Arab Republic of Egypt
Ministry of State for Scientific Research
Academy of Scientific Research & Technology

GRANTED PATENTS' ABSTRACTS GAZETTE

"PATENTS ISSUED IN DECEMBER 2019 "

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

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Patent Number	11
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List of Codes of Countries and Regional Organisations Administered by the World Intellectual Property Organisation

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ST	Saotome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TD	Chad
TG	Togo
TJ	Tajikistan
TH	Thailand
TM	Turkmenistan
TN	Tunisia
TR	Turkey
TT	Trindad and Topago
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ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
DECEMBER (2019)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/02/2014** **0293/2014** **July 2019** **02/12/2019** **29517**

(51)	**Int. Cl. [8] A61F 13/15, 13/49**
(71)	**1. UNICHARM CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. ISHIKAWA, Shinichi** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2011-189114 - 31-08-2011** **2. (PCT/JP2012/071339) - 23-08-2012** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**DEVICE FOR MANUFACTURING ABSORBENT ARTICLE**
	Patent Period Started From 23/08/2012 and Will end on 22/08/2032

(57) An absorbent article manufacturing device comprises: a guide mechanism which conveys an elastic member while fluctuating in an intersecting direction; a rotation mechanism which conveys the elastic member which is supplied from the guide mechanism along the outer circumference face; and a cutting mechanism which cuts the elastic member which is conveyed by the rotation mechanism. The guide mechanism further comprises: a first roller; a second roller which is positioned downstream of the first roller; and a fluctuation member which axially supports the first roller and the second roller, and causes the second roller to fluctuate with a fluctuation axle in the direction of the supply of the elastic member to the first roller being the center thereof. The rotation mechanism further comprises: retaining members which are positioned with gaps in the circumference direction and convey the elastic member; and a rotation drive member which changes the speed of the retaining members and moves the retaining members such that the gaps between the retaining members increase.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/07/2015** **1136/2015** **September 2019** **02/12/2019** **29518**

(51)	**Int. Cl. [8] H04W 36/00, 36/30, 36/04**	
(71)	**1. TELEFONAKTIEBOLAGET L M ERICSSON (PUBL) (SWEDEN)** **2.** **3.**	
(72)	**1. DUDDA, Torsten** **2. WAGER, Stefan** **3. BERGSTR?M, Mattias**	**4. MULLER, Walter** **5. XUAN, Zhiyi**
(73)	**1.** **2.**	
(30)	**1. (US) 61/754,322 - 18-01-2013** **2. (PCT/EP2014/050868) - 17-01-2014** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) ADAPTING A MOBILE NETWORK

Patent Period Started From 17/01/2014 and Will end on 16/01/2034

(57) Methods, nodes, computer programs, computer program productsand a mobile network for adapting a mobile network are described.In such a method for adapting a mobile network, a terminal is connected to a first access node of the mobile network via a first connection and to a second access node via a second connection. The first access node controls a data transmission for the terminal and the second access node assists in the data transmission for the terminal. The method comprises determining whether a quality of at least one of the first connection and the second connection is degraded, acquiring quality degradation information about the degradation of the quality of at least one of the first connection and the second connection based on the step of determining, and adapting the mobile network based on the step of acquiring. Thereby a network adaption can be enabled in an easy, efficient and fast way in a case in which at least one of the first connection and second connection may have been degraded or failed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/10/2014** **2014/1718** **May 2019** **02/12/2019** **29519**

(51)	**Int. Cl. [8] F16K 31/52, 31/524, 31/528 & F04B 39/10**
(71)	**1. NUOVO PIGNONE S.R.L. (ITALY)** **2.** **3.**
(72)	**1. Tognarelli Leonardo** **2. BAGAGLI, Riccardo** **3.**
(73)	**1.** **2.**
(30)	**1. (TI) CO2012A000021- 02-05-2012** **2. (PCT/EP2013/059059) - 01-05-2013** **3.**
(74)	**SONIA FAYEK FARAG**
(12)	**Patent**

(54) POSITIVE DRIVE ACTUATED VALVE FOR RECIPROCATING COMPRESSOR AND METHOD

Patent Period Started From 01/05/2013 and Will end on 30/04/2033

(57) Positive drive valve actuating mechanisms useable to operate a valve of a reciprocating compressor for oil and gas industry and related methods are provided. The valve actuating mechanism includes a driver configured to perform a rotating motion and a follower connected to a mobile part of the valve and to the driver. The follower is configured to transform the rotating motion of the driver into a reciprocating motion to open the valve and to close the valve, respectively.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/01/2013** **0157/2013** **August 2019** **03/12/2019** **29520**

(51)	**Int. Cl. [8] H04L 1/00, 1/06, & H04B 7/04**
(71)	**1. FRANCE TELECOM (FRANCE)** **2.** **3.**
(72)	**1. EL ARAB, Ali** **2. HELARD, Maryline** **3. CARLACH, Jean-Claude**
(73)	**1.** **2.**
(30)	**1. (FR) 1056819 - 27-08-2010** **2. (PCT/FR2011/051977) - 29-08-2011** **3.**
(74)	**ABDEL WAHAB MOSTAFA KAMAL**
(12)	**Patent**

(54) METHOD AND DEVICE FOR TRANSMISSION AND RECEPTION IN A MULTI-INPUT MULTI-OUTPUT CHANNEL, DISTRIBUTING A CODE WORD BETWEEN MULTIPLE MAPPING MATRICES

Patent Period Started From 29/08/2011 and Will end on 28/08/2031

(57) The invention relates to a method for transmitting a source binary sequence, including at least one source word x, in a transmission channel. According to the invention, such a method includes the following steps, for at least one source word: error-correcting encoding said source word x, outputting a code word c; matrix mapping said code word c, distributing the bits constituting said code word c within at least two mapping matrices, which are reversible and observe a criterion of uniqueness in the cancellation of the syndrome associated with said code word c; and consecutively transmitting said at least two mapping matrices.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/05/2016** **0840/2016** **June 2019** **03/12/2019** **29521**

(51)	**Int. Cl. C08L 23/06** **8**
(71)	**1. Abu Dhabi Polymers Company Limited (BOROUGE) (UNITED ARAB** **2. EMAIRATES)** **3. BORE ALIS AG (Austria)**
(72)	**1. BURYAK, Andrey** **2. GORIS, Roger** **3. KUMAR, Ashish**
(73)	**1.** **2.**
(30)	**1. (EP) 13194881.2 - 28-11-2013** **2. (PCT/EP2014/075691) - 26-11-2014** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**MULTIMODAL POLYMER**
	Patent Period Started From 26/11/2014 and Will end on 25/11/2034

(57) A polyethylene composition which comprises a multimodal polyethylene polymer having an MFR2 of 0.01 to 0.5 g/10min, a density of at least 954 kg/m3, a Mw/Mn of 12-22, an Mz/Mw of 6 to 8 and wherein Mz/Mw > 10.75 - [0.25 *(Mw/Mn)].

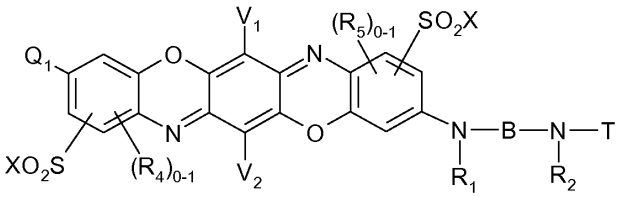
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/04/2010** **0658/2010** **June 2019** **03/12/2019** **29522**

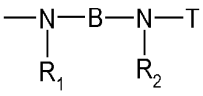
(51)	**Int. Cl. [8] C09B 62/465, 62/503**
(71)	**1. HUNTSMAN ADVANCED MATERIALS (SWITZERLAND) GMBH (SWITZERLAND)** **2.** **3.**
(72)	**1. VERDUGO, Thomas** **2. TZIKAS, Athanassios** **3. ROENTGEN, Georg**
(73)	**1.** **2.**
(30)	**1. (EP) 07119331.2 - 25-10-2007** **2. (PCT/EP2008/063373) - 07-10-2008** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) REACTIVE DYES WITH LIGHT AND WET FASTNESS PROPERTIES

Patent Period Started From 07/10/2008 and Will end on 06/10/2028

(57) The present application relates to reactive days with light and wet fastness properties (1) in which 0.1 is hydrogen, halogen or a radical of the formula (2a) or (2b).





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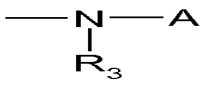


(2b)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/11/2007** **1331/2007** **July 2019** **04/12/2019** **29523**

(51)	**Int. Cl. [8] G07C 9/00**
(71)	**1. BUNDESDRUCKEREI GMBH (GERMANY)** **2.** **3.**
(72)	**1. NGUYEN, KIM** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2005 025 806.9 - 02-06-2005** **2. (PCT/EP2006/062619) - 24-05-2006** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**SYSTEM FOR ACCESSING A DATA OBJECT**
	Patent Period Started From 24/05/2006 and Will end on 23/05/2026

(57) The invention relates to a method for accessing a data station to a data object of a plurality data objects stored in an electronic device, wherein said electronic device comprises an allocation table in which a different security step cryptographic protocol is assigned to different data objects. The inventive method consists first of all in transmitting a request for a desired data object by the data station to the electronic device, in determining the cryptographic protocol for the desired data object by the electronic device with the aid of the allocation table, in carrying out the cryptographic protocol by the electronic device and the data station and in transmitting the desired data object to the data station by the electronic device on condition that the cryptographic protocol is successfully carried out.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/01/2017** **0064/2017** **August 2019** **04/12/2019** **29524**

(51)	**Int. Cl. [8] H04L 29/08 & G07F 17/16 & G06Q 20/34, 30/02**
(71)	**1. THALES (FRANCE)** **2.** **3.**
(72)	**1. WARNITZ, Philippe** **2.**
(73)	**1.**
(30)	**1. (FR) 14 01630 - 18-07-2014** **2. (PCT/EP2015/064160) - 23-06-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) SYSTEM AND METHOD FOR CONTROLLING ACCESS TO A SERVICE OR TO A PLACE

Patent Period Started From 23/06/2015 and Will end on 22/06/2035

(57) The invention relates to a computerized system and method for controlling access to a service and/or to a place, of the type comprising access management devices (1 to 5) making it possible to deliver to a user an access permission, or to permit or validate access by a user to this service and/or to this place. It finds an application in particular in the control of access to a transport network, such as an underground or metro transport network, comprising access management devices such as access gates, devices for selling and/or validating material or virtual transport tickets. Each access management device is identified by a device identifier IDD stored in a database. Means of control of the access management devices make it possible to control the operation of these devices. The database comprises information (8 to17) to be broadcast, identified by an information identifier IDI. also stored in the base. At least one determined device from among the access management devices is associated with at least one information broadcasting means (18 to 27). The control means make it possible to associate in the database the identifier of at least one determined item of information to be broadcast with the identifier of the determined device, so as to allow the management of the broadcasting, by the broadcasting means associated with the determined device, of the item of information determined.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/07/2016** **1133/2016** **June 2019** **04/12/2019** **29525**

(51)	**Int. Cl. [8] F16L 15/04**	
(71)	**1. JFE STEEL CORPORATION (JAPAN)** **2.** **3.**	
(72)	**1. KAWAI, Takamasa** **2. TAKAHASHI, Kazunari** **3. CHIKATSUNE, Hiroshi** **4. YOSHIKAWA, Masaki** **5. TAKANO, Jun**	**6. NAGAHAMA, Takuya** **7. UETA, Masateru** **8. YONEYAMA, Tsuyoshi** **9. SATO, Hideo** **10. SEKI, Haruhiko**
(73)	**1.** **2.**	
(30)	**1. (JP) 2014-002863 - 10-01-2014** **2. (PCT/JP2014/005518) - 30-10-2014** **3.**	
(74)	**COMPANY SMAS INTELLECTUAL PROPERTY**	
(12)	**Patent**	

(54) THREADED JOINT FOR ULTRA THICK OIL WELL PIPE

Patent Period Started From 30/10/2014 and Will end on 29/10/2034

(57) Provided is a threaded joint for heavy-walled oil country tubular goods which can acquire both the ensuring of sealability and the prevention of galling in a state where a high external pressure is also applied to the threaded joint in addition to a high compressive force. A surface of a pin 3 side which forms a seal portion 13 and a surface of a box 1 side which forms a seal portion 11 are formed into a convex curved surface and a tapered surface respectively. With respect to the pin 3, a seal thickness ts of the pin is set to 15 mm or less, a shape parameter ts/D (D: outer diameter of a pin raw pipe portion) is set to 0.045 or more, and a complete thread length ratio L/t (L: complete thread length of the pin, t: wall thickness of the pin raw pipe portion) is set to 4.0 or less.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/03/2010** **0346/2010** **July 2019** **08/12/2019** **29526**

(51)	**Int. Cl. [8] C07K 14/31**
(71)	**1. THROMBOGENICS N.V. (BELGIUM)** **2.** **3.**
(72)	**1. COLLEN, Desire** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/EP2007/008871) - 09-10-2007** **2.** **3.**
(74)	**WAGDY NABEH AZIZ**
(12)	**Patent**

(54) FIBRINOLYTICALLY ACTIVE STAPHYLOKINASE VARIANT

Patent Period Started From 09/10/2007 and Will end on 08/10/2027

(57) The present invention relates to a fibrinolytically active staphylokinase variant exhibiting low T-cell immunogenicity, reduced clearance by circulating antibodies, and can be expressed at high levels, and a composition comprising thereof.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/03/2012** **0459/2012** **August 2019** **08/12/2019** **29527**

(51)	**Int. Cl. [8] E04C 5/01, 5/03 , 5/07**
(71)	**1. CENT & CENT GMBH & CO KG (GERMANY)** **2.** **3.**
(72)	**1. STAHL, Karl-Hermann** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2009 048 751.4 - 08-10-2009** **2. (PCT/DE2010/000787) - 07-07-2010** **3.**
(74)	**GEORGE AZIZ**
(12)	**Patent**

(54)	**METAL FIBER HAVING A CHAMFER IN THE FIBER EDGE EXTENDING IN THE LONGITUDINAL DIRECTION OF THE FIBER**
	Patent Period Started From 07/07/2010 and Will end on 06/07/2030

(57) The metal fiber has fiber outer surfaces oriented substantially at right angles to each other and can also be provided with bent ends in the shape of a clip. The metal fiber is used to stabilize, strengthen, or fasten materials such as concrete, wood, and the like. The fiber edges formed by the fiber outer surfaces of the metal fiber and extending in the longitudinal direction of the fiber are designed as edge surfaces oriented at an angle to the fiber outer surfaces in the manner of a chamfer. Said edge surfaces have projections, which form anchoring heads that are anchored in the materials to be stabilized, strengthened, or fastened.

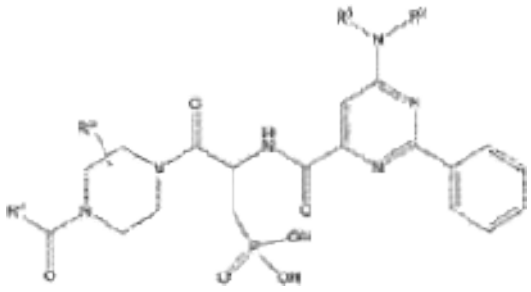
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPTIAN PATENT OFFICE EGPO مكتب براءات الاختراع المصري **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/05/2010** **0866/2010** **August 2019** **08/12/2019** **29528**

(51)	**Int. Cl. [8] A61K 31/495, 31/505, 31/662, 31/675 & A61P 9/00**
(71)	**1. Idorsia Pharmaceuticals Ltd. (SWITZERLAND)** **2.** **3.**
(72)	**1. HUBLER, Francis** **2. MEYER, Emmanuel** **3. CAROFF, Eva** **4. HILPERT, Kurt** **5. RENNEBERG, Dorte**
(73)	**1.** **2.**
(30)	**1. (PCT/IB2007/054850) - 29-11-2007** **2. (PCT/IB2008/055002) - 28-11-2008** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) PHOSPHONIC ACID DERIVATES AND THEIR USE AS P2Y12 RECEPTOR ANTAGONISTS

Patent Period Started From 28/11/2008 and Will end on 27/11/2028

(57) The invention relates to 2-phenyl-pyrimidine derivatives containing a phosphonic acid motif and their use as P2Y12 receptor antagonists in the treatment and/or prevention of peripheral vascular, of visceral-, hepatic- and renal-vascular, of cardiovascular and of cerebrovascular diseases or conditions associated with platelet aggregation, including thrombosis in humans and other mammals. (I).



Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/01/2014** **0079/2014** **August 2019** **08/12/2019** **29529**

(51)	**Int. Cl. [8] B22F 1/00 & B82B 1/00 & C22C 1/05**
(71)	**1. BAKER HUGHES INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. XU, Zhiyue** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 13/220,832 - 30-08-2011** **2. (PCT/US2012/052832) - 29-08-2012** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) NANOSTRUCTURED POWDER METAL COMPACT

Patent Period Started From 29/08/2012 and Will end on 28/08/2032

(57) A powder metal compact is disclosed. The powder metal compact comprises a cellular nanomatrix comprising a metallic nanomatrix material. The powder metal compact also comprises a plurality of dispersed particles comprising a metallic particle core material dispersed in the cellular nanomatrix, the particle core material comprising a nanostructured material.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/10/2015** **1659/2015** **June 2019** **09/12/2019** **29530**

(51)	**Int. Cl. [8] C08F 2/00, C08L 23/14**	
(71)	**1. BOREALIS AG (AUSTRIA)** **2. ABU DHABI POLYMERS CO LTD (BOROUGE) L.L.C (UNITED ARAB EMAIRATES)** **3.**	
(72)	**1. HEDESIU, Cristian** **2. ALASTALO, Kauno** **3. LESKINEN, Pauli**	**4. LILJA, Johanna**
(73)	**1.** **2.**	
(30)	**1. (EP) 13002096.9 - 22-04-2013** **2. (PCT/EP2014/001075) - 22-04-2014** **3.**	
(74)	**AMR MOFED ELDEEP**	
(12)	**Patent**	

(54) TWO-STAGE PROCESS FOR PRODUCING POLYPROPYLENE COMPOSITIONS

Patent Period Started From 22/04/2014 and Will end on 21/04/2034

(57) A process for polymerizing propylene in the presence of a polymerization catalyst by copolymerizing propylene with a comonomer selected from the group of ethylene and C4- C10 alpha-olefins in two polymerization stages. The first polymerization stage is conducted in a loop reactor and the second polymerization stage in a gas phase reactor. The polymer produced in first polymerization stage has a higher melt flow rate and a lower content of comonomer units than the final polymer mixture. The process can be operated with a high throughput and catalyst productivity.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/10/2015** **1660/2015** **May 2019** **06/12/2019** **29531**

(51)	**Int. Cl. [8] C08L 23/14 & C08F 2/00 & F16L 9/12**
(71)	**1. BOREALIS AG (AUSTRIA)** **2. ABU DHABI POLYMERS CO LTD (BOROUGE) L.L.C (UNITED ARAB EMAIRATES)** **3.**
(72)	**1. ALASTALO, Kauno** **2. HEDESIU, Cristian** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13002103.3 - 22-04-2013** **2. (PCT/EP2014/001073) - 22-04-2014** **3.**
(74)	**Amr Mofed El Deeb**
(12)	**Patent**

(54)	**PROPYLENE RANDOM COPOLYMER COMPOSITION FOR PIPE APPLICATIONS**
	Patent Period Started From 22/04/2014 and Will end on 21/04/2034

(57) The present invention relates to a polypropylene composition comprising a multimodal propylene random copolymer (A) with at least one comonomer selected from alpha-olefins with 2 or 4 to 8 carbon atoms and a nucleating agent (B), wherein the polypropylene composition has a Charpy Notched Impact Strength at 23°C of at least 30 kJ/m2, determined according to ISO 179/1eA:2000 using notched injection moulded specimens, a process for producing said polypropylene composition, an article comprising said polypropylene composition and the use of said polypropylene composition for the production of an article.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/01/2014** **0125/2014** **September 2019** **06/12/2019** **29532**

(51)	**Int. Cl. [8] D21H 21/18, 21/20, 27/30, 27/00**	
(71)	**1. GPCP IP HOLDINGS LLC (UNITED ARAB EMAIRATES)** **2.** **3.**	
(72)	**1. SUMNICHT, Daniel W.** **2. MILLER, Joseph H.** **3. SCHUH, Brian J**	**4. LEE, Jeffrey A** **5. RAMIREZ, Alberto J.** **6. ORIARAN, T. Philips**
(73)	**1.** **2.**	
(30)	**1. (US) 61/457,991 - 28-07-2011** **2. (US) 13/548,600 - 13-07-2012** **3. (PCT/US2012/047802) - 23-07-2012**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) HIGH SOFTNESS, HIGH DURABILITY BATH TISSUE WITH TEMPORARY WET STRENGTH

Patent Period Started From 23/07/2012 and Will end on 22/07/2032

(57) A multi-ply bath tissue having no more than three plies and no fewer than two plies. The multi-ply tissue has a basis weight of from about 32.6 to about 57.0 g/m2 and includes from about 3% to about 50% cellulosic microfiber, from about 50% to about 97% wood pulp fibers, has a geometric mean (GM) dry tensile of from about 1.37 to 6.33 N/m per g/m2 of basis weight, a cross-machine direction (CD) dry tensile of between about 2.37 to about 4.74 N/m per g/m2 of basis weight, and sufficient temporary wet strength resin to provide an initial Finch Cup CD wet tensile of from about 0.20 to about 1.58 N/m per g/m2 of basis weight. The initial Finch Cup CD wet tensile decays to less than 65% of the initial value in less than fifteen minutes after immersion in water. The product has a caliper of at least 0.078 mm per 8 sheets per g/m2 of basis weight.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/12/2014** **20142029** **July 2019** **09/12/2019** **29533**

(51)	**Int. Cl. [8] B27M 3/04 & B27F 1/02 & E04F 15/02**
(71)	**1. VALINGE INNOVATION AB (SWEDEN)** **2. VALINGE FLOORING TECHNOLOGY AB(SWEDEN)** **3.**
(72)	**1. PERVAN, Darko** **2. PALSSON, Agne** **3.**
(73)	**1.** **2.**
(30)	**1. (SE) 1250656-4 - 19-06-2012** **2. (US) 61/661,645 – 19-06-2012** **3. (SE) 1250691-1 - 26-06-2012** **4. (SE) 1350027-7 - 11-01-2013** **5. (PCT/SE2013/050718) 18-06-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**A METHOD FOR DIVIDING A BOARD INTO A FIRST PANEL AND A SECOND PANEL AND A METHOD OF FORMING A MECHANICAL LOCKING SYSTEM FOR LOCKING OF A FIRST AND A SECOND PANEL**
	Patent Period Started From 18/06/2013 and Will end on 17/06/2033

(57) The present invention relates to a method for dividing a board into a first panel and a second panel wherein the method comprises the step of displacing the board and dividing the board by a fixed tool, such as scraping or carving tool; and a method of forming a mechanical locking system for locking of a first and a second panel, wherein the method comprises the steps: dividing a board into a first and a second panel and thereby forming a lower protruding part at a first edge of the first panel and a lower groove at a second edge of the second panel, forming a locking element at the lower protruding part, and forming a locking groove at the lower groove .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/04/2015** **0644/2015** **July 2019** **11/12/2019** **29534**

(51)	**Int. Cl. [8] E21B 33/13, 23/06**
(71)	**1. Baker Hughes Incorporated (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. JOHNSON, Michael, H** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 13/671,735 - 08-11-2012** **2. (PCT/US2013/067230) - 29-10-2013** **3.**
(74)	**NAHED WADEA REZQ TARZI**
(12)	**Patent**

(54) PRODUCTION ENHANCEMENT METHOD FOR FRACTURED WELLBORES

Patent Period Started From 29/10/2013 and Will end on 28/10/2033

(57) Wellbores are fractured by setting open hole packers on a string with access through valves on the string between the set packers. Setting the packers creates wellbore stress so that fractures tend to preferentially form near the packers regardless of the orientation of the borehole. When the fracturing is done and the well is put on production some of the proppant comes back into the wellbore and packs around the packers with solids that can be produced from the formation carried by flowing fluids. An annular passage is created near the packer to allow produced fluids to bypass the packed proppant and other solids to get into the production string. A screen protects the passage from clogging so that production is enhanced.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/05/2007** **0257/2007** **October 2019** **11/12/2019** **29535**

(51)	**Int. Cl. [8] C07C 213/02 & C01B 3/08**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. GALAL ABD-EL MOEIN MAHMOUD NAWWAR** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**FOCAL POINT - National Center for Research- REPRESENTED / MAGDA MAHSP MR. AND OTHERS**
(12)	**Patent**

(54)	**PROPER USE OF ALUMINUM WASTE**
	Patent Period Started From 21/05/2007 and Will end on 20/05/2027

(57) Aluminum waste has an economic price in Egypt and it is already collected for different uses. In this invention Aluminum waste used to prepare . Aluminum oxide with deferent grades along with utilization of evolved hydrogen gas and heat in the reduction or hydrogenation of som ordanic compounds such as p-nitro phenol.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/01/2011** **1605/2011** **October 2019** **11/12/2019** **29536**

(51)	**Int. Cl. [8] F27B 3/00, 13/04, 13/22**
(71)	**1. MOHAMED ALI GABER (EGYPT)** **2. RAZK ELSAYED HASSAN** **3.**
(72)	**1. MOHAMED ALI GABER** **2. RAZK ELSAYED HASSAN** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54) FURNACE HEATING A MULTI - STOREY

Patent Period Started From 25/01/2011 and Will end on 24/01/2031

(57) An another rollers for furnace is higer than main row. Furnace contains 3 sections , first and second section on the same distance , third section is low while upper rollers of third section is on the same distance to below rollers of second sector in normanl position . A problem of rolling , slabs are lifted by lifiting tools are found in the bottom of third sector while upper rollers of third sector on the same distance for upper rollers of second sector then slabs was sent to second sector and repeat it till rolling damage finished or full furnace and end casting.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/08/2014** **1293/2014** **October 2019** **11/12/2019** **29537**

(51)	**Int. Cl. [8] A23L 2/54 & B01F 3/04**
(71)	**1. MOHAMED EL SAYED KHALIL (EGYPT)** **2. MOSTAFA MAHMOOD SHAWKY SOLTAN** **3.**
(72)	**1. MOHAMED EL SAYED KHALIL** **2. MOSTAFA MAHMOOD SHAWKY SOLTAN** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**FOCAL POINT - Menoufia University**
(12)	**Patent**

(54)	**DEVICE AND METHOD FOR CONTROLLING OF HYDROGEN ADDITION TO DRINKING WATER**
	Patent Period Started From 11/08/2014 and Will end on 10/08/2034

(57) These device and method for controlling of hydrogen addition to drinking water depending on different and high pressures, without changing in chemical properties of water. This device consisted of four unites:

1)unite of filtration and purification of water from chemical and biological pollutions.

2)unite of water cooling.

3)unite of addition of hydrogen which depends on high pressure and temperature.

4)unite of distribution. This water is suitable for medicals, industries purposes and improvement of psychology of human

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/10/2014** **1736/2014** **October 2019** **11/12/2019** **29538**

(51)	**Int. Cl. [8] F24D 19/10**
(71)	**1. MOHAMED AL-SAYED ABDEL-RAHMAN AL-BAUMY EL-HAGAREY (EGYPT)** **2.** **3.**
(72)	**1. MOHAMED AL-SAYED ABDEL-RAHMAN AL-BAUMY EL-HAGAREY** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**AUTOMATIC HYDRAULIC WATER NOZZLE**
	Patent Period Started From 29/10/2014 and Will end on 28/10/2034

(57) It is an automatic hydraulic water distribution outlet which, installed on water pipes transfer for surface irrigation, which consists of four main components 1 - tube with an internal slop with suffocation, 2 - rebound (disk based on the leg), 3 - helicale compressed spring, 4 - two circular rings according to the previous components, the output is assembled as follows. The output consists of a pipe with an internal slop with a suffocation and a rattlesnake based on a spring. Both the stalk and the spring are anchored to a ring based on a prominent edge of the body. Internal. The output operation theory is based on the distribution of hydraulic water, whenever pressure increases water is exerted on the disk, spring resist the flow until it reaches to equilibrium. The water flow depends on the location of the disk of the reflection for the internal body of the regulator and vice versa, which achieves the the water flow equation inside the closed tubes. This output is characterized by self-regulation of surface irrigation pipes and does not require high operating capacity .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/11/2015** **1752/2015** **October 2019** **11/12/2019** **29539**

(51)	**Int. Cl. [8] G01N 33/24**
(71)	**1. OMAR ZAKARIA MOHAMED HUSSEN (EGYPT)** **2.** **3.**
(72)	**1. OMAR ZAKARIA MOHAMED HUSSEN** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**MEASURING OF LATERAL EARTH PRESSURE DEVICE SET WITHIN SOIL (LATO-METER)**
	Patent Period Started From 04/11/2015 and Will end on 03/11/2035

(57) The measuring device consists of twelve parts of stainless steel cylindrical tubes, internal diameter equals 7.5cm and its thickness equals 0.6 cm. Six of them are non-punched with 35cm length. The other six parts were punched and have 15cm length, every part has two holes on sides, and the distance from center to center of holes is 50 cm. There is a doba is fitted at the end of setup to prevent water from entering the setup. Pressure cells were fitted on the holes to measure the strain that created from the lateral swell earth pressure from the swell of expansive soil. Strain gauge indicator measured the corresponding strain. The calibrating pressure chamber is designed to calibrate the strain gauges (is consisted of part of stainless steel cylindrical tube, internal diameter equals 9.00 cm and its thickness equals 0.6 cm with 25 cm length, airtight from the bottom and from the top of Doba. Connecting wires pass through the strain indicator to the tested strains. It has two opening, one of them to enter the air and the second to measure the air pressure by manometer).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/11/2006** **1110/2006** **April 2019** **11/12/2019** **29540**

(51)	**Int. Cl. [8] A61K 33/06, 33/10, 9/16, 9/20**
(71)	**1. TAKEDA AS (DENEMARK)** **2.** **3.**
(72)	**1. MATHIESEN, Jacob** **2. NIELSEN, Carsten Martini** **3. OLSEN, Peder mohr** **4. Bertelsen,poul,egon**
(73)	**1.** **2.**
(30)	**1. (DK) PA200400813 - 24-05-2004** **2. (PCT/DK2005/000338) – 24-05-2005** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54)	**PARTICULATE COMPRISING A CALCIUM-CONTAINING COMPOUND AND A SUGAR ALCOHOL**
	Patent Period Started From 24/05/2005 and Will end on 23/05/2025

(57) The present invention relates to a particulate material and a solid dosage form notably tablets comprising a regularly shaped calcium-containing compound such as a calcium salt as a therapeutically and/or prophylactically active substance and a pharmaceutically acceptable sugar alcohol such as, e.g., sorbitol and/or isomalt that has a micro structure as evidenced by SEM. The invention also relates to a process for the preparation of the particulate material and solid dosage form. The process involves agglomeration of the calcium-containing compound and the pharmaceutically acceptable sugar alcohol by means of roller compaction. The particulate material obtained by roller compaction is suitable for use in the further processing of the particulate material into e.g. tablets such as chewing tablets.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/03/2016** **0476/2016** **July 2019** **15/12/2019** **29541**

(51)	**Int. Cl. [8] A61K 33/06, 33/10, 9/16, 9/20**
(71)	**1. Bexo AS (NORWAY)** **2.** **3.**
(72)	**1. INGELS, Rune** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (NO) 20131290 - 27-09-2013** **2. (PCT/NO2014/050178) - 29-09-2014** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**FLUID BED CLASSIFICATION ELEMENTS**
	Patent Period Started From 29/09/2014 and Will end on 28/09/2034

(57) The present invention relates to a classifying fluid bed granulation unit,comprising: a perforated bed floor; a fluid bed section; a solid feed inlet or internal crushing device; a fluidization air inlet; a liquid solution or melt feed inlet and nozzles; an air outlet; and a product outlet; wherein said fluid bed section comprises at least one particle classification element comprising one or more vertically inclined channels having top and bottom end feed openings, and wherein the one or more vertically inclined channels have upper and lower side slots .In operation of the above fluid bed granulation unit, each channel of the element is separating particles into large particle and small particle fractions and transporting the large particle fraction upwards and the small particle fraction downwards in each channel. Further, in operation of the fluid bed granulation unit, the large particle and small particle fractions are transported out of the upper and lower side slots, respectively. The invention also relates to a method of fluid bed granulation, and a use of particle classification elements.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/09/2015** **1411/2015** **July 2019** **16/12/2019** **29542**

(51)	**Int. Cl. [8] C01B 21/26, 21/38 & B01J 23/00**	
(71)	**1. THYSSENKRUPP INDUSTRIAL SOLUTIONS AG (GERMANY)** **2.** **3.**	
(72)	**1. SCHWEFER, Meinhard** **2. SIEFERT, Rolf** **3. RUTHARDT, Klaus**	**4. CREMONA, Alberto** **5. VOGNA, Edoardo**
(73)	**1.** **2.**	
(30)	**1. (DE) 10 2013 004 341.7 - 14-03-2013** **2. (PCT/EP2014/000669) - 13-03-2014** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) METHOD FOR OXIDISING AMMONIA AND SYSTEM SUITABLE THEREFOR

