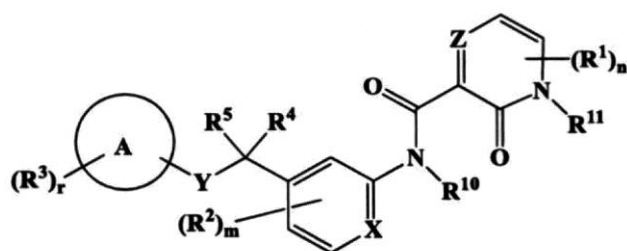
TESTER, Angus (AU);
BUCZEK, Olga (AU) et
CAO, Ru (AU)

(74) **S.C.P AKKUM, AKKUM & Associates, No. 1777, rue 6.261, Yaoundé 2, Auditorium Jean Paul II boulevard, Face Brigade de Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE (CM).**

(73) **VEGENICS PTY LIMITED**, Suite 0403, Level 4, 650 Chapel Street, South Yarra, VICTORIA 3141 (AU)

(57)

The present invention is directed to compounds of formula (I) and pharmaceutically acceptable salts thereof, which are useful as CBL-b inhibitors, processes for their preparation, pharmaceutical compositions comprising the compounds, and the use of the compounds or the compositions in the treatment or prevention of various diseases, conditions and/or disorders mediated by CBL-b.



(I)
Formula I

(11) **22158**

[Consulter le mémoire](#)

(51) A61F 9/00 (2023.01);
A61K 38/17 (2023.01);
A61K 47/02 (2023.01);
A61K 47/26 (2023.01);
A61K 9/00 (2023.01);
A61K 9/08 (2023.01);
A61K 9/19 (2023.01);
A61P 27/02 (2023.01)

(21) **1202500035 - PCT/AU2023/050850**

(22) 01/09/2023

(30) **US n° 63/374,366 du 01/09/2022**

(54) **Pharmaceutical composition and method of using same.**

(72) GEROMETTA, Michael (AU);

(74) **S.C.P AKKUM, AKKUM & Associates, No. 1777, rue 6.261, Yaoundé 2, Auditorium Jean Paul II boulevard, Face Brigade de Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE (CM).**

(57)

Provided herein are pharmaceutical compositions comprising an active agent which is a soluble VEGFR-3 trap molecule. Also provided herein are therapeutic methods and uses involving the pharmaceutical compositions, in particular ocular diseases and disorders, and port devices comprising the pharmaceutical compositions.

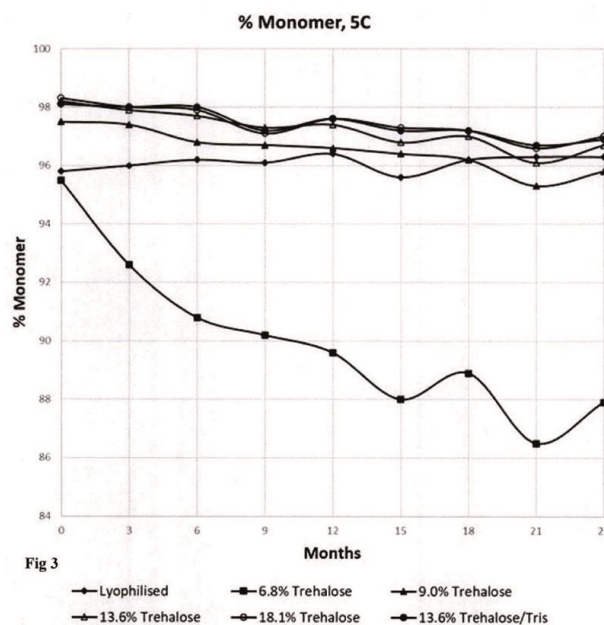


Fig. 3

(11) **22159**

[Consulter le mémoire](#)

(51) B01J 6/00 (2023.01);
C01F 7/441 (2023.01);
C01F 7/445 (2023.01);
F23C 10/18 (2023.01);
F27B 15/02 (2023.01)

(21) **1202500043 - PCT/FI2022/050598**

(22) 08/09/2022

(54) **Fluidized bed calcination with gas mixture comprising hydrogen.**

(72) GASAFI Edgar (DE) et
MADUTA Robert (DE)

(73) **Metso Metals Oy**, Rauhalanpuisto 9, 02230
ESPOO (FI)

(74) **Cabinet ÉKÉMÉ LYSAGHT SARL,
B.P. 6370, YAOUNDE (CM).**

(57)

A circulating fluidized bed (CFB) furnace (3) for heating and/or calcination of a material, wherein a hydrogen-enriched gas mixture (1) is used as fuel for the calcination process is disclosed. A process for calcination of a material, wherein a hydrogen-enriched gas mixture (1) is used as fuel for the calcination process is further disclosed.

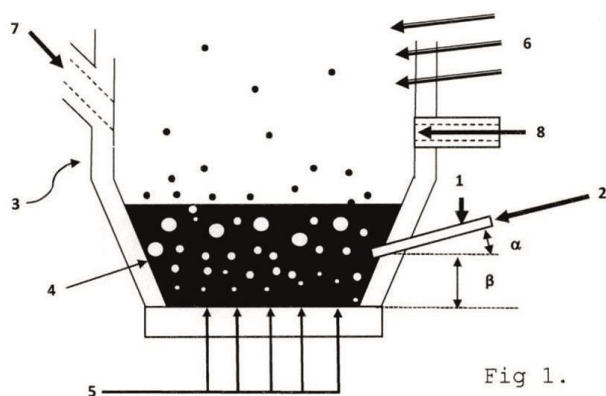


Fig. 1

(11) **22160**

[Consulter le mémoire](#)

(51) A61K 39/42 (2023.01);
A61P 31/12 (2023.01);
C07K 16/08 (2023.01);
C12N 7/00 (2023.01)

(21) **1202500050 - PCT/US2023/031646**

(22) 31/08/2023

(30) **US n° 63/402,900 du 31/08/2022**

(54) **Compositions and methods for the prevention and treatment of orthopoxvirus infections.**

(72) SAMPEY, Darryl Bacon (US);

ACREE, David James (US);

BRACKNA, Carson Alexander (US);

MACAPAGAL, Nathaniel Pineda (US) et

HAUSFELD, Jeffrey Neal (US)

(73) **BIOFACTURA, INC.**, 8435 Progress Drive,
Suite Z, FREDERICK, Maryland 21701 (US)

(74) **S.C.P AKKUM, AKKUM & Associates, No.
1777, rue 6.261, Yaoundé 2, Auditorium Jean
Paul II boulevard, Face Brigade de
Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE
(CM).**

(57)

Provided herein are antibodies and functional fragments thereof for treating or preventing viral diseases, for example pox viral diseases, for example smallpox and monkey pox. Any antibody or functional fragment thereof described herein can be an engineered antibody or engineered antibody fragment. Also, provided herein are compositions and pharmaceutical compositions containing one or more antibodies or functional fragments thereof. Further provided herein are kits containing one or more antibodies or functional fragments thereof, and methods, dosing schedules, dosage amounts, and routes of administration of antibody(ies) and functional fragment(s) thereof. Finally are provided methods of making antibodies and functional fragments thereof.