Patent Period Started From 13/03/2014 and Will end on 03/03/2034

(57) The invention relates to a method for oxidising ammonia with oxygen in the presence of catalysts containing at least one transition metal oxide that is not an oxide of a platinum metal. The ratio of the molar quantities of oxygen and ammonia at the entry of the reactant gas mixture into the catalyst bed is set to values of less than or equal to 1.75 mol O2/mol NH3. The invention further relates to a system for oxidising ammonia, containing the following elements: A) a reactor for ammonia oxidation equipped with at least one feed line for a reactant gas mixture and with at least one discharge line for a process gas, B) a catalyst (3c) in the interior of the reactor that contains at least one transition metal oxide that is not an oxide of a platinum metal, C) a device for setting a molar ratio of oxygen to ammonia less than or equal to 1.75 mol/mol in the reactant gas mixture by mixing an oxygen-containing gas flow having an O2 content < 20 vol% with a selected quantity of ammonia, the oxygen-containing gas flow being produced c1) by a device for diluting an air flow with a gas flow that contains less than 20 vol%, preferably less than 10 vol%, especially preferably less than 5 vol% oxygen, or c2) by a device for depleting oxygen from an oxygen-containing gas mixture, preferably from air, or c3) by a combination of measures c1 and c2. The system for oxidising ammonia can be integrated into a system for producing nitric acid or caprolactam. The method and system are characterised by high productivity, long service lives and the use of low-cost catalysts.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/12/2015** **2041/2015 D1** **July 2019** **16/12/2019** **29543**

(51)	**Int. Cl. [8] H04W 36/12, 88/14**
(71)	**1. NEC CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. ZEMBUTSU, Hajime** **2. TAMURA, Toshiyuki** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2013-141127 - 04-07-2013** **2. (JP) 2013-187106 - 10-09-2013** **3. (PCT/JP2014/067891) - 04-07-2014**
(74)	**SONYA FAEK FARAG**
(12)	**Patent**

(54) COMMUNICATION SYSTEM, METHOD, AND APPARATUS

Patent Period Started From 04/07/2014 and Will end on 03/07/2034

(57) The present invention achieves a reduction in the cost of equipment of the entire core network and provides an efficient handover function. Using LAPI (low access priority indication) information of an RRC connection request from a terminal, a base station selects a specific mobility management node.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/01/2016** **0092/2016** **August 2019** **18/12/2019** **29544**

(51)	**Int. Cl. [8] B01J 31/14, 31/18 & C07C 2/36**		
(71)	**1. SAUDI BASIC INDUSTRIES CORPORATION (SAUDI ARABIA)** **2. LINDE AG (GERMANY)** **3.**		
(72)	**1. WOEHL, Anina** **2. MEISWINKLE, Andreas** **3. BOELT, Heinz** **4. MUELLER, Bernd H**	**5. MUELLER, Wolfgang** **6. PEULECKE, Normen** **7. ROSENTHAL, Uwe** **8. HARFF, Marco**	**9. AL-HAZMI, Mohammed H** **10. AL-QAHTANI, Abdullah**
(73)	**1.** **2.**		
(30)	**1. (EP) 13178362.3 - 29-07-2013** **2. (US) 62/008,237 - 05-06-2014** **3. (PCT/IB2014/063485) - 28-07-2014**		
(74)	**NAHID WADI RIZK TARAZI**		
(12)	**Patent**		

(54) CATALYST COMPOSITION AND PROCESS FOR OLIGOMERIZATION OF ETHYLENE

Patent Period Started From 28/07/2014 and Will end on 27/07/2034

(57) A catalyst composition including: (a) a chromium compound; (b) a ligand of the general structure (A) R1R2P-N(R3)-P(R4)-NR5R6 or (B) R1R2P-N(R3)-P(XR7)R8 or R1R2P-N(R3)-P(XR7)2, with X = O or S, wherein R1, R2, R3, R4, R5, R6, R7 and R8 are independently C1-C10-alkyl, C6 - C20-aryl, C3-C10-cycloalkyl, aralkyl, alkylaryl, or trialkylsilyl, or any cyclic derivatives of (A) and (B), wherein at least one of the P or N atoms of the PNPN-unit or PNP-unit is a member of the ring system, the ring system being formed from one or more constituent compounds of structures (A) or (B) by substitution; and (c) an activator or co-catalyst; and a process for tri- and/or tetramerization.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/02/2016** **0251/2016** **August 2019** **18/12/2019** **29545**

(51)	**Int. Cl. [8] B65D 43/16, 1/10**
(71)	**1. ALPA Werke Alwin Lehner GmbH & Co. KG** (Austria) **2.** **3.**
(72)	**1. KUENZ, Johann** **2. WESTHOFEN, Christa** **3. GARCIA GRANADOS, Israel**
(73)	**1.** **2.**
(30)	**1. (DE) 01432/13 - 21-08-2013** **2. (PCT/EP2014/002134) - 02-08-2014** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) WIDE-NECK PLASTIC CONTAINER FOR BULK MATERIAL, PRODUCED USING AN EXTRUSION BLOW MOULDING METHOD AND HAVING A CLOSURE CAP

Patent Period Started From 02/08/2014 and Will end on 01/08/2034

(57) The invention relates to a wide-neck plastic container produced using extrusion blow moulding and having a closure cap that can be non-detachably connected to a container neck of the wide-neck plastic container, said container neck having a container opening. A number of locking projections, that are hollow as a result of the manufacturing method, are arranged on an outer wall of the container neck, said projections being distributed over a periphery of the container neck and projecting from the outer wall of the container neck. An inner wall of the casing of the closure cap is provided with corresponding locking recesses. In the case of the closure cap mounted on the container neck, the interlocked locking elements are inaccessibly covered by a section of the casing of the closure cap.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/08/2013** **1288/2013** **August 2019** **24/12/2019** **29546**

(51)	**Int. Cl. [8] G10L 19/14**
(71)	**1. FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN** **2. FORSCHUNG E.V. (GERMANY)** **3.**
(72)	**1. HELMRICH, Christian** **2. FUCHS, Guillaume** **3. MARKOVIC, Goran**
(73)	**1.** **2.**
(30)	**1. (US) 61/442,632 - 14-02-2011** **2. (PCT/EP2012/052396) - 13-02-2012** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) APPARATUS AND METHOD FOR CODING A PORTION OF AN AUDIO SIGNAL USING A TRANSIENT DETECTION AND A QUALITY RESULT

Patent Period Started From 13/02/2012 and Will end on 30/02/2032

(57) An apparatus for coding a portion of an audio signal to obtain an encoded audio signal for the portion of the audio signal comprises a transient detector for detecting whether a transient signal is located in the portion of the audio signal to obtain a transient detection result, an encoder stage for performing a first encoding algorithm on the audio signal, the first encoding algorithm having a first characteristic, and for performing a second encoding algorithm on the audio signal, the second encoding algorithm having a second characteristic being different from the first characteristic, a processor for determining which encoding algorithm results in an encoded audio signal being a better approximation to the portion of the audio signal with respect to the other encoding algorithm to obtain a quality result, and a controller for determining whether the encoded audio signal for the portion of the audio signal is to be generated by either the first encoding algorithm or the second encoding algorithm based on the transient detection result and the quality result .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/08/2016** **1289/2013** **August 2019** **24/12/2019** **29547**

(51)	**Int. Cl. [8] G10L 19/06, 9/14**	
(71)	**1. FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN** **2. FORSCHUNG E.V. (GERMANY)** **3.**	
(72)	**1. SCHUBERT, Benjamin** **2. HELMRICH, Christian** **3. FUCHS, Guillaume**	**4. MARKOVIC, Goran** **5. RETTELBACH, Nikolaus**
(73)	**1.** **2.**	
(30)	**1. (US) 61/442,632 - 14-02-2011** **2. (PCT/EP2012/052455) - 14-02-2012** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) LINEAR PREDICTION BASED CODING SCHEME USING SPECTRAL DOMAIN NOISE SHAPING

Patent Period Started From 14/02/2012 and Will end on 13/02/2032

(57) An encoding concept which is linear prediction based and uses spectral domain noise shaping is rendered less complex at a comparable coding efficiency in terms of, for example, rate/distortion ratio, by using the spectral decomposition of the audio input signal into a spectrogram comprising a sequence of spectra for both linear prediction coefficient computation as well as spectral domain shaping based on the linear prediction coefficients. The coding efficiency may remain even if such a lapped transform is used for the spectral decomposition which causes aliasing and necessitates time aliasing cancellation such as critically sampled lapped transforms such as an MDCT.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/04/2014** **0651/2014** **July 2019** **24/12/2019** **29548**

(51)	**Int. Cl. [8] G10K 9/12 & G01V 1/145**
(71)	**1. PGS Geophysical AS (NORWAY)** **2.** **3.**
(72)	**1. Julie Slaughter Zrostik** **2. Todd Allan Reinders** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/820,645 -07-05-2013** **2. (US) 14/062,147 - 24-10-2013** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) PRESSURE-COMPENSATED SOURCES

Patent Period Started From 24/10/2013 and Will end on 23/10/2033

(57) Embodiments related to sound sources for marine geophysical surveys. An embodiment provides a sound source, comprising: an outer shell containing a first gas at a first gas pressure; and a compliance chamber in indirect fluid communication with the first gas, the compliance chamber containing a second gas at a second gas pressure, wherein the second gas pressure is lower than the first gas pressure. An embodiment provides a sound source for marine geophysical surveys, comprising: an outer shell; a mass coupled to the outer shell; and an actuator coupled to the outer shell. Additional apparatus and methods are disclosed herein.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/09/2015** **1404/2015** **July 2019** **24/12/2019** **29549**

(51)	**Int. Cl. [8] C 07 K 14/62, 19/00, 16/00**	
(71)	**1. HANMI PHARM. CO., LTD. (KOREA)** **2.** **3.**	
(72)	**1. JANG, Myung Hyun** **2. KIM, Min Young** **3. KIM, Dae Jin**	**4. JUNG, Sung Youb** **5. KWON, Se Chang**
(73)	**1.** **2.**	
(30)	**1. (US) 10-2013-0023602 - 05-03-2013** **2. (PCT/KR2014/001818) - 05-03-2014** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54)	**IMPROVED PREPARATION METHOD FOR HIGH-YIELD PRODUCTION OF PHYSIOLOGICALLY ACTIVE POLYPEPTIDE CONJUGATE**
	Patent Period Started From 05/03/2014 and Will end on 04/03/2034

(57) The present invention relates to a method for preparing a conjugate in which a physiologically active polypeptide, a nonpeptide polymer linker, and an immunoglobulin constant region are connected by a covalent bond. More particularly, the present invention relates to a method capable of efficiently preparing a physiologically active polypeptide conjugate by solving the problem of low production yield by using salt in a coupling reaction when preparing the physiologically active polypeptide conjugate. A physiologically active polypeptide-nonpeptide polymer-immunoglobulin constant region conjugate can be prepared in high yield and purity by means of the preparation method of the present invention. In addition, the physiologically active polypeptide conjugate prepared using the method can be effectively used in developing a long-acting formulation of a physiologically active polypeptide which can enhance industrial applicability by reducing manufacturing costs and which can improve a patient's medication adherence.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/08/2013** **1274/2013** **August 2019** **24/12/2019** **29550**

(51)	**Int. Cl. [8] G10L 19/00**
(71)	**1. FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN** **2. FORSCHUNG E.V. (GERMANY)** **3.**
(72)	**1. DIETZ, Martin** **2. SETIAWAN, Panji** **3. WILDE, Stephan** **4. LOMBARD, Anthony**
(73)	**1.** **2.**
(30)	**1. (US) 10-2013-0023602 - 05-03-2013** **2. (PCT/EP2012/052464)- 14-02-2012** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) NOISE GENERATION IN AUDIO CODECS

Patent Period Started From 14/02/2012 and Will end on 13/02/2032

(57) The spectral domain is efficiently used in order to parameterize the background noise thereby yielding a background noise synthesis which is more realistic and thus leads to a more transparent active to inactive phase switching.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/08/2013** **1274/2013** **August 2019** **24/12/2019** **29551**

(51)	**Int. Cl. [8] G10L 19/00**	
(71)	**1. FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN** **2. FORSCHUNG E.V. (GERMANY)** **3.**	
(72)	**1. SETIAWAN, Panji** **2. Name WILDE, Stephan** **3. LOMBARD, Anthony**	**4. DIETZ, Martin**
(73)	**1.** **2.**	
(30)	**1. (US) 10-2013-0023602 - 05-03-2013** **2. (PCT/EP2012/052464) - 14-02-2012** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54)	**NOISE GENERATION IN AUDIO CODECS**
	Patent Period Started From 14/02/2012 and Will end on 13/02/2032

(57) The spectral domain is efficiently used in order to parameterize the background noise thereby yielding a background noise synthesis which is more realistic and thus leads to a more transparent active to inactive phase switching.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/01/2013** **0031/2013** **June 2019** **24/12/2019** **29552**

(51)	**Int. Cl. [8] G10L 19/00, 19/02, 19/04**
(71)	**1. FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN** **2. FORSCHUNG E.V. (GERMANY)** **3.**
(72)	**1. LECOMTE, Jeremie** **2. WARMBOLD, Patrick** **3. BAYER, Stefan**
(73)	**1.** **2.**
(30)	**1. (US) 61/362,547 - 08-07-2010** **2. (US) 61/372,347 - 10-08-2010** **3. (PCT/EP2011/061521) - 07-07-2011**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) AUDIO DECODER FOR FORWARD ALIASING CANCELLATION

Patent Period Started From 07/07/2011 and Will end on 06/07/2031

(57) A codec supporting switching between time-domain aliasing cancellation transform coding mode and time-domain coding mode is made less liable to frame loss by adding a further syntax portion to the frames, depending on which the parser of the decoder may select between a first action of expecting the current frame to comprise, and thus reading forward aliasing cancellation data from the current frame and a second action of not-expecting the current frame to comprise, and thus not reading forward aliasing cancellation data from the current frame. In other words, while a bit of coding efficiency is lost due to the provision of the new syntax portion, it is merely the new syntax portion which provides for the ability to use the codec in case of a communication channel with frame loss. Without the new syntax portion, the decoder would not be capable of decoding any data stream portion after a loss and will crash in trying to resume parsing. Thus, in an error prone environment, the coding efficiency is prevented from vanishing by the introduction of the new syntax portion.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/03/2016** **0463/2016** **September 2019** **24/12/2019** **29553**

(51)	**Int. Cl. [8] G02B 27/09 & B23K 26/06 & H01S 3/00, 5/40**
(71)	**1. Saint-Gobain Glass France** **2.** **3.**
(72)	**1. DUBOST, Brice** **2. MIMOUN, Emmanuel** **3. SCHWEITZER, Jean-Philippe**
(73)	**1.** **2.**
(30)	**1. (FR) 1360222 - 21-10-2013** **2. (PCT/FR2014/052642) - 16-10-2014** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) MODULAR LASER APPARATUS

Patent Period Started From 16/10/2014 and Will end on 15/10/2034

(57) The invention relates to a laser apparatus including a plurality of laser modules each generating a laser line on a working plane, said laser modules being juxtaposed such that the laser lines generated by the modules combine into a single laser line. The laser apparatus also includes a first alignment of microlenses, a convergent lens and a second alignment of microlenses placed in the focussing plane of the convergent lens, such that the final laser line generated by each laser module has, on the working plane, a power density profile with a pointed top. The laser modules are juxtaposed such that the laser lines generated by each of the laser modules combine into a single laser line with a total length of more than 1.2 m.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/12/2016** **2010/2016** **October 2019** **24/12/2019** **29554**

(51)	**Int. Cl. [8] F04D 15/00, 15/02, 1/00, 13/08 & F04B 49/02, 49/20**
(71)	**1. XYLEM IP MANAGEMENT S.A.R.L (LUXEMBOURG)** **2.** **3.**
(72)	**1. LARSSON, Martin** **2. MOKANDER, Jürgen** **3. ZETTERQUIST, Martin**
(73)	**1.** **2.**
(30)	**1. (SE) 1450756-0 - 17-06-2014** **2. (PCT/IB2015/054500) - 15-06-2015** **3.**
(74)	**YOUSSEF M. JOSEPH**
(12)	**Patent**

(54)	**METHOD FOR SHUTTING OFF A PUMP AS WELL AS PUMP STATION ARRANGEMENT**
	Patent Period Started From 15/06/2015 and Will end on 14/06/2035

(57) According to a first aspect the present invention relates to a method for turning off a pump configured for pumping liquid via a conduit, the pump before being turned off being driven at an operational frequency (FN) by means of a control unit. The method is characterized by the steps of, ramping down the frequency of the pump due to a turn off instruction, the terminal frequency of the ramping down being equal to the operational frequency (FN) of the pump minus at least 10Hz and the ramping down time being at least a reflection time (TR) for the conduit in question, and the terminal frequency of the ramping down not being less than 10Hz, and stopping the pump after said ramping down. According to a second aspect the present invention relates to a pump station arrangement configured for performing the above mentioned turning off method.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/04/2016** **0708/2016** **October 2019** **24/12/2019** **29555**

(51)	**Int. Cl. [8] E05B 27/00, 35/00**
(71)	**1. CISA S.P.A. (ITALY)** **2.** **3.**
(72)	**1. FUSTINI, Fausto** **2. TALAMONTI, Enzo** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/IT2013/000297) - 25-10-2013** **2.** **3.**
(74)	**MAGDA SHEHATA HAROUN**
(12)	**Patent**

(54)	**CYLINDER LOCK AND ASSOCIATED KEY**
	Patent Period Started From 25/10/2013 and Will end on 24/10/2033

(57) A cylinder lock and an associated key, the lock comprising a fixed body and a plug, which is accommodated within a respective cavity of the body and can rotate with respect to the body. The plug comprises a substantially longitudinal compartment for the functional accommodation of a key which comprises a grip portion from which an elongated body extends which is provided with coding grooves and protrusions on its outer surface. Between the plug and the body there are respective accommodation channels for translating coding elements, which open onto the substantially longitudinal compartment. The plug comprises at least one auxiliary duct, which faces the substantially longitudinal compartment and extends at least partially in the body, for the sliding accommodation of at least one coding unit that is constituted by at least one pin and at least one conical portion. The conical portion is fitted at least partially on a first end of the pin. The second end of the pin which faces the substantially longitudinal compartment, has a shape and dimensions that are complementary to those of a depression of the head of a movable pad that is accommodated elastically within a recess of the key, against which it abuts in the configuration for use, being at least partially accommodated in said depression in the configuration for use.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/11/2014** **1760/2014** **September 2019** **24/12/2019** **29556**

(51)	**Int. Cl. [8] C02F 1/32**
(71)	**1. XYLEM WATER SOLUTIONS HERFORD GMBH (GERMANY)** **2.** **3.**
(72)	**1. KAMMERER, Sven** **2. MORNINGSTAR, Leroy, Jack, Jr** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2012 008 732.2 - 04-05-2012** **2. (PCT/EP2013/000653) - 06-03-2013** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**WATER TREATMENT PLANT USING UV WITH OPEN CHANNEL**
	Patent Period Started From 06/03/2013 and Will end on 05/03/2033

(57) The invention relates to UV water treatment plant with a channel which is open at the top and a number of elongated and tubular UV radiators arranged in the channel , wherein the channel has two side walls and a bottom wall , and wherein the UV radiators are aligned parallel to the side walls and not parallel to the bottom wall, characterized in that at least one mixing device with a plurality of projections is mounted on a side wall parallel to a radiator in such a manner that the projections during operation reach into the free cross section of the channel and that between in each case two projections in each case viewed in the flow direction a recess is provided , which constitutes a free cross section , which can be flowed through characterized in that the plurality of projections emanate from a base body of the at least one mixing device, and the plurality of projections point away from the bottom face and extend beyond a plane formed by the top face characterized in that the area ratio of the areas effective in the flow direction between the projections and the recesses is less than or equal to 1.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/07/2015** **1095/2015** **September 2019** **24/12/2019** **29557**

(51)	**Int. Cl. [8] F01M 13/02 & F02D 41/00**
(71)	**1. MONROS, Serge V. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. MONROS, Serge V.** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/754,384 - 18-01-2013** **2. (US) 14/156,189 - 15-01-2014** **3. (PCT/US2014/011721) - 15-01-2014**
(74)	**MAHMOUD ADEL ABD EL HAMMED ESMAEL**
(12)	**Patent**

(54)	**MICROCONTROLLER FOR POLLUTION CONTROL SYSTEM FOR AN INTERNAL COMBUSTION ENGINE**
	Patent Period Started From 15/01/2014 and Will end on 14/01/2034

(57) A pollution control system for an internal combustion engine includes a microcontroller and a power supply, a plurality of sensors configured to measure operating parameters of the engine, and a PCV valve responsive to a control signal from the microcontroller and configured to regulate a flow rate of blow-by gasses in the engine. The microcontroller includes programmable flash memory connected to a control processor, a power supply input, a sensor input configured to receive data from an engine sensor, and a signal output configured to transmit a signal from the control processor so as to control operation of a PCV valve regulating a flow rate of blow-by gasses in the engine.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/10/2015** **1675/2015** **July 2019** **26/12/2019** **29558**

(51)	**Int. Cl. [8] C08L 23/14 & C08F 2/00 & F16L 9/12**
(71)	**1. BOREALIS AG (AUSTRIA)** **2. ABU DHABI POLYMERS COMPANY LIMITED (AUSTRIA)** **3.**
(72)	**1. HEDESIU, Cristian** **2. ALASTALO ,KAINO** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13002099.3 - 22-04-2013** **2. (PCT/EP2014/001068) - 22-04-2014** **3.**
(74)	**Amr Mofed El Deeb**
(12)	**Patent**

(54) POLYPROPYLENE COMPOSITION WITH IMPROVED IMPACT RESISTANCE FOR PIPE APPLICATIONS

Patent Period Started From 22/04/2014 and Will end on 21/04/2034

(57) The present invention relates to a polypropylene composition comprising a multimodal propylene random copolymer with at least one comonomer selected from alpha-olefins with 2 or 4 to 8 carbon atoms, wherein the polypropylene composition has a melt flow rate MFR_2 (2.16 kg, 230°C) of 0.05 to 1.0 g/10 min, determined according to ISO 1133, a polydispersity index (PI) of 2.0 to 7.0, and a Charpy Notched Impact Strength at 0°C of more than 4.0 kJ/m2, determined according to ISO 179/1eA:2000 using notched injection moulded specimens, a process for producing said polypropylene composition, an article comprising said polypropylene composition and the use of said polypropylene composition for the production of an article.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/10/2015** **1675/2015** **July 2019** **26/12/2019** **29559**

(51)	**Int. Cl. [8] A61F 13/15, 5/44, 13/62, 13/58**
(71)	**1. BOREALIS AG (AUSTRIA)** **2. ABU DHABI POLYMERS COMPANY LIMITED (AUSTRIA)** **3.**
(72)	**1. HEDESIU, Cristian** **2. ALASTALO ,KAINO** **3.**
(73)	**1.** **2.**
(30)	**1. (EP)13002099.3 - 22-04-2013** **2. (PCT/EP2014/001068) - 22-04-2014** **3.**
(74)	**Abdul Hadi Intellectual Property**
(12)	**Patent**

(54) A Hook strip and An Absorbent Article Containing The Same

Patent Period Started From 20/06/2011 and Will end on 19/06/2031

(57) A hook strip is provided having a backing with a first surface and a length in a first direction; multiple rows of hook elements aligned in the first direction and projecting from the first surface of the backing; and slits in the backing between at least some pairs of adjacent rows of the hook elements. The slits may be interrupted by a bridging region of the backing, or the slits may be partial slits that penetrate the thickness of the backing in a range from 40 to 90 percent. A fastening laminate that includes a carrier and the hook strip described above joined to the carrier is also provided. In some embodiments, the fastening laminate includes slits that form separate, abutting portions of the backing on the carrier. An absorbent article containing the hook strip and a method of making the hook strip are also disclosed

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/12/2015** **1884/2015** **July 2019** **26/12/2019** **29560**

(51)	**Int. Cl. [8] G01V 1/145**
(71)	**1. BP CORPORATION NORTH AMERICA INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. HARPER, Mark Francis Lucien** **2. DELLINGER, Joseph, Anthony** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/929,656 - 21-01-2014** **2. (PCT/US2015/012278) - 21-01-2015** **3.**
(74)	**OFFICE DIB LAWYERS**
(12)	**Patent**

(54) OPERATIONAL CONTROL IN A SEISMIC SOURCE

Patent Period Started From 21/01/2015 and Will end on 20/01/2035

(57) A method for controlling trajectory in a resonant marine seismic source comprises: controlling the source frequency and controlling the motion trajectory. Controlling the source frequency includes: estimating the source frequency from its internal state and the state of its environment; deriving a frequency error as the difference between the estimated frequency and the frequency of the desired trajectory; and driving the frequency error to zero. Controlling the motion trajectory includes: detecting a motion trajectory of the source; deriving a motion trajectory error as the difference between the desired motion trajectory and detected motion trajectory; and driving the motion trajectory error to zero.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/05/2016** **0849/2016** **July 2019** **26/12/2019** **29561**

(51)	**Int. Cl. [8] C08F 2/00 & F16L 9/12 & C08L 23/08**
(71)	**1. BOREALIS AG** (Austria) **2. ABU DHABI POLYMERS CO LTD (BOROUGE) L.L.C (UNITED ARAB EMAIRATES)** **3.**
(72)	**1. HEDESIU, Cristian** **2. TYNYS, Antti** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13005980.1 - 20-12-2013** **2. (PCT/EP2014/003421) - 18-12-2014** **3.**
(74)	**OFFICE DIB LAWYERS**
(12)	**Patent**

(54) POLYETHYLENE COMPOSITION WITH HIGH FLEXIBILITY AND HIGH TEMPERATURE RESISTANCE SUITABLE FOR PIPE APPLICATIONS

Patent Period Started From 18/12/2014 and Will end on 17/12/2034

(57) The present invention relates to a polyethylene composition comprising, preferably consisting of, a base resin comprising a copolymer of ethylene and at least two comonomers selected from alpha-olefins having from three to twelve carbon atoms, wherein the ethylene copolymer comprises a low molecular weight component (A) and a high molecular weight component (B) with the low molecular weight component (A) having a lower weight average molecular weight than the high molecular weight component (B), and optional additives, suitable for the production of an article, preferably pipe.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/02/2017** **0262/2017** **September 2019** **29/12/2019** **29562**

(51)	**Int. Cl. [8] D06F 37/24, 37/20, 39/12**
(71)	**1. LG Electronics INC** **2.** **3.**
(72)	**1. LEE, Jihong** **2. WON , WOONGHUI** **3. SEO , JINWOO**
(73)	**1.** **2.**
(30)	**1. (KR) 10-2015-0092778 - 30-06-2015** **2. (PCT/KR2016/007023) - 30-06-2016** **3.**
(74)	**MOHAMED MOHAMED BAKEER**
(12)	**Patent**

(54)	**LAUNDRY TREATMENT APPARATUS**
	Patent Period Started From 30/03/2016 and Will end on 29/03/2036

(57) Disclosed is a laundry treatment apparatus including a housing, a tub provided inside the housing for providing a space for storage of water, a drum rotatably provided inside the tub for receiving laundry therein, and three or more tub support units for coupling the tub to the housing, and each of the tub support units includes a first support member provided at the housing, a second support member provided at the tub, and a connector provided for connecting the first support member and the second support member to each other, the connector forming a right angle with respect to a bottom surface of the housing.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/03/2016** **0384/2016** **September 2019** **29/12/2019** **29563**

(51)	**Int. Cl. [8] D06F 39/08, 39/00**
(71)	**1. LG Electronics INC (KORIA)** **2.** **3.**
(72)	**1. LEE, Jihong** **2. SUNG, Kijung** **3. JANG Seungwook**
(73)	**1.** **2.**
(30)	**1. (KR) 10-2016-0073973 - 14-06-2016** **2. (PCT/KR 2016/012961) - 11-11-2016** **3.**
(74)	**MOHAMED MOHAMED BAKEER**
(12)	**Patent**

(54)	**LAUNDRY TREATMENT APPARATUS**
	Patent Period Started From 11/11/2016 and Will end on 10/11/2016

(57) Disclosed is a laundry treatment apparatus including a drawer dischargeable from a cabinet, a receiving unit provided in the drawer for receiving water and laundry, a drain pump for discharging water from the receiving unit, a drain channel extending through a reference point set to be higher than the highest level of water that can be stored in the receiving unit, the drain channel being located outside the cabinet, and a connection channel located in the cabinet for connecting the drain pump and the drain channel to each other, wherein the connection channel is located higher than the level of water formed in the receiving unit as water stored between the reference point and the drain pump moves to the receiving unit by gravity.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/02/2017** **0294/2017** **September 2019** **29/12/2019** **29564**

(51)	**Int. Cl. [8] D06F 39/00, 39/08, 37/12**	
(71)	**1. LG Electronics , INC. (KORIA)** **2.** **3.**	
(72)	**1. LEE, Jihong** **2. JEONG, Kwanwoong** **3. LEE, Chanho**	**5. NO , YANGHWAN**
(73)	**1.** **2.**	
(30)	**1. (KR) 10-2015-0092774 - 30-06-2015** **2. (US) 10-2016-0073976 - 14-06-2016** **3. (PCT/KR2016/007022) - 30-06-2016**	
(74)	**MOHAMED MOHAMED BAKEER**	
(12)	**Patent**	

(54)	**LAUNDRY TREATMENT APPARATUS**
	Patent Period Started From 30/06/2016 and Will end on 29/06/2036

(57) In addition, the present invention has the effect of providing a laundry treatment apparatus, which may wash a door using the centrifugal force generated by water stored in a tub while a drum is rotated. In addition, the present invention has the effect of providing a laundry treatment apparatus, which may include an ejection unit for washing a door using a device for supplying water to a tub. In addition, the present invention has the effect of providing a laundry treatment apparatus, which may remove bubbles or impurities from a door when washing is completed, thereby ensuring that a user does not doubt the ability of the laundry treatment apparatus. In addition, the present invention has the effect of providing a laundry treatment apparatus, which may prevent bubbles or impurities from being stuck again to laundry when the bubbles or the impurities have been removed from a door, i.e. when washing is completed, thereby preventing the reduction of washing performance. In addition, the present invention has the effect of providing a laundry treatment apparatus, which may prevent bubbles or impurities from being stuck again to laundry when washing is completed. In addition, the present invention has the effect of providing a laundry treatment apparatus In, which may remove bubbles or impurities from a door when washing is completed thereby ensuring that a user does not doubt the ability of the laundry treatment apparatus. In addition, the present invention has the effect of providing a laundry treatment apparatus, which may include an additional flow channel for removing bubbles or impurities from a door. In addition, the present invention has the effect of providing a laundry treatment apparatus, which may selectively drain water from a device for removing bubbles or impurities when the pressure in the device for removing bubbles or impurities is excessively increased, thereby preventing water leakage or the backward flow of wash water.In addition the present invention has the effect of providing a laundry treatment apparatus which may Prevent bubbles from being generated in a drum

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/08/2016** **1313/2016** **August 2019** **29/12/2019** **29565**

(51)	**Int. Cl. [8] F16K 17/04, 31/12 & G05D 16/00**
(71)	**1. Solar Water Solutions OY (FINLAND)** **2.** **3.**
(72)	**1. POHJOLA, Heikki Antero** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (FI) 20140049 - 19-02-2014** **2. (PCT/FI2015/050096) - 18-02-2015** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) METHOD AND ARRANGEMENT FOR MAINTAINING FLUID FLOW PRESSURE IN A SYSTEM AT A PRESET, ALMOST CONSTANT LEVEL

Patent Period Started From 18/02/2015 and Will end on 17/02/2035

(57) This invention relates to a method and arrangement for maintaining fluid flow pressure in a system at a preset, almost constant level. One application is an impulse turbine´s nozzle valve, which automatically maintains the system pressure essentially constant so that it does not depend on occasional variation of the pumped inflow, resulting that also the jet from the nozzle remains constant and its kinetic energy optimal. The earlier known nozzles do not independently maintain system pressure when the inflow varies. The nozzle valve comprises a cylindrical body and an inlet channel and the out flow is arranged through a nozzle channel situated at the other end of the body. Inside the body is a needle, conical head of which can oscillate in the channel. The needle shaft is guided by a slide element. To the other end of the body is joined a diaphragm pressure accumulator so that the needle shaft end is pressured against its valve disc by means of a compression spring, one end of which is pressed against a widening at the needle shaft. In the body is a channel through which the flow can pass the slide element and proceed through channel below the disc. When the disc is supported by the accumulator body the needle is at its lowest position and closes the outflow channel. When the inflow pressure increases the valve disc and the needle rise together and the channel opens correspondingly, resulting that the flow pressure remains essentially constant.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/02/2017** **0310/2017** **September 2019** **29/12/2019** **29566**

(51)	**Int. Cl. [8] D06F 37/18, 37/28, 37/42, 39/14**	
(71)	**1. LG Electronics INC. (KORIA)** **2.** **3.**	
(72)	**1. LEE, Jihong** **2. LEE, Byungjin** **3. JANG , Hosung**	**4. CHOI, Yeongkyeong** **5. SANG , Minkyu**
(73)	**1.** **2.**	
(30)	**1. (KR) 10-2015-0092776 - 30-06-2015** **2. (PCT/KR2016/007026) - 30-06-2016** **3.**	
(74)	**MOHAMED MOHAMED BAKIR**	
(12)	**Patent**	

(54) LAUNDRY TREATMENT APPARATUS

Patent Period Started From 30/06/2016 and Will end on 29/06/2036

(57) Disclosed is a laundry treatment apparatus including a cabinet having an introduction discharge opening , a drawer configured so as to be discharged from the cabinet through the introduction /discharge opening ,a through –hole formed in an upper surface of the drawer , a tub provided inside the drawer for providing a space for storage of water, an introduction aperture formed in an upper surface of the tub , the introduction aperture being located under the through-hole, a drum rotatably provided inside the tub for receiving laundry supplied to the introduction aperture , a door on any one of the drawer and the tub for opening and closing the introduction aperture and a guide for preventing the door from interfering with the introduction /discharge opening when the drawer is discharged from the cabinet.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/07/2005** **0314/2005** **November 2019** **31/12/2019** **29567**

(51)	**Int. Cl. [8] A61K 31/047, 31/095, 31/167, 31/341, 31/47, 31/573, A61P 9/14**
(71)	**1. MOHAMED TEMOR MOHAMED RADWAN (EGYPT)** **2.** **3.**
(72)	**1. MOHAMED TEMOR MOHAMED RADWAN** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54) TOPICAL PHARMACEUTICAL COMPOSITION IN THE FORM OF CREAM, OINTMENT OR RECTAL SUPPOSITORIES FOR TREATMENT OF HEMORRHOIDS

Patent Period Started From 06/07/2005 and Will end on 05/07/2025

(57) A topical pharmaceutical formulation in the form of a cream, ointment or rectal suppositories for the treatment of hemorrhoids from grade one to grade three. This formulation includes the following chemical composition: L-cysteine at a concentration from 5% to 20%, N-acetyl- D,L-homocysteine thiolactone at a concentration of 5% to 20%, D - Panthenol at a concentration of 2% to 7%, hydrocortisone acetate at a concentration of 0.25% to 1%, iodo-chlorohydroxyquin at a concentration of 0.75% to 1%, and lidocaine at a concentration of 1% to 3%. This formula improves the functioning of the anal cells, anal canal and the blood vessels lining these cells and recovering their vital activity, especially the cells that have been destroyed by toxins and the microbial substances which leads to necrosis and decomposition of these cells by stimulating blood circulation in the anal canal cells, rectal cells, and the vascular lining of this area which helps in recovering vital activities of these cells. The above formula also works as anti-toxic, anti-allergic, and anti-itching. It also works on the healing the destroyed cells and improves the state of injuriess. This formula preserves the balance of sulfur substances in the anus and ensures the anal canal retains the proper pH, which helps to cure hemorrhoids. The formula also helps to reduce the recurrence rate of the disease and leads to the full recovery of hemorrhoids without surgical intervention except in narrow limits.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/03/2009** **0284/2009** **November 2019** **31/12/2019** **29568**

(51)	**Int. Cl. [8] A61D 19/00**
(71)	**1. ASMAA MOHAMMED SHAABAN ALI (EGYPT)** **2. MAI MOHAMMED SHAABAN ALI** **3.**
(72)	**1. ASMAA MOHAMMED SHAABAN ALI** **2. MAI MOHAMMED SHAABAN ALI** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**A DEVICE USED FOR ESTRUS DETECTION USING ELECTRONIC NOSE TECHNOLOGY DURING MILKING**
	Patent Period Started From 02/03/2009 and Will end on 01/03/2029

(57) This patent concerns a device that detects the estrus cycle using sensors while using milking machines in cattle farms to facilitate accurate detection of estrus cycle for its advantages compared with usual estrus detection aids .misdiagnosis of estrus cycle cause great loses for the farm owners and also affect on the genital health condition of the cow which is the primary aim of that profit. It is easy to use this device on cows while milking which give a good chance to detect the estrus without stressing animals. This device is composed of three main components: odor collecting unit, detecting analyzing unit, results analysis and data collecting unit.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/11/2014** **1809/2014** **November 2019** **31/12/2019** **29569**

(51)	**Int. Cl. [8] A61K 35/74, C12N 1/20**	
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**	
(72)	**1. HANAA MAHMOUD EL SAYED** **2. MOHAMED HUSSEIN ZAAZOU** **3. KHALED ALY NOUR**	**4. NYRA SHAKER MEHANNA**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**MAGDA MHASSEB ELSAYED - AMAL YOSEF AHMED - MONA MOHAMED FAREED**	
(12)	**Patent**	

(54) TOOTHPASTE CONTAINS A NATURAL STRUCTURE TO PREVENT GUM DISEASE AND TOOTH DECAY

Patent Period Started From 10/11/2014 and Will end on 09/11/2034

(57) The present invention relates to toothpaste containing a mixture of natural structure of the probiotic strain {lactobacillus rhammnosus) at 20% concentration with propolis and miswak extracts at a concentration of 5% each to the toothpaste base, then the paste was put in the toothpaste tube and stored it at refrigerator temperature for 2 days before use. The results showed the effectiveness of this toothpaste against the growth of streptococcus mutans, which is responsible for tooth decay and gingivitis, while mamtaining the vitality of the probiotics in toothpaste for six months.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/12/2014** **2103/2014** **November 2019** **31/12/2019** **29570**

(51)	**Int. Cl. [8] H01L 31/00 & C23C 14/06**	
(71)	**1. SCIENCE & TECHNOLOGY DEVELOPMENT FUND (EGYPT)** **2.** **3.**	
(72)	**1. MOHSEN ABDELFATTAH GHALI** **2. MOSTAFA KAMAL ELNIMR** **3. BEDIRYOUSIF BEDIR**	**4. GHADA FAROUK ALI**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**MARWA ALAA EL DIN MOHAMED ABDEL-MEGUID**	
(12)	**Patent**	

(54) METHOD FOR THE PREPARATION OF COPPER-INDIUM-SELENIUM THIN FILMS WITH A HIGH OPTICAL ABSORPTION COEFFICIENT

Patent Period Started From 29/12/2014 and Will end on 28/12/2034

(57) A method for the preparation of thin films of copper-indium-selenium cuinse2 with high optical absorption coefficient, in which the thickness of the prepared films is 160 nm using an environmentally-friendly annealing process. The preparation process was carried out using a distinctive annealing method with a two-stage thermal distribution, in a short period of time, and in an atmosphere free from any toxic gases. The optical absorption coefficient of the prepared films reaches a value of $5xl0^5$ cm-1 when using an annealing temperature of 340 °c for a period of only five minutes. The optical absorption coefficient was found to be highly dependent on the time distribution of the annealing process.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/01/2016** **0078/2006** **November 2019** **30/12/2019** **295671**

(51)	**Int. Cl. [8] C02F 3/00 & B29C 45/00**
(71)	**1. AHAMED ZAKARYA AHAMED HASSAN (EGYPT)** **2. MOHAMED ABDEL WAHAB MAHMOUD MOHAMED AHMED (EGYPT)** **3.**
(72)	**1. AHAMED ZAKARYA AHAMED HASSAN** **2. MOHAMED ABDEL WAHAB MAHMOUD MOHAMED AHMED** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**UTILTY MODEL**

(54)	**PROCESS FOR CONVERSION OF RICE HUSK INTO NANO ZEOLITE (A.M.2) AND SOIL, PLANT FERTILIZER**
	Patent Period Started From 17/01/2016 and Will end on 16/01/2023

(57) A method for converting of rice husk into Nano Zeolite (A.M.2) and soil plant fertilizer through mixture of rice husk with Aluminum foil from house refuse , produced Nano Zeolite (A.M.2) is enriched in available nutrients for both soil and plant as well .This product was synthesized to protect environment against air pollution resulted from rice husk burning which leads to black clouds that pollutes air cause of burning rice husk after harvesting season by farmers , the resulted Nano Zeolite has same chemical composition as natural Zeolite that resulted from Volcanoes , the difference between the resulted Nano Zeolite and the natural Zeolite is that the synthesized is ultra-small granular that have unique natural and physical properties if compared to natural zeolite more over it have super purity degree , hydrophilic that enables it to be used in desert reclamation and plantation , economic use of water irrigation , capability to be loaded by macro , micro nutrients , useful microorganisms , organophilic, other advantages of resulted Nano Zeolite (A.M.2) that we can supply it to soil by injection ,fertigation and plant foliar with very low concentrations which sufficient to complete plant life cycle with high productivity and quality without any additional fertilizers and it can be produced at the lowest economical cost .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/03/2016** **0368/2016** **November 2019** **31/12/2019** **29572**

(51)	**Int. Cl. [8] A01B 49/06 & A01C 7/06**
(71)	**1. MAHMOUD ALI QASSEM (EGYPT)** **2.** **3.**
(72)	**1. MAHMOUD ALI QASSEM** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**PLOWING AND SEEDING MACHINE**
	Patent Period Started From 02/03/2016 and Will end on 01/03/2036

(57) The present invention relates to a plowing and seeding machine. This machine consists of the following: a. Plowing unit: comprising a chassis, seven arms ending with hollow blades cutting the earth, a carrier to be connected with a tractor- a driving shaft- a rear sledge for earth leveling. B. Seeding unit: comprising a big pipe having four upward holes and four downward holes - small pipe having 12 u-shaped holes- cereal tank - clutch- geared pole , conveyance belt or chain- cereal collector mounted onto the said bid pipe downwardly, cereal delivering device on the four rear arms for the plowing unit- dies for tightening the hole sizes (feed reel)- rolling bearings.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/04/2016** **0599/2016** **November 2019** **31/12/2019** **29573**

(51)	**Int. Cl. [8] F03G 3/00**
(71)	**1. MICHAEL ROMANY FAWZY IBRAHIM (EGYPT)** **2.** **3.**
(72)	**1. MICHAEL ROMANY FAWZY IBRAHIM** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**LEVERAGE HORSEPOWER**
	Patent Period Started From 05/04/2016 and Will end on 04/04/2036

(57) The present invention relates to an amendment to the ideal of ll-type leverages, wherein an end of a lever is secured onto a supporting base while the other is a point of force, therebetween lies the resistance point at which the force is on increase versus an equivalent decrease of movement span. The leverage horsepower allows such deficiency to be overcome by the equal movement spaces between points of force and resistance while multiplying the output force. Delivering more than one consecutive lifting sets from resistance point to the force point via doubling the output force many times is also achievable. Two crank levers can be fixed, one of which is for the primary force connected to an engine and the other for output force for converting the machine's reciprocation into a rotary mode .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/12/2016** **2130/2016** **November 2019** **31/12/2019** **29574**

(51)	**Int. Cl. [8] C05D 9/00, 3/02**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. GAMIL WAHEEB AGEEB** **2. AHMED SAID TALAAB** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**FOCAL POINT - National Center for Research- REPRESENTED / MAGDA MAHSP MR. AND OTHERS**
(12)	**Patent**

(54)	**COMPOUND FOR THE TREATMENT OF CALCIUM AND BORON DEFICIENCY IN THE PLANT AND A METHOD OF PREPARATION**
	Patent Period Started From 29/12/2016 and Will end on 28/12/2036
(57)	the present invention relates to a compound for ‎the treatment of calcium and boron deficiency in ‎the plant and a method of preparation. the ‎compound is a transparent, medium density liquid, ‎characterized by containing boron element, which ‎facilitates the absorption of calcium, and calcium, ‎which prevents the toxicity of boron on the plant. ‎the compound is characterized by the possibility of ‎preparing different concentration ratios of boron ‎and calcium to suit the type and age plant as well ‎as soil and irrigation water quality. the compound ‎is prepared by the dissolution of calcium nitrate in ‎‎30 liters of water and after the complete ‎dissolving, diethanol amine is added with continued ‎stirring then borax salt add until mixing then ‎phosphoric acid add with continuous stirring, then ‎complete solution to the final volume (50 liters) ‎before filling operation .‎

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/01/2017** **0071/2017** **November 2019** **29/12/2019** **29575**

(51)	**Int. Cl. [8] B32B 27/36 & C23C 14/04**	
(71)	**1. SCIENCE & TECHNOLOGY DEVELOPMENT FUND (EGYPT)** **2.** **3.**	
(72)	**1. ALTAF HALIM BASTA** **2. HOUSSNI EL-SAIED MOHAMMED ALI** **3. GAMIL FAYEZ BAREH**	**4. MOHAMED SAIED HASANIN** **5. VIVIAN FAYEZ LOTFY**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**MARWA ALAA EL DIN MOHAMED ABDEL-MEGUID**	
(12)	**Patent**	

(54) **APPROACH FOR PREPARING COATING COMPOSITE FOR PAPER PACKAGING TO PRESERVE FOOD PRODUCTS FROM 6-O-CARBOXYMETHYL- 3-O-CELLULOSE ALANINATE WITH BIOPOLYMERS**

Patent Period Started From 15/01/2017 and Will end on 14/01/2037

(57) This invention deals with approach for enhancing the paper packages in preserving of food products, via surface coating by composite from synthesized rice straw-based active material (6-o-carboxymethyl- 3-o-cellulose alaninate) with biopolymers (e.g. blanose and chitosan). The analyses proved its positive effect as antioxidant and anti-microbial behavior, and can be used as alternative material for essential oils and tannic acid. In addition it is able to preserve the freshness of stored vegetables. Moreover it improves the shelf life of green pepper (to ~ 21 days) when stored at high summer temperature, and leads to improve the strength of both films and coated paper packaging by 14.3% , and 152.6% , while the elongation by 17% and 74% .

Arab Republic of Egypt
Ministry of State for Scientific Research
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GRANTED PATENTS' ABSTRACTS GAZETTE

"PATENTS ISSUED IN JANUARY 2020 "

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Issue No 284 **FEBRUARY 2020**

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

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ABSTRACTS
FOR
GRANTED PATENTS
JANUARY (2020)

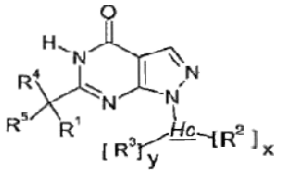
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/09/2010** **1596/2010** **July 2020** **02/01/2020** **29576**

(51)	**Int. Cl. [8] A61K 31/519 & A61P 25/28 & C07D 487/04**		
(71)	**1. BOEHRINGER INGELHEIM INTERNATIONAL GMBH (GERMANY)** **2.** **3.**		
(72)	**1. SCHAENZLE, Gerhard** **2. FOX, Thomas** **3. HEINE, Niklas**	**4. ROSENBROCK, Holger** **5. DOERNER-CIOSSEK, Cornelia** **6. FUCHS, Klaus**	**7. GIOVANNINI, Riccardo** **8. FIEGEN, Dennis** **9. EICKMEIER, Christian**
(73)	**1.** **2.**		
(30)	**1. (EP) 08153987.6 - 02-04-2008** **2. (PCT/EP2009/053907) - 01-04-2009** **3.**		
(74)	**NAHID WADI RIZK TARAZI**		
(12)	**Patent**		

(54) **1-HETEROCYCLYL-1,5-DIHYDRO-PYRAZOLO[3,4-D] PYRIMIDIN-4-ONE DERIVATIVES AND THEIR USE AS PDE9A MODULATORS**

Patent Period Started From 01/04/2009 and Will end on 31/03/2029

(57) The invention relates to novel 1,6-disubstituted pyrazolopyrimidinones, Formula (I) with Hc is a mono-, bi- or tricyclic heterocyclyl group, the ring members of which are carbon atoms and at least 1, preferably 1, 2 or 3, heteroatom(s), which are selected from the group of nitrogen, oxygen and sulphur, which is in the form of -S(O)r - with r being 0, 1 or 2, and - said heterocyclyl group is or comprises 1 non-aromatic, saturated, or partly unsaturated monocyclic ring which comprises at least 1 heteroatom as ring member and - said heterocyclyl group is bound to the scaffold by said 1 non- aromatic, saturated, or partly unsaturated monocyclic ring which comprises at least 1 heteroatom as ring member. According to one aspect of the invention the new compounds are for the manufacture of medicaments, in particular medicaments for the treatment of conditions concerning deficits in perception, concentration, learning or memory. The new compounds are also for the manufacture of medicaments for the treatment of Alzheimer .



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Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/12/2015** **2013/2015** **July 2019** **05/01/2020** **29577**

(51)	**Int. Cl. [8] H01H 3/30**
(71)	**1. EATON CORPORATION (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. SPITSBERG, Yuri** **2. GIBSON, Perry Robert** **3. PARKS, David**
(73)	**1.** **2.**
(30)	**1. (US) 13/923,653 - 21-06-2013** **2. (PCT/US2014/038566) - 19-05-2014** **3.**
(74)	**SONIA FAYEK FARAG**
(12)	**Patent**

(54)	**SHAFT ASSEMBLIES SUITABLE FOR CIRCUIT BREAKERS AND RELATED CIRCUIT BREAKERS**
	Patent Period Started From 19/05/2014 and Will end on 18/05/2034

(57) Shaft assemblies include an elongate shaft having a plurality of closely spaced apart external notches with wall segments having a greater outer diameter than an outer diameter of the notches residing there between and at least one self-retaining locking ring that engages one of the notches to axially lock into position on the shaft and provide a pull out force that is between about 100 1bf to about 1000 lbf. The notches can have a width that is between about 0.010 inches to about 0.020 inches, on average, and a depth that is between about 0.001 inches to about 0.010 inches, on average.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/03/2017** **0483/2017** **October 2019** **06/01/2020** **29578**

(51)	**Int. Cl. [8] H01H 1/50**
(71)	**1. ZHEJIANG CHINT ELECTRICS CO., LTD (CHINA)** **2.** **3.**
(72)	**1. JIANG, Huahua** **2. LIU, Yanan** **3. DONG, Zhipeng**
(73)	**1.** **2.**
(30)	**1. (CN) 2014205416930 - 18-09-2014** **2. (PCT/CN2015/071741) - 28-01-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**CONTACT DEVICE OF BREAKER**
	Patent Period Started From 28/01/2015 and Will end on 27/01/2035

(57) A contact device of a breaker, comprising a rotating shaft, two pressing plates provided in a contact installation hole of the rotating shaft, and two contact blades provided side by side; one end of each of the two contact blades having a movable contact passes through the contact installation hole, and the other end is connected to the rotating shaft; two pressure-bearing shafts are provided at one end of each of the two contact blades connected to the rotating shaft; each pressure-bearing shaft comprises a first cylinder, and a second cylinder fixedly connected to one end of the first cylinder; a joint of the second cylinder and the first cylinder is formed as a stepped surface, and the area of the stepped surface is greater than the area of the cross section of the first cylinder; the second cylinders of the two pressure-bearing shafts are provided between the two contact blades; and the end surfaces of the two second cylinders contact for positioning, and the first cylinders of the two pressure-bearing shafts respectively pass through the two contact blades based on the limit of the stepped surface and extend to external portions of the contact blades to cooperate with working surfaces of the two pressing plates. The contact device of the breaker has a simple structure and reliable performance, and is convenient to machine and assemble.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/03/2017** **0326/2017** **October 2019** **06/01/2020** **29579**

(51)	**Int. Cl. [8] C01C 1/04 & C01B 3/02**
(71)	**1. CASALE SA (SWITZERLAND)** **2.** **3.**
(72)	**1. SKINNER, Geoffrey Frederick** **2. OSTUNI, Raffaele** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14183753.4 - 05-09-2015** **2. (PCT/EP2015/068019) - 05-08-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**PROCESS FOR PRODUCTION OF AMMONIA AND DERIVATIVES, IN PARTICULAR UREA**
	Patent Period Started From 05/08/2015 and Will end on 04/08/2035

(57) A process for producing ammonia and a derivative of ammonia from a natural gas feed comprising conversion of natural gas into a make-up synthesis gas; synthesis of ammonia; use of said ammonia to produce said derivative of ammonia, wherein a portion of the natural gas feed is used to fuel a gas engine; power produced by said gas engine; is transferred to at least one power user of the process, such as a compressor; heat is recovered from exhaust gas of said gas engine;, and at least part of said heat may be recovered as low-grade heat available at a temperature not greater than 200 ° C, to provide process heating to at least one thermal user of the process, such as CO2 removal unit or absorption chiller; a corresponding plant and method of modernization are also disclosed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/04/2009** **0597/2009** **August 2019** **06/01/2020** **29580**

(51)	**Int. Cl. [8] C07C 2/00**
(71)	**1. UOP LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. SOHN, Stephen W.** **2. RILEY, Mark G.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 60/863,459 - 30-10-2006** **2. (PCT/US2007/082899) - 29-10-2007** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) PROCESS FOR PRODUCING PHENYLALKANES OF DESIRED 2-PHENYL CONTENT

Patent Period Started From 29/10/2007 and Will end on 28/10/2027

(57) The alkylation of aromatic compound with acyclic mono-olefin is effected under alkylation conditions including the presence of solid catalyst to provide a phenylalkane product having a consistent, desired 2-phenyl content. At least a portion of the aromatic compound and mono-olefin is contacted with a catalyst comprising FAU molecular sieve and at least a portion of the aromatic compound and mono-olefin is contacted with a catalyst comprising UZM-8 catalyst.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/04/2015** **0660/2015** **September 2019** **06/01/2020** **29581**

(51)	**Int. Cl. [8] E02D 27/50, 5/80**
(71)	**1. BARDELLI, Guido (ITALY)** **2.** **3.**
(72)	**1. BARDELLI, Guido** **2. PICCA, Giancarlo** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) MO2012A000265 - 31-10-2012** **2. (PCT/IT2013/000300) - 30-10-2013** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**ANCHORING SYSTEM OF OBJECTS IN THE GROUND**
	Patent Period Started From 30/10/2013 and Will end on 29/10/2033

(57) A system of anchorage of objects in grounds, including an anchor base provided with tilted guides (B) for rods or pins to be inserted upon assembly; said base being rigidly connected or having a releasable connection with the object or the structure to be anchored to the ground; and said base being provided with tilted guides in minimum number of three; said guides having parallelepiped crossing section in such a way as to house a rod, each guide, presenting a corresponding section and being inserted when assembling the anchorage to the ground (T); the single rod having hollow section shape, obtained by folding a sheet of rigid material; the hollow section being open at the folding ends of the rod with a minimum distance (D) equal or higher to a fourth of the length of the side (L) of the parallelepiped section on which it is made. Various shapes of anchor bases and anchorage elements for the rod are described, in order to increase the capacity of gripping to the ground.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/04/2016** **0570/2016** **August 2019** **06/01/2020** **29582**

(51)	**Int. Cl. [8] B65D 30/00, 30/18, 33/08, 33/16**
(71)	**1. STARLINGER & CO GESELLSCHAFT M.B.H (AUSTRIA)** **2.** **3.**
(72)	**1. FURST, Herbert** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13187372.1 - 04-10-2013** **2. (PCT/EP2014/070361) - 24-09-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**BAG AND BAG-PRODUCTION METHOD**
	Patent Period Started From 24/09/2014 and Will end on 23/09/2034

(57) Bag having a tubular bag body is folded, at an end region, to form a bottom, which is connected to a cover sheet. The cover sheet comprises a central portion, two intermediate portions, which extend laterally from the central portion, and two outer portions, which extend laterally from the intermediate portions. The intermediate portions are folded over inwards along inner folding edges. The outer portions are folded over outwards along intermediate folding edges. The outer portions and the central portion are connected to the bottom. Grip holes defined by incisions, perforations or material weakening are formed in the central portion or in the outer portions and in the intermediate portions. With the cover sheet folded, the grip holes in the central portion or in the outer portions are arranged flush in relation to adjacent grip holes of the intermediate portions.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/03/2016** **0484/2016** **October 2019** **09/01/2020** **29583**

(51)	**Int. Cl. [8] B23K 1/00, 1/19, 1/20, 20/02, 20/16 & F28F 3/02 & F28D 9/00**
(71)	**1. ALFA LAVAL CORPORATE AB (SWEDEN)** **2.** **3.**
(72)	**1. SJODIN, Per** **2. WALTER, Kristian** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13186257.5 - 26-09-2013** **2. (PCT/EP2014/069240) - 10-09-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) METHOD FOR JOINING METAL PARTS

Patent Period Started From 10/09/2014 and Will end on 09/09/2034

(57) A method for joining a first metal part with a second metal part, the metal parts having a solidus temperature above 1000 ℃. The method comprises: applying a melting depressant composition on a surface of the first metal part, the melting depressant composition comprising a melting depressant component that comprises phosphorus and silicon for decreasing a melting temperature of the first metal part, bringing the second metal part into contact with the melting depressant composition at a contact point on said surface, heating the first and second metal parts to a temperature above 1000 ℃, and allowing a melted metal layer of the first metal component to solidify, such that a joint is obtained at the contact point. The melting depressant composition and related products are also described.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/06/2016** **1029/2016** **September 2019** **09/01/2020** **29584**

(51)	**Int. Cl. [8] B01D 53/14, 53/00, 3/14 & C10G 70/04, 70/06 & F25J 3/02**
(71)	**1. LINDE AKTIENGESELLSCHAFT (GERMANY)** **2.** **3.**
(72)	**1. FRITZ, Helmut** **2. HOFEL, Torben** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14000040.7 - 07-01-2014** **2. (PCT/EP2014/078168) - 17-12-2014** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) METHOD FOR SEPARATING A HYDROCARBON MIXTURE CONTAINING HYDROGEN, SEPARATING DEVICE, AND OLEFIN PLANT

Patent Period Started From 17/12/2014 and Will end on 16/12/2034

(57) The invention relates to a method for separating a hydrocarbon mixture containing hydrogen, which hydrocarbon mixture essentially contains, besides hydrogen, hydrocarbons having two carbon atoms and methane, by using a distillation column. Fluid of the hydrocarbon mixture is cooled in stages at a first pressure level, wherein first condensates are separated from the fluid. Fluid of the hydrocarbon mixture, which subsequently remains gaseous, is fed into a C2 absorber at the first pressure level, to which C2 absorber a liquid return (r) is fed at the top, wherein a second condensate (f) is drawn from the bottom of the C2 absorber and a gaseous top flow (g) predominantly containing methane and hydrogen is drawn at the top of the C2 absorber. Fluid of said gaseous top flow (g) from the top of the C2 absorber is cooled to a third temperature level and is transferred at the first pressure level into a hydrogen separator, in which a methane-rich third condensate (i) is separated from the fluid of the gaseous top flow (g), with the result that a gaseous, hydrogen-rich flow (h) remains. Fluid of the first condensates (b, d) and fluid of the second condensate (f) is depressurized from the first pressure level to a second pressure level and fed into the distillation column, which is operated at the second pressure level. Fluid of the third condensate (i) is used as the return (r) fed at the top of the C2 absorber, which fluid is separated from the fluid of the gaseous top flow (g) from the top of the C2 absorber in the hydrogen separator and is transferred from the hydrogen separator into the C2 absorber exclusively by means of the effect of gravity. The invention further relates to a corresponding separating device and to a corresponding olefin plant.

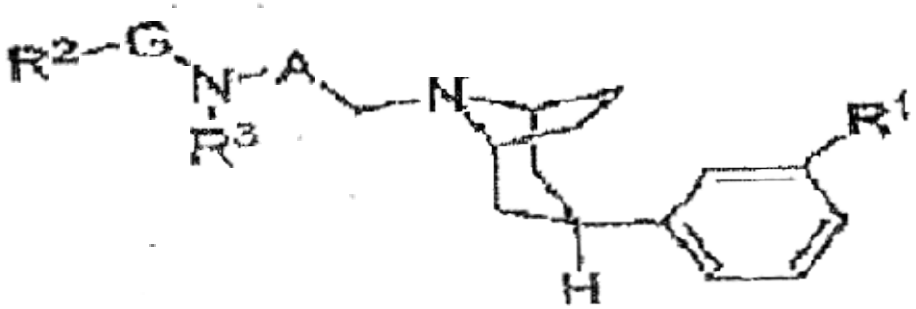
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/08/2008** **1349/2008** **September 2019** **12/01/2020** **29585**

(51)	**Int. Cl. [8] A61K 31/46, A61P 1/00, 1/10 & C07D 451/02**		
(71)	**1. THERAVANCE BIOPHARMA&DIP,LLC (UNITED STATES OF AMERICA)** **2.** **3.**		
(72)	**1. LONG, Daniel;** **2. Jiang, Lan** **3. Church, Timothy J.**	**4. Saito, Saisuke Roland** **5. Sterglades, Ioanna** **6. Preza, Leticia**	**6. Jacobsen, Gohn R.** **7. Dalziel, Sean** **9. Van Dyke, Priscilla**
(73)	**1.** **2.**		
(30)	**1. (US) 60/777.962 - 01-03-2006** **2. (US) 60/841.028 - 30-08-2006** **3. (PCT/US2007/005388) - 28-02-2007**		
(74)	**NAHED WADIH RIZK**		
(12)	**Patent**		

(54) 8-AZABICYCLO[3.2.1]OCTANE COMPOUNDS AS MU OPIOID RECEPTOR ANTAGONISTS FOR THE TREATMENT OF GASTROINTESTINAL DYSFUNCTION

Patent Period Started From 28/02/2007 and Will end on 27/02/2027

(57) The invention provides novel 8-azabicyclo[3.2.1]octane compounds of formula (I) wherein R1, R2, R3, A, and G are defined in the specification, or a pharmaceutically-acceptable salt or solvate thereof, that are antagonists at the mu opioid receptor. The invention also provides pharmaceutical compositions comprising such compounds, methods of using such compounds to treat conditions associated with mu opioid receptor activity,to treat the gastrointestinal dysfunction, and processes and intermediates useful for preparing such compounds.



Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/07/2008** **1170/2008** **October 2019** **12/01/2020** **29586**

(51)	**Int. Cl. [8] C05C 1/02**
(71)	**1. HONEYWELL INTERNATIONAL INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. WILLIAMS, RICHARD, J.** **2. KWEEDER, JAMES, A.** **3.**
(73)	**1.** **2.**
(30)	**1. (Us) 60/758.642 - 13-01-2006** **2. (US) 11/622.878 - 12-01-2007** **3. (PCT/US2007/060535) - 13-01-2007**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) STABILIZED COMPOSITIONS COMPRISING AMMONIUM NITRATE

Patent Period Started From 13/01/2007 and Will end on 12/01/2027

(57) Preferred aspects of the present invention provide ammonium nitrate compositions comprising ammonium nitrate and at least one stabilizing agent, and preferably a third compound. In certain preferred embodiments, the stabilizing agent, together with third compound, is present under conditions and in amounts effective to substantially reduce the detonation sensitivity of the composition and/or to otherwise improve a desired property of the composition.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/07/2016** **1179/2016** **November 2019** **14/01/2020** **29587**

(51)	**Int. Cl. [8] B63J 2/04 & B63G 13/02 & E06B 7/02 & H01Q 15/00, 17/00**
(71)	**1. DCNS (FRANCE)** **2.** **3.**
(72)	**1. RENAUD, Frédéric Fernand Pierre** **2. BERNICOT, Yves** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 14 00116 - 21-01-2014** **2. (PCT/EP2015/050412) - 12-01-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) VENTILATION LOUVRE AND ASSOCIATED NAVAL VESSEL

Patent Period Started From 12/01/2015 and Will end on 11/01/2035

(57) The invention relates to a ventilation louvre, comprising: a front surface intended for being visible and a rear surface intended for being concealed; a grating, fins attached to the grating substantially parallel to one another and defining ventilation passages between the front surface and the rear surface. Each fin has a substantially planar central surface that is substantially rectangular and defined by two side ends and two transverse ends, the transverse ends of the central portions of the fins being arranged parallel to the front plane and/or the rear plane, the side ends of the central portion of each fin having a length of 250 mm to 350 mm. The invention also relates to an associated naval vessel.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/11/2016** **1832/2016** **August 2019** **14/01/2020** **29588**

(51)	**Int. Cl. [8] B61D 17/04, 17/12, 17/08**
(71)	**1. ALSTOM TRANSPORT TECHNOLOGIES (FRANCE)** **2.** **3.**
(72)	**1. AWTUCH Bernard** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 15 60691- 09-11-2015** **2.** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) A SIMPLIFIED MODULAR STRUCTURE FOR A RAILWAY VEHICLE

Patent Period Started From 08/11/2016 and Will end on 07/11/2036

(57) The modular structure includes at least one first side panel and at least one second side panel positioned on either side of the railway vehicle in a transverse direction (Y), delimiting between them an inner space, and a pavilion extending between the first and second side panels in the transverse direction (Y), and including two lateral end portions, each being connected to respective one of the first and second side panels. Each lateral end portion of the pavilion extends substantially vertically and includes a vertical inner surface, turned towards the inner space, cooperating with a complementary receiving surface made on the corresponding first or second side panel. Figs.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/10/2016** **1781/2016** **November 2019** **15/01/2020** **29589**

(51)	**Int. Cl. [8] E05B 83/18**
(71)	**1. CHERY AUTOMOBILE CO., LTD (CHINA)** **2. WUHU POWER-TECHNOLOGY RESEARCH CO., LTD (CHINA)** **3.**
(72)	**1. LIU, Fagen** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (CN) 201410549513.8 - 16-10-2014** **2. (PCT/CN2015/090377) - 23-09-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**UNLOCKING MECHANISM FOR AN AUTOMOBILE BACK DOOR LOCK, AND AUTOMOBILE**
	Patent Period Started From 23/09/2015 and Will end on 22/09/2035

(57) Disclosed are an unlocking mechanism for an automobile back door lock, and an automobile, the unlocking mechanism for said automobile back door lock being provided with a first boss on a retaining pawl, and being also provided with a support piece and a first elastic component. When the automobile back door lock is in a locked state, the second end of the support piece abuts against the lower end of the first boss of the retaining pawl. when in the process of unlocking the automobile back door lock, a second flange rotates to a step of the retaining pawl; if the system backpressure of the automobile back door is insufficient, the second end of the support piece can, under the action of the first elastic component, abut against an upper part of the first boss of the retaining pawl, so as to cause the second flange of a latch plate no longer to engage with the step of the retaining pawl. The support piece is used to support the retaining pawl, which enables the back door lock to be always in an unlocked state, thereby ensuring that the automobile back door, which is not provided with a separate outward opening apparatus, can be opened smoothly.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/02/2015** **0189/2015** **August 2019** **15/01/2020** **29590**

(51)	**Int. Cl. [8] H04L 5/00, 25/02**
(71)	**1. TELEFONAKTIEBOLAGET L M ERICSSON (PUBL) (SWEDEN)** **2.** **3.**
(72)	**1. FRENNE, Mattias** **2. ERIKSSON, Erik** **3. SORRENTINO, Stefano**
(73)	**1.** **2.**
(30)	**1. (US) 13/917,717 - 14-06-2012** **2. (US) 61/679,335 - 03-08-2012** **3. (PCT/IB2013/056357) - 02-08-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) QUASI CO-LOCATED ANTENNA PORTS FOR CHANNEL ESTIMATION

Patent Period Started From 02/08/2013 and Will end on 01/08/2033

(57) Systems and methods are disclosed for estimating one or more channel properties of a downlink from a cellular communications network based on quasi co- located antenna ports with respect to the one or more channel properties. In one embodiment, a wireless device receives a downlink subframe including a downlink control channel from the cellular communications network. The wireless device estimates one or more large-scale channel properties for an antenna port of interest in the downlink control channel based on a subset of reference signals that correspond to antenna ports in the cellular communications network that are quasi co-located with the antenna port of interest with respect to the one or more large-scale channel properties. As a result of using the quasi co-located antenna ports, estimation of the one or more large-scale channel properties is substantially improved.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/04/2016** **0685/2016** **November 2019** **15/01/2020** **29591**

(51)	**Int. Cl. [8] F25J 1/00, 1/02**
(71)	**1. AIR PRODUCTS AND CHEMICALS, INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. MARK JULIAN ROBERTS** **2. YANG LIU** **3. FEI CHEN**
(73)	**1.** **2.**
(30)	**1. (US) 14/695521 - 24-04-2015** **2.** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) INTEGRATED METHANE REFRIGERATION SYSTEM FOR LIQUEFYING NATURAL GAS

Patent Period Started From 18/04/2016 and Will end on 17/04/2036

(57) Described herein is a method and system for liquefying a natural gas feed stream to produce an LNG product. The natural gas feed stream is liquefied, by indirect heat exchange with a gaseous methane or natural gas refrigerant circulating in a gaseous expander cycle, to produce a first LNG stream. The first LNG stream is expanded, and the resulting vapor and liquid phases are separated to produce a first flash gas stream and a second LNG stream. The second LNG stream is then expanded, with the resulting vapor and liquid phases being separated to produce the second flash gas stream and a third LNG stream, all or a portion of which forms the LNG product. Refrigeration is recovered from the second flash gas by using said stream to sub-cool the second LNG stream or a supplementary LNG stream.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/07/2011** **1185/2011 D1** **August 2019** **15/01/2020** **29592**

(51)	**Int. Cl. [8] C07D 231/16, 487/04 & C07F 5/04 ,7/08**	
(71)	**1. INCYTE CORPORATION (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. ZHOU, Jiacheng** **2. LIN,QIYAN** **3 Metcalf,brian,w** **4. Meloni,David** **5. WANG,HAISHCNG** **6.. xia,micheal**	**7. li,mei** **8. yue,tai-yen** **9. Rodgers,james,d** **10. LIU,PINGLI** **11. pan,yangchun**
(73)	**1.** **2.**	
(30)	**1. (US) 61/144,991 - 15-01-2009** **2. (PCT/US2010/021003) - 14-01-2010** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) PROCESSES FOR PREPARING INTERMEDIATE COMPOUNDS FOR JAK INHIBITORS

Patent Period Started From 14/01/2010 and Will end on 13/01/2030

(57) The present invention is related to processes for preparing protected 4-(1H-pyrazol-4-yl) -7H-pyrrolo [2,3-d]pyrimidines of Formula XII, and related synthetic intermediate compounds. The protected 4- (1H-pyrazol-4-yl)-7H-pyrrolo [2, 3-d]pyrimidines are advanced intermediates towards the synthesis of inhibitors of the Janus Kinase family of protein tyrosine kinases (JAKs) for treatment of inflammatory diseases, myeloproliferative disorders, and other diseases.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/07/2011** **1185/2011 D2** **August 2019** **15/01/2020** **29593**

(51)	**Int. Cl. [8] C07D 231/16, 487/04 & C07F 5/04 ,7/08**	
(71)	**1. INCYTE CORPORATION (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. ZHOU, Jiacheng** **2. LIU, Pingli** **3. LIN,QIYAN** **4. Metcalf,brian,w** **5. Meloni,David** **6. PAN, Yongchun**	**7. xia,micheal** **8. LI, Mei** **9. YUE, Tai-Yuen** **10 RODGERS, James** **11. WANG, Haisheng**
(73)	**1.** **2.**	
(30)	**1. (US) 61/144,991 - 15-01-2009** **2. (PCT/US2010/021003) - 14-01-2010** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) PROCESSES FOR PREPARING INTERMEDIATE COMPOUNDS FOR JAK INHIBITORS

Patent Period Started From 14/01/2010 and Will end on 13/01/2030

(57) The present invention is related to processes for preparing 4-chloro-7H-pyrrolo[2,3-d]pyrimidine of Formula XIa, and related synthetic intermediate compounds. 4-Chloro-7H-pyrrolo [2, 3-d]pyrimidine is an advanced intermediate towards the synthesis of inhibitors of the Janus Kinase family of protein tyrosine kinases (JAKs) for treatment of inflammatory diseases, myeloproliferative disorders, and other diseases.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/07/2011** **1185/2011 D3** **August 2019** **15/01/2020** **29594**

(51)	**Int. Cl. [8] C07D 231/16, 487/04 & C07F 5/04 ,7/08**	
(71)	**1. INCYTE CORPORATION (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. ZHOU, Jiacheng** **2. LIU, Pingli** **3. LIN,QIYAN** **4. Metcalf,brian,w** **5. Meloni,David** **6. PAN, Yongchun**	**7. xia,micheal** **8. LI, Mei** **9. YUE, Tai-Yuen** **10 RODGERS, James** **11. WANG, Haisheng**
(73)	**1.** **2.**	
(30)	**1. US) 61/144,991 - 15-01-2009** **2. (PCT/US2010/021003) - 14-01-2010** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) PROCESSES FOR PREPARING JAK INHIBITORS AND RELATED INTERMEDIATE COMPOUNDS

Patent Period Started From 14/01/2010 and Will end on 13/01/2030

(57) The present invention is related to processes for preparing chiral substituted pyrazolyl pyrrolo[2,3-d]pyrimidines of Formula Ia, and related synthetic intermediate compounds. The chiral substituted pyrazolyl pyrrolo[2,3-d]pyrimidines are useful as inhibitors of the Janus Kinase family of protein tyrosine kinases (JAKs) for treatment of inflammatory diseases, myeloproliferative disorders, and other diseases.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/09/2016** **1512/2016** **November 2019** **15/01/2020** **29595**

(51)	**Int. Cl. [8] F27D 1/16**
(71)	**1. VESUVIUS U S A CORPORATION (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. HERSHEY, Ryan** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/968,423 - 21-03-2014** **2. (PCT/US2015/012204) - 21-01-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) A REFRACTORY COMPOSITION FOR BLAST FURNACE HEARTH REPAIR

Patent Period Started From 21/01/2015 and Will end on 20/01/2035

(57) A formulation containing polymer, resin and cement combined with aggregate can be used as a gunnable mix that is applied to a surface by being conveyed pneumatically in dry form to a nozzle, where water is added. Polymer in the gunnable mix enables it to adhere and bond to a surface, such as carbon brick, of a lining of a vessel used for the containment of molten metals. The formulation may be used, for example, to repair and protect blast furnace hearth linings.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/02/2016** **0310/2016** **October 2019** **15/01/2020** **29596**

(51)	**Int. Cl. [8] E21B 21/08, 47/26**
(71)	**1. HALLIBURTON ENERGY SERVICES, INC. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. GOSNEY, Jon Troy** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/US2013/062730) - 30-09-2013** **2.** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**SYNCHRONOUS CONTINUOUS CIRCULATION SUBASSEMBLY WITH FEEDBACK**
	Patent Period Started From 30/09/2013 and Will end on 29/09/2033

(57) The present invention relates to an apparatus for controlling fluid ‎flow to a well bore, the apparatus comprising a conduit having an inlet ‎and an outlet and defining a flow path from the inlet to the outlet, the ‎conduit including a lateral port to the flow path between the inlet and ‎the outlet; a first valve configured for controlling flow to the ‎conduit from the lateral port of the conduit, the first valve extending ‎into the conduit such that any residual fluid in the conduit is prevented ‎from exiting to the outlet when the first valve is fully extended; a ‎second valve configured for controlling flow through the inlet of the ‎conduit; and a synchronous actuation member comprising one or more ‎solenoids and a controller coupled to the first and second valves, the ‎synchronous actuation member configured to synchronize the ‎operation of the first valve and second valve, wherein one of the one or ‎more solenoids, when activated by the controller, actuates the first ‎valve to extend into the conduit .‎

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/01/2017** **0102/2017** **October 2019** **19/01/2020** **29597**

(51)	**Int. Cl. [8] B01D 53/14**
(71)	**1. CCR TECHNOLOGIES, LTD. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. RAYMOND G. F. ABRY** **2. TERRANCE TROFIMUK** **3. STEVEN AYRES**
(73)	**1.** **2.**
(30)	**1. (US) 027,484/62 - 22-07-2014** **2. (PCT/US2015/041474) - 22-07-2015** **3.**
(74)	
(12)	**Patent**

(54) PROCESS FOR RECOVERING PROCESSING LIQUIDS FROM STREAMS CONTAINING ALKALINE EARTH METAL SALTS

Patent Period Started From 22/07/2015 and Will end on 21/07/2035

(57) A process for recovering processing liquids from a feed stream which contains processing fluid, water, and at least one alkaline earth metal cation. The process includes reacting at least one alkaline earth metal cation with a suitable anion to form a substantially water-insoluble salt precipitate, the precipitate being formed in one of a fractionation column having a forced recycle loop or a flash vessel having a forced heated recycle loop.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/06/2016** **0909/2016** **October 2019** **19/01/2020** **29598**

(51)	**Int. Cl. [8] C09K 8/03, 8/487, 8/516 & E21B 33/12 & C01B 31/02**
(71)	**1. SUPERIOR GRAPHITE CO. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. Changjun Zhou** **2. Richard D. Nelson** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 140.730/14 - 26-12-2013** **2. (PCT/US2014/062109) - 24-10-2014** **3.**
(74)	**Gorge ishak menna**
(12)	**Patent**

(54) COMPRESSIBLE CARBONACEOUS PARTICULATE MATERIAL AND METHOD OF MAKING SAME

Patent Period Started From 24/10/2014 and Will end on 23/10/2034

(57) This invention relates to a carbonaceous particulate material is provided that is characterized by having a reversible volumetric expansion/contraction in fluid media (VR) of greater than or equal to (≤) 3% between 4,000 psi and 10,000 psi. The porous carbonaceous particulate material of the present disclosure is also characterized by having a true density, (PT), of 1.2 g/cc $\geq P_T \geq$ 2.0 g/cc, when milled to -200 mesh and has a d50 particle size distribution of about 15 µm. This is the consequence of the instant material exhibiting a high level of closed porosity with very small pores, in contrast with prior art materials that would have a wider range pore sizes for the closed pores.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/10/2016** **1649/2016** **November 2019** **19/01/2020** **29599**

(51)	**Int. Cl. [8] C01B 3/02, 3/38**
(71)	**1. CASALE SA (SWITZERLAND)** **2.** **3.**
(72)	**1. FILIPPI, Ermanno** **2. OSTUNI, Raffaele** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14163911.2 - 08-04-2014** **2. (PCT/EP2015/097010) - 03-04-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**A METHOD FOR REVAMPING A FRONT-END OF AN AMMONIA PLANT**
	Patent Period Started From 03/04/2015 and Will end on 02/04/2035

(57) A method for revamping a front-end of an ammonia plant, said front- end comprising a reforming section with air-fired secondary reformer or autothermal reformer, a treatment section of the effluent from said reforming section, and an air feed compressor, wherein an O_2-containing stream is directed to said reforming section for use as oxidant, at least one nitrogen stream is introduced at a suitable location of the front-end, to provide a desired molar ratio between hydrogen and nitrogen in the product gas, and at least part of said nitrogen stream is compressed via said feed compressor.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/05/2017** **0910/2017** **November 2019** **19/01/2020** **29600**

(51)	**Int. Cl. [8] C07F 7/02**
(71)	**1. S2P AG STRAW - PULP & PAPER (SWITZERLAND)** **2.** **3.**
(72)	**1. HORNLEIN, Karl-Heinz** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14195619.3 - 01-12-2014** **2. (PCT/EP2015/071695) - 22-09-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) METHOD FOR PRODUCING FERTILIZER FROM A BIOPOLYMER, AND FERTILIZER

Patent Period Started From 22/09/2015 and Will end on 21/09/2035

(57) The invention relates to a method for producing a nitrogen-containing fertilizer from a liquid black liquor, wherein a black liquor is formed from lignocellulose-containing biomass. A majority of contained lignin constituents are decomposed into monomeric, dimeric to trimeric compounds, and at least one free alkanolamine, in particular monoethanolamine, is removed from the liquid black liquor. The black liquor is cooled to room temperature and combined with water, a defined flowable state of the black liquor being set. The flowable black liquor is supplied to a mixing device and combined with powder solids so as to form a pasty mixture which is formed into granules.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/08/2014** **1361/2014** **November 2019** **19/01/2020** **29601**

(51)	**Int. Cl. [8] A61F 13/15, 13/00, 13/472, 13/511**
(71)	**1. UNICHARM CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. NAKASHITA, Masashi** **2. WADA, Ichiro** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2012-043969 - 29-02-2012** **2. (PCT/JP2013/053879) - 18-02-2013** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**ABSORBENT ARTICLE**
	Patent Period Started From 18/02/2013 and Will end on 17/02/2033

(57) The purpose of the present invention is to provide an absorbent article in which a top sheet does not have the conventional concavo-convex shape, and the top sheet feels dry and does not feel sticky even after absorbing menstrual blood having a high viscosity. This absorbent article has a liquid-permeable top sheet, a liquid-impermeable back sheet, and an absorbent disposed between the liquid-permeable top sheet and the liquid-impermeable back sheet, wherein the liquid-permeable top sheet has a grammage of 5 to 30 g/m^2 and a thickness of 0.10 to 0.30 mm in a region that comes into contact with an excretory opening, the liquid-permeable top sheet contains a blood modifier in the skin abutting surface of the region that comes into contact with an excretory opening, and the blood modifier is a polyoxypropylene-glycol-based compound.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/09/2016** **1553/2016** **September 2019** **19/01/2020** **29602**

(51)	**Int. Cl. [8] H04N 19/94, 19/80**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. ZOU, Feng** **2. PU, Wei** **3. JOSHI, Rajan Laxman**	**4. SOLE ROJALS, Joel** **5. KARCZEWICZ, Marta**
(73)	**1.** **2.**	
(30)	**1. (US) 61/970,838 - 26-03-2014** **2. (US) 14/667,900 -25-03-2015** **3. (PCT/US2015/022771) - 26-03-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) DETERMINING PALETTE SIZE, PALETTE ENTRIES AND FILTERING OF PALETTE CODED BLOCKS IN VIDEO CODING

Patent Period Started From 26/03/2015 and Will end on 25/03/2035

(57) Techniques are described for palette-based coding. In palette-based coding, a video coder may form a palette as a table of colors for representing video data of a given block. Palette-based coding may be useful for coding blocks of video data having a relatively small number of colors. Rather than coding actual pixel values or their residuals for the given block, the video coder may code index values for one or more of the pixels. The index values map the pixels to entries in the palette representing the colors of the pixels. Techniques are described for determining whether to disable filtering, such as deblocking filtering or sample adaptive offset (SAO) filtering, of palette coded blocks at a video encoder or a video decoder. Techniques are also described for modify a palette size and palette entries of a palette at the video encoder based on rate-distortion costs.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/10/2016** **1677/2016** **November 2019** **19/01/2020** **29603**

(51)	**Int. Cl. [8] E21B 43/267 & C09K 8/80, 8/92**
(71)	**1. SCHLUMBERGER, TECHNOLOGY B.V. (NETHERLANDS)** **2.** **3.**
(72)	**1. FU, Diankui** **2. SHALAGINA, Anastasia Evgenyevna** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/RU2014/000271) - 15-04-2014** **2.** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**TREATMENT FLUID**
	Patent Period Started From 15/04/2014 and Will end on 14/04/2034

(57) Proppant transport assist in low viscosity treatment fluids. Treatment fluids and methods use fiber to inhibit proppant settling without an unacceptable bridging tendency.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/12/2014** **1997/2014** **November 2019** **19/01/2020** **29604**

(51)	**Int. Cl. [8] E21B 33/12, 33/13, 43/267**	
(71)	**1. Schlumberger Technology B.V (NETHERLANDS)** **2.** **3.**	
(72)	**1. Bruno Lecerf** **2. Chad Kraemer** **3. Timothy L. Pope**	**4. Dean M. Willberg** **5. Zinaida Usova**
(73)	**1.** **2.**	
(30)	**1. (NL)14/103152 - 11-12-2013** **2.** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) METHODS FOR MINIMIZING OVERDISPLACEMENT OF PROPPANT IN FRACTURE TREATMENTS

Patent Period Started From 10/12/2014 and Will end on 09/12/2034

(57) A method of treating a subterranean formation includes generating a fracture in the subterranean formation, introducing a predetermined amount of proppant into a treatment fluid, and subsequently introducing a plugging agent into the treatment fluid before the entire predetermined amount of proppant reaches the fracture, minimizing overdisplacement of the proppant from the fracture.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/08/2015** **1318/2015** **August 2019** **19/01/2020** **29605**

(51)	**Int. Cl. [8] C04B 35/00, 41/00**
(71)	**1. AGRICULTURAL MAGNETICS, LTD (INDIA)** **2.** **3.**
(72)	**1. LENHARDT, Theodore** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 13/828,787 - 14-03-2013** **2. (PCT/US2014/025273) - 13-03-2013** **3.**
(74)	**SHADY FAROUK AL-MUBARAK**
(12)	**Patent**

(54) APPARATUS FOR RECONFIGURING SPRAY EQUIPMENT

Patent Period Started From 13/03/2014 and Will end on 30/03/2034

(57) The invention relates to a wear indicator in a composite system of refractory ceramic stones

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/12/2016** **2085/2016** **August 2019** **19/01/2020** **29606**

(51)	**Int. Cl. [8] E21B 43/267, 28/00 & C09K 8/80**	
(71)	**1. SCHLUMBERGER TECHNOLOGY B.V (NETHERLANDS)** **2.** **3.**	
(72)	**1. PANTSURKIN, Danil Sergeyevich** **2. HORVATH SZABO, Geza** **3. KRAEMER, Chad**	**4. PANGA, Mohan**
(73)	**1.** **2.**	
(30)	**1. (PCT/RU2014/000473) - 30-06-2014** **2.** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) METHOD FOR PLANNING PRODUCTION AND INJECTION WELLS

Patent Period Started From 30/06/2014 and Will end on 29/06/2034

(57) The claimed invention relates to downhole systems for extracting various fluids and, in particular, for extracting fluid from a hydrocarbon-containing formation by hydraulic fracturing. According to the proposed method, a hydraulic fracturing fluid which does not contain a proppant is pumped into a wellbore, thus creating a fracture in a formation, and hydraulic fracturing fluid is introduced into the wellbore in a pulsed mode, said pulsed mode entailing the presence of at least one pulse for the injection of a hydraulic fracturing fluid which contains a proppant and at least one pulse for the injection of a hydraulic fracturing fluid which does not contain a proppant. Also proposed are methods for extracting and pumping a fluid. Also proposed are methods for extracting, pumping and recovering fluids using a hydraulic fracturing method. The proposed method makes it possible to extend the life of a well by reducing the effect of liquid on the walls of a fracture and on proppant clusters.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/04/2015** **0600/2015** **August 2019** **19/01/2020** **29607**

(51)	**Int. Cl. [8] H03F 1/02**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. MATHE, Lennart Karl-Axel** **2. SHI, Song Stone** **3. SHI, Yunfei**
(73)	**1.** **2.**
(30)	**1. (US) 13/659,667 - 24-10-2012** **2. (PCT/US2013/066701) - 24-10-2013** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) BOOST CONVERTER CONTROL FOR ENVELOPE TRACKING

Patent Period Started From 24/10/2013 and Will end on 23/10/2033

(57) Techniques for controlling boost converter operation in an envelope tracking ET system. In an aspect, an enable generation block is provided to generate an enable signal (Ven) for a boost converter, wherein the enable signal (Ven) is turned on in response to detecting that a sum of a first headroom voltage and an enable peak of a tracking supply voltage Vamp is greater than an amplifier supply voltage (VDD)_Amp of the ET system. The enable signal Ven may be turned on for a predetermined enable on duration. In another aspect, a target generation block is provided to generate a target voltage Vtarget for the boost converter 110, wherein the target voltage (Vtarget) comprises the sum of a second headroom voltage and a target peak of the tracking supply voltage (Vamp).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/11/2015** **1874/2015** **November 2019** **19/01/2020** **29608**

(51)	**Int. Cl. [8] B65D 17/00, 6/30**
(71)	**1. CROWN PACKAGING TECHNOLOGY, INC** **2.** **3.**
(72)	**1. JOHNSON, Ezekiel** **2. FIELDS, Brian** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/829,874 - 31-05-2013** **2. (PCT/US2014/039974) - 29-05-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) BEVERAGE CAN END HAVING AN ARCUATE PANEL WALL AND CURVED TRANSITION WALL

Patent Period Started From 29/05/2014 and Will end on 28/05/2034

(57) A beverage can end has an arcuate panel wall and a chuck wall having a curved transition wall portion. Configuration of the seaming panel and panel wall is provided.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/12/2016** **2003/2016** **August 2019** **19/01/2020** **29609**

(51)	**Int. Cl. [8] G21D 1/00 & G21C 15/247**	
(71)	**1. JOINT STOCK COMPANY "AKME-ENGINEERING** **2.** **3.**	
(72)	**1. MARTYNOV, Petr Nikiforovich** **2. ASKHADULLIN, Radomir Shamilievich** **3. GULEVSKIY, Vitaliy Alekseevich**	**4. UL'YANOV, Vladimir Vladimirovich** **5. TEPLYAKOV, Yuriy Aleksandrovich** **6. FOMIN, Artem Sergeevic**
(73)	**1.** **2.**	
(30)	**1. (RU) 2014123854 - 11-06-2014** **2. (PCT/RU2015/000365) - 11-06-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) NUCLEAR POWER PLANT AND DEVICE FOR FEEDING A COVER GAS INTO THE PLANT

Patent Period Started From 11/06/2015 and Will end on 10/06/2035

(57) The invention relates to nuclear power engineering and can be used in power plants with lead-containing liquid metal coolants, and particularly in fast neutron reactors. The invention makes it possible to increase the operating safety of a nuclear power plant. For this purpose, a nuclear power plant is proposed which is characterized in that it includes: a reactor vessel with a core and a peripheral part; a shaft with an active region, said shaft being situated in the core of the vessel; a liquid metal coolant, at least one circulation pump for enabling the circulation of said liquid metal coolant, and at least one steam generator, situated in the peripheral part of the vessel; a cavity with a cover gas, said cavity being situated above the coolant; and at least one cover gas feed device, situated in the peripheral part of the vessel above the top edge of the steam generator in the intake region of the circulation pump, comprising an intake part and a working part, wherein the intake part is situated in the aforementioned cover gas cavity and has openings in its top part, and the working part is situated below the surface level of the liquid metal coolant.

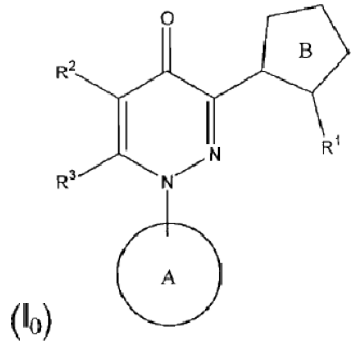
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/07/2011** **1236/2011** **July 2019** **20/01/2020** **29610**

(51)	**Int. Cl. [8] C07D 401/14, 403/04, 403/14, 405/04, 405/14 , 409/04, 409/14, 413/14 & A 61K 31/501, 31/50 & A61P 25/18**	
(71)	**1. TAKEDA PHARMACEUTICAL COMPANY LIMITED (JAPAN)** **2.** **3.**	
(72)	**1. KONDO, Mitsuyo** **2. KUNITOMO, Jun** **3. FUSHIMI, Makoto** **4. QUINN, John, F**	**5. TANIGUCHI, Takahiko** **6. KAWADA, Akira** **7. YOSHIKAWA, Masato**
(73)	**1.** **2.**	
(30)	**1. (US) 202207 / 61 - 05-02-2009** **2. (US) 213927 / 61 - 30-07-2009** **3. (PCT/US2010/000307) - 04-02-2010**	
(74)	**ABD ELHADI OFFICE**	
(12)	**Patent**	

(54) PYRIDAZINONE DERIVATIVES AS PDE INHIBITORS FOR TREATMENT OF SCHIZOPHRENIA

Patent Period Started From 04/02/2010 and Will end on 03/02/2030

(57) The present invention provides a compound which has the effect of PDE inhibition, and which is useful as a medicament for preventing or treating schizophrenia or so on. A compound of formula (I0),



(I_0)

wherein R^1 represents a substituent; R^2 represents a hydrogen atom, or a substituent; R3 represents a hydrogen atom, or a substituent; Ring A represents an aromatic ring which can be substituted, and Ring B represents a 5-membered heteroaromatic ring which can be substituted, or a salt thereof, wherein the compounds of the present application are pyridazinone derivatives.

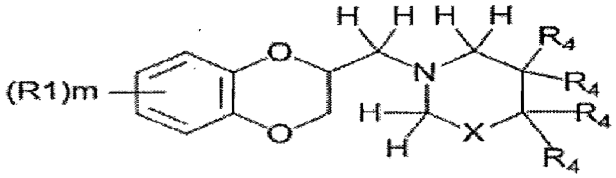
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/01/2010** **0079/2010** **July 2019** **20/01/2020** **29611**

(51)	**Int. Cl. [8] C07D 405/06, A61K 31/357, A61P 25/00**	
(71)	**1. ORION CORPORATION** **2.** **3.**	
(72)	**1. KARLJALAINEN, Arto** **2. HOLM, Patrik** **3. DIN BELLE, David**	**4. WOHLFAHRT, Gerd** **5. TOLVANEN, Arto**
(73)	**1.** **2.**	
(30)	**1. (US) 60/950,983 - 20-07-2007** **2. (PCT/FI2008/000090) - 18-07-2008** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) 2،3-DIHYDROBENZO[1, 4] DIOXIN-2-YLMETHYL DERIVATIVES AS ALPHA2C ANTAGONISTS FOR USE IN THE TREATMENT OF PERIPHERIC AND CENTRAL NERVOUS SYSTEME DISEASES

Patent Period Started From 18/07/2008 and Will end on 17/07/2028

(57) Compounds of formula (I), wherein X, Z, R1-R4, and m are as defined in the claims, exhibit alpha2C antagonistic activity and are thus useful for the treatment of diseases and conditions of the peripheric system and the central nervous system (CNS).