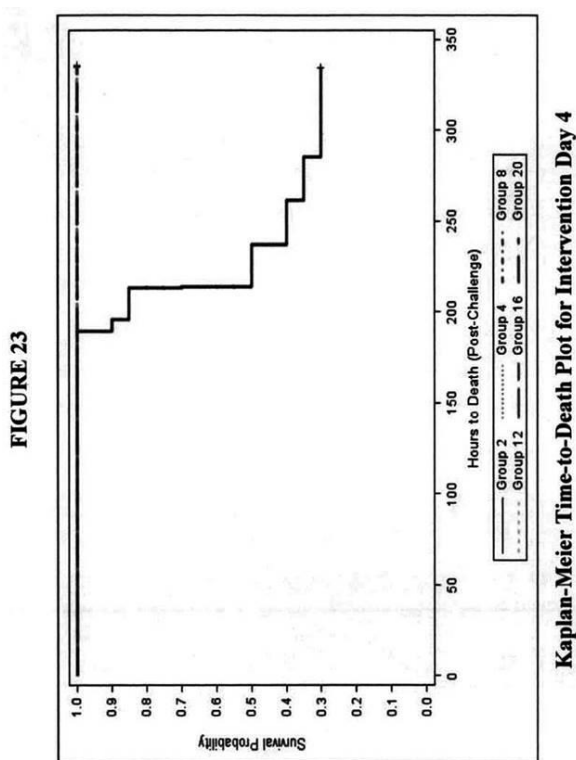


Figure 23

(11) **22161**[Consulter le mémoire](#)

(51) C12M 1/107 (2023.01);
C12M 1/16 (2023.01);
C12M 1/26 (2023.01)

(21) **1202500051 - PCT/FR2023/051228**

(22) 01/08/2023

(30) FR n° FR 2208824 du 02/09/2022

(54) Installation de traitement, notamment pour le traitement par fermentation de déchets organiques.

(72) BLONDEL Laurent (FR);
DEGUEURCE Axelle (FR);
PEU Pascal (FR) et
TREMIER Anne (FR)

(73) Institut National de Recherche pour l'Agriculture, l'Alimentation et l'Environnement (INRAE), 147 Rue de l'Université, 75007 PARIS (FR)

(74) Cabinet Norbert Merckling, Sipres 2, Immeuble Soda Marième/Freepenseur, B.P. 45880, DAKAR (SN).

(57)

Installation (1) de traitement par fermentation de produits solides fermentescibles comprenant un réacteur (2) supporté par un châssis, et une cassette (11) présentant une zone (110) ajourée de stockage de produit, ledit réacteur (2) étant équipé d'une entrée (3) de produits à traiter, d'une sortie (4) d'évacuation des produits traités, d'une sortie (5) de biogaz, d'un orifice (8) d'entrée d'un inoculum, d'un orifice (9) de sortie de lixiviat, et comprenant un corps (6) tubulaire et un séparateur (7) liquide/solide, ledit corps (6) étant fermé à chacune de ses extrémités, formant l'une, l'entrée (3) de produits à traiter, l'autre, la sortie (4) d'évacuation des produits traités, par un élément (100) de fermeture mobile entre une position ouverte et une position fermée, et chaque cassette (11) étant déplaçable coulissement à l'intérieur du corps (6), et ledit séparateur (7) liquide/solide comprenant un filtre (12).

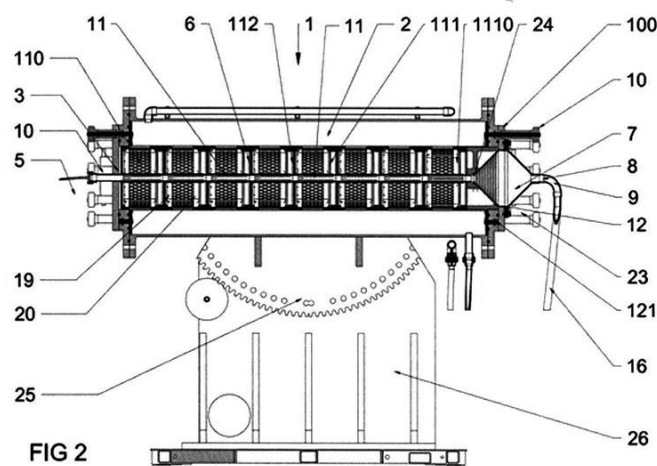


Figure 2

(11) **22162**[Consulter le mémoire](#)

(51) C09K 8/52 (2023.01);
C10L 1/10 (2023.01);
C10L 3/06 (2023.01);
C10L 3/10 (2023.01)

(21) **1202500056 - PCT/US2023/073506**

(22) 06/09/2023

(30) US n° 63/374,685 du 06/09/2022

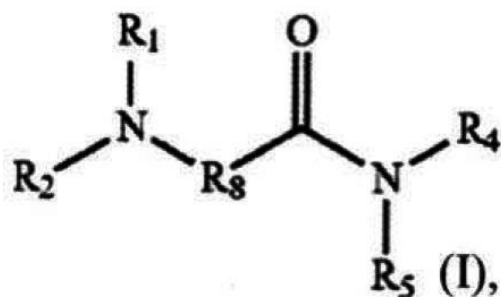
(54) **Combination products containing anti-agglomerant low dose hydrate inhibitors and corrosion inhibitors with improved corrosion resistance.**

(72) RANA, Geeta (US);
MOLONEY, Jeremy (US);
BARTELS, Jeremy (US) et
SHARMA, Pritesh (US)

(73) **CHAMPIONX LLC**, 11177 S. Stadium Drive,
Sugar Land, Texas 77478 (US)

(74) **S.C.P AKKUM, AKKUM & Associates, No. 1777, rue 6.261, Yaoundé 2, Auditorium Jean Paul II boulevard, Face Brigade de Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE (CM).**

(57)
Hydrate inhibitor and corrosion inhibitor composition are disclosed and include from about 10 wt-% to about 99.9 wt-% of an anti-agglomerant low dose hydrate inhibitor (AALDHI), wherein the AA-LDHI is a zwitterionic compound or a cationic ammonium compound; from about 0.01 wt-% to about 50 wt-% of a corrosion inhibitor, and at least one additional functional ingredient, solvent, or a combination thereof. Methods for inhibiting corrosion and formation of gas hydrate agglomerants in a fluid are disclosed and include contacting the fluid with a hydrate inhibitor and corrosion inhibitor composition or contacting the fluid with an AA-LDHI, wherein the AA-LDHI is a zwitterionic compound or a cationic ammonium compound, and a corrosion inhibitor, wherein the AA-LDHI and corrosion inhibitor are provided at a weight ratio of about 1:0.001 to about 1:1, and wherein the composition inhibits general and localized corrosion and formation of gas hydrate agglomerants in the fluid.



Formula I

(11) **22163**

[Consulter le mémoire](#)

(51) A61K 31/506 (2023.01);
A61P 29/00 (2023.01);
A61P 35/00 (2023.01);
A61P 37/00 (2023.01);
C07D 277/44 (2023.01);
C07D 401/12 (2023.01);
C07D 405/14 (2023.01);
C07D 413/14 (2023.01);
C07D 417/12 (2023.01)

(21) 1202500072

(22) 04/09/2023

(30) **RU n° 2022124945 du 22/09/2022 et
RU n° 2023122794 du 01/09/2023**

(54) **Cyclin-Dependent Kinase 7 Inhibitors.**

(72) MOROZOV, Dmitry Valentinovich (RU);
GORBUNOVA, Svetlana Leonidovna (RU);
MIKHA YLOV, Leonid Evgenievich (RU);
IAKOVLEV, Danila Alekseevich (RU);
CHESTNOVA, Anna Yurievna (RU);
LENSHMIDT, Liliana Vyacheslavovna (RU);
VIKENTEVA, Yulia Arturovna (RU);
EFIMENKO, Nikita Igorevich (RU);
GOLUBEV, Artem Alekseevich (RU);
CHEREMUSHKIN, Andrei Ivanovich (RU);
LUKASHENKO, Anton Vladimirovich (RU);
SMOLNIKOV, Sergei Alexandrovich (RU);
KISELEV, Maksim Aleksandrovich (RU);
SHARKOV, Dmitrii Evgenievich (RU);
SHPAKOVA, Elena Alexandrovna (RU) et
VORONKOVA, Maria Sergeevna (RU)

(73) **JOINT STOCK COMPANY "BIOCAD"**, vn.
ter. g. poselok Strelina, ul. Svyazi, d. 38, str. 1,
pomeshch. 89, 198515, SAINT PETERSBURG,
Russian Federation (RU)

(74) **Cabinet ISIS CONSEILS (SCP), Bastos, Rue 1.862, face de l'Agence Turque de Coopération et de Coordination, B.P. 15067, YAOUNDE (CM).**

(57)

The present invention relates to novel compounds of formula I, or a pharmaceutically acceptable salt, solvate or stereoisomer thereof, which exhibit the properties of a CDK7 inhibitor, as well as to a pharmaceutical composition containing said compounds, methods for treating diseases or

disorders, and the use of said compounds or composition as pharmaceutical preparations for treating diseases or disorders.

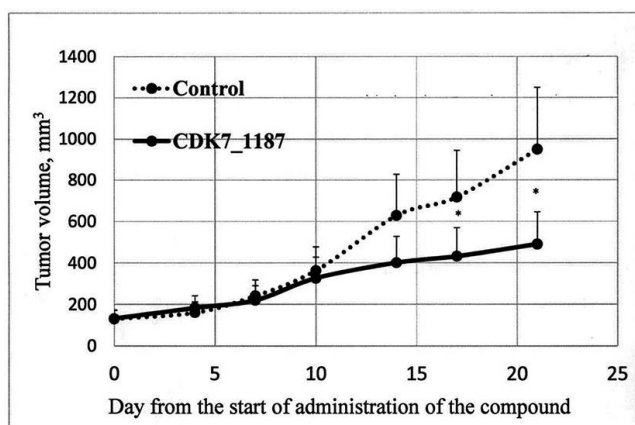
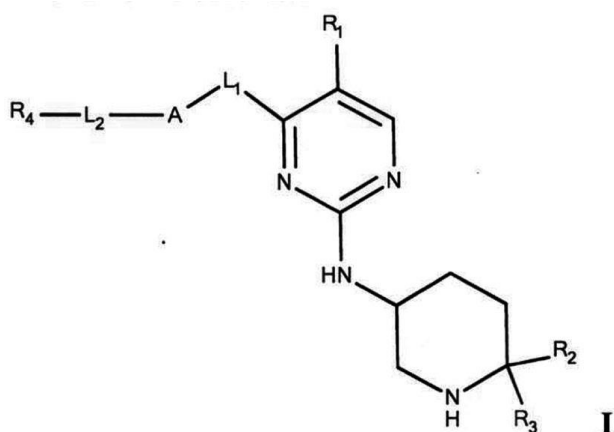


Fig.1

Formula I & Fig. 1

(11) **22164**[Consulter le mémoire](#)

(51) H04N 19/149 (2023.01)

(21) **1202500083 - PCT /CN2023/090443**

(22) 24/04/2023

(30) **EP n° 22306424.7 du 27/09/2022**(54) **Encoding/Decoding Video Picture Data.**

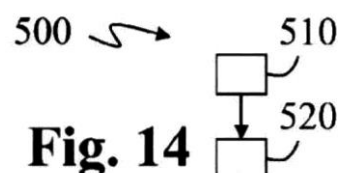
(72) ANDRIVON, Pierre (US);
LELEANNEC, Fabrice (US) et
RADOSA VLJEVIC, Milos (US)

(73) **Dolby Laboratories International Services (Beijing) Co., Ltd.**, Room 907-916, Level 9, World Financial Center, West Building, No.1, East 3rd Ring Middle Road, Chaoyang District, BEIJING 100020 (CN)

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL**, The House of Gideon, Golf/Bastos Quarters, opposite The American Embassy, Entrance-Saint John Paul II Boulevard, P.O. Box 8211, YAOUNDE (CM).

(57)

The present disclosure relates to encoding/decoding a block of samples of a video picture in which a DIMD mode is derived for luma and chroma samples of a sample block to be predicted by filtering samples of at least one template area, said filtering using filtering Windows centered at middle line sample positions of the at least one template area filtering samples in at least one shaped template area. An integer number of middle line sample positions of the at least one template area at which the filtering Windows are centered, is lower than a total integer number of middle line sample positions of the at least one template area.

(11) **22165**[Consulter le mémoire](#)

(51) E21B 17/01 (2023.01);

E21B 17/02 (2023.01);

E21B 19/22 (2023.01);

F16L 1/12 (2023.01)

(21) **1202500091 - PCT/US2023/035135**

(22) 13/10/2023

(30) **US n° 63/415, 889 du 13/10/2022 et**
US n° 63/415, 886 du 13/10/2022

(54) **Vortex-Induced Vibration (Viv) Suppression Apparatus And Method Of Installation.**

(72) KATTERHENRY, Brian Michael (US);
 HENDERSON, Neil Sutherland (US);
 HEINEN, Erich Thomas (US);
 WATSON, Paul Anthony (US) et
 PARK, Gavin (US)

(73) **J. Ray McDermott, S.A.**, 915 N. Eldridge Parkway, Houston, Texas 77079 (US)

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL**, The House of Gideon, Golf/Bastos Quarters, opposite The American Embassy, Entrance-Saint John Paul II Boulevard, P.O. Box 8211, YAOUNDE (CM).

(57)

A method for installing a vortex-induced vibration (VIV)-suppression assembly includes introducing a VIV-suppression device or apparatus to a tubular member above a surface of a body of water such that the tubular member is at least partially enveloped, introducing the unsecured VIV-suppression device or apparatus around the tubular member into the body of water, positioning the unsecured VIV-suppression device or apparatus along the riser length of the tubular member, and securing the unsecured VIV-suppression device or apparatus along the riser length of the tubular member. A loaded VIV-suppression device spool comprises one or more VIVsuppression device or apparatus having a unitary length in a range of from 12 meters (m) to 6,000 meters, comprised of an elastic polymeric material, and wrapped around a hub of the spool in an extended, ribbon-like configuration under tension.

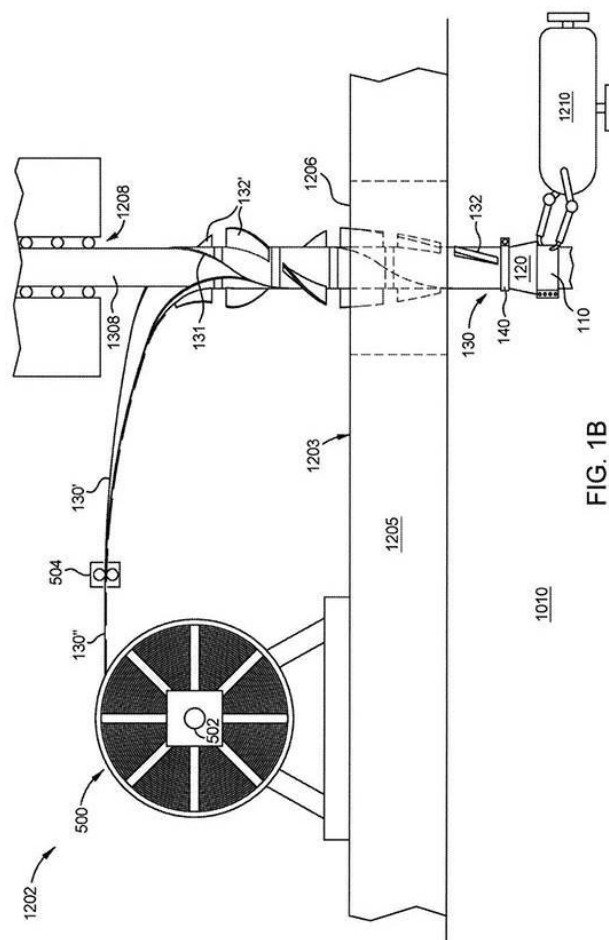


Fig. 1B

(11) **22166**

[Consulter le mémoire](#)

(51) A61K 31/00 (2023.01) ;
 A61K 9/50 (2023.01)

(21) **1202500093 - PCT/US2023/081023**

(22) 23/11/2023

(30) **US n° 63/427, 480 du 23/11/2022 et
 EP n° 22208994.8 du 23/11/2022**

(54) **Modified-Release Silodosin Compositions And Use Thereof In Methods For Male Contraception.**

(72) EL GLAOUI, Guillaume (LU);
 EL GLAOUI, Mehdi (LU);
 AGATHON-MERIAU, Véronique (LU);
 TULLI-CORTES, Marguerite (FR);
 ANGOT, Stéphanie (FR) et
 REVEL, Jérôme (FR)

(73) **Pharmajor Incorporated**, 1209 Orange Street, WILMINGTON, Delaware 19801 (US)

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL**, The House of Gideon, Golf/Bastos Quarters, opposite The American Embassy, Entrance-Saint John Paul II Boulevard, P.O. Box 8211, YAOUNDE (CM).