I

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/03/2016** **0376/2016** **August 2019** **21/01/2020** **29612**

(51)	**Int. Cl. [8] C02F 1/461, 1/469 & C25B 13/08, 1/26**
(71)	**1. Industrie de Nora S.P.A. (ITALY)** **2.** **3.**
(72)	**1. BENEDETTO, Mariachiara** **2. NISHIKI, Yoshinori** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) MI2013A001521 - 16-09-2013** **2. (PCT/EP2014/069610) - 15-09-2014** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**ELECTROLYTIC CELL FOR THE PRODUCTION OF OXIDISING SOLUTIONS**
	Patent Period Started From 15/09/2014 and Will end on 14/09/2034

(57) The invention relates to a three-compartment electrolytic cell for production of oxidising disinfectant solutions. The intermediate compartment of the cell is separated from the anodic compartment by a fibrous diaphragm in intimate contact with an anion-exchange membrane. The diaphragm is formed by a network of organic polymer fibres mechanically bound to ceramic particles. The cathodic compartment is separated from the intermediate compartment by a cation-exchange membrane. Within intermediate compartment a saturated solution of sodium chloride is recycled. Inside tank a decomposition catalyst is contained.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/11/2016** **1931/2016** **August 2019** **22/01/2020** **29613**

(51)	**Int. Cl. [8] F04D 15/00, 15/02, 29/70, 7/04**
(71)	**1. XYLEM IP MANAGEMENT S.A.R.L. (LUXEMBOURG)** **2.** **3.**
(72)	**1. FULLEMANN, Alexander** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (SE) 1450673-7 - 03-06-2014** **2. (PCT/IB2015/054145) - 01-06-2015** **3.**
(74)	**YOUSSEF M. JOSEPH**
(12)	**Patent**

(54) METHOD FOR CONTROLLING A PUMP ARRANGEMENT

Patent Period Started From 01/06/2015 and Will end on 31/05/2035

(57) The invention relates to a method for controlling a pump arrangement upon clogging of a pump, the pump arrangement comprising a pump and a control unit, the pump comprising a motor, and the control unit being arranged to drive said motor, the motor during operation being associated with an operational parameter from which the torque of the motor may be derived, said operational parameter has a normal value P_N during normal operation of the motor in a first direction. The method being characterized by the steps of driving the motor in a first direction by means of the control unit, stopping the motor if a real value P of the operational parameter exceed a predetermined clogging limit PI, where $P_I \geq 1{,}05 * P_N$, driving the motor in a the first direction opposite second direction a predetermined flushing time TR by means of the control unit, and stopping the motor if the absolute value of the real value P of the operational parameter during the flushing time T_R exceed the absolute value of a first unfastening limit P_{L1}, where $|PL1| \geq 1{,}1 * P_I$, otherwise stopping the motor after said flushing time TR and returning to normal operation.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/03/2012** **0511/2012** **May 2019** **22/01/2020** **29614**

(51)	**Int. Cl. [8] G10L 19/02 & H03M 7/30**
(71)	**1. SONY CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. HATANAKA, Mitsuyuki** **2. YAMAMOTO, Yuki** **3. CHINEN, Toru**
(73)	**1.** **2.**
(30)	**1. (JP) 2010-174758 - 03-08-2010** **2. (PCT/JP2011/004260) - 27-07-2011** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) AUDIO SIGNAL PROCESSING APPARATUS AND METHOD

Patent Period Started From 27/07/2011 and Will end on 26/07/2031

(57) A method and system for processing an encoded audio signal is described. In one exemplary embodiment, the system receives an encoded low-frequency range signal and encoded energy information used to frequency shift the encoded low-frequency range signal. The low-frequency range signal is decoded and an energy depression of the decoded signal is smoothed. The smoothed low-frequency range signal is frequency shifted to generate a high-frequency range signal. The low-frequency range signal and high-frequency range signal are then combined and outputted.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/08/2012** **1428/2012** **May 2019** **21/01/2020** **29615**

(51)	**Int. Cl. [8] G10L 19/00**	
(71)	**1. FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN** **2. FORSCHUNG E.V. (GERMANY)** **3.**	
(72)	**1. WABNIK, Stefan** **2. KRAEGELOH, Stefan** **3. GREEVENBOSCH, Bert** **4. ZITZMANN, Reinhard** **5. PICKEL, Joerg** **6. DEL GALDO, Giovanni**	**7. BORSUM, Juliane** **8. BREILING, Marco** **9. BLIEM, Tobias** **10. BLIEM, Tobias** **11. EBERLEIN, Ernst**
(73)	**1.** **2.**	
(30)	**1. (EP) 10154951.7 - 26-02-2010** **2. (PCT/EP2011/052627) - 22-02-2011** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) WATERMARK DECODER AND METHOD FOR PROVIDING BINARY MESSAGE DATA

Patent Period Started From 22/02/2011 and Will end on 21/02/2013

(57) A watermark decoder comprises a time-frequency-domain representation provider, a memory unit, a synchronization determiner and a watermark extractor. The time- Frequency-domain representation provider provides a frequency-domain representation of the watermarked signal for a plurality of time blocks. The memory unit stores the frequency-domain representation of the watermarked signal for a plurality of time blocks. Further, the synchronization determiner identifies an alignment time block based on the frequency-domain representation of the watermarked signal of a plurality of time blocks. The watermark extractor provides binary message data based on stored frequency-domain representations of the watermarked signal of time blocks temporally preceding the identified alignment time block considering a distance to the identified alignment time block.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/02/2013** **0177/2013** **September 2019** **22/01/2020** **29616**

(51)	**Int. Cl. [8] H04J 99/00 & H04B 7/04**
(71)	**1. SUN PATENT TRUST (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. MURAKAMI, Yutaka** **2. KIMURA, Tomohiro** **3. OUCHI, Mikihiro**
(73)	**1.** **2.**
(30)	**1. (JP) 2010-234061 - 18-10-2010** **2. (JP) 2010-275164 - 09-12-2010** **3. (PCT/JP2011/005801) - 17-10-2011**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**TRANSMISSION METHOD, TRANSMISSION DEVICE, RECEPTION METHOD, AND RECEPTION DEVICE**
	Patent Period Started From 17/10/2011 and Will end on 16/10/2031

(57) A precoding method that generates a plurality of precoded signals from a plurality of baseband signals, said precoded signals being transmitted in the same frequency band at the same time. One matrix is selected from among N matrices (F[i], with N) for the aforementioned plurality of baseband signals, and a first precoded signal (z1) and second precoded signal (z2) are generated. A first encoded block and second encoded block are generated using a prescribed error-correction-block encoding scheme. One M-symbol baseband signal is generated from the first encoded block and another from the second encoded block. Then, a precoding process is performed on the combination of the baseband signal generated from the first encoded block and the baseband signal generated from the second encoded block, thereby generating an M-slot precoded /signal.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/11/2005** **0725/2005** **September 2019** **22/01/2020** **29617**

(51)	**Int. Cl. [8] H04J 11/00**
(71)	**1. QUALCOMM, INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. SUTIVONG, Arak.** **2. NAGUIB, Ayman, Fawzy** **3. AGR AWAL,AVNEE SH**
(73)	**1.** **2.**
(30)	**1. (US) 60/470.724 - 14-05-2003** **2. (US) 10/809.538 - 24-03-2004** **3. (PCT/US2004/015204) – 14-05-2004**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) INTERFERENCE AND NOISE ESTIMATION IN AN OFDM SYSTEM

Patent Period Started From 14/05/2004 and Will end on 13/05/2024

(57) Noise and interference can be independently measured in a multiple user Orthogonal Frequency Division Multiplexing (OFDM) system. Co-channel interference is measured in a frequency hopping, multiple user, OFDM system by tracking the sub-carriers assigned to all users in a particular service area or cell. The composite noise plus interference can be determined by measuring the amount of received power in a sub-carrier whenever it is not assigned to any user in the cell. A value is stored for each sub-carrier in the system and the value of noise plus interference can be a weighted average of the present value with previously stored values. The noise component can be independently determined in a synchronous system. In the synchronous system, all users in a system may periodically be prohibited from broadcasting over a sub-carrier and the received power in the sub-carrier measured during the period having no broadcasts.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/06/2015** **0854/2015** **September 2019** **22/01/2020** **29618**

(51)	**Int. Cl. [8] H04W 52/02**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. ZHANG, Xiaoru** **2. CHO, James, Simon** **3. NG, Tao-Fei, Samuel**	**4. AIDA, Sreepathy, Laxmanbabu**
(73)	**1.** **2.**	
(30)	**1. (US) 13/706,279 - 05-12-2012** **2. (PCT/US2013/072327) - 27-11-2013** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54)	**POWER MANAGEMENT OF COMMUNICATION DEVICES**
	Patent Period Started From 27/11/2013 and Will end on 26/11/2033

(57) At a communication device, a packet received via a communication media is processed. While the packet is being processed, power to at least one component in the communication device is reduced, in response to a condition associated with the processing of the packet being satisfied. Power to the at least one component is restored prior to receiving an entirety of the packet at the communication device.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/04/2015** **0645/2015** **August 2019** **22/01/2020** **29619**

(51)	**Int. Cl. [8] H02J 7/00 , G06F 1/26**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. HAWAWINI, Shadi** **2. PAPARRIZOS, Georgios, K.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/719,822 - 29-10-2012** **2. (US) 13/759,865 - 05-02-2013** **3. (US) 13/956,574 - 01-08-2013** **4. (PCT/US2013/066854) - 25-10-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**HIGH VOLTAGE DEDICATED CHARGING PORT**
	Patent Period Started From 25/10/2013 and Will end on 24/10/2033

(57) Circuitry in an electronic device may be attached to external device, such as a power supply, to receive a voltage at a desired voltage level from the external device. The circuitry may assert one of several electrical configurations on the cabling that electrically connects the portable device to the external device to indicate to the external device a desired voltage level.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/06/2015** **0936/2015** **August 2019** **22/01/2020** **29620**

(51)	**Int. Cl. [8] H04L 29/08**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. HERSHBERG, Joshua** **2. BERELEJIS, Gabriel** **3. MIZROTSKY, Eitan**
(73)	**1.** **2.**
(30)	**1. (US) 61/736,981 - 13-12-2012** **2. (US) 14/103,437 – 11-12-2013** **3. (PCT/US2013/074805) - 12-12-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**LOADING A RE-DIRECTED WEB RESOURCE ON A WEB BROWSER OF A CLIENT DEVICE IN A COMMUNICATIONS SYSTEM**
	Patent Period Started From 12/12/2013 and Will end on 11/12/2033

(57) In an embodiment, a client device transmits a request for an initial web resource to a proxy server. The proxy server requests the initial web resource on behalf of the client device in response to the client device's request. The proxy server then executes a web resource redirection procedure (which involves one or more redirects) that is independent of interaction with the client device and results in the proxy server obtaining web resource content. The proxy server delivers the web resource content to a proxy client application on the client device along with instructions for simulating, on the client device, the web resource redirection procedure between the proxy client application and a mobile web browser on the client device. The proxy client application on the client device then simulates the web resource redirection procedure that occurred at the proxy server as instructed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/06/2011** **0901/2011** **August 2019** **22/01/2020** **29621**

(51)	**Int. Cl. [8] A01H 5/10 & C12C 1/18, 7/00, 12/00, 15/01**	
(71)	**1. CARLSBERG BREWERIES A/S (DENMARK)** **2. Heineken Supply Chain B.V (Netherland)** **3.**	
(72)	**1. BREDDAM, Klaus** **2. OLSEN, Ole** **3. HAMBRAEUS, Gustav** **4. KNUDSEN, SOren**	**5. BECH, Lene MOlskov** **6. SORENSEN, Steen, Bech** **7. SKADHAUGE, Birgitte**
(73)	**1.** **2.**	
(30)	**1. (DK 03-12-2008) 200801708 -** **2. (PCT/DK2009/050315) - 01-12-2009** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) BARLEY AND MALT-DERIVED BEVERAGES WITH LOW DIMETHYL SULFIDE LEVEL

Patent Period Started From 01/12/2009 and Will end on 30/11/2029

(57) According to the invention, there is provided barley-derived beverages characterized by notably reduced levels of both dimethyl sulfide (DMS) and/or its precursor S-methyl-L- methionine (SMM), or lacking said compounds. In addition, the invention relates to methods for producing the above-mentioned beverages - and also to barley plants useful in the preparation of such beverages, as well as other plant products prepared from said plants. Utilization of the invention clears the way for making improved production procedures of beverages with improved taste profiles, and promises also for notable reductions in the thermal energy input for production of beer.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/02/2010** **0255/2010** **October 2019** **22/01/2020** **29622**

(51)	**Int. Cl. [8] F25J 3/00, 1/00**
(71)	**1. 35 Gas technologies ltd (**Cyprus) **2.** **3.**
(72)	**1. FEYGIN, Vladimir Isaakovich** **2. DMITRIEV, Leonard Makarovich** **3. IMAEV, Salavat Zainetdinovich** **4. BAGIROV, Lev Arkadievich** **5. ALFEROV, Vadim Ivanovich**
(73)	**1.** **2.**
(30)	**1. (RU) 2007131786 - 22-08-2007** **2. (PCT/RU2008/000498) - 31-07-2008** **3.**
(74)	**ALFONS ROSHDY REYAD**
(12)	**Patent**

(54) GAS LIQUEFACTION AND SEPARATION DEVICE-DISPOSITIF DE LIQUEFACTION ET DE SEPARATION DES GAZ

Patent Period Started From 31/07/2008 and Will end on 30/07/2028

(57) The invention relates to cryogenic engineering. The inventive device for liquefying and separating gas and for releasing one or more gases from a mixture thereof, comprises, in series axially positioned, a prechamber with gas flow whirling means arranged therein, a subsonic or supersonic nozzle with a working segment, which is abutted thereto and to which liquid phase extracting means is connected, and a subsonic diffuser or the combination of a supersonic and the subsonic diffuser. The nozzle is designed in such a way that it makes it possible to achieve the ratios, between the inlet and outlet cross-sectional areas and the minimum cross-section thereof, which provides, at the output of the nozzle, a statical pressure and a statical temperature corresponding to the conditions of condensation of gas or target gas mixture components. The length of the working segment is selected according to a condition of forming condensate drops with a size greater than 0.5 mkm and of drifting them, by centrifugal forces, from the axial area of the working segment to the walls of the drop extracting means, and the aperture angle of the working segment is selected such as to maintain the conditions of condensation of the gas or the target components thereof. The device is provided with an additional nozzle arranged in the prechamber.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/01/2010** **0036/2010** **October 2019** **22/01/2020** **29623**

(51)	**Int. Cl. [8] C04B 28/00**
(71)	**1. REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG (AUSTRIA)** **2.** **3.**
(72)	**1. PETRITZ, Bernd** **2. LUFTENEGGER, Alfons** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2007 032 892.5 - 14-07-2007** **2. (PCT/EP2008/006396) - 01-07-2008** **3.**
(74)	**MHOHMED MOHMED BAKER**
(12)	**Patent**

(54) UNSHAPED REFRACTORY MATERIAL, A PROCESS FOR PRODUCING AN EARTH-MOIST, UNSHAPED REFRACTORY MATERIAL

Patent Period Started From 01/07/2008 and Will end on 30/06/2028

(57) The invention relates to an unshaped refractory material, to a process for producing an earth-moist, unshaped refractory material, and also to the use of the unshaped refractory material.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/11/2015** **1793/2015** **November 2019** **22/01/2020** **29624**

(51)	**Int. Cl. [8] B01D 21/18, 21/06**
(71)	**1. A&J Water Treatment Limited (UNITED KINGDOM)** **2.** **3.**
(72)	**1. David Grant MIDDLETON** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (GB) 1420114,9 - 12-11-2014** **2.** **3.**
(74)	**Michael Motea Gadallah**
(12)	**Patent**

(54)	**SETTLEMENT TANK**
	Patent Period Started From 12/11/2015 and Will end on 11/11/2035

(57) The invention relates to a drive system for a scraper assembly of a settlement tank. The drive system comprises a fluid turbine drivable by an outflow of fluid from the settlement tank; and a drive arrangement arranged externally to the settlement tank and drivable by the water turbine. The drive arrangement comprises a peripheral drive ring rotatably mounted around the outer periphery of the settlement tank and coupled to the scraper assembly; and a drive wheel configured to drive the peripheral drive ring relative to a perimeter wall of the settlement tank. In use, the drive wheel drives the peripheral drive ring so as to rotate the scraper assembly about a central axis of the settlement tank. The invention also relates to a settlement tank comprising the drive system. The invention further relates to a water treatment method using a settlement tank having the drive system.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/03/2015** **1391/2015** **October 2019** **22/01/2020** **29625**

(51)	**Int. Cl. [8] A01G 25/16 & A01M 7/00**
(71)	**1. AGRICULTURAL MAGNETICS, LTD (IRELAND)** **2.** **3.**
(72)	**1. LENHARDT, Theodore** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 13/828,787 - 14-03-2013** **2. (PCT/US2014/025273) - 13-03-2014** **3.**
(74)	**SHADY FAROUK AL-MUBARAK**
(12)	**Patent**

(54) APPARATUS FOR RECONFIGURING SPRAY EQUIPMENT

Patent Period Started From 13/03/2014 and Will end on 12/03/2034

(57) The present invention relates to apparatus for configuring dispersing equipment for applying liquid solutions to vegetation, comprising: a plurality of nozzles lor dispersing liquid in the form of liquid droplets; a plurality of magnets for applying a magnetic field to the liquid droplets; where the nozzles are configured to produce liquid droplets sized less than 400 microns and preferably less than 150 microns and more preferably within the range of 10 microns to 50 microns; where each magnet in the plurality of magnets has a magnetic remanence (mr) of at least 0.9 and preferably at least 1.25; where the plurality of magnets are moveably mountablcon the spray equipment to vary the field strength and polar orientation to adapt for application conditions and purposes; where the liquid solution includes at least water, and where the nozzles are positionable to produce air turbulence and a spray cloud consisting of liquid droplets impacting target vegetation during spraying.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/01/2014** **2075/2014** **August 2019** **26/01/2020** **29626**

(51)	**Int. Cl. [8] G10L 19/032, /19/08**	
(71)	**1. Fraunhofer-Gesellschaft Zur Foerderung der Angewandten Forschung e.V. (GERMANY)** **2.** **3.**	
(72)	**1. BACKSTROM, Tom** **2. HELMRICH, Christian** **3. FUCHS, Guillaume**	**4. MULTRUS, Markus** **5. DIETZ, Martin**
(73)	**1.** **2.**	
(30)	**1. (US) 61/665.485 - 28-06-2012** **2. (PCT/EP2013/062809) - 19-06-2013** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) **LINEAR PREDICTION BASED AUDIO CODING USING IMPROVED PROBABILITY DISTRIBUTION ESTIMATION**

Patent Period Started From 19/06/2013 and Will end on 18/06/2033

(57) Linear prediction based audio coding is improved by coding a spectrum composed of a plurality of spectral components using a probability distribution estimation determined for each of the plurality of spectral components from linear prediction coefficient information. In particular, the linear prediction coefficient information is available anyway. Accordingly, it may be used for determining the probability distribution estimation at both encoding and decoding side. The latter determination may be implemented in a computationally simple manner by using, for example, an appropriate parameterization for the probability distribution estimation at the plurality of spectral components. All together, the coding efficiency as provided by the entropy coding is compatible with probability distribution estimations as achieved using context selection, but its derivation is less complex. For example, the derivation may be purely analytically and/or does not require any information on attributes of neighboring spectral lines such as previously coded/decoded spectral values of neighboring spectral lines as is the case in spatial context selection.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/06/2016** **1068/2016** **November 2019** **26/01/2020** **29627**

(51)	**Int. Cl. [8] F22B 37/12, 1/18 & F28F 1/40**	
(71)	**1. Mitsubishi Hitachi Power Systems, Ltd. (JAPAN)** **2.** **3.**	
(72)	**1. NAKAHARAI, Hiroyuki** **2. KANEMAKI, Yuichi** **3. DOMOTO, Kazuhiro**	**4. YAMASAKI, Yoshinori**
(73)	**1.** **2.**	
(30)	**1. (JP) 2013-272804 - 27-12-2013** **2. (JP) 2014-082139 - 11-04-2014** **3. (JP) 2014-227415 - 07-11-2014** **(PCT/JP2014/084238) – 25-12-2014**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54)	**HEAT TRANSFER TUBE, BOILER, AND STEAM TURBINE FACILITY**
	Patent Period Started From 25/12/2014 and Will end on 24/12/2034

(57) A furnace wall tube provided in a boiler and the interior of which is at supercritical pressure, and through which a heat medium circulates, said furnace wall tube having: spiral groove parts formed in the inner peripheral surface and running in the axial direction of the tube; and rib parts formed by means of the spiral grooves so as to protrude radially inward. In a cross section along the axial direction of the tube, when the width [mm] of the groove parts in tube axial direction is Wg, the height [mm] of the rib parts in the radial direction is Hr, and the outer diameter [mm] of the tube is D, then the width (Wg) [mm] of the groove parts, the height (Hr) [mm] of the rib parts, and the tube diameter (D) [mm] satisfy the relationship Wg/(Hr/D) >gt; 0.40.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/10/2016** **1750/2016** **June 2019** **26/01/2020** **29628**

(51)	**Int. Cl. [8] C08F 2/06, 2/44 & C09D 5/03**
(71)	**1. AKZO NOBEL COATINGS INTERNATIONAL B.V. (NETHERLANDS)** **2.** **3.**
(72)	**1. CINOMAN, Douglas S** **2. LARSON, Gary Robert** **3. WILHELM, Justin E**
(73)	**1.** **2.**
(30)	**1. (US) 61/986.433 - 30-04-2014** **2. (EP) 14176750.9 - 11-07-2014** **3. (PCT/EP2015/059118) - 28-04-2015**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) PROCESS FOR MAKING ACRYLIC POWDER COATING RESIN SYSTEMS

Patent Period Started From 28/04/2015 and Will end on 27/04/2035

(57) A process for preparing an acrylic powder coating resin system includes polymerizing at least one acrylic monomer in anon-aqueous solvent in the presence of a hydrophobic submicron particle and an initiator, as well as powder coating compositions prepared from the acrylic powder coating resin system.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/02/2016** **0282/2016** **March 2019** **26/01/2020** **29629**

(51)	**Int. Cl. [8] B65D 19/00**
(71)	**1. PISANO, Roberto (ITALY)** **2.** **3.**
(72)	**1. PISANO, Roberto** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) VE2013A000044 - 23-08-2013** **2. (PCT/IB2014/001562) - 19-08-2014** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**METAL PALLET WITH ASSEMBLABLE COMPONENTS**
	Patent Period Started From 19/08/2014 and Will end on 18/08/2034

(57) An assemblable metal pallet with at least two plinths each provided with a cut-out and with a loading platform characterized by consisting of a plurality of components all obtained from a single piece of basic metal profile (2, 2'), the shape of which is symmetrical about the longitudinal central plane and is provided with at least one longitudinal rib of rectangular cross-section and of constant height extending from one and the same part with respect to a base plane, and with two outer lateral webs having their edge bent inwards and at least partly coplanar with the top of said rib, said components comprising a first component consisting of a piece of basic profile bent to C-shape with the aperture facing upwards, a second component consisting of a piece of the same basic profile bent to inverted U-shape, a further component formed from a piece of the same basic profile, and constituting a crosspiece for connecting together said plinths .

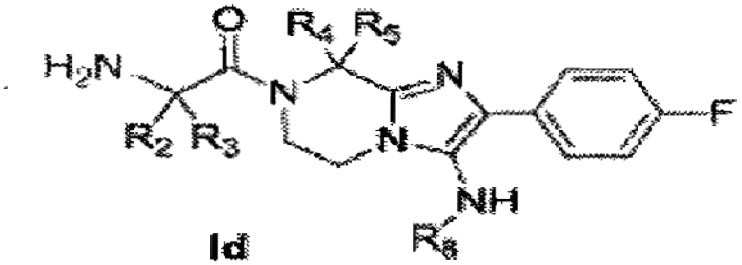
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/12/2011** **2180/2011** **April 2019** **26/01/2020** **29630**

(51)	**Int. Cl. [8] A61K 31/4985, A61P 33/02, 33/06 & C07D 487/04, 487/14**	
(71)	**1. Novartis AG** **2.** **3.**	
(72)	**1. TULLY, David** **2. NAGLE, Advait** **3. CHATTERJEE, Arnab K**	**4. WU, Tao** **5. KUHEN, Kelli L**
(73)	**1.** **2.**	
(30)	**1. (US) 61/224.433 - 09-07-2009** **2. (PCT/US2010/041626) - 09-07-2010** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) **FUSED IMIDAZOLES AND COMPOSITIONS COMPRISING THEM FOR THE TREATMENT OF PARASITIC DISEASES, SUCH AS MALARIA**

Patent Period Started From 09/07/2010 and Will end on 08/07/2030

(57) The invention provides a class of compounds, pharmaceutical compositions comprising such compounds and methods of using such compounds to treat or prevent malaria.



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Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/07/2016** **1176/2016** **November 2019** **26/01/2020** **29631**

(51)	**Int. Cl. [8] C 08F 230/06, C 10M 145/14**
(71)	**1. TOTAL MARKETING SERVICES (FRANCE)** **2. CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS) (FRANCE)** **3.**
(72)	**1. NGUYEN, Thi Hang Nga** **2. NICOLAY, Renaud** **3. DEVES, Lise**
(73)	**1.** **2.**
(30)	**1. (FR) 1450654 - 27-01-2014** **2. (PCT/EP2015/051517) - 26-01-2015** **3.**
(74)	**MAGDA SHEHATA HAROUN**
(12)	**Patent**

(54)	**THERMOASSOCIATIVE AND EXCHANGEABLE COPOLYMERS, AND COMPOSITIONS COMPRISING SAME**
	Patent Period Started From 26/01/2015 and Will end on 25/01/2035

(57) The invention relates to a composition resulting from the mixture of at least one copolymer A resulting from the copolymerisation of at least one monomer functionalised by diol functions and at least one compound A2 comprising at last two boronic ester functions. They have rheological properties which are very varied according to the proportion of the A1 and A2 compounds used. The field of the invention is that of associative and exchangeable polymers.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/01/2009** **0032/2009** **August 2019** **29/01/2020** **29632**

(51)	**Int. Cl. [8] H04B 17/00**
(71)	**1. IMPRENDITORE PTY LIMITED (AUSTRALIA)** **2.** **3.**
(72)	**1. RICE, Patrick** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (AU) 2006903740 - 12-07-2006** **2. (AU) 2007902358 - 04-05-2007** **3. (PCT/AU2007/000958) - 12-07-2007**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**MONITORING APPARATUS AND SYSTEM-APPAREIL ET SYSTEME DE CONTROLE**
	Patent Period Started From 12/07/2007 and Will end on 11/07/2027

(57) A monitoring system for response to incidents sensed by at least one sensor of an individual signal unit; said response comprising in a first instance, transmission to a central control facility by a said individual signal unit, of at least a unique identifying code for that individual signal unit, over a communication network; said response comprising in a second instance, transmission of data from said central control facility to one or more recipients nominated by a registered owner of said individual signal unit; and wherein registration of a said individual signal unit and configuration of sensing and of said response is via a web-based interface. The monitoring system of claim 1 wherein said response in said first instance includes digital or analogue data input to said individual signal unit. In a further form there is disclosed a method of monitoring the status of an item of interest; said method including the steps of: (i) purchase by an owner of an individual signal unit and at least one user selectable sensor for connection to said device, (j) registering said individual signal unit and said at least one sensor with a central control facility, (k) configuring a response executable by said central control facility on receipt by said facility of a signal transmitted by said individual signal unit

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/09/2011** **1572/2011** **October 2019** **29/01/2020** **29633**

(51)	**Int. Cl. [8] G10L 19/02, 21/02**	
(71)	**1. FRAUNHOFER-GESELLSCHAFT ZUR FoRDERUNG DER ANGEWANDTEN** **2. FORSCHUNG E.V. (GERMANY)** **3.**	
(72)	**1. NAGEL, Frederik** **2. ZORN, Dominik** **3. NEUENDORF, Max**	**4. HELMRICH, Christian** **5. DISCH, Sascha**
(73)	**1.** **2.**	
(30)	**1. (US) 61/163,609 - 26-03-2009** **2. (EP) 09013051.9 - 15-10-2009** **3. (PCT/EP2010/053720) - 22-03-2010**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) DEVICE AND METHOD FOR MANIPULATING AN AUDIO SIGNAL

Patent Period Started From 22/03/2010 and Will end on 21/03/2030

(57) A device and method for manipulating an audio signal comprises a windower for generating a plurality of consecutive blocks of audio samples, the plurality of consecutive blocks comprising at least one padded block of audio samples, the padded block having padded values and audio signal values, a first converter for converting the padded block into a spectral representation having spectral values, a phase modifier for modifying phases of the spectral values to obtain a modified spectral representation and a second converter for converting the modified spectral representation into a modified time domain audio signal.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/03/2011** **0417/2011** **November 2019** **29/01/2020** **29634**

(51)	**Int. Cl. [8] G01V 1/36**
(71)	**1. PGS Geophysical AS (NORWAY)** **2.** **3.**
(72)	**1. Walter SOllner** **2. Stian Hegna** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 12.798.136 - 30-03-2010** **2.** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**METHOD FOR SEPARATING UP AND DOWN PROPAGATING PRESSURE AND VERTICAL VELOCITY FIELDS FROM PRESSURE AND THREE-AXIAL MOTION SENSORS IN TOWED STREAMERS**
	Patent Period Started From 16/03/2011 and Will end on 15/03/2031

(57) A measured pressure field, a measured vertical velocity field, and two measured orthogonal horizontal velocity fields are obtained. A programmable computer is used to perform the following. A scaling factor is determined from water acoustic impedance, the measured pressure field, and the horizontal velocity fields. One of the measured pressure field and measured vertical velocity field is combined with one of the measured vertical velocity field scaled by the scaling factor and the measured pressure field scaled by the scaling factor, generating one of up-going and down-going pressure and velocity wavefields.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/01/2017** **0146/2017** **November 2019** **29/01/2020** **29635**

(51)	**Int. Cl. [8] E02B 5/02, 3/16**
(71)	**1. CARPI TECH B.V. (NETHERLANDS)** **2.** **3.**
(72)	**1. SCUERO, Alberto, Maria** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) MI2014A001393 - 31-07-2014** **2. (PCT/EP2015/067505) - 30-07-2015** **3.**
(74)	**NAHED WADIH RIZK TARZE**
(12)	**Patent**

(54) METHOD, WATERPROOF LINER AND WATERPROOF PANELS FOR INSTALLATION IN BASINS AND CANALS

Patent Period Started From 30/07/2015 and Will end on29/07/2035

(57) A method, a waterproof liner and waterproof panels for installations in basins and canals both dry and with stationary and flowing water. The liner consists of a plurality of prefabricated panels comprising at least one flexible waterproof membrane, made of geosynthetic material, provided with side anchor bands for anchoring to the ground and with side sealing flaps; the panels that are rolled up into rolls are sequentially unrolled and extended by fixing provisionally along at least one anchor band, by joining simultaneously the flaps of adjoining panels by means of an intermediate zip fastener. Subsequently, the individual panels are firmly anchored by friction to the bottom and/or to the banks of the basin or canal, by means of a permanent ballast. According to a first solution, the panels comprise superimposed waterproof membranes made of geosynthetic material, and are configured with filling chambers or cells into which a ballast cementitious mixture is injected; in a second solution each panel consisting of a single flexible membrane made of geosynthetic material, permanently ballasted by prefabricated blocks of concrete; in a third solution the panels comprises a first waterproof membrane and a second waterproof membrane folded in a tubular shape and welded to the first watertight membrane. The individual panels can be removed and replaced by operating underwater, restoring the seal between panels of the entire waterproof liner.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/07/2015** **1141/2015** **August 2019** **30/01/2020** **29636**

(51)	**Int. Cl. [8] F03G 6/06, 6/04, 6/00 & F02C 1/05, 1/06, 1/10 & F24J 2/48, 2/46**	
(71)	**1. BABCOCK & WILCOX POWER GENERATION GROUP, INC. (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. Sakadjian, Bartev B** **2. Flynn, Thomas J** **3. Hu, Shengteng**	**4. Velazquez-Vargas, Luis G** **5. Maryamchik, Mikhail**
(73)	**1.** **2.**	
(30)	**1. (US) 14/333940 - 17-07-2014** **2.** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) POWER GENERATION PLANT INTEGRATING CONCENTRATED SOLAR POWER RECEIVER AND PRESSURIZED HEAT EXCHANGER

Patent Period Started From 15/07/2015 and Will end on 14/07/2035

(57) A power plant includes a solar receiver heating solid particles, a standpipe receiving solid particles from the solar receiver, a pressurized heat exchanger heating working fluid by heat transfer through direct contact with heated solid particles flowing out of the bottom of the standpipe, and a flow path for solid particles from the bottom of the standpipe into the pressurized heat exchanger that is sealed by a pressure P produced at the bottom of the standpipe by a column of heated solid particles of height H. The flow path may include a silo or surge tank comprising a pressure vessel connected to the bottom of the standpipe, and a non-mechanical valve. The power plant may further include a turbine driven by heated working fluid discharged from the pressurized heat exchanger, and a compressor driven by the turbine.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/10/2016** **1695/2016** **August 2019** **30/01/2020** **29637**

(51)	**Int. Cl. [8] G01V 3/34, 3/38**
(71)	**1. PGS Geophysical AS (NORWAY)** **2.** **3.**
(72)	**1. Lars Erik Magnus BjOrnemo** **2. Carl Joel Gustav Skogman** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 62/246.300 - 26-10-2015** **2. (US) 15/280.739 - 29-09-2016** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**BIPOLE SOURCE MODELING**
	Patent Period Started From 16/10/2016 and Will end on 15/10/2036

(57) Disclosed are methods and systems for producing bipole source modeling with reduced computational loads. A method may comprise receiving first electromagnetic data and second electromagnetic data from a first shotpoint and a second of a marine electromagnetic survey, modelling a first electromagnetic field and second electromagnetic field for one or more dipole sources of a bipole source and combining a plurality of data points to provide an approximation of an electromagnetic field for the bipole source. A system may comprise electromagnetic sensors, a bipole source, wherein the bipole source comprise a pair of electrodes that are separated by a distance, wherein the bipole source is configured to generate an electromagnetic field, and a data processing system configured to receive electromagnetic data from a plurality of shotpoints of the bipole source and model electromagnetic fields for one or more dipole sources of the bipole source from the electromagnetic data.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/10/2015** **1668/2015** **August 2019** **30/01/2020** **29638**

(51)	**Int. Cl. [8] C08L 23/06**	
(71)	**1. Borealis AG (AUSTRIA)** **2. ABU DHABI POLYMERS COMPANY (UAE)** **3.**	
(72)	**1. BURYAK, Andrey** **2. REIN, Christian** **3. MONNISSEN, Luc**	**4. JOHNSEN, Geir Kristian** **5. CHENG, Joy**
(73)	**1.** **2.**	
(30)	**1. (EP)13167191.9- 09-05-2013** **2. (PCT/EP2014/059579) - 09-05-2014** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54)	**MULTI-MODAL AND HIGH-DENSITY POLYETHYLENE POLYMERS**
	Patent Period Started From 09/05/2014 and Will end on 08/05/2034

(57) A multimodal polyethylene polymer having an mfr2 of 0.05 ‎to 10.0 g/10min, a density of 940 kg/m3 or more, a tensile ‎modulus of 900 mpa or more wherein formula (i‏) .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/10/2016** **1754/2016** **November 2019** **30/01/2020** **29639**

(51)	**Int. Cl. [8] A01C 7/20**
(71)	**1. AGRO INTELLIGENCE APS (DENMARK)** **2.** **3.**
(72)	**1. GREEN, Ole** **2. MARTIKAINEN, Esko** **3. THOMASEN, SOren**
(73)	**1.** **2.**
(30)	**1. (DK) PA 2014 00255 09-05-2014** **2. (PCT/DK2015/050119) - 08-05-2015** **3.**
(74)	**Baher hafez**
(12)	**Patent**

(54) A SOWING APPARATUS FOR SENSOR BASED DEPTH CONTROL OF SEEDING

Patent Period Started From 08/05/2015 and Will end on 07/05/2035

(57) The apparatus relates to a sowing apparatus, said sowing apparatus comprises: a frame comprising a front end and a rear end, as seen in relation of the intended direction of movement; said intended direction of movement defining a longitudinal direction (X) of the apparatus; wherein said frame is having an extension in a transverse direction (Y), said transverse direction being perpendicular to the longitudinal direction (X); wherein said frame comprising one or more shear carriers, said shear carriers each having a first end and a second end; wherein said one or more shear carriers at its first end being pivotally suspended onto said frame in a suspension; wherein said shear carrier at its second end comprising one or more shears adapted to be at least partially submerged into the soil; wherein in respect of one or more of said one or more shear carriers, said frame comprising seed conveying means for conveying seeds into the soil at a position corresponding to one or more of said one or more shears; wherein in respect of one or more of said one or more shear carriers, said apparatus comprises a sensor for detecting the position of said shear carrier in relation to the frame; said sensor being configured to provide an output signal representing a sensed position of said shear carrier; wherein in respect of one or more of said one or more shear carriers said apparatus comprises an actuator for altering the position of the shear carrier in relation to the frame; wherein said apparatus comprises a control unit configured to receive said output signal from said sensor; wherein said control unit is configured to provide an output signal for controlling said actuator; wherein said control unit is connected to an input device, said input device being configured to allow an operator to provide said control unit with instruction relating to the desired response of the actuator, based the input signal of said sensor.