(57)

The present disclosure relates to modified-release silodosin compositions including at least one pellet that comprises a silodosin drug layer and an extended-release coating. The drug layer may comprise silodosin and a binder. The pellet may further comprise a sealing coating. The pellet may further comprise an enteric coating. The present disclosure further relates to the use of the compositions described in methods for male contraception. The present disclosure further relates to processes for manufacturing a pellet or dosage form as described herein.

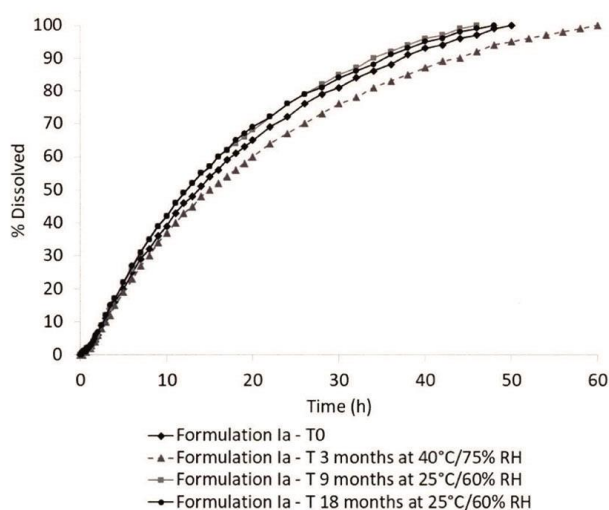


Fig. 4

(11) **22167**

[Consulter le mémoire](#)

(51) B01D 21/01 (2023.01);
C08L 33/26 (2023.01);
C08L 53/00 (2023.01)

(21) **1202500112 - PCT /CA2023/051402**

(22) 20/10/2023

(30) **US n° 63/417989 du 20/10/2022**

(54) **Compositions of cationic polyacrylamides, cationic polymer-surfactant aggregates and glycerol based surfactants and methods for their use in flocculation.**

(72) CARLSON Michael (CA);
HAZIN Khatera (CA);
ALIPOORMAZANDARANI Niloofar (CA);
PERRY Mitchell (CA) et
MARTIN Jessica (CA)

(73) **Carbonet Nanotechnologies Inc.**, 301-980 George St., VANCOUVER, British Columbia V6A 0H9 (CA)

(74) **Cabinet ÉKÉMÉ LYSAGHT SARL**, B.P. 6370, YAOUNDE (CM).

(57)

Provided are compositions comprising a cationic block co-polymer and a cationic polyacrylamide where the cationic polyacrylamide has a charge density in a range of from 2% to 100% In some embodiments, the cationic block co-polymer is part of a cationic polymer surfactant aggregate. The compositions may be used for removing solids from a solid liquid mixture. The methods may comprise: adding a composition to the solid-liquid mixture, b) agitating the solid liquid mixture together with the composition, and c) removing solids from the agitated mixture. The methods may comprise: a) mixing a cationic polyacrylamide polymer with a cationic polymer surfactant aggregate, thereby forming a conditioned flocculant; b) agitating the conditioned flocculant with the solid-liquid mixture, thereby forming an agitated mixture, and c) removing solids from the agitated mixture.

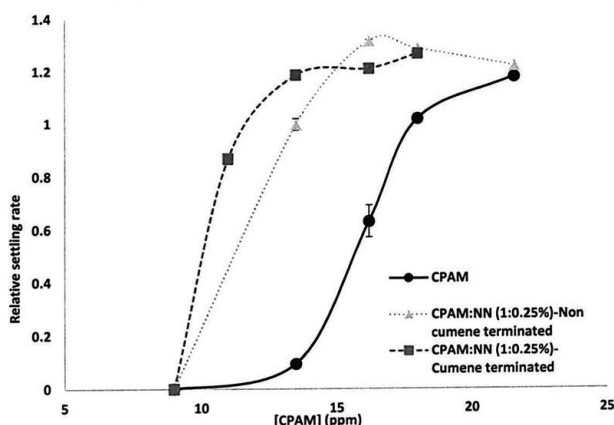


Fig. 24

(11) **22168**[Consulter le mémoire](#)(51) A23G 1/08 (2023.01) ;
B30B 9/04 (2023.01)(21) **1202500122 - PCT/EP2023/079953**

(22) 26/10/2023

(30) EP n° 22203913.3 du 26/10/2022

(54) **A robust press for processing fat containing mass.**(72) HUIJBERS, Hans (NL) et
VAN KAMPEN, Dirk (NL)(73) **ROYAL DUYVIS WIENER B.V.**,
Schipperlaan 15, 1541 KD KOOG AAN DE
ZAAN (NL)(74) **S.C.P AKKUM, AKKUM & Associates, No. 1777, rue 6.261, Yaoundé 2, Auditorium Jean Paul II boulevard, Face Brigade de Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE (CM).**

(57)

The invention relates to a press (1) for separating fat containing mass, in particular mass from oily seeds, such as cocoa mass, into fat, in particular liquid fat, and cake, comprising an hydraulic cylinder (2) and plunger (3), a retainer (4), and a plurality of parallel guide beams (5), extending between the hydraulic cylinder and the retainer, the hydraulic cylinder, beams, and retainer together forming a frame, and a plurality of pressing elements (7) disposed in the frame and

slidingly mounted on the guide beams, the pressing elements comprising a pot (8) having a cavity for receiving mass to be pressed and a squeezer (9) having a plug (10) located at least partially in the cavity, characterized by the combination of i) the guide beams (5) extending through mounting sections of the pots (8) and squeezers (9), which mounting sections surround the guide beams, and ii) the plugs (10) of the squeezers (9) facing towards the plunger (3).

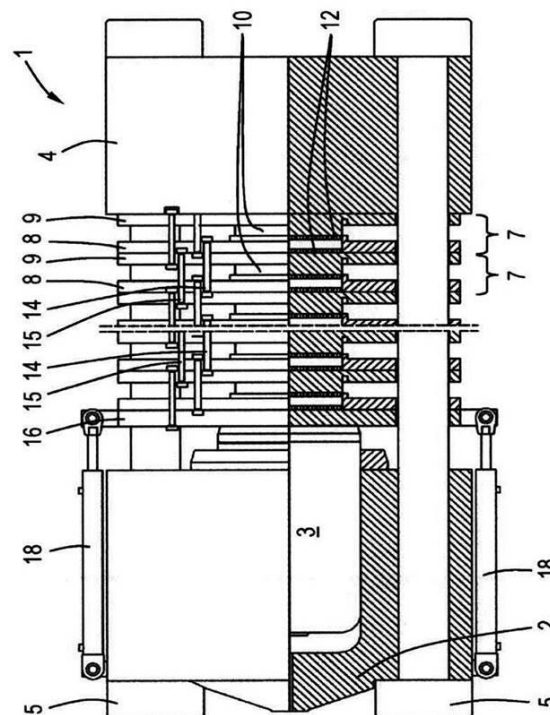


Fig. 1

Fig. 1

(11) **22169**[Consulter le mémoire](#)(51) A61K 38/00 (2023.01);
A61K 8/64 (2023.01);
A61P 17/14 (2023.01);
A61Q 7/00 (2023.01);
C07K 5/072 (2023.01) ;
C07K 5/11 (2023.01)(21) **1202500144 - PCT/KR2023/017241**

(22) 01/11/2023

(30) KR n° 10-2022-0155815 du 18/11/2022

(54) **Peptide Having Activities To Promote Hair Growth And Ameliorate Damaged Hair, And Use Thereof.**

(72) CHUNG, Yong Ji (KR) et
KIM, Eun Mi (KR)

(73) **Caregen Co., Ltd.**, 46-38, LS-ro 91 beon-gil, Dongan-gu, Anyang-si, GYEONGGI-DO 14119, Korea (Republic of) (KR)

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL, The House of Gideon, Golf/Bastos Quarters, Opposite The American Embassy, Entrance-Saint John Paul II Boulevard, B.P. 8211, YAOUNDE (CM).**

(57)

Provided are a peptide having hair growth promoting and damaged hair improving activity and uses thereof. Provided are a peptide consisting of an amino acid sequence represented by Arg-Cys-Cys-Gly or Glu-Glu, a cosmetic composition for improving condition of damaged hair including the peptide, a cosmetic composition for alleviating hair loss or promoting hair growth including the peptide, and a pharmaceutical composition for preventing or treating hair loss including the peptide.

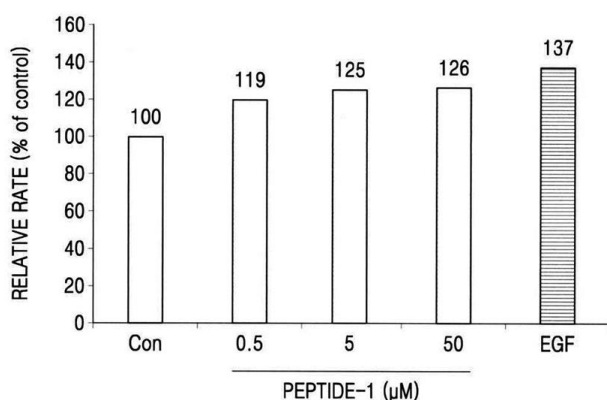


Fig. 1

(11) **22170**

[Consulter le mémoire](#)

(51) G06Q 10/0631 (2023.01)

(21) **1202500148 - PCT/CN2023/133187**

(22) 22/11/2023

(30) **CN n° CN202311168610.8 du 11/09/2023**

(54) **Freight railway dispatching and train control coordination method and system.**

(72) Ming XIA (CN);
Jiao LIU (CN);
Xiaowei HOU (CN);
Hao LAI, Room (CN);
Hongjun JIANG (CN) et
Feng XUE (CN)

(73) **CASCO SIGNAL LTD.**, Room 1101, Lane 1401, No.21, Jiangchang Rd. Jing'an District, SHANGHAI 200072 (CN)

(74) **SCP Cabinet NGO MINYOGOG & ASSOCIES, Sis derrière Immeuble ancien FONADER, B.P. 20501, YAOUNDE (CM).**

(57)

The present disclosure provides a collaborative method for dispatching and train control of a freight railway, including the following steps: performing feature extraction on basic data, dispatching command data and train operation data of a freight railway line to construct a system model; acquiring various data in a train control production system, simulating a train operation process and a dispatching command strategy in the constructed system model in conjunction with an actual transport production plan, and deducing in real time optimization solution strategies of the system model in various set scenarios; evaluating the optimization solution strategies; and applying an optimization solution strategy satisfying requirements in evaluation to the train contrai production system to guide actual transport production. The present disclosure breaks down the information barrier of a dispatching system and a train control system, thereby effectively improving the transport efficiency of the freight railway.

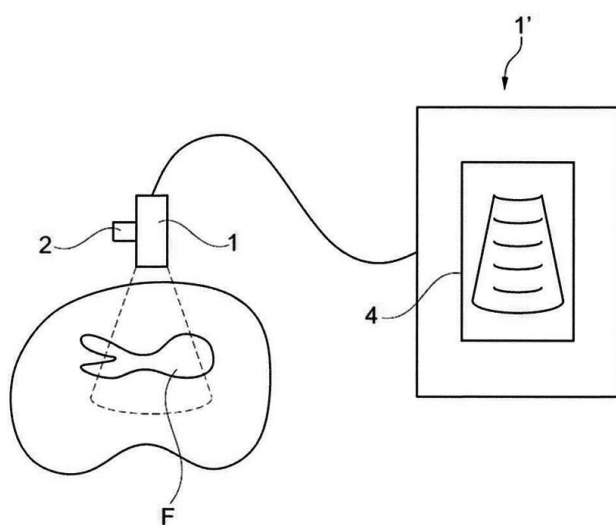


Fig. 2A

(11) **22172**[Consulter le mémoire](#)

(51) B65G 11/00 (2023.01);
B65G 11/16 (2023.01);
B65G 11/18 (2023.01);
B65G 11/20 (2023.01);
F16B 21/04 (2023.01)

(21) **1202500159 - PCT/AU2023/050809**

(22) 23/08/2023

(30) **AU n° 2022903839 du 14/12/2022**(54) **A Wear Member Retaining Assembly.**

(72) RUGGIERO, Bruno (AU)

(73) **Lycopodium Minerals Pty Ltd**, Unit 4, 27
Godwin Street, BULIMBA, Queensland 4171 (AU)

(74) **SPOOR & FISHER Inc. NGWAFOR &
PARTNERS SARL**, The House of Gideon,
Golf/Bastos Quarters, Opposite The American
Embassy, Entrance-Saint John Paul II
Boulevard, B.P. 8211, YAOUNDE (CM).

(57)

A wear member retaining assembly for retaining a wear member to a structure including, a retainer and a key. The retainer has an aperture with at least one channel. The key has a first end engageable with the retainer. The first end has at least one protrusion that is receivable by the at least one channel. The key includes a key shank and a key head. The key head is attachable to the

key shank. The wear member retaining assembly has an unlocked position where the key is removable from the retainer and a locked position where the first end of the key is engaged with the retainer. The first end of the key is movable relative to the retainer from the unlocked position to the locked position. When the wear member retaining assembly is in the locked position the key head is attached to the key shank and the key head abuts a portion of the wear member.