Arab Republic of Egypt
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GRANTED PATENTS' ABSTRACTS GAZETTE

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Egyptian Patent Office

Issue No 285 **MARCH 2020**

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

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TJ	Tajikistan
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TM	Turkmenistan
TN	Tunisia
TR	Turkey
TT	Trindad and Topago
TW	Taiwan
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UG	Uganda
US	United States of America
UY	Uruguay
UZ	Uzbekistan
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ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
FEBRUARY (2020)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/09/2009** **1401/2009** **December 2019** **02/02/2020** **29640**

(51)	**Int. Cl. [8] F03D 3/04**
(71)	**1. SALAMA ABD ELHADI MOHAMAD ALI (EGYPT)** **2.** **3.**
(72)	**1. SALAMA ABD ELHADI MOHAMAD ALI** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**THE INVENTION INTRODUCES A NEW IDEA FOR THE GENERATING**
	Patent Period Started From 24/09/2009 and Will end on 23/09/2029

(57) The invention introduces a new idea for the generating energy from the wind by using a centrifugal wind turbine that depends speeding the entering wind through two (or more) nozzles on the sides of the turbine, then the momentum of the resulting high velocity wind is converted into mechanical energy across the blades of the turbine which direct the wind to the center of the turbine after absorbing its energy. The blades of the turbine are specially designed as impulse blades with slight degree of reaction to convert, optimally, the momentum of the wind into maximum power. A model (or proto-type) of this turbine of output power 5 kW was manufactured. The rated speed for this turbine is 8 m/s and the total areas of the nozzles entrances are 40 square meters. The output power may be increased according by increasing the nozzles-areas in addition to increasing the number and dimensions of the turbine. The output power from the turbine can be used directly to pump water by the use of suitable pumps through special mechanisms or to generate electric power by the use of specially designed generators. The axis of rotation of the turbine may be horizontal or axial according to the required application.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/03/2010** **0404/2010** **December 2019** **02/02/2020** **29641**

(51)	**Int. Cl. [8] A01N 25/00 , 25/02 , A01P 9/00**
(71)	**1. Science and Technology Development Fund (STDF) (EGYPT)** **2.** **3.**
(72)	**1. GALAL A.M.NAWWAR** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**MARWA ALAA EDDIN ABDEL MAJID**
(12)	**Patent**

(54)	**MOLLUSICIDE FROM RICE STRAW**
	Patent Period Started From 15/03/2010 and Will end on 14/03/2030

(57) This invention deal with moilusicidal extracted from rice straw and chemically modified after its ph neutralization followed by its formulation. This moilusicidal extract used for combat focuses of schistosomiases snails in water streams and also for combat agricultural land snails. This extract is natural.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/03/2014** **0386/2014** **August 2019** **02/02/2020** **29642**

(51)	**Int. Cl. [8] C02F 1/00**
(71)	**1. SAMAH AHMED GAD AHMAED ELTABAKH (EGYPT)** **2.** **3.**
(72)	**1. SAMAH AHMED GAD AHMAED ELTABAKH** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Utility Model**

(54)	**A METHOD FOR TREATMENT OF WASTE WATER FOR AGRICULTURAL PURPOSES**
	Patent Period Started From 12/03/2014 and Will end on 11/03/2034

(57)

This invention relates to a sewage processing system for farm, human and animal consumption. The said system is comprised of five tanks containing the following five items: First tank containing limestone gravels + Aluminum plate + soil of street dust + limestone powder

Second tank provided with Aluminum tiles and ceramic tiles having in between a mixture of rice straw + cane straw

Third tank having the same components of the second tank.

Fourth tank provided with Aluminum tiles and ceramic tiles having in between veins of brassica rapa + clover above which there is a chlorine tube.

Fifth tank having the same components on the fourth tank

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/01/2015** **0085/2015** **December 2019** **02/02/2020** **29643**

(51)	**Int. Cl. [8] A61B 17/76**
(71)	**1. AYMAN FAROUK ABDELKAWI ABDELGALIL (EGYPT)** **2.** **3.**
(72)	**1. AYMAN FAROUK ABDELKAWI ABDELGALIL** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**ASSIUT UNIVERSITY**
(12)	**Patent**

(54) GOAT LEG PLATE FOR FIXATION OF THE FRACTURES OF THE SPINE OF THE SCAPULA

Patent Period Started From 20/01/2015 and Will end on 19/01/2035

(57) Fractures of the spine of the scapula are one of the difficult fractures to fix because the spine of the scapula is very thin and because of the tension of the delta muscle on the fracture site. The difficulty of fixation increases in osteoporotic patients and in fractures occurring after implantation of reversed shoulder prosthesis. This patent is concerned with a plate used for fixation of fractures of the spine of the scapula. This plate consists of 3 parts: the body, the carrying part and the suspensory part. The lateral fracture fragment (the acromion) is fixed with the carrying part and the suspensory parts using locking screws 2.7 mm. the medial part of the spine of the scapula is fixed to the body of the plate using compression screws 3.5 mm or locking screws 4.0 mm

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/11/2015** **1852/2015** **December 2019** **02/02/2020** **29644**

(51)	**Int. Cl. [8] G01N 15/08 & B01D 65/10**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. AYMAN TAHA ABDELAZIEM ELGENDI** **2. HEBA ABDALLAH MOHAMED ABDALLAH** **3. SHERIN KAMEL AMIN**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**Nagla Ali Ahmed (authorized)- Sherine Kamel Amin**
(12)	**Patent**

(54) UNIT FOR TESTING THE EFFICIENCY OF POLYMERIC MEMBRANES IN DESALINATION

Patent Period Started From 24/11/2015 and Will end on 23/11/2035

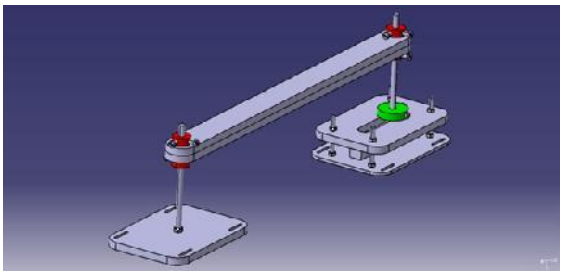
(57) THE PRESENT INVENTION RELATES TO A UNIT FOR TESTING THE EFFICIENCY MEMBRANES IN DESALINATION. THE UNIT CONSISTS OF TWO CELLS TO TEST ONE OF WHICH IS CIRCULAR TO TEST FLAT SHEET MEMBRANES AND THE SEC TO TEST THE SPIRAL WOUND MEMBRANES OR TUBULAR OR HOLLOW FIBER M TWO CELLS ARE CONNECTED TO THE FEEDING PUMP WHICH IS CONNECTED I FEEDING TANK CONTAINING THE SALTY WATER TO BE TREATED. ON OTHER ARE CONNECTED TO TWO LINES OF PIPES ONE OF THEM IS CONNECTED TO TH TREATED WATER, WHILE THE SECOND ONE IS CONNECTED TO FEEDING TANK CONCENTRATED WATER BACK TO IT. THE UNIT IS SUITABLE FOR TESTING VA MEMBRANES SUCH AS REVERSE OSMOSIS MEMBRANES, ULTRAFILTRATION M NANOFILTRATION MEMBRANES AND MICROFILTRATION MEMBRANES .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/12/2015** **1971/2015** **August 2019** **02/02/2020** **29645**

(51)	**Int. Cl. [8] A61F 5/00**
(71)	**1. AHMED ABDELFATTAH HASSNIEN MAHMOUD ELWAKF (EGYPT)** **2.** **3.**
(72)	**1. AHMED ABDELFATTAH HASSNIEN MAHMOUD ELWAKF** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**WATER ELCTROGONIOMETER**
	Patent Period Started From 14/12/2015 and Will end on 13/12/2035

(57) A device to measure the dynamic range for the movements (extension - flexion) in the form of degrees for each of the joints of the arms and legs automatically during performance, with the possibility to send data wirelessly to the computer and follow-up on the screen of the device through a program designed on the (matlab) and simulation of movement for each detail, and also the possibility of storing data on the program designed and restored again, the measurement can also be used in the water, in addition to the possibility of following the angular change of the athletes during the performance in the movements (extension - flexion).



Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/07/2016** **1194/2016** **December 2019** **02/02/2020** **29646**

(51)	**Int. Cl. [8] C 09 C 1/00 & C 08 L 23/12**
(71)	**1. HEBATALRAHMAN AHMED HAFEZ MOUSTAFA (EGYPT)** **2.** **3.**
(72)	**1. HEBATALRAHMAN AHMED HAFEZ MOUSTAFA** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**METHOD & MACHINE FOR MANUFACTURING OF PIGMENT FOR TRANSPARENT & SEMITRANSPARENT MATERIAL FROM BLACK SAND**
	Patent Period Started From 19/07/2016 and Will end on 18/07/2036

(57) Method and machine for pigment manufacturing from black sands, it is suitable for transparent and semitransparent materials, it is suitable for composite materials industries, new pigment will mixed with every constituent separately in the machine which contain conveyers to add constituent of composite, separation utensil to separate parts by volume, Mixing utensil to mix pigment with the same size constituent, all compounds will collected and manufactures. The new pigment does not affected by elevated temperatures and manufacturing conditions.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/12/2016** **2071/2016** **December 2019** **02/02/2020** **29647**

(51)	**Int. Cl. [8] A01N 25/00, 25/02 & A01P 15/00, 3/00**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. SHERIEN MOHAMED MABROUK ATALLA** **2. NADIA GAMIL SALAM EL GAMAL** **3. ALIAA RAGAB MOHAMED EL SHAMY**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**PREPARATION OF A BIOLOGICAL PRODUCT CONTAINING OLIVE MILL WASTE TO RESIST DISEASES IN THE SOIL**
	Patent Period Started From 21/12/2016 and Will end on 20/12/2036

(57) Olive mill waste is one of the most environmental problem in egypt. Preparing of biological active product by use antagonistic fungi trichoderma harzianum and/or trichoderma. Viride which has been isolated from the egyptian soil. Omw showed great potential to analyze hard organic matter in the soil and produce some enzymes that have a major role in act as a good biofertilizer.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/02/2017** **0287/2017** **December 2019** **02/02/2020** **29648**

(51)	**Int. Cl. [8] C12M 1/107**
(71)	**1. MOHAMED SAMER MOHSEN FOUAD (EGYPT)** **2. YASSER A. ATTIA (EGYPT)** **3. ESSAM M. ABDELSALAM (EGYPT)**
(72)	**1. MOHAMED SAMER MOHSEN FOUAD YASSER A. ATTIA** **2. ESSAM M. ABDELSALAM** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54) A METHOD FOR MAXIMIZING BIOGAS PRODUCTION BY USING LASER RADIATION AND NANOPARTICLES

Patent Period Started From 21/02/2017 and Will end on 20/02/2037

(57) The present invention is a method to maximize biogas and methane production from the anaerobic digestion of livestock manure by using nanoparticles and laser radiation. The method is based on the use of nanoparticles and exposure to light by a laser source of 532 nm which enhances and accelerates the process of anaerobic digestion of organic matter which increases the production of biogas and methane. The production method can be summarized as follows: adding 2 mg of nickel nanoparticles per liter of rumen fluid and exposing it to laser source at a wavelength of 532 nm for 2 hours, then mixing the treated rumen fluid with animal manure by a ratio of 1:1 which will be kept in the digester at 38.5oC for 20 days to produce biogas. By this method, it is possible to improve the bioenvironmental conditions and the bioresponse of bacteria which results in reducing the period of biogas production to 20 days (under mesophilic conditions) and increasing the biogas yield by 136% over the conventional method.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/06/2017** **1006/2017** **December 2019** **02/02/2020** **29649**

(51)	**Int. Cl. [8] A23B 7/02 & A23L 7/10 & C01F 7/50**
(71)	**1. MASOUD MUHAMMAD ABDUL –LATIF MUHAMMAD (EGYPT)** **2.** **3.**
(72)	**1. MASOUD MUHAMMAD ABDUL –LATIF MUHAMMAD** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**INSTANT DRIED KOSHARY DEHYDRATED AND ITS PRODUCTION PROCESS**
	Patent Period Started From 12/06/2017 and Will end on 11/06/2037

(57) The present invention is about the production of a long shelf life , instant dried koshary, which is produced from deferent kind of pasta, rice, vermicelli pasta, lentils and chickpeas. with dressings of tomato sauce in its all different kinds, daqqa, caramalyzed onions and hot pepper .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/07/2018** **1146/2018** **December 2019** **02/02/2020** **29650**

(51)	**Int. Cl. [8] C 05 G 3/00 , 3/ 02& A01N 63/00, 63/ 02**
(71)	**1. ACADEMY OF SCIENTIFIC RESEARCH & TECHNOLOGY (EGYPT)** **2. ZEWAIL CITY OF SCIENCE AND TECHNOLOGY (EGYPT)** **3.**
(72)	**1. IBRAHIM MOHAMED EL-SHERBINY ABDELHALIM** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54) SLOW RELEASE UREA FERTILIZERS COATED WITH BIODEGRADABLE NANO-MICROCOMPOSITES

Patent Period Started From 17/07/2018 and Will end on 16/07/2038

(57) This invention involves the development of slow release urea fertilizers coated with a layer/multilayers of innovative nano-microcomposites. The components of the nano-microcomposites were selected carefully from various biodegradable polymers, and natural nanomaterials as well as micromaterials along with other fillers. These coating layers have been fabricated in such a fashion to form interpenetrating networks or semi interpenetrating networks. The coating was performed via an innovative way that led to enhancing the overall efficiency of the urea fertilizer and limiting its loss along with the reduction of its harmful effect on the surrounding environment.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/09/2016** **1560/2016** **November 2019** **02/02/2020** **29651**

(51)	**Int. Cl. [8] A61M 5/24, 5/315**	
(71)	**1. WOCKHARDT LIMITED (INDIA)** **2.** **3.**	
(72)	**1. STEPHENSON, Matthew** **2. KNIGHT, Barry** **3. KNOWLES, Stephen**	**4. JOSHI, Umesh** **5. TYAGI, Ashok**
(73)	**1.** **2.**	
(30)	**1. (IN) 1008/MUM2014 - 25-03-2014** **2. (PCT/IB2015/051843) - 13-03-2015** **3.**	
(74)	**BAHER MOHAMED HAFEZ MANSOUR**	
(12)	**Patent**	

(54) FLUID DELIVERY PEN WITH FINAL DOSE STOP AND IMPROVED DOSE SETTING FEATURES

Patent Period Started From 13/03/2015 and Will end on 12/03/2035

(57) The fluid delivery pen of the present invention has a reduced dose setting friction mechanism which may produce a sound of higher audibility for each click corresponding to one unit dose set using a dose setting mechanism and also produces a sound of lower audibility than the former for each click when the set dose is reduced using the dose setting mechanism. The fluid delivery pen driving mechanism of the present invention has an indication to an end of dose of fluid in a cartridge.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/09/2015** **1540/2015** **August 2019** **02/02/2020** **29652**

(51)	**Int. Cl. [8] C09K 8/035, 8/10, 8/90 & C08B 15/02 & D21H 11/18**
(71)	**1. ELKEM A.S.A (NORWAY)** **2.** **3.**
(72)	**1. AL-BAGOURY, Mohamed** **2. AMMODT,ARIANEH** **3.**
(73)	**1.** **2.**
(30)	**1. (NO) 20130411 - 20-03-2013** **2. (PCT/NO2014/050039) - 18-03-2014** **3.**
(74)	**ABDEL HADY INTELLECTUAL PROPERTY**
(12)	**Patent**

(54) VISCOSIIFIER FOR OIL WELL FLUIDS

Patent Period Started From 18/03/2014 and Will end on 17/03/2034

(57) The present invention comprises a viscosiifier for oil well fluids, said viscosiifier comprising a cross-linked micro -or nano- fibrillated cellulose (mfc).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/12/2015** **1880/2015** **August 2019** **02/02/2020** **29653**

(51)	**Int. Cl. [8] G01V 1/00, 1/38, 1/135, 1/04**
(71)	**1. BP CORPORATION NORTH AMERICA INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. HARPER, Mark Francis Lucien** **2. DELLINGER, Joseph, Anthony** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/883,437 - 27-09-2013** **2. (PCT/US2014/055772) - 16-09-2014** **3.**
(74)	**OFFICE DIB LAWYERS**
(12)	**Patent**

(54) SYSTEM AND METHOD FOR PERFORMING SEISMIC SURVEYS WITH A CONTROLLED SOURCE USING MAXIMUM-POWER SWEEPS

Patent Period Started From 16/09/2014 and Will end on 15/09/2034

(57) The output spectrum of a controllable swept- frequency acoustic source at a given frequency can be controlled by making the rate of change of frequency equal to the desired output power spectrum divided by the squared envelope amplitude of the source output signal, both measured at the time after the start of its frequency sweep at which the sweep frequency passes through the given frequency. The system and method can also be used to correct for propagation effects outside the source by dividing the desired spectrum by the propagation effect. The method can further be used either to obtain an output spectrum of a desired shape from a source operating at maximum output or to design a sweep of a minimum feasible duration that will result in an output spectrum of a specified shape and with a specified amplitude.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/04/2015** **0500/2015** **August 2019** **02/02/2020** **29654**

(51)	**Int. Cl. [8] B42D 25/415 & G07D 7/12 & B44F 1/12 & B41M 3/14**	
(71)	**1. JOINT STOCK COMPANY GOZNAK (RUSSIAN FEDERATION)** **2.** **3.**	
(72)	**1. KURYATNIKOV, Andrey Borisovich** **2. PISAREV, Alexandr Georgievich** **3. MOCHALOV, Alexandr Igorevich** **4. PAVLOV, Igor Vasilievich** **5. KORNILOV, Georgyi Valentinovich** **6. FEDOROVA, Elena Mikhailovna** **7. SHIRIMOV, Alexandr Mikhailovich** **8. BARANOVA, Galina Sergeevna**	**9. TORGASHOVA, Alexandra Alexandrovna** **10. OSTREROV, Mikhail Anatolievich** **11. TIKHONOV, Alexandr Vasilievich** **12. KUZNETSOV, Vladimir Anatolievich** **13. SALUNIN, Alexey Vitalievich** **14. VOROBIEV, Viktor Andreevich** **15. MANASHIROV, Oshir Yaizgilovich**
(73)	**1.** **2.**	
(30)	**1. (RU) 2012142118 - 03-10-2012** **2. (PCT/RU2013/000651) - 30-07-2013** **3.**	
(74)	**NAHED WADE REZK**	
(12)	**Patent**	

(54) SECURITY PROTECTED FROM COUNTERFEIT AND METHOD FOR DETERMINING THE AUTENTICITY OF SAME

Patent Period Started From 30/07/2013 and Will end on 29/07/2033

(57) The invention relates to the field of the protection of securities from counterfeit and is intended for determining, using equipment, the authenticity of printed articles being protected such as all types of securities. A security has a marking which comprises at least one inorganic compound with a crystalline structure, which inorganic compound is alloyed with ions of rare earth elements and has the property of selective reaction with radiation in the optical spectral range, wherein in the event that said inorganic compound is exposed to radiation in a set band of the optical spectrum, the radiation of the compound only in this band of the spectrum has an excess above thermal radiation with a finite length of 10-10 seconds or more. The proposed invention makes it possible to increase the degree of protection of a security.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/04/2016** **0596/2015** **October 2019** **02/02/2020** **29655**

(51)	**Int. Cl. [8] F24S 25/30 & E04H 12/20**
(71)	**1. STELLENBOSCH UNIVERSITY (SOUTH AFRICA)** **2.** **3.**
(72)	**1. GAUCHE, Paul** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. ()2015/02248 - 07-04-2015** **2.** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54)	**SUPPORTING FRAME ASSEMBLY**
	Patent Period Started From 05/04/2016 and Will end on 04/04/2036

(57) A supporting frame includes a truss composed of an upper straight frame member and a parallel lower straight frame member supported at their ends in spaced relationship relative to each other. At least two spans of divergent inclined brace member extend between them with the ends of the brace member spans each being securable to the upper or lower straight frame member by means of a fastener. Limited relative longitudinal movement of the upper and lower straight frame members is permitted before a fastener is secured to fix the positions at which the ends of the brace member spans are attached to the upper and lower straight frame members. In one application two trusses meet at a corner with a pylon being urged in the plane of the supporting frame into a corner between two frame members of each pair of trusses to extend at right angles to the frame.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/05/2016** **0779/2016** **August 2019** **02/02/2020** **29656**

(51)	**Int. Cl. [8] G02C 3/00**
(71)	**1. CLIC GOGGLES, INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. LANDO, Ron** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 14/080,365 - 14-11-2013** **2. (PCT/US2014/045492) - 03-07-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) EXPANDABLE EYEWEAR WITH FLEXIBLE BAND

Patent Period Started From 03/07/2014 and Will end on 02/07/2034

(57) The present eyewear includes a pair of lenses, a pair of releasable connectors connected to respective inner ends of the lenses, temples pivotally connected to respective outer ends of the lenses and a rigid strap connected between the rear ends of the temples. The strap is further characterized as having parallel legs connected to the rear ends of the temples, transition segments having a first shape extending from the substantially parallel legs to an arc-shaped base which extends along the back of the user's head when worn. The transition segments are bendable by a user causing them to change from their first shape to a second shape and to maintain the second shape unless bent further by the user.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/11/2015** **1824/2015** **November 2019** **02/02/2020** **29657**

(51)	**Int. Cl. [8] G01K 1/14 & F24J 2/40, 2/46**
(71)	**1. COCKERILL MAINTENANCE & INGENIERIE S.A (BELGIUM)** **2.** **3.**
(72)	**1. CARA, Fabien** **2. RUDAZ, Daniel** **3. DETHIER, Alfred**
(73)	**1.** **2.**
(30)	**1. (BE)2013/0363 - 23-05-2013** **2. (PCT/EP2014/056525) - 01-04-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) HEAT FLOW SENSOR

Patent Period Started From 01/04/2014 and Will end on 31/03/2034

(57) The present invention relates to a heat exchanger comprising a plurality of exchange tubes mounted joined longitudinally in such a way as to create a front surface portion creating an obstacle to an incident heat flow and at least one heat flow sensor disposed in a support located between two adjacent exchange tubes, characterised in that the support of the heat flow sensoris brazed to at least one of the two tubes and is flattened on the side that is to be disposed at the front, with reference to the incident heat flow, in such a way as to be able to be inserted between the two adjacent tubes at the location of said local deformations.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/06/2015** **0944/2015** **August 2019** **02/02/2020** **29658**

(51)	**Int. Cl. [8] F24S 10/72, 80/30**	
(71)	**1. GENERAL ELECTRIC TECHNOLOGY GMBH (SWITZERLAND)** **2.** **3.**	
(72)	**1. LECH Christopher J** **2. PAYNE Ronald G,** **3. TWEEDIE John,** **4. PASHKO Gary,**	**5. DAS Apurba** **6. DENG Lin,** **7. McGRANE David**
(73)	**1.** **2.**	
(30)	**1. (US) 14/302953 - 12-06-2014** **2.** **3.**	
(74)	**Amr Mofed Kamal El-Deeb**	
(12)	**Patent**	

(54) IMPROVED SOLAR RECEIVER CONFIGURATION

Patent Period Started From 10/06/2015 and Will end on 09/06/2035

(57) A solar receiver configuration (receiver) adapted to include a plurality of receiver heat transfer passes. Each pass includes a plurality of panels. Further, each panel includes a plurality of tubes, tangentially arranged, vertically extending between horizontally placed lower and upper headers. The headers, which are pipe assemblies with closed ends, of adjacent panels are horizontally and vertically offset one to another to form a substantially continuous tube surface. Such continuous tube surface enables solar heating of the fluid flow therefrom in at least a parallel flow arrangement and a serpentine flow arrangement.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/05/2014** **0847/2014** **November 2019** **02/02/2020** **29659**

(51)	**Int. Cl. [8] E21B 33/12 & E21B 23/06**	
(71)	**1. BAKER HUGHES INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. HAMMER, Aaron C** **2. ALLEN, Jason A** **3. CLEM, Nicholas J**	**4. O'BRIEN, Robert S**
(73)	**1.** **2.**	
(30)	**1. (US) 13/308,760 - 01-12-2011** **2. (PCT/US2012/062356) - 29-10-2012** **3.**	
(74)	**NAHED WADIH RIZK TAILOR**	
(12)	**Patent**	

(54) A SELECTIVELY DISENGAGEABLE SEALING SYSTEM AND A METHOD OF SELECTIVELY DISENGAGING A SEAL

Patent Period Started From 29/10/2012 and Will end on 28/10/2032

(57) A selectively disengageable seal assembly including a first tubular having a sealing surface and a seal element run with the first tubular and displaced from the surface. The seal element initially has a radial dimension that forms a radially innermost or outermost sealing dimension of the first tubular for enabling the first tubular to be selectively disengageably sealed with a second tubular radially disposed with the first tubular. A mechanism is included that is triggerable for reconfiguring the radial dimension of the seal element. The sealing surface of the first tubular operative forms the radially innermost or outermost sealing dimension of the first tubular when the radial dimension of the seal element has been reconfigured for enabling the sealing surface of the first tubular to receive a second selectively disengageable seal element. A method of selectively disengaging sealing tubulars is also disclosed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/01/2017** **0053/2017** **August 2019** **02/02/2020** **29660**

(51)	**Int. Cl. [8] A23K 1/00, 1/14, 1/16**
(71)	**1. SEVECOM S.P.A (ITALY)** **2.** **3.**
(72)	**1. SERINO, Nazzaro** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) MI2014A001326 - 21-07-2014** **2. (PCT/IB2015/054782) - 25-06-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**SOLID MIXTURE FOR ANIMAL FEED, AND METHOD FOR PREPERING ANIMAL FEED**
	Patent Period Started From 25/06/2015 and Will end on 24/06/2035

(57) The present invention relates to SOLID MIXTURE FOR ANIMAL FEED, The present invention further relates to PROCCES FOR PREPERING ANIMAL FEED.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/04/2012** **0767/2012** **September 2019** **02/02/2020** **29661**

(51)	**Int. Cl. [8] F16L 17/04**
(71)	**1. TYCO FIRE PRODUCTS LP (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. LIPPKA, Sandra, M.** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/255,409 - 27-10-2009** **2. (PCT/US2010/053970) - 25-10-2010** **3.**
(74)	**NAHED WADIH RIZK TAILOR**
(12)	**Patent**

(54) SYSTEMS AND METHODS FOR PIPE COUPLINGS

Patent Period Started From 25/10/2010 and Will end on 24/10/2030

(57) A coupling arrangement that includes a gasket seal and a housing having a first lateral side for receiving a first pipe segment and a second lateral side for receiving a second pipe segment, the second lateral side being spaced from the first lateral side to define a medial axis (A-A) of the housing. An inner surface of the housing defines a cavity for engaging and housing a gasket seal disposed about the first and second pipe segments. The gasket seal includes a peripheral surface and inner surface which can include features that engage both the housing and the pipe segments to form a fluid tight pipe joint assembly.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/09/2015** **1384/2015 D1** **August 2019** **02/02/2020** **29662**

(51)	**Int. Cl. [8] A01N 43/40, 43/90**		
(71)	**1. DOW AGROSCIENCES LLC (UNITED STATES OF AMERICA)** **2.** **3.**		
(72)	**1. ECKELBARGER, Joseph, D** **2. EPP, Jeffrey, B.** **3. FISCHER, Lindsey, G.** **4. GIAMPIETRO, Natalie, C** **5. IRVINE, Nicholas, M**	**6. KISTER, Jeremy** **7. LO, William, C** **8. LOWE, Christian T.** **9. PETKUS, Jeffrey** **10. ROTH, Joshua**	**11. SATCHIVI, Norbert, M.** **12. SCHMITZER, Paul, R.** **13. SIDDALL, Thomas, L.;** **14. YERKES, Carla, N.**
(73)	**1.** **2.**		
(30)	**1. (US) 13/840,233 - 15-03-2013** **2. (PCT/US2014/024388) - 12-03-2014** **3.**		
(74)	**Amr Mofed Al-Deeb**		
(12)	**Patent**		

(54) 4-AMINO-6-(4-SUBSTITUTED-PHENYL)-PICOLINATES AND 6-AMINO-2-(4-SUBSTITUTED-PHENYL)-PYRIMIDINE-4-CARBOXYLATES AND THEIR USE AS HERBICIDES

Patent Period Started From 12/03/2014 and Will end on 11/03/2034

(57) Provided herein are 4-amino-6-(4-substituted-phenyl)-picolinic acids and their derivatives, and 6-amino-2-(4-substituted-phenyl)-pyrimidine-4-carboxylic acids and their derivatives, compositions comprising the acids and their derivatives, and methods of use thereof as herbicides

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/07/2016** **1141/2016** **November 2019** **06/02/2020** **29663**

(51)	**Int. Cl. [8] H04L 29/06 & G06Q 20/20, 20/32, 20/40 & G06F 21/62**
(71)	**1. PRIVITI PTE. LTD (Singapore)** **2.** **3.**
(72)	**1. BARRY, Gerard** **2. BARRY, Declan** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14150856.4 - 10-01-2014** **2. (PCT/EP2015/050354) - 09-01-2015** **3.**
(74)	**NAHED WADIH RIZK TAILOR**
(12)	**Patent**

(54)	SYSTEM AND METHOD FOR COMMUNICATING CREDENTIALS
	Patent Period Started From 09/01/2015 and Will end on 08/01/2035

(57) A system and method for conducting transactions involving the communication of credentials connected to an entity or an individual, known as the presenter to a permitted destination, known as the network endpoint following a request from an accepter while maintaining the privity in said credentials. The system includes presenting appliances and accepting appliances that communicate with a controlling server. The controlling server receives communication from the accepting and presenting appliances that contains a secret keycode exclusive to the individual or presenter, presenter identifiers and a shared keycode and if the communications are matched, credentials specific to presenter identifier is permitted to be released to a known network endpoint.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/04/2016** **0604/2016** **November 2019** **06/02/2020** **29664**

(51)	**Int. Cl. [8] F24S 25/30**
(71)	**1. Stellenbosch University (South African)** **2.** **3.**
(72)	**1. LANDMAN, Willem Adolph** **2. LARMUTH, James Nicholas** **3.**
(73)	**1.** **2.**
(30)	**1. (ZA)2015/02201 - 07-04-2015** **2.** **3.**
(74)	**NAHED WADIH RIZK TAILOR**
(12)	**Patent**

(54) FRAME SUPPORTED HEIGHT ADJUSTABLE PYLON

Patent Period Started From 06/04/2016 and Will end on 05/04/2036

(57) A height adjustable pylon and supporting frame assembly is provided. The frame includes two frame members meeting at a corner with the frame members being generally co-planar and the pylon being urged into the corner so as to extend at generally right angles to a plane including the two frame members. A fastener assembly has two end portions each anchored relative its associated frame member so as to extend transversely to it. The fastener assembly includes an intermediate saddle portion engaging a surface of the pylon that is directed outwardly relative to the corner with the pylon being urged into the corner when the fastener assembly is tightened to engage the pylon and lock it axially relative to the frame members in a selected position. Preferably, the frame members each form two upper and two lower frame members of two trusses. Lower ends of the pylons may support the assembly.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/05/2016** **0850/2016** **September 2019** **09/02/2020** **29665**

(51)	**Int. Cl. [8] C08L 23/04, 23/08 & C08K 3/04 & F16L 9/12**
(71)	**1. BOREALIS AG (AUSTRALIA)** **2. ABU DHABI POLYMERS CO LTD (BOROUGE) L.L.C (UNITED ARAB EMAIRATES)** **3.**
(72)	**1. TYNYS, Antti HARJUNTAUSTA, Jarmo** **2. MURALI, Mohana** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13006049.4 - 23-12-2013** **2. (PCT/EP2014/003462) - 22-12-2014** **3.**
(74)	**OFFICE El-DeeB LAWYERS**
(12)	**Patent**

(54) POLYETHYLENE COMPOSITION FOR PIPE APPLICATIONS WITH IMPROVED SAGGING PROPERTIES

Patent Period Started From 22/12/2014 and Will end on 21/12/2034

(57) The present invention relates to a polyethylene composition comprising, a base resin (A) comprising a copolymer of ethylene and at least one comonomer selected from alpha- olefins having from three to twelve carbon atoms, wherein the ethylene copolymer comprises a low molecular weight component (A-1) and a high molecular weight component (A-2) with the low molecular weight component (A-1) having a lower weight average molecular weight than the high molecular weight component (A-2), (B) carbon black in an amount of 1.0 to 10 wt% based on the total amount of the polyethylene composition, and (C) optional further additives other than carbon black.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/01/2016** **0089/2016** **September 2019** **11/02/2020** **29666**