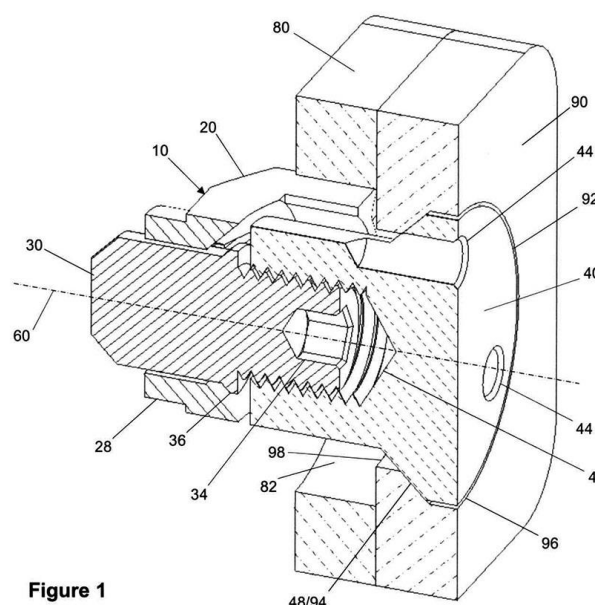


Figure 1

(11) **22173**[Consulter le mémoire](#)

(51) E21B 43/00 (2023.01) ;
F16L 15/04 (2023.01)

(21) **1202500172 - PCT/JP2023/044467**

(22) 12/12/2023

(30) **JP n° 2022-206456 du 23/12/2022**(54) **Oil-Well Metal Pipe.**

(72) KURANISHI, Takao (JP);
AKIOKA, Koji (JP);
MATSUYAMA, Tomoya (JP) et
YAMAOKA, Ikuro (JP)

(73) **1-Nippon Steel Corporation**, 6-1,
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8071 (JP) et

2-Vallourec Oil and Gas France, 54 rue Anatole
France, AULNOYE-AYMERIES 59620 (FR)

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL, The House of Gideon, Golf/Bastos Quarters, Opposite The American Embassy, Entrance-Saint John Paul II Boulevard, B.P. 8211, YAOUNDE (CM).**

(57)

An oil-well metal pipe having excellent galling resistance and, in addition, being capable of keeping resistance of a threaded connection to being loosened even in a case where fastening and loosening are repeated is provided. An oil-well metal pipe (1) according to the present disclosure includes a pipe body (10) including a first end portion (10A) and a second end portion (10B). The pipe body (10) includes a pin (40) formed on the first end portion (10A) and a box (50) formed on the second end portion (10B). The pin (40) includes a pin contact surface (400) including an external thread part (41). The box (50) includes a box contact surface (500) including an internal thread part (51). The oil-well metal pipe (1) further includes a resin coating (100) formed as an uppermost layer on the pin contact surface (400) and/or on the box contact surface (500). The resin coating (100) contains epoxy resin and organic carboxylic acid.

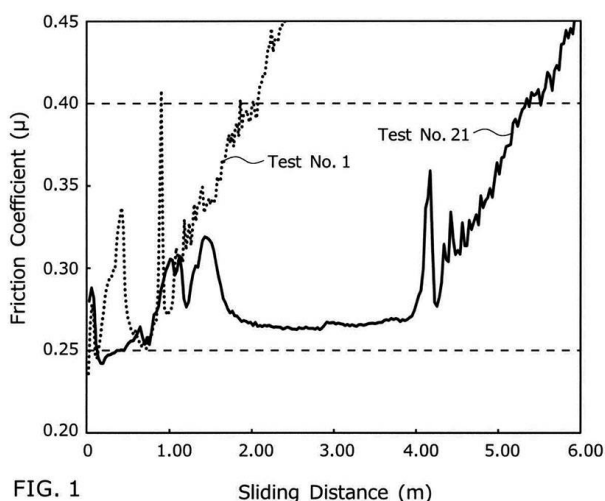


FIG. 1

Sliding Distance (m)

(11) **22174**

[Consulter le mémoire](#)

(51) F04D 29/42 (2023.01) ;

F04D 7/04 (2023.01)

(21) **1202500180 - PCT/EP2023/084064**

(22) 04/12/2023

(30) **SE n° 2350064-8 du 25/01/2023**

(54) **A Liner Arrangement For A Centrifugal Pump For Processing Slurries.**

(72) **TUOMISALO, Aki (FI)**

(73) **Metso Sweden AB, Pulpetgatan 20, 215 37 MALMÖ (SE)**

(74) **SPOOR & FISHER Inc. NGWAFOR & PARTNERS SARL, The House of Gideon, Golf/Bastos Quarters, Opposite The American Embassy, Entrance-Saint John Paul II Boulevard, B.P. 8211, YAOUNDE (CM).**

(57)

The disclosure relates to a liner arrangement (1) for a centrifugal pump (2) for processing slurries, the centrifugal pump (2) comprising an impeller and a drive shaft (6) connected with a back portion of the impeller (3). The liner arrangement comprises a back liner (10) arrangeable around at least the back portion of the impeller and around the drive shaft, and a complementary liner (20) arrangeable at the drive shaft and at a central back portion (5) of the impeller (3). The back liner comprises an inclined back liner portion (11) providing an inclined back liner surface (12) and the complementary liner (20) comprises an inclined complementary liner surface (22). The inclined back liner surface (12) is opposite the inclined complementary liner surface (22). The liner arrangement (1) is configured to provide a channel (30) between the inclined back liner surface (12) and the inclined complementary liner surface (22). The disclosure further relates to a centrifugal pump (2) for processing slurries comprising the sealing arrangement.

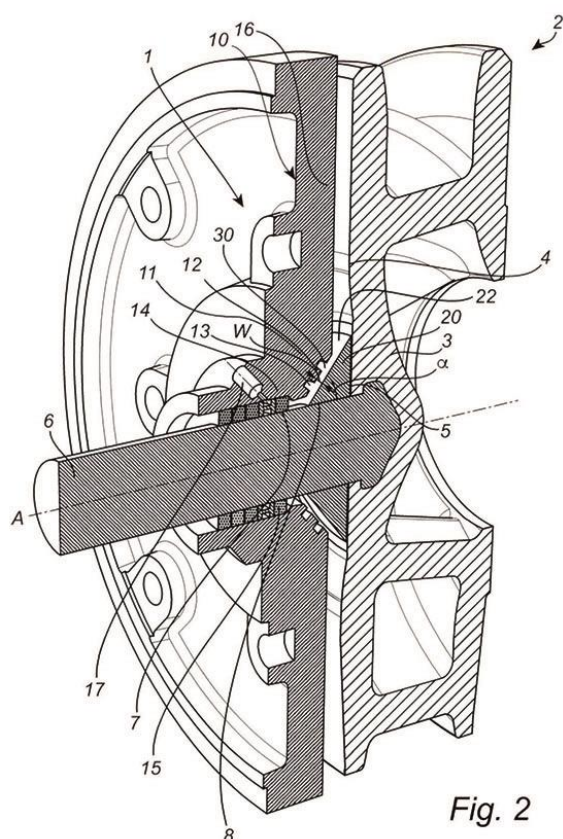


Fig. 2

(11) **22175**[Consulter le mémoire](#)

(51) C22B 1/24 (2023.01);

C22B 1/243 (2023.01)

(21) **1202500199 - PCT/BR2023/050498**

(22) 26/12/2023

(30) **BR n° 1020230002650 du 06/01/2023 et**
BR n° 1020230256260 du 06/12/2023(54) **Process For Production Of Iron Ore Agglomerate For Use In Direct Reduction Reactors And The Agglomerated Product.**(72) DUTRA, Flavio de Castro (BR);
DE RESENDE, Valdirene, Gonzaga (BR);
PARREIRA Fabricio Vilela (BR) et
PIMENTA, Felipe Viana (BR)(73) **VALE S.A.**, Torre Oscar Niemeyer - Praia de Botafogo n° 186, salas 1101, 1701 e 1801, Botafogo, 22250-145, RIO DE JANEIRO – RJ (BR)(74) **S.C.P AKKUM, AKKUM & Associates, No. 1777, rue 6.261, Yaoundé 2, Auditorium Jean**

Paul II boulevard, Face Brigade de Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE (CM).

(57)

The process for producing iron ore agglomerates for use in direct réduction furnaces involves dispersing nanomaterial in a binder, combining it with iron ore fines and/or steelmaking by-products along with additives, adjusting moisture, carrying out agglomération, curing the agglomerate, and applying a surface coating to mitigate the sticking effect within direct réduction furnaces.