(51)	**Int. Cl. [8] F25J 1/00, 1/02**
(71)	**1. GENERAL ELECTRIC COMPANY (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. LISSIANSKI, Vitali, Victor** **2. HOFER, Douglas, Carl** **3. SHISLER, Roger, Allen**
(73)	**1.** **2.**
(30)	**1. (US) 13/955,223- 31-07-2013** **2. (PCT/US2014/048339) - 28-07-2014** **3.**
(74)	**OFFICE DIB LAWYERS**
(12)	**Patent**

(54) SYSTEM AND INTEGRATED PROCESS FOR LIQUID NATURAL GAS PRODUCTION

Patent Period Started From 28/07/2014 and Will end on 27/07/2034

(57) A system and method for producing liquid natural gas (LNG) from a natural gas stream is presented. The system includes a moisture removal device and compressor for removing moisture from and compressing the natural gas stream. The low moisture compressed natural gas stream is cooled in a heat exchanger to discharge a cooled compressed discharge stream. A multi-phase turbo expander provides for further cooling and expansion of the cooled compressed discharge stream, generating an expanded exhaust stream comprising a mixture of a vapor comprised substantially of CH4 and a LNG/ice/solid CO2 slurry. The expanded exhaust stream is separated to generate a vapor stream comprised substantially of CH4 and a liquid natural gas/ice/solid CO2 slurry stream. Further separation of the liquid natural gas/ice/solid CO2 slurry stream generates a liquid natural gas output stream and an output stream comprised substantially of ice/solid CO2.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/06/2016** **1019/2016** **September 2019** **09/02/2020** **29667**

(51)	**Int. Cl. [8] B60C 900**
(71)	**1. PIRELLI TYRE S.P.A (ITALY)** **2.** **3.**
(72)	**1. DAGHINI, Guido, Luigi** **2. TRESOLDI, Stefano** **3. BALLABIO, Omar**
(73)	**1.** **2.**
(30)	**1. (IT) MI2013A002183 - 23-12-2013** **2. (PCT/IB2014/067120) - 19-12-2014** **3.**
(74)	**ABD EL HADI FOR IP OFFICE**
(12)	**Patent**

(54) TYRE FOR HEAVY LOAD VEHICLE WHEELS

Patent Period Started From 19/12/2014 and Will end on 18/12/2034

(57) A tyre for heavy load vehicle wheels comprises a carcass structure, a belt structure arranged in a radially outer position with respect to the carcass structure, a tread band arranged in a radially outer position with respect to said belt structure. The belt structure comprises a plurality of reinforcing cords, wherein each cord comprises a core made of non-metallic material, and a plurality of metallic wires substantially parallel to one another and helically wound around said core with a predetermined winding pitch. The metallic wires are arranged around said core so that, in any cross section of the cord, they are located at just an angular portion of an ideal circumference that circumscribes the core. The cord, when subjected to variable loads of between 10% and 40% of the ultimate tensile strength thereof, undergoes an elongation that varies according to a curve having, in a load-percentage elongation graph, a linear correlation coefficient lower than about 0.990, the points of said curve being interpolated by a straight line having an angular coefficient lower than about 30. Said reinforcing cords can be provided in in a stone-guard layer and/or in the main belt layers of the belt structure.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/10/2015** **1676/2015** **September 2019** **09/02/2020** **29668**

(51)	**Int. Cl. [8] C 08 L 23/14 & C 08 F 2/00 & F16L 9/ 12**
(71)	**1. BOREALIS AG (AUSTRIA)** **2. ABU DHABI POLYMERS CO LTD Austria** **3.**
(72)	**1. HEDESIU, Cristian** **2. ALASTALO, Kauno** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13002101.7 - 22-04-2013** **2. (PCT/EP2014/001069) - 22-04-2014** **3.**
(74)	**Office Dib Lawyers**
(12)	**Patent**

(54) PROPYLENE RANDOM COPOLYMER COMPOSITION FOR PIPE APPLICATIONS

Patent Period Started From 22/04/2014 and Will end on 21/04/2034

(57) The present invention relates to a polypropylene composition comprising a propylene random copolymer (A) with at least one comonomer selected from alpha-olefins with 2 or 4 to 8 carbon atoms and a nucleating agent (B), wherein the polypropylene composition has a polydispersity index (PI) of from 2.0 to 7.0, a melt flow rate MFR2 (2:16 kg, 230°C) of from 0.05 to 1.0 g/10 min, determined according to ISO 1133 and a Charpy Notched Impact Strength at 0°C of at least 4.0 kJ/m2, determined according to ISO 179/1eA:2000 using notched injection moulded specimens, a process for producing said polypropylene composition, an article comprising said polypropylene composition and the use of said polypropylene composition for the production of an article.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/03/2016** **0419/2016** **November 2019** **12/02/2020** **29669**

(51)	**Int. Cl. [8] F16B 12/10 & A47B 47/00, 61/00**
(71)	**1. VALINGE INNOVATION AB (SWEDEN)** **2.** **3.**
(72)	**1. BRANNSTROM, Hans** **2. DERELOV, Peter** **3. PALSSON, Agne**
(73)	**1.** **2.**
(30)	**1. (SE) 1351060-7 - 16-09-2013** **2. (PCT/SE2014/051061) - 15-09-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) AN ASSEMBLED PRODUCT AND A METHOD OF ASSEMBLING THE ASSEMBLED PRODUCT

Patent Period Started From 15/09/2014 and Will end on 14/09/2034

(57) An assembled product including at least three elements arranged in three different planes. A first element is connected perpendicular to a second element, and a third element is connected perpendicular to the second element. The assembled product includes one or more locking devices, each comprising a flexible tongue arranged in an insertion groove one of the at least three elements. The flexible tongue cooperates with a tongue groove, at an adjacent one of the at least three elements, for locking the one element and the adjacent element together. A second edge of the second element is connected to a second edge of the third element by a first of said locking devices.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/03/2017** **0465/2017** **October 2019** **12/02/2020** **29670**

(51)	**Int. Cl. [8] F03D 1/06, 7/02**
(71)	**1. BEST BLADES GMBH (GERMANY)** **2.** **3.**
(72)	**1. SPITZNER, Jorg** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14185815.9 - 22-09-2014** **2. (PCT/DE2015/100205) - 21-05-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**WIND TURBINE ROTOR BLADE**
	Patent Period Started From 21/05/2015 and Will end on 20/05/2035

(57) he invention relates to a wind turbine rotor blade, comprising a top side, a bottom side, a leading edge, a trailing edge, a hub fastening means, and a blade tip, wherein the wind turbine rotor blade is divided into a hub region, a center region, and a blade tip region and wherein a root region from the hub fastening means to the maximum blade depth (Smax) is defined, wherein an air-conducting channel extending radially outward for conducting suctioned air from a suction region to a blow-out region arranged in the blade tip region is provided inside the wind turbine rotor blade and boundary layer suctioning occurs, wherein the suctioning of the air occurs on the top side of the wind turbine rotor blade, and a boundary layer fence is provided in the hub region near the hub fastening means in order to prevent a flow in the direction of the hub fastening means.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/06/2016** **1083/2016** **November 2019** **12/02/2020** **29671**

(51)	**Int. Cl. [8] F16B 12/10 & A47B 47/00**
(71)	**1. VALINGE INNOVATION AB (SWEDEN)** **2.** **3.**
(72)	**1. DERELOV, Peter** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (SE) 1450022-7 - 10-01-2014** **2. (PCT/SE2014/051521) - 17-12-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**PANELS COMPRISING A MECHANICAL LOCKING DEVICE AND AN ASSEMBLED PRODUCT COMPRISING THE PANELS**
	Patent Period Started From 17/12/2014 and Will end on 16/12/2034

(57) A set of panels includes a first having a first main plane and a second panel having a second main plane. The panels are provided with a mechanical locking device for locking a first edge of the first panel to a second edge of the second pane . The mechanical locking device includes an edge section groove at the first edge, wherein an edge section of the second edge is insertable into the edge section groove. A flexible tongue is arranged in an insertion groove provided in the edge section groove , and cooperates with a tongue groove provided at the edge section of the second panel. A first thickness of a core material between the edge section groove and the outermost surface of the first edge is greater than a minimum second thickness of a core material of the edge section of the second panel.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/09/2009** **1348/2009** **November 2019** **12/02/2020** **29672**

(51)	**Int. Cl. [8] A01N 43/56 & A01P 3/00**	
(71)	**1. SYNGENTA LIMITED** **2. SYNGENTA PARTICIPATIONS AG** **3.**	
(72)	**1. GEORGE, Neil** **2. SHAH, Shailesh** **3. JONES, Ian, Kevin**	**4. BONNETT, Paul, Edward**
(73)	**1.** **2.**	
(30)	**1. (EP) 07005456.4 - 16-03-2007** **2. (PCT/EP2008/001259) - 19-02-2008** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) NOVEL SOLID FORMS OF A MICROBIOCIDE-NOUVELLE FORME SOLIDE D''UN MICROBIOCIDE

Patent Period Started From 19/02/2008 and Will end on 18/02/2028

(57) The present invention relates to novel solid forms of 3-difluoromethyl-1 -methyl-1 H- pyrazole-4-carboxylic acid (9-isopropyl-1,2,3,4-tetrahydro-1,4-methano-naphthalen-5-yl)- amide, such as crystal modifications and hydrates, compositions comprising these novel solid forms and to the use thereof in the control of disease infestation in cultivated plants .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/03/2017** **0348/2017** **October 2019** **12/02/2020** **29673**

(51)	**Int. Cl. [8] G01N 33/49 & B01L 3/00**
(71)	**1. Perosphere Inc. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. BAKHRU , SASHA 4- LAULICHT, BRYAN** **2. ZAPPE, STEFAN** **3. STEINER, SOLOMON**
(73)	**1.** **2.**
(30)	**1. (US) 62/048.183 - 09-09-2014** **2. (PCT/US2015/049198) - 09-09-2015** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**MICROFLUID CHIP-BASED, UNIVERSAL COAGULATION ASSAY**
	Patent Period Started From 09/09/2015 and Will end on 08/09/2035

(57) A microfluidic, chip-based assay device has been developed for measuring physical properties of an analyte (particularly, whole blood or whole blood derivatives). The technologies can be applied to measure clotting times of whole blood or blood derivatives, determine the effects of anticoagulant drugs on the kinetics of clotting/coagulation, as well as evaluate the effect of anticoagulant reversal agents. These technologies can additionally be used to optimize the dosage of anticoagulation drugs and/or their reversal agents. The assay is independent of the presence of anticoagulant; clotting is activated by exposure of the blood sample in the device to a glass (or other negatively charged material such as oxidized silicon) surface, which activates the intrinsic pathway and can be further hastened by the application of shear flow across the activating materials surface. The absence of chemical activating agents and highly controlled and reproducible micro-environment yields a point of care universal clotting assay.

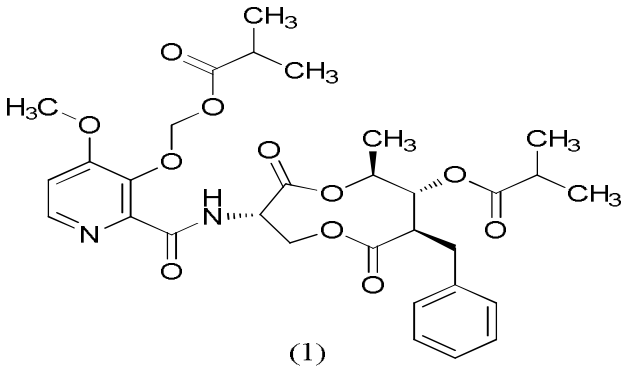
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/06/2015** **1042/2015** **September 2019** **13/02/2020** **29674**

(51)	**Int. Cl. [8] A01N 43/54, 43/40**
(71)	**1. DOW AGROSCIENCES LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. OUIMETTE, David, G** **2. MATHIESON, John, T** **3. KEMMITT, Greg**
(73)	**1.** **2.**
(30)	**1. (US) 61/747,496 - 31-12-2012** **2. (PCT/US2013/078505) - 31-12-2013** **3.**
(74)	**ABD ELHADI OFFICE**
(12)	**Patent**

(54) **A METHOD FOR CONTROL AND PREVENTION OF SUGAR BEET LEAF SPOT CAUSED BY CERCOSPORA BETICOLA (CERCBE)**

Patent Period Started From 31/12/2013 and Will end on 30/12/2033

(57) THE PRESENT INVENTION RELATED TO A method for the control and prevention of sugar beet leaf spot caused by Cercospora beticola (CERCBE) in a sugar beet plant has been discovered. The method involves applying effective amounts of Formula I to sugar beets.



(1)

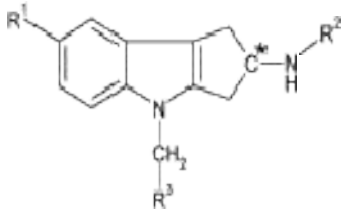
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/05/2009** **0698/2009** **November 2019** **13/02/2020** **29675**

(51)	**Int. Cl. [8] A61K 31/404 & A61P 5/26 & C07D 209/58**	
(71)	**1. ELI LILLY AND COMPANY (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. MATTHEWS, Donald, Paul** **2. GAVARDINAS, Konstantinos** **3. JADHAV, Prabhakar, Kondaji**	**4. GREEN, Jonathan, Edward**
(73)	**1.** **2.**	
(30)	**1. (US) 60/866,484 - 20-11-2006** **2. (PCT/US2007/083745) - 06-11-2007** **3.**	
(74)	**HODA AHMEDABDEL HADY (Abdel Hadi Patent Office)**	
(12)	**Patent**	

(54) TETRAHYDROCYCLOPENTA[B] INDOLE COMPOUNDS AS ANDROGEN RECEPTOR MODULATORS

Patent Period Started From 06/11/2007 and Will end on 05/11/2027

(57) The present invention provides a compound of the formula: Formula (I) or a pharmaceutically acceptable salt thereof; pharmaceutical compositions comprising aa compound of Formula (I) in combination with a suitable carrier, diluent, or excipient; and methods for treating physiological disorders, particularly reduced bones mass, osteoporosis, osteopenia, or reduced muscle mass or strength, comprising administering a compound of Formula (I), or a pharmaceutically acceptable salt thereof. X-17142.



الصيغة (I)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/06/2016** **1051/2016** **September 2019** **13/02/2020** **29676**

(51)	**Int. Cl. [8] C08L 23/14 & C08F 2/00**
(71)	**1. BOREALIS AG (AUSTRIA)** **2. ABU DHABI POLYMERS CO LTD (BOROUGE) L.L.C (UNITED STATES OF AMERICA)** **3.**
(72)	**1. JOHNSEN, Geir** **2. LAMPELA,JANNE** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13198670.5 - 19-12-2013** **2. (PCT/EP2014/078245) - 17-12-2014** **3.**
(74)	**OFFICE DIB LAWYERS**
(12)	**Patent**

(54)	**MULTIMODAL POLYPROPYLENE WITH RESPECT TO COMONOMER CONTENT**
	Patent Period Started From 17/12/2014 and Will end on 16/12/2034

(57) Multimodal polypropylene with high melt flow comprising two propylene copolymer fractions with different comonomer content.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/03/2016** **0341/2016** **November 2019** **16/02/2020** **29677**

(51)	**Int. Cl. [8] A23J 1/14 & A23K 114/16**
(71)	**1. BUNGE GLOBAL INNOVATION, LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. DRAGANOV, Lyubomir Krustev** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13184270.0 - 13-09-2013** **2. (PCT/IB2014/064463) - 12-09-2014** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) PROCESS FOR PREPARING HIGH PROTEIN SUNFLOWER MEAL FRACTION

Patent Period Started From 12/09/2014 and Will end on 11/09/2034

(57) A process for preparing a sunflower meal fraction containing at least 50% of proteins and 10% or less of crude fibers. Sunflower meal fraction obtained by the process thereof and its use for preparing animal feed compositions.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/01/2017** **0008/2017** **November 2019** **17/02/2020** **29678**

(51)	**Int. Cl. [8] E21B 10/02, 25/00, 49/02 & G01N 1/08**
(71)	**1. Baker Hughes Incorporated (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. FULDA , Christian** **2. UHLENBERG , Thomas** **3. WESEMEIER , Christoph**
(73)	**1.** **2.**
(30)	**1. (US) 14/328,318 - 10-07-2014** **2. (PCT/US2015/039916) - 10-07-2015** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) CORING TOOLS EXHIBITING REDUCED ROTATIONAL ECCENTRICITY AND RELATED METHODS

Patent Period Started From 10/07/2015 and Will end on 09/07/2035

(57) Coring tools configured to procure core samples of earth formations may include a coring bit comprising a cutting structure configured to cut a core sample and an outer barrel connected to the coring bit. The outer barrel may be configured to apply axial and rotational force to the coring bit. An inner barrel may be located within the outer barrel and may be configured to receive a core sample within the inner barrel. A sponge material may line an inner surface of the inner barrel and may be configured to absorb a fluid from the core sample. A stabilizer may be connected to the outer barrel. At least one blade of the stabilizer may be rotatable with respect to the outer barrel and may be configured to remain at least substantially rotationally stationary relative to the earth formation during coring.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/10/2016** **1631/2016** **October 2019** **18/02/2020** **29679**

(51)	**Int. Cl. [8] E03F 1/00 & B61D 35/00 & B63B 29/14 & B60R 15/04 & B64D 11/02**
(71)	**1. EVAC GMBH (GERMANY)** **2.** **3.**
(72)	**1. OREMEK, Peter** **2. AUTZEN, Matthias** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 20 2014 003 059.6 - 10-04-2014** **2. (PCT/EP2015/057762) - 09-04-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**PNEUMATIC COMPACT VACUUM TOILET**
	Patent Period Started From 09/04/2015 and Will end on 08/04/2035

(57) The invention relates to a pneumatic compact vacuum toilet comprising a toilet bowl with an outlet channel which opens into an intermediate tank, wherein the intermediate tank has a wastewater channel through which wastewater can be discharged gravitationally from the intermediate tank, and wherein the outlet channel has an outlet valve which is arranged and designed to close the outlet channel in a first outlet valve position and to open it in a second outlet valve position, and the wastewater channel has a wastewater valve which is arranged and designed to open the wastewater channel in a first wastewater valve position and to close it in a second wastewater valve position, and wherein the outlet valve and the wastewater valve are designed as pneumatic shut-off valves.

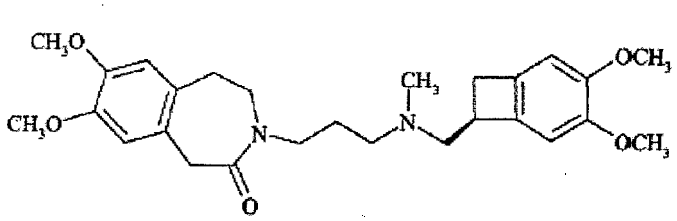
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/02/2005** **0087/2005** **November 2019** **18/02/2020** **29680**

(51)	**Int. Cl. [8] C07D 223/16**
(71)	**1. LES LABORATOIRES SERVIER (FRANCE)** **2.** **3.**
(72)	**1. jean michel, lerestif** **2. jean-pierre lecouve** **3. jean-claude,souvie** **4. Gerarf-damien** **5. stephane-horvath** **6. Marie-noelle-auguste** **7. daniel-brigot**
(73)	**1.** **2.**
(30)	**1. (FR) 04/03830 - 13-04-2004** **2.** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) NEW PROCESS FOR THE SYNTHESIS OF IVABRADINE AND ADDITION SALTS THEREOF WITH A PHARMACEUTICALLY ACCEPTABLE ACID

Patent Period Started From 19/02/2005 and Will end on 18/02/2025

(57) Process for the synthesis of ivabradine of fonIlula (I)



addition salts thereof with a pham1aceutically acceptable acid, and hydrates thereof. a crystalline form of ivabradine hydrochloride. Medicaments.

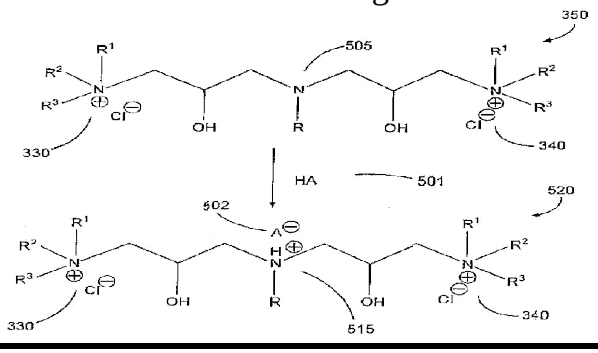
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/10/2016** **1630/2016** **October 2019** **19/02/2020** **29681**

(51)	**Int. Cl. [8] C09K 8/52, 8/524**	
(71)	**1. MULTI-CHEM GROUP, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. QU, Liangwei** **2. SUN, Yanqiu** **3. ZHAO, Funian**	**4. CONKLE, Curtis** **5. ACOSTA, Erick, J**
(73)	**1.** **2.**	
(30)	**1. (PCT/US2014/036738) - 05-05-2014** **2.** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) A METHOD INTRODUCING A COMPOSITION INTO A FLUID COMPRISING A COMPOUND OF LOW DOSAGE HYDRATE INHIBITOR (LDHI)

Patent Period Started From 05/05/2014 and Will end on 04/05/2034

(57) Compounds comprising multiple hydrophilic heads and a lipophilic tail may be employed into fluids to inhibit agglomeration of hydrates, among other things. Suitable hydrophilic heads may include secondary, tertiary, and/or quaternary ammonium cation moieties, phosphonium cation moieties, and combinations thereof. Such LDHI compounds may provide enhanced interactivity with hydrate crystals and/or hydrate-forming molecules. These compounds may be employed in fluids in various environments, such as a conduit penetrating a subterranean formation, or a conduit carrying fluid in an industrial setting.



Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/10/2011** **1822/2011** **October 2019** **23/02/2020** **29682**

(51)	**Int. Cl. [8] A61M 5/175**
(71)	**1. POLY MEDICURE LIMITED (INDIA)** **2.** **3.**
(72)	**1. BAID, Rishi** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (IN) 887 / DEL / 2009 - 29-04-2009** **2. (PCT/IB2010/050698) - 16-02-2010** **3.**
(74)	**ABD ELHADI OFFICE**
(12)	**Patent**

(54)	**INTRAVENOUS SET WITH AN AUTOMATIC STOPPING MECHANISM IN THE DRIP CHAMBER**
	Patent Period Started From 16/02/2010 and Will end on 15/02/2030

(57) An intravenous set with an automatic stopping mechanism in the drip chamber comprising a drip chamber wherein the top portion of the drip chamber has a cap with a sharp tooth extending radially outwards for puncturing a container or bottle; wherein a lower portion of the drip chamber is connected to a joint or stem; wherein the joint or stem 23 is connected to a flexible tube ending in a valve to be connected to a catheter; wherein the flexible tube has a manual flow control device; wherein inside the drip chamber contains a stopper for automatic control of flow of fluid from the drip chamber; wherein the stopper comprises of a lower part or diaphragm, a middle part or stem and a upper part; and wherein the stem and the diaphragm are connected by a stud, which stud is flexible and a part of the diaphragm; and wherein the stopper is submerged as fluid filled in the drip chamber, fluid flows through the exit of the drip chamber to cause the stopper to fall, thereby stopping fluid exiting when the diaphragm of the stopper blocks the exit of the drip chamber and fluid in the drip chamber is used up.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/01/2008** **0157/2008** **November 2019** **20/02/2020** **29683**

(51)	**Int. Cl. [8] C03C 3/087, 4/08**
(71)	**1. vitro flat glass llc (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. SHELESTAK, LARRY J.** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 11/192,497 - 29-07-2005** **2. (PCT/US2006/028916) - 25-07-2006** **3.**
(74)	**HODA AHMEDABDEL HADY**
(12)	**Patent**

(54) GREEN GLASS COMPOSITION

Patent Period Started From 25/07/2006 and Will end on 24/07/2026

(57) A glass composition that includes a base glass composition including: SiO_2 from 65 to 75 weight percent, Na20 from 10 to 20 weight percent, CaO from 5 to 15 weight percent, MgO from 0 to 5 weight percent, $A1_2O_3$ from 0 to 5 weight percent, K_2O from 0 to 5 weight percent, and a colorant and property modifying portion including total iron equal to or less than 0.6 weight percent; and TiO_2 ranging from 0.1 to 1.0 weight percent, wherein the redox ratio ranges from 0.33 to 0.45 and the weight percents are based on the total weight of the composition.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/07/2014** **1180/2014** **November 2019** **20/02/2020** **29684**

(51)	**Int. Cl. [8] A47F 7/28 & B66D 1/24**
(71)	**1. Al Ibtikar Packaging & Investment Co., Ltd. (JORDAN)** **2.** **3.**
(72)	**1. Ismail Omar Ismail Dabbur** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (JO) 21602014 - 06-07-2014** **2.** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**A STROPER WITH SAFETY STRIP FOR ABSOLUTE LOCK OF BOTTLES?S NECK and method for production**
	Patent Period Started From 16/07/2014 and Will end on 15/07/2034

(57) The present invention relates to absolute safe closure of beverages, food, medical bottles so that they cannot be opened and reclosed assuming the shape of first production in the factory. The first closing of the bottle?s closure is only once in an absolute and tight manner, such that if the bottle is opened for the first time in any manner, it cannot be closed tightly and safely via intervention and engagement of the stopper with the neck of the bottle upon its closure for the first time. Using such closure manner, two parts are constituting one part such that they are non-detachable in any way, unless safety strip of stopper is tampered, that it cannot be reused as it was in the first case.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/06/2008** **0956/2008** **October 2019** **20/02/2020** **29685**

(51)	**Int. Cl. [8] C07K 16/18 & A61K 39/395 & A61P 25/28**		
(71)	**1. F. HOFFMANN-LA ROCHE AG (SWITZERLAND)** **2.** **3.**		
(72)	**1. weyer,karl** **2. HUBER, WALTER** **3. SCHUHBAUER, DIANA**	**4. LOETSCHER, HANSRUEDI** **5. schaubmar,andreas** **6. koll,hans**	**7. bohrmann,bernd** **8. lang,kurt** **9. Brockhaus,manfred**
(73)	**1.** **2.**		
(30)	**1. (EP) 05027090.9 - 12-12-2005** **2. (PCT/EP2006/011914) – 11-12-2006** **3.**		
(74)	**SAMAR AHMED EL LABBAD**		
(12)	**Patent**		

(54) COMPOSITION COMPRISING GLYCOSYLATED ANTIBODY AGAINST AMYLOID BETA-4

Patent Period Started From 11/12/2006 and Will end on 10/12/2026

(57) The present invention discloses a composition comprising an antibody molecule capable of specifically recognizing the B-A4 peptide/AB4, wherein said antibody comprises one glycosylated asparagine (Asn) at position 52 of SEQ ID NO:2 or SEQ ID NO:6 in the variable region of the heavy chain (VH).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/12/2016** **2000/2016** **October 2019** **20/02/2020** **29686**

(51)	**Int. Cl. [8] B22D 11/10M 41/50**
(71)	**1. ARVEDI STEEL ENGINEERING S.P.A (ITALY)** **2. VESUVIUS USA CORPORATION(UNITED STATES OF AMERICA)** **3.**
(72)	**1. ARVEDI, Giovanni** **2. BIANCHI, Andrea Teodoro** **3. RICHAUD, Johan**
(73)	**1.** **2.**
(30)	**1. (EP) 14171989.8 - 11-06-2014** **2. (PCT/IB2015/054197) - 03-06-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**THIN SLAB NOZZLE FOR DISTRIBUTING HIGH MASS FLOW RATES**
	Patent Period Started From 03/06/2015 and Will end on 02/06/2035
(57)	The present invention concerns a thin slab nozzle for casting thin slabs made of metal at a very high mass-flow, said thin slab nozzle comprising: a central bore defined by a bore wall and opening at inlet orifice and extending therefrom along the longitudinal axis XI until it is closed at an upstream end of a divider, said central bore comprising: an upstream bore portion comprising the inlet orifice and extending over a height, Ha, and, adjacent thereto, forming an upstream boundary with a converging bore portion of height He located in the connecting portion of the thin slab nozzle, and adjacent thereto a thin bore portion of height Hf located in the diffusing portion of the thin slab nozzle and ending at the level of the upstream end of the divider, first and second front ports separated from one another by said divider and coupled to the central bore portion at least partially at the converging bore portion; characterized in that, in a section of the thin slab nozzle along the first symmetry plane ?1 defined by (X1, X2) wherein X2 is normal to X1, the geometry of the wall of the central bore is characterized as follows: - the radius of curvature at any point of the bore wall of the converging bore portion is finite, and the ratio of the height, Hf, of the thin bore portion to the height, He, of the converging bore portion is not more than 1, Hf/He 1.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/03/2012** **0493/2012 D1** **October 2019** **20/02/2020** **29687**

(51)	**Int. Cl. [8] C01B 25/22**
(71)	**1. CYTEC TECHNOLOGY CORP (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. RAVISHANKAR, Sathanjheri** **2. WANG, Bing** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/245,746 - 25-09-2009** **2. (PCT/US2010/049983)** **3.**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54) PROCESS AND REAGENTS FOR THE INHIBITION OR REDUCTION OF SCALE FORMATION DURING PHOSPHORIC ACID PRODUCTION

Patent Period Started From23/09/2010 and Will end on 22/09/2030

(57) Processes and reagents for inhibiting or eliminating scale formation during wet-process phosphoric acid production are provided and include adding to a wet- process phosphoric acid production stream a scale inhibiting amount of a reagent having an aliphatic or aromatic compound containing at least two hydroxy groups, and at least one amine.

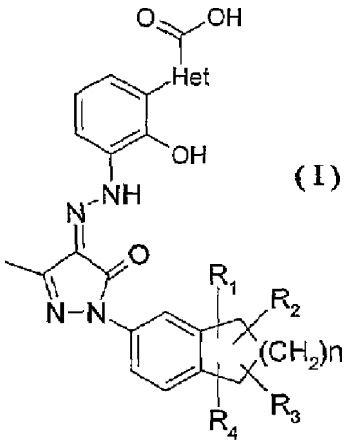
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/11/2011** **1976/2011** **October 2019** **20/02/2020** **29688**

(51)	**Int. Cl. [8] A61K 31/4152, 31/655 & A61P 7/04 & C07D 231/46, 405/12**	
(71)	**1. SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD (CHINA)** **2. JIANGSU HENGRUI MEDICINE CO., LTD CHINA)** **3.**	
(72)	**1. CHEN, Yiqian** **2. Lu, Hejun** **3. TANG, Peng Cho**	**4. FEI, Hongbo**
(73)	**1.** **2.**	
(30)	**1. (CN) 1 . 200910052946 - 11-06-2009** **2. (PCT/CN2010/000760) - 28-05-2010** **3.**	
(74)	**ABD ELHADI OFFICE**	
(12)	**Patent**	

(54) **SALTS OF BICYCLO-SUBSTITUTED PYRAZOLON AZO DERIVATIVES AS THROMBOPOIETIN MIMETICS, PREPARATION METHOD AND PREPARATION THEREOF**

Patent Period Started From 28/05/2010 and Will end on 27/05/2030

(57) The pharmaceutically acceptable salts of bicycle-substituted pyrazolon azo derivatives represented by the general formula (I), their preparation methods, pharmaceutical compositions containing the same and their use as a therapeutic agent, especially as thrombopoietin (TPO) mimetics and their use as agonists of thrombopoietin receptor. The definitions of substituents in the general formula (I) are the same as the description.