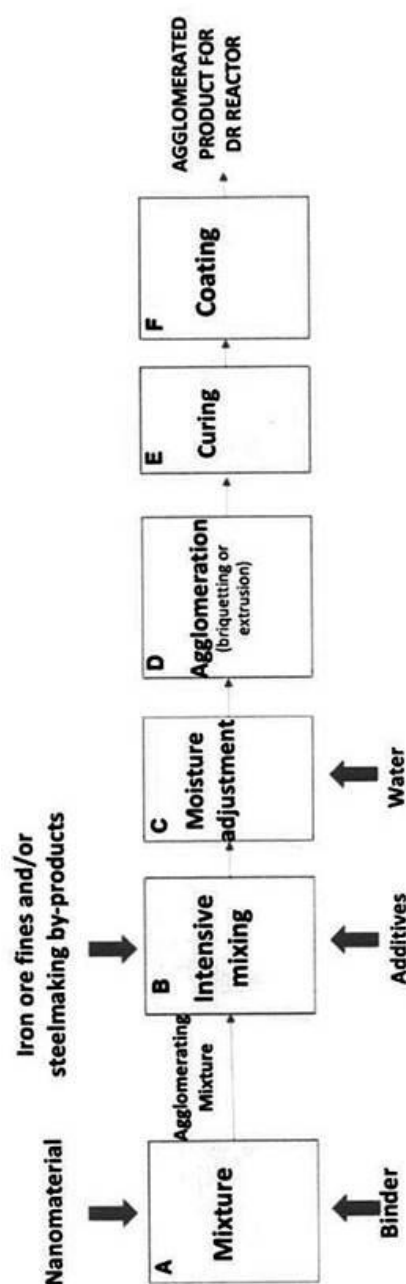


Fig. 1

(11) **22176**[Consulter le mémoire](#)

(51) C01G 31/00 (2023.01)

(21) **1202500210 - PCT/CN2023/128452**

(22) 31/10/2023

(30) **CN n° 202310080493.3 du 13/01/2023**(54) **Method for producing ammonium polyvanadate from high-sodium and high-oxalate vanadium slag.**

(72) QI, Lijuan (CN);
 WEI, Shuyao (CN);
 KANG, Shaojie (CN) et
 YANG, Guili (CN)

(73) **ZHENGZHOU NON-FERROUS METALS RESEARCH INSTITUTE CO. LTD OF CHALCO**,
 No. 82 Jiyuan Road, Shangjie District Zhengzhou,
 Henan 450041 (CN)

(74) **Arielle MPECK & PARTNERS, 3rd Floor Ndema Mpako Building, opposite Omnisports Stadium, DOUALA (CM).**

(57)

A method for producing an ammonium polyvanadate from a high-sodium and high-oxalate vanadium slag is disclosed according to the disclosure, including: dissolving and performing a first pH adjustment on a vanadium slag to be treated to obtain a vanadium-containing solution; performing a sodium removal treatment and impurity removal treatment on the vanadium-containing solution to remove sodium ions, fluoride ions, phosphate radical and oxalate radical in the vanadium-containing solution to obtain a vanadium precipitation solution; and performing an acidic vanadium precipitation on the vanadium precipitation solution to obtain an ammonium polyvanadate.

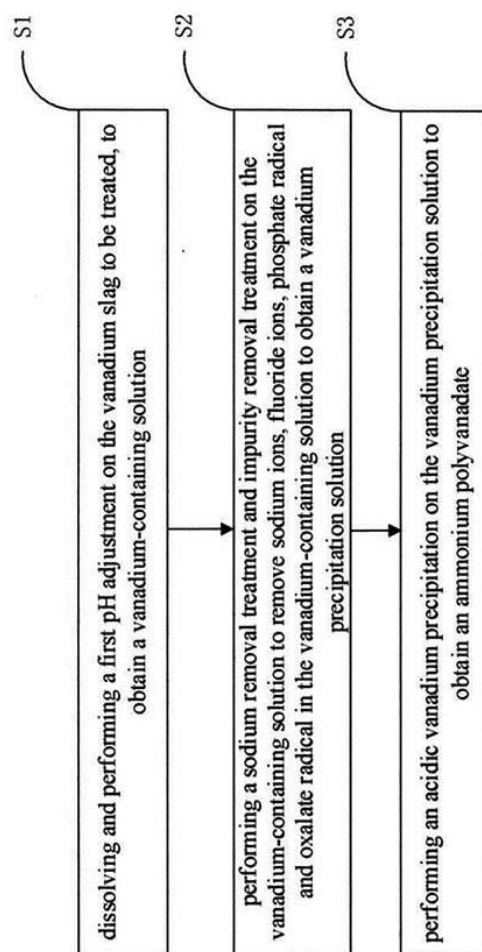


FIG. 1

Fig. 1

(11) **22177**[Consulter le mémoire](#)

(51) B02C 21/02 (2023.01);

B07B 1/00 (2023.01) ;

B60P 3/00 (2023.01)

(21) **1202500219 - PCT/FI2024/050033**

(22) 29/01/2024

(30) **FI n° 20235101 du 03/02/2023**

(54) **Mineral material processing plant with multifunctional support legs.**

(72) SALO, Lasse (FI)

(73) **Metso Finland Oy**, Rauhalanpuisto 9, 02230

ESPOO (FI)

(74) **ALEMBONG OSWALD AMIN, S/C VON SEIDELS CAMEROON SARL**, Suite 516 Commercial Bank Building, Quartier Intendance (adjacent Espace Landmark), B.P. 30188, YAOUNDE (CM).

(57)

A frame arrangement for a mineral material processing plant (100), comprising a transport frame (10) comprising a transport base (20); an actuator frame (40) detachably attached to the transport frame and configured to support an actuator (30) comprising a mineral material crusher or a screen; a set of first support legs, said set of first support legs comprising at least two first support legs (50a, 50b); wherein each first support leg is attached to the actuator frame (40); and each first support leg comprises a hydraulically extendable leg configured to be extended from a transport position to a first position and to a second position; wherein the first position comprises a position in which the transport base (20) is raised from the ground; and the second position comprises a position in which the actuator base (40) is detached from the transport frame (10) and raised above it.

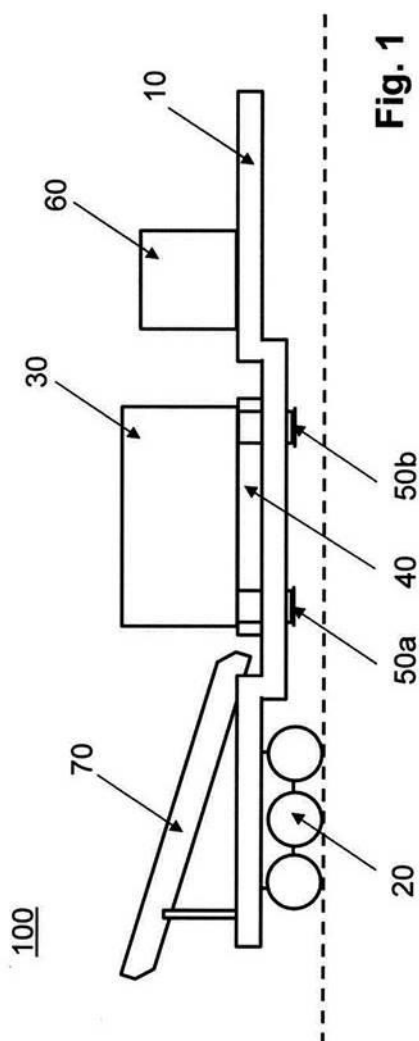


Fig. 1

(11) **22178**

[Consulter le mémoire](#)

(51) E02F 9/26 (2023.01)

(21) **1202500224 - PCT/EP2024/052154**

(22) 30/01/2024

(30) **EP n° 23154320.8 du 31/01/2023**

(54) **Provision of feedback to an operator of a mining vehicle.**

(72) MATTILA, Esa (FI)

(73) **SANDVIK MINING AND CONSTRUCTION OY**, Pihtisulunkatu 9, 33330 TAMPERE (FI)

(74) **S.C.P AKKUM, AKKUM & Associates**, No. 1777, rue 6.261, Yaoundé 2, Auditorium Jean Paul II boulevard, Face Brigade de

Gendarmerie, Mbankolo, B.P. 4966, YAOUNDE (CM).

(57)

According to an aspect, an apparatus for a mining vehicle may be configured to obtain, from at least one memory, mining vehicle reference performance data; obtain first machine control data associated with the mining vehicle, when an operator operates the mining vehicle; compare the first machine control data associated with the mining vehicle to the mining vehicle reference performance data to detect at least one first deviation from the mining vehicle reference performance data; and provide a first feedback to the operator in response to detecting the at least one first deviation from the mining vehicle reference performance data.

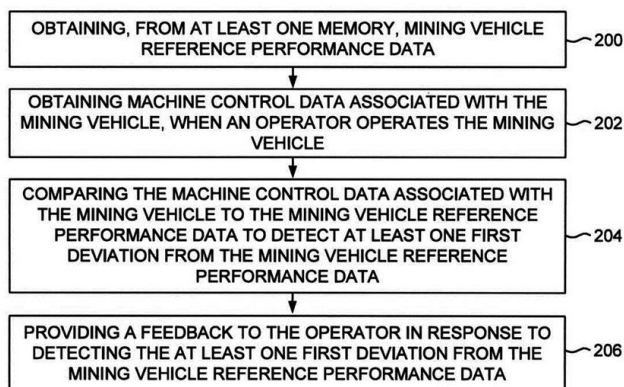


Fig. 2

(11) **22179**

[Consulter le mémoire](#)

(51) B05B 1/14 (2023.01)

(21) **1202500228 - PCT/EP2024/050778**

(22) 15/01/2024

(30) **FR n° FR2300885 du 31/01/2023**

(54) **Two-phase fogging jet nozzle.**

(72) ISSLER, Thomas (FR) et
TESTA, Fabian (FR)

(73) **1-ÉTAT FRANÇAIS REPRÉSENTÉ PAR LE PRÉFET DE POLICE, AGISSANT AU NOM ET POUR LE COMPTE DE LA VILLE DE PARIS, RELATIVEMENT À LA BRIGADE DE**

SAPEURS-POMPIERS DE PARIS, 1 Place Jules Renard, 75017 PARIS (FR) et

2-ZELUP, 38 rue de l'Université, 69007 LYON (FR)

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(57)

The invention relates to a device for generating a two-phase fluid jet, the device comprising a rotary nozzle. The device comprises:

- a fixed base (10) having:
- a central connector (14) for connecting an inlet of a first phase, opening out at the center of the inner surface of the fixed base;
- a peripheral connector (13) for connecting an inlet of a second phase, opening out at the periphery, in an annular region, of the inner surface of the fixed base;

- a fixed body (20) which is secured to the base and comprises :

- a central channel (34) for passage of the first phase;
- surrounded by a coaxial annular chamber (46) for

passage of the second phase;

- a body (30) which is rotatable about an axis corresponding to the longitudinal axis (21) of the fixed body and which has at least one rotating seam arranged in the interface with the fixed body;

- the rotary body (30) having a connector for receiving a two-phase diffusion nozzle (40) having a longitudinal axis (41) which is not aligned with the longitudinal axis (21) with the fixed body (20);

- a central channel (100) for supplying the nozzle with the first phase, the port opening out at the upstream face of the body via an opening that opens out in the central channel;

- and at least one peripheral channel (102) which communicates with the coaxial annular chamber for passage of the second phase;

- the body comprising a means for being driven in rotation with respect to the fixed body.

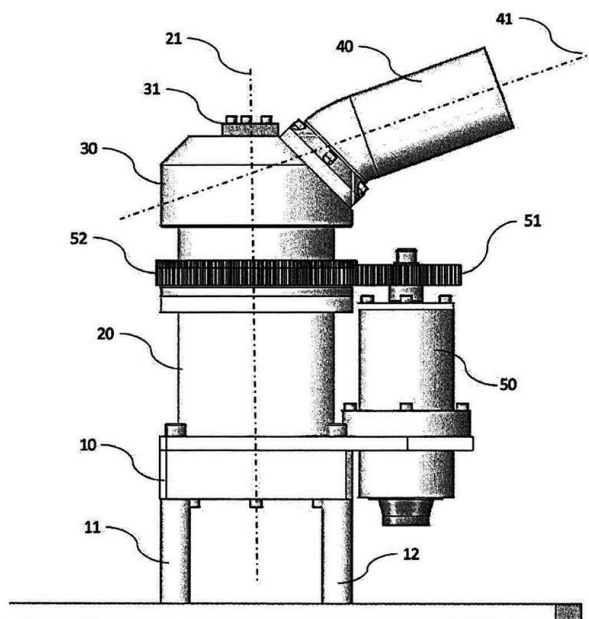


Fig. 1

The invention relates to a torpedo amphibious tube (12) that is deployed by and remote-controlled from a land-based vehicle, and can operate amphibiously, dive and be brought back and used again.

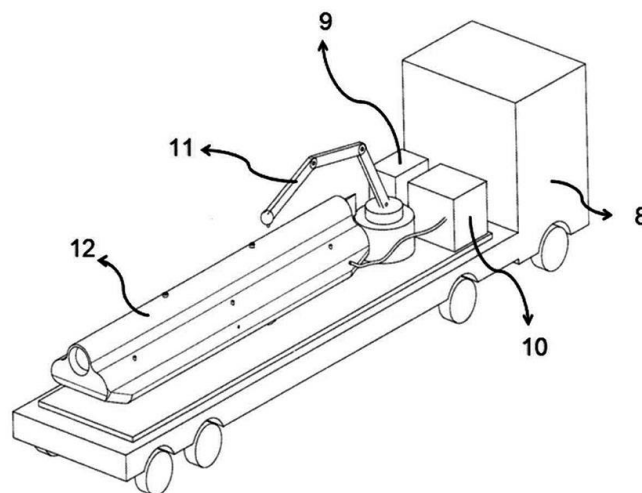


Figure - 1

Figure 1

(11) **22180**

[Consulter le mémoire](#)

(51) B63G 8/32 (2023.01) ;
F41F 3/08 (2023.01)

(21) **1202500247 - PCT/TR2024/050113**

(22) 14/02/2024

(30) TR n° 2023/001752 du 15/02/2023

(54) **Amphibious Torpedo Tube Launching System.**

(72) GÖRSEL, Volkan (TR)

(73) **ROKETSAN ROKET SANAYİİ TİCARET A.Ş.**, Kemalpaşa Mahallesi Şehit Yüzbaşı Adem Kutlu Sokak No : 21, 06780 ELMADAĞ/ANKARA (TR)

(74) **AMINOU NDALA TITA, NAT AFRICA, SCI Express Résidence, Immeuble Commercial Bank, 3ème étage, bloc A, Suite 307, Quartier Intendance, (en face de l'Etat-Major de l'Armée de Terre), Rue 5 Mvog Fouda Ada, YAOUNDE (CM).**

(57)

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2	B42D 25/00	22141
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4	A01N 25/00	22145
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27	C09D 11/03	22152
28	C10L 3/10	22162
29	C12M 1/107	22161
30	C12N 15/62	22146

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33	E02F 9/26	22178
34	E21B 17/01	22165
35	F01K 13/00	22151
36	F04D 7/04	22174
37	F16B 21/04	22172
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41	G06F 15/00	22150
42	G06Q 10/0631	22170
43	G06Q 50/20	22153
44	H02J 7/00	22149
45	H04N 19/149	22164

C
REPertoire DES NOMS

1-ALIGOS et 2-EMORY UNIVERSITY THERAPEUTICS, INC. (11) 22136 (51) C07D 207/34
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(11) 22176	(51) C01G	31/00