(I)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/11/2016** **1844/2016** **October 2019** **20/02/2020** **29689**

(51)	**Int. Cl. [8] C04B 14/06, 18/02**
(71)	**1. Innovative Sand GmbH (GERMANY)** **2.** **3.**
(72)	**1. BEHNISCH, Dennis** **2. IKIC,JORAN** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2014 006 942.7 - 10-05-2014** **2. (DE) 121-12-20140 2014 019 319.5** **3. (PCT/DE2015/000238) - 09-05-2015**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) METHOD AND DEVICE FOR PRODUCING ARTIFICIAL CRUSHED SAND BY MEANS OF A THERMAL TREATMENT USING SAND IN THE FORM OF FINE SAND (FS/FSA) AND/OR ROUND SAND AS THE STARTING MATERIAL

Patent Period Started From 09/05/2015 and Will end on 08/05/2035

(57) The invention relates to a method for producing artificial crushed sand by means of a thermal treatment using sand in the form of fine sand (FS/FSa) and/or round sand as the starting material. The starting material in variant A is heated to a melting temperature by bundling sun rays, and/or the starting material in variant B is heated to a melting temperature by using a conventional melting device which achieves its energy supply using converted or stored solar power, whereby each of a plurality of sand grains are melted together into a three-dimensional intermediate product. The intermediate product produced in this manner is cooled and finally comminuted to a particle size of less than 2 mm in a comminuting process. An end product is produced which differs from the starting material with respect to the shape and surface roughness. The method offers a long-term solution for meeting the demand for crushed sand and provides sand for the construction industry.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/02/2016** **2016/0323** **October 2019** **20/02/2020** **29690**

(51)	**Int. Cl. [8] C22B 11/00, 15/00, 3/12**
(71)	**1. Curtin University of Technology (AUSTRALIA)** **2.** **3.**
(72)	**1. EKSTEEN, Jacobus Johannes** **2. ORABY, Elsayed Abdelrady** **3.**
(73)	**1.** **2.**
(30)	**1. (AU) 2013903380 - 04-09-2013** **2. (AU) 2014902389 - 23-06-2014** **3. (PCT/AU2014/000877) - 04-09-2014**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) A PROCESS FOR COPPER AND/OR PRECIOUS METAL RECOVERY

Patent Period Started From 04/09/2014 and Will end on 03/09/2034

(57) A process for recovery of metal comprising copper and/or a precious metal from a metal containing material, including the steps of: leaching the metal containing material with an alkaline lixiviant and an amino acid or derivative thereof in order to produce a metal containing leachate; and extracting the metal from the leachate.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/08/2013** **1349/2013 D1** **October 2019** **25/02/2020** **29691**

(51)	**Int. Cl. [8] C04B 20/06, 28/14**	
(71)	**1. UNITED STATES GYPSUM COMPANY (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. YU, Qiang** **2. LUAN, Wenqi** **3. SONG, Weixin D**	**4. VEERAMASUNENI, Srinivas** **5. LI, Alfred**
(73)	**1.** **2.**	
(30)	**1. (US) 61/446,941 - 25-02-2011** **2. (PCT/US2012/026613) - 24-02-2012** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) LIGHTWEIGHT, REDUCED DENSITY FIRE RATED GYPSUM PANELS Comprising Stucco , and a Wall Assembly Thereof

Patent Period Started From 24/02/2012 and Will end on 23/02/2032

(57) THIS INVENTION RELATES TO LIGHTWEIGHT , REDUCED DENSITY FIRE RATE PYPSUM PANELS COMPRISING A GYPSUM CORE COMPRISING , INTER ALILA , (i) stucco in an amount of 1162 to 1565 lb/msf (5.7 to 7.6 kg / m2) , (ii) starch in an amount ofup to 3% by weight of stucco , and (iii) mineral carbon and / or glass fibers , and a wall assembly of these panels , comprising a first panel comprising a gypsum core disposed between cover sheets , and a second panel comprisind a gypsum core , where in the first and second panels define an interior cavity of the wall assembly between the first and second panels " .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/06/2015** **0920/2015** **December 2019** **25/02/2020** **29692**

(51)	**Int. Cl. [8] H04W 48/08**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. JAFARIAN, Amin** **2. MERLIN, Simone** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/736,417 - 12-12-2012** **2. (US) 61/798,861 - 15-03-2013** **3. (US) 14/102,475 - 10-12-2013** **4. (PCT/US2013/074413) - 11-12-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) SYSTEM AND METHOD FOR IMPROVED COMMUNICATION ON A WIRELESS NETWORK

Patent Period Started From 11/12/2013 and Will end on 10/12/2033

(57) Systems and methods for wireless communication are disclosed. In one aspect an access point includes a processor configured to generate a message identifying a time period during which the apparatus is to communicate data with one or more wireless devices, the message further including an indicator indicating a wireless communication flow direction during the time period. The access point further includes a transmitter configured to transmit the generated message.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/05/2016** **0790/2016** **November 2019** **25/02/2020** **29693**

(51)	**Int. Cl. [8] A62D 3/30 & C05C 1/02 & C05G 3/00**		
(71)	**1. ALCOA I (UNITED STATES OF AMERICA)** **2.** **3.**		
(72)	**1. WEAVER, Mark L** **2. CRUM, Kyle A** **3. NICHOLS, Judodine** **4. IWIG, David F**	**5. ORKIS, Steven C.** **6. CARKIN, Gerald E** **7. GENCAGA, Orhan Deniz** **8. SUNDAY, Stephen P.**	**9. HARRISON, Ian Ross** **10. SMITH, John R.** **11. PARKS, Shannon L.** **12. GERSHENZON, Mikhail**
(73)	**1.** **2.**		
(30)	**1. (US) 61/903,293 - 12-11-2013** **2. (US) 61/909,625 – 27-11-2013** **3. (PCT/US2014/065270) - 12-11-2014**		
(74)	**SAMAR AHMED EL LABBAD**		
(12)	**Patent**		

(54)	**AGRICULTURE FERTILIZERS COMPOSITIONS FORM AMMONIUM NITRATE**
	Patent Period Started From 12/11/2014 and Will end on 11/11/2034

(57) A fertilizer composition, comprising: an ammonium nitrate material; and an effective amount of a stabilizer material to result in a specific impulse of not greater than 13.5 kpa*ms/kg; wherein the stabilizer material comprises hydrocalumite, hydroxyapatite hydrotalcite, and/or apatite, wherein the stabilizer material is at least 12.5 wt. % of the total fertilizer composition, wherein the stabilizer material is not greater than 50 wt. % of the total fertilizer composition, preferably not greater than 45 wt. % of the total fertilizer composition, more preferably not greater than 40 wt. % of the total fertilizer composition and most preferably not greater than 35 wt. % of the total fertilizer composition, and wherein the fertilizer composition is configured in the form of: pellets, prills, granules, disks, powder, or combinations thereof.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/03/2016** **0478/2016** **October 2019** **26/02/2020** **29694**

(51)	**Int. Cl. [8] B 29C 70/06, B 32B 17/04, C 08J 5/04, C 08K 3/00, 7/14, C 08L 67/06**	
(71)	**1. Channell Commercial Corporation (UNITED STATES OF AMERICA)** **2. PRC COMPOSITES, LLC (UNITED STATES OF AMERICA)** **3.**	
(72)	**1. BURKE, Edward, J** **2. Thomas Atkins** **3. Brian Anthony Beach**	**4. Robert Gwillim**
(73)	**1.** **2.**	
(30)	**1. (US) 14/684209 - 10-04-2015** **2.** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) THERMOSET POLYMER UTILITY VAULT LID

Patent Period Started From 20/03/2016 and Will end on 19/03/2036

(57) A fiber reinforced polymer material lid or cover for a utility vault made from an unsaturated polyester thermosetting resin matrix, glass fiber reinforcement, an inorganic filler and an ultraviolet inhibitor. The lid or cover has a flat textured upper surface having a plurality of bosses having different heights extending above the upper surface and a bottom surface having an outer perimeter rim with a recessed interior cavity having a number of continuous support ribs extending through the recessed interior cavity from opposite sides of the outer perimeter of the rim to transfer load placed on the lid or cover and minimize deflection under the load to the outer perimeter rim.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/09/2016** **1552/2016** **December 2019** **26/02/2020** **29695**

(51)	**Int. Cl. [8] B60B 35/04, 17/00, 35/02**
(71)	**1. LUCCHINI RS S.P.A (ITALY)** **2.** **3.**
(72)	**1. CANTINI, Stefano** **2. CERVELLO, Steven** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) BS2014A000074 - 27-03-2014** **2. (PCT/IB2015/051934) - 17-03-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) AXLE OF WHEEL SETS AND RESPECTIVE METHOD FOR THE ULTRASOUND INSPECTION

Patent Period Started From 17/03/2015 and Will end on 16/03/2035

(57) An axle of railway wheel sets and a corresponding method for the ultrasound inspection are described. A blind hole, coaxial to the axle and sized to accommodate an ultrasonic probe, is obtained in each end of the axle. Main holes are intended to accommodate the probe holder containing a plurality of ultrasonic transducers for the inspection of the axle from the inside of the hole. The main advantage is to facilitate the propagation of the ultrasounds without being subjected to the interference caused by the geometric discontinuities normally present at the ends of the axles thereby minimizing false positives in the readings of the echoes.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/09/2016** **1509/2016** **August 2019** **26/02/2020** **29696**

(51)	**Int. Cl. [8] F27D 5/00 & C04B 33/24 & C21D 9/00**
(71)	**1. IMERYS KILN FURNITURE HUNGARY (HUNGARY)** **2.** **3.**
(72)	**1. KISS, Sandor** **2. BOURDELY, Manuel** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14159995.1 - 14-03-2014** **2. (EP) 14160307.6 – 17-3-2014** **3. (PCT/EP2015/054715) - 06-03-2015**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**CERAMIC ASSEMBLIES**
	Patent Period Started From 06/03/2015 and Will end on 05/03/2035

(57) He present invention relates to an assembly for supporting products to be treated in a kiln, comprising a rod-shaped central prop, a plurality of setters for being mounted around the rod-like central prop such that each setter is freely rotatable around the longitudinal axis of the said central prop, and optionally a number of spacers for positioning between adjacent setters. Each setter may carry a plurality of objects to be treated.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/12/2015** **1889/2015** **December 2019** **26/02/2020** **29697**

(51)	**Int. Cl. [8] B65D 19/06**
(71)	**1. GREEN BOX S.L (SPAIN)** **2.** **3.**
(72)	**1. RUBIO GRADOLi, José** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (ES) U 201330842 - 04-07-2013** **2. (PCT/ES2014/070084) - 06-02-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**ASSEMBLABLE CONTAINER**
	Patent Period Started From 06/02/2014 and Will end on 05/02/2034

(57) Assemblable container, comprising a side cover, a lower platform with corner support legs and middle support legs, and an assembly frame with stiles that can be fitted and engaged into the corner support legs, two intermediate cross beams situated on two facing sides of the container and two upper cross beams situated facing and parallel to one another on the remaining two sides of the container, all of which are mounted by their ends between facing housings in consecutive stiles, wherein the housings of the upper cross beams are cut from the top end section of said stiles. The support legs are hollow and nest into one another, enabling the platforms to be stacked, and are closed on their bottom base and open on their top base, and have structures on said bottom base for support on top of the stiles and upper cross beams, so that two or more containers can be stacked

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/10/2015** **1621/2015** **December 2019** **26/02/2020** **29698**

(51)	**Int. Cl. [8] C04B 35/04, 35/626, 35/043**
(71)	**1. REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG (AUSTRIA)** **2.** **3.**
(72)	**1. ECKSTEIN, Wilfried** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13171234.1 - 10-06-2013** **2. (PCT/EP2014/055810) - 24-03-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**BATCH COMPOSITION FOR PRODUCING AN UNSHAPED REFRACTORY CERAMIC, METHOD FOR PRODUCING A FIRED REFRACTORY CERAMIC PRODUCT**
	Patent Period Started From 24/03/2014 and Will end on 23/03/2034

(57) The invention relates to a batch composition for producing an unshaped refractory ceramic product comprising; 55 to 95 % by mass of at least one magnesia-based raw material, and 5 to 45 % by mass of at least one magnesite-based raw material in the form of raw magnesite and less than 10 % by mass of further components, each relative to. The total mass of the batch; wherein the total calcium carbonate content of the magnesite-based raw materials lies below 10 % by mass relative to the total mass of the magnesite-based raw materials.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/07/2015** **1184/2015** **December 2019** **26/02/2020** **29699**

(51)	**Int. Cl. [8] B63B 21/58**
(71)	**1. NOVA PATENT B.V (NETHERLANDS)** **2.** **3.**
(72)	**1. RODENBURG, Robert** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13153264.0 - 31-01-2013** **2. (PCT/NL2014/050047) - 30-01-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**TOWING SYSTEM FOR A TUGBOAT**
	Patent Period Started From 30/01/2014 and Will end on 29/01/2034

(57) Towing system for a tugboat. This consists of a ring arranged on the deck of the tugboat along which a cart moves on which a winch is arranged. At a larger diameter of the ring manufacturing inaccuracies of the cart respectively the ring respectively deformations can be absorbed in a particularly efficient way by arranging springs between the wheels that engage the ring-shaped base and the cart on which the wheels are arranged. In particular, such springs are rubber springs such as neoprene springs. These can be arranged as blocks, bushes or the like. Preferably, the cart includes a relatively stiff box on which a winch and, more in particular, an electrical winch is arranged. In particular, the cart is a ring, extending around circumferentially.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/08/2015** **1332/2015** **October 2019** **26/02/2020** **29700**

(51)	**Int. Cl. [8] A01N 25/32, 43/40**	
(71)	**1. DOW AGROSCIENCES LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. SATCHIVI, Norbert M** **2. EELEN, Hilde, J.A** **3. WEIMER, Monte, R**	**4. SCHMITZER, Paul, R**
(73)	**1.** **2.**	
(30)	**1. (US) 61/792,777 - 15-03-2013** **2. (PCT/US2014/024099) - 12-03-2014** **3.**	
(74)	**ABD ELHADI OFFICE**	
(12)	**Patent**	

(54) SAFENED HERBICIDAL COMPOSITION INCLUDING PYRIDINE-2-CARBOXYLIC ACID DERIVATIVES FOR USE IN CORN (MAIZE

Patent Period Started From 12/03/2014 and Will end on 11/03/2034

(57) A safened herbicidal composition for use in corn (maize) including a herbicidally effective amount of (a) a compound of formula (I):[FORMULA SHOULD BE INSERTED HERE] or an agriculturally acceptable salt or ester thereof and (b) a safener or a compatible herbicide capable of safening such as AD67, benzenesulfonamide, benoxacor, N-(aminocarbonyl)-2- chlorobenzenesulfonamide (2-CBSU), daimuron, dichlormid, dichloroacetamide, dicyclonon, fenchlorazole-ethyl, fenclorim, fluxofenim, furilazole, isoxadifen-ethyl, mefenpyr-diethyl, naphthopyranone, naphthalic anhydride (NA), oxabetrinil, oxime, phenylpyrimidine, phenylurea, a chemical from the quinolinyloxyacetate family of chemicals, or agriculturally acceptable salts, esters, or mixtures thereof.

Arab Republic of Egypt
Ministry of State for Scientific Research
Academy of Scientific Research & Technology

GRANTED PATENTS' ABSTRACTS GAZETTE

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Egyptian Patent Office

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

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Patent Attorney Name	74

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UA	Ukraine
UG	Uganda
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UZ	Uzbekistan
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YD	Yemen
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
MARCH (2020)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/12/2012** **2115/2012** **December 2019** **01/03/2020** **29701**

(51)	**Int. Cl. [8] B01J 21/08, 23/26, 35/10, 35/00, 35/04, 37/02, 37/03, 37/06 & C08F 10/00, 4/24**
(71)	**1. PQ CORPORATION (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. HU, Yatao, Rachel** **2. LEE, Myoung, Kie** **3. SHAH, Parag, Rasiklal**
(73)	**1.** **2.**
(30)	**1. (EP) 10251143.3 - 24-06-2010** **2. (US) 61/358,125 - 24-06-2010** **3. (PCT/GB2011/000943) - 23-06-2011**
(74)	**MAHMOUD RAGAEY ELDEKY**
(12)	**Patent**

(54) CATALYST SUPPORTS, CATALYSTS AND THEIR MANUFACTURE

Patent Period Started From 23/06/2011 and Will end on 22/06/2031

(57) A process for preparation of silica xerogel catalyst support particles having high surface areas involves ageing a silica hydrogel at a pH from 3 to 5 and at a temperature of 45?C or more. The ageing at low pH leads to a silica gel which may be converted to a xerogel having a pore volume of 1.5 cm^3 /g or more and a surface area of 600 m^2/g or more by removal of liquid from the pore structure by solvent exchange with a liquid solvent having a surface tension of 35 mN/m or less. The resulting particles are useful for carrying catalyst metal compounds, such as a chromium compounds, in the pore structure to act as catalyst precursors. These catalyst precursors may be activated into porous catalyst particles suitable for use for olefin polymerisation to provide high activity and for forming high molecular weight polymers (low MI polymers) with good crack resistance.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/06/2009** **0984/2009** **October 2019** **01/03/2020** **29702**

(51)	**Int. Cl. [8] A61K 38/28**	
(71)	**1. HANMI PHARMACEUTICAL CO., LTD (REPUBLIC OF KOREA)** **2.** **3.**	
(72)	**1. JUNG, Sung Youb** **2. SONG, Tae Hun** **3. KIM, Young Hoon** **4. KWON, Se Chang**	**5. LEE, Gwan Sun** **6. SONG, Dae Hae** **7. CHOI, In Young** **8. LIM, Chang Ki**
(73)	**1.** **2.**	
(30)	**1. (KR) 10-2007-0001662 - 05-01-2007** **2. (PCT/KR2008/000061) - 04-01-2008** **3.**	
(74)	**MAHMOUD RAGAEY ELDEKY**	
(12)	**Patent**	

(54)	**AN INSULINOTROPIC PEPTIDE CONJUGATE**
	Patent Period Started From 04/01/2008 and Will end on 03/01/2028

(57) The present invention relates to an insulinotropic peptide conjugate, comprising an insulinotropic peptide, non-peptidyl polymer and an immunologbulin Fc region, which are covalently linked to esch other, wherein said insulinotropic peptide conjugate is characterized by improved efficacy and stability, and pharmaceutical composition comprising thereof.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/10/2017** **1730/2017** **November 2019** **01/03/2020** **29703**

(51)	**Int. Cl. [8] F21K 9/23, 9/237, 9/238, 9/69**
(71)	**1. HUNAN YUEGANG MOOKRAY INDUSTRIAL CO., LTD (CHINA)** **2.** **3.**
(72)	**1. ZHU, HENG** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (CN) 201610127500.0 - 07-03-2016** **2. (CN) 201610193264.2 - 30-03-2016** **3. (CN) 201610193265.7 - 30-03-2016** **4. (CN) 201610478569.8 - 24-06-2016** **5. (CN) 201610479251.1 - 24-06-2016** **6. (CN) 201610479318.1 - 24-06-2016** **7. (PCT/CN2017/083178) - 05-05-2017**
(74)	**Amr Mofed Eldeeb**
(12)	**Patent**

(54)	**LED ILLUMINATING DEVICE**
	Patent Period Started From 05/05/2017 and Will end on 04/05/2037

(57) The present invention relates to an LED illuminating device, which includes a lamp cover, a housing, and a base formed in a standardized general modularized manner that can be combined to form the desired appearance of the illuminating device. Also, a lens decorative lighting member, which uses general screw-in manner, is included. The lens decorative lighting member can act as both decorative lighting and lens. The elected lens decorative lighting member can change the light emitting angle and the color temperature arbitrarily. A plug-in integrated light source module consisting of lamp bead and the heat sink is further included. A plug-in three-dimensional circuit-connecting component, which replaces the existing PCB, is further included to form a general component, which can be arbitrarily bent, fixed, and tailored. A plug-in power supply module is further included, wherein additional functions can be arbitrarily selected and replaced based on demands. Thus, the new LED illuminating device can be realized with modularization, standardization, and diversification.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/11/2015** **1848/2015** **December 2019** **01/03/2020** **29704**

(51)	**Int. Cl. [8] C09K 8/62, 8/035 & E21B 43/22**
(71)	**1. TUCC TECHNOLOGY, LLC** **2.** **3.**
(72)	**1. DOBSON, James, W., Jr** **2. HAYDEN, Shauna L** **3. TRESCO, Kim O**
(73)	**1.** **2.**
(30)	**1. (US) 61/827,064 - 24-05-2013** **2. (PCT/US2014/039461) - 23-05-2014** **3.**
(74)	**Amr Mofeed Al-Deeb**
(12)	**Patent**

(54) TREATMENT FLUIDS WITH NON-OXIDIZER CLASS INORGANIC PEROXIDE POLYMER BREAKERS

Patent Period Started From 23/05/2014 and Will end on 22/05/2034

(57) A treatment fluid composition for treating a subterranean formation penetrated by a well bore is formed from an aqueous fluid, a hydratable polymer and an inorganic peroxide breaking agent, which is classified as a stable, non-oxidizer according to UN standards but which retains oxidizing properties as measured by the content of available oxygen. A method of treating a subterranean formation penetrated by a well bore may also be performed by forming a treatment fluid from an aqueous hydrated polymer solution. This is combined with a stable, inorganic peroxide breaking agent. The treating fluid is then introduced into the formation. An optional crosslinking agent capable of crosslinking the polymer may also be included.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/04/2015** **0520/2015** **December 2019** **03/03/2020** **29705**

(51)	**Int. Cl. [8] H04N 7/26**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. WANG, Ye-Kui** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/711,098 - 08-10-2012** **2. (US) 13/954,758 - 30-07-2013** **3. (PCT/US2013/060940) - 20-09-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) SUB-BITSTREAM APPLICABILITY TO NESTED SEI MESSAGES IN VIDEO CODING

Patent Period Started From 20/09/2013 and Will end on 19/09/2033

(57) A device determines, based at least in part on a syntax element in a scalable nesting supplemental enhancement information (SEI) message encapsulated by an SEI Network Abstraction Layer (NAL) unit, whether a nested SEI message encapsulated by the scalable nesting SEI message is applicable to a default sub-bitstream. The default sub-bitstream is an operation point representation of an operation point defined by a layer identifier specified in a NAL unit header of the SEI NAL unit and a temporal identifier specified in the NAL unit header. When the nested SEI message is applicable to the default sub-bitstream, the device uses the nested SEI message in an operation on the default sub-bitstream.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/04/2015** **0651/2015** **December 2019** **03/03/2020** **29706**

(51)	**Int. Cl. [8] H04N 6/32, 7/26**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. CHEN, Ying** **2. WANG, Ye-Kui** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/720,364 - 30-10-2012** **2. (US) 14/066,209 - 29-10-2013** **3. (PCT/US2013/067537) - 30-10-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) TARGET OUTPUT LAYERS IN VIDEO CODING

Patent Period Started From 30/10/2013 and Will end on 29/10/2033

(57) In one example, a device includes a video coder configured to code a multilayer bitstream comprising a plurality of layers of video data, where the plurality of layers of video data are associated with a plurality of layer sets, and where each layer set contains one or more layers of video data of the plurality of layers, and to code on one or more syntax elements of the bitstream indicating one or more output operation points, where each output operation point is associated with a layer set of the plurality of layer sets and one or more target output layers of the plurality of layers.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/11/2016** **1799/2016** **October 2019** **03/03/2020** **29707**

(51)	**Int. Cl. [8] C01F5/14 , 5/40 & C09C1/40 , 1/30 & C01G9/02 , 23/00**
(71)	**1. PYLOTE (FRANCE)** **2.** **3.**
(72)	**1. MARCHIN, Loïc** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 1454141 - 07-05-2014** **2. (PCT/FR2015/051223) - 07-05-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) A PROCESS FOR PREPARING A SET OF INORGANIC PARTICLES BY AEROSOL PYROLYSIS

Patent Period Started From 07/05/2015 and Will end on 06/05/2035

(57) A process for preparing a set of particles by aerosol pyrolysis wherein the particles are spherical , inorganic , micrometric and individualised comprising the following steps in a reactor nebulization at a temperature of 10 to 40 c° of a liquid solution containing a precursor to one or more inorganic materials from which the particles are to be formed at a given molar concentration in a solvent which is used to obtain a spray of droplets of the solution heating of spray to a tempreture of 40 tom 120 c° heating of the particles to a tempreature of 120 to 400 c° sufficient to ensure the decomposition of the precursor to form the inorganic material optionally densification of the particles at a trmpreature between 200 to 1000 c° optionally quenching of the particles and recovery of the particles thus formed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/07/2015** **1159/2015** **October 2019** **04/03/2020** **29708**

(51)	**Int. Cl. [8] F22B1/00 & F24J 2/54,2/38,2/16**
(71)	**1. COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES** **2. (FRANCE)** **3.**
(72)	**1. RODAT, Sylvain** **2. VUILLERME, Valéry** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 13 50539 - 22-01-2013** **2. (PCT/EP2014/051094) - 21-01-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) SOLAR CONCENTRATOR POWER STATION OF THE FRESNEL TYPE WITH IMPROVED CONTROL OF THE OUTLET STEAM TEMPERATURE

Patent Period Started From 21/01/2014 and Will end on 20/01/2034

(57) Solar power station of the Fresnel type comprising a vaporizing receiver and a superheating receiver arranged in parallel, and mirrors comprising first mirrors focused on the vaporizing receiver during nominal operation and the second mirrors being focused on the superheating receiver in nominal operation, mirror movement means, in which power station the superheating receiver is supplied with fluid in the form of steam by the vaporizing receiver, said power station also comprising means for controlling the movement means, and means for measuring at least one operating parameter of the power station. The control means activate the movement means as a function of at least one operating parameter of the power station so that at least one mirror is focused onto a different receiver from the receiver on which it is focused in nominal operation.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/08/2015** **1273/2015** **October 2019** **04/03/2020** **29709**

(51)	**Int. Cl. [8] F28D 20/02, 20/00**
(71)	**1. KIM, Byunggyun (REPUBLIC OF KOREA)** **2.** **3.**
(72)	**1. KIM, Byunggyun** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (KR) 10-2013-0017182 - 18-02-2013** **2. (PCT/KR2014/000321) - 10-01-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**METAL HEAT STORAGE APPARATUS**
	Patent Period Started From 10/01/2014 and Will end on 09/01/2034

(57) The present invention relates to a metal heat storage apparatus used to store heat transmitted from the outside, and in particular, the present invention aims to provide a metal heat storage apparatus which stores, at a high temperature, high-temperature solar energy collected by means of a solar concentrator and such others, and allows a gradual discharge thereof, thereby significantly improving the storage of solar energy, which is a natural energy. The present invention doubly insulates a metal heat storage medium, which stores solar energy at a high temperature (100-1300 degrees), and disposes a heat exchanger so as to be proximal to the metal heat storage medium, so that a working heating fluid can be heated for an extended period, wherein, in order to doubly insulate the metal heat storage medium: a medium insertion chamber has an arrangement of an insulating inner wall, an insulating outer wall and an insulating floor on the inner side, outer side and the floor, respectively, of the metal heat storage medium; an outer wall structure, made of concrete, comprises a floor, a central column, an outer wall body, and an upper cover; a mirror for reflecting infrared rays is disposed below the upper cover; and a heat storage tank is vacuum-treated, thus blocking the air-induced convective process and heat conduction, and thereby allowing the loss of heat to be minimized.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/10/2016** **1740/2016** **October 2019** **04/03/2020** **29710**

(51)	**Int. Cl. [8] C12P 7/54**	
(71)	**1. LEBSC S.R.L (ITALY)** **2.** **3.**	
(72)	**1. ROVERI, Norberto** **2. PETRAROIA, Sandra** **3. DE LAURENTIS, Francesco** **4. GALLERANI, Roberto** **5. MEZINI, Odila**	**6. MONTEBUGNOLI, Giulia** **7. MERLI, Selene** **8. D'AMEN, Eros** **9. LESCI, Isidoro Giorgio** **10, LELLI, Marco**
(73)	**1.** **2.**	
(30)	**1. (IT) MI2014A000789 - 29-04-2014** **2. (PCT/IB2015/052021) - 19-03-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) PROCESS FOR BIOCHEMICAL DENATURATION OF AN ASBESTOS-CONTAINING MATERIAL

Patent Period Started From 19/03/2015 and Will end on 18/03/2035

(57) The invention relates to a process for treating an asbestos-containing material, which enables the asbestos to be transformed into inert products (i.e. not hazardous to human health) that can possibly be reused as raw materials for subsequent industrial processing or as directly marketable industrial products. The process comprising the steps of preparing an acidic solution/suspension by subjecting a food industry waste material to mixed bacterial and fungal growth and/or fermentation, and treating an asbestos- containing material with the acidic solution/suspension obtained from the mixed fermentation at a temperature of 120-170°C and pressure of 2-10 bar.

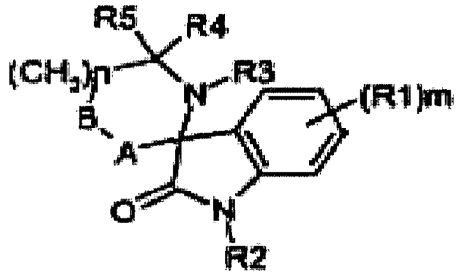
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** 27/10/2010 **(21)** 1840/2010 **(44)** November 2019 **(45)** 04/03/2020 **(11)** 29711

(51)	**Int. Cl. [8] A61K 31/407, 31/424, 31/437, 31/438, 31/55 & A61P 33/00 & C07D 471/20, 487/10, 487/20**	
(71)	**1. NOVARTIS AG [Swizerland]** **2.** **3.**	
(72)	**1. KRASTEL, Philipp** **2. ANG, Shi Hua** **3. ZOU, Bin;**	**4. YEUNG, Bryan KS** **5. WONG, Wei Lin Josephine** **6. TAN, Liying Jocelyn**
(73)	**1.** **2.**	
(30)	**1. (EP) 08155342.2 - 29-04-2008** **2. (EP) 09151117.0 - 22-01-2009** **3. (PCT/EP2009/053902) - 01-04-2009**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) SPIRO-INDOLE DERIVATIVES FOR THE TREATMENT OF PARASITIC DISEASES

Patent Period Started From 01/04/2009 and Will end on 31/03/2029

(57) The invention relates to organic compounds which have interesting pharmaceutical properties. In particular, the compounds are useful in the treatment and/or prevention of infections such as those caused by Plasmodium falciparum, Plasmodium vivax, Plasmodium malariae, Plasmodium ovale, Trypanosoma cruzi and parasites of the Leishmania genus such as, for example, Leishmania donovani. The invention also relates to pharmaceutical compositions containing the compounds, as well as processes for their preparation.



(I)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/10/2016** **1655/2016** **October 2019** **04/03/2020** **29712**

(51)	**Int. Cl. [8] F02C 6/16, 7/224**
(71)	**1. Powerphase LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. KRAFT, Robert J** **2. AUERBACH, Scott** **3. SOBIESKI, Peter A** **4. ARIAS-QUINTERO, Sergio A**
(73)	**1.** **2.**
(30)	**1. (US) 14/350,469 - 08-04-2014** **2. (US) 14/329,340 - 11-07-2014** **3. (PCT/US2015/022756) - 26-03-2015**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) GAS TURBINE EFFICIENCY AND REGULATION SPEED IMPROVEMENTS USING SUPPLEMENTARY AIR SYSTEM

Patent Period Started From 26/03/2015 and Will end on 25/03/2035

(57) The present invention discloses a novel apparatus and methods for augmenting the power of a gas turbine engine, improving gas turbine engine operation, and reducing the response time necessary to meet changing demands of a power plant. Improvements in power augmentation and engine operation include additional heated compressed air injection, steam injection, water recovery, exhaust tempering, fuel heating, and stored heated air injection.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/12/2014** **2018/2014** **December 2019** **04/03/2020** **29713**

(51)	**Int. Cl. [8] A61K 9/00 & A61M 5/28, 5/31, 5/315**	
(71)	**1. Novartis AG (SWITZERLAND)** **2.** **3.**	
(72)	**1. ROYER, Christophe** **2. BRYANT, Andrew Mark** **3. BUETTGEN, Heinrich Martin**	**4. PICCI, Marie**
(73)	**1.** **2.**	
(30)	**1. (EP)12174860.2 - 03-07-2012** **2. (EP) 12189649.2 - 23-10-2012** **3. (AU) 2012101677 - 16-11-2012** **4. (EP)12195360.8 - 03-12-2012** **5. (DE) 20 2012 011 016.0 - 16-11-2012** **6. (DE) 20 2012 011 259.7 - 23-11-2012** **7. (DE) 20 2012 011 260.0 - 23-11-2012** **8. (AU) 2013100070 - 23-01-2013** **9. (AU) 2013100071- 23-01-2013** **10 (AU) 20 2013 000 688.9- 23-01-2013** **11 (PCT/EP2013/051491) - 25-01-2013** **12. (EP) 12195360.8 / 03-12-2012**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) SYRINGE

Patent Period Started From 25/01/2013 and Will end on 24/01/2033

(57) The present invention relates to a syringe, particularly to a small volume syringe such as a syringe suitable for ophthalmic injections.

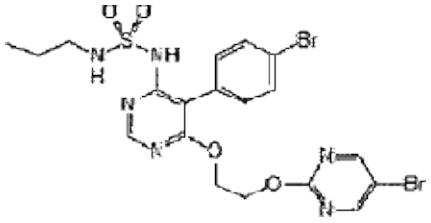
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/02/2009** **0263/2009** **October 2019** **08/03/2020** **29714**

(51)	**Int. Cl. [8] A61K 31/4985, 31/506, 31/519, 31/53, 45/06 & A61P 9/00, 9/10, 9/12**
(71)	**1. ACTELION PHARMACEUTICALS LTD (SWITZERLAND)** **2. CLOZEL, Martine (SWITZERLAND)** **3.**
(72)	**1. CLOZEL, Martine** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/IB2006/052999) - 29-08-2006** **2. (PCT/IB2006/053857) - 19-10-2006** **3. (PCT/IB2007/053448) - 28-08-2007**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) THERAPEUTIC COMPOSITIONS COMPRISING ENDOTHELIN RECEPTOR ANTAGONIST AND A PDE5 INHIBITOR for use in the treatment of heart disease

Patent Period Started From 28/08/2007 and Will end on 27/08/2027

(57) The invention relates to a pharmaceutical composition containing as active principles an endothelin receptor antagonist which is the compound of the formula (I) OR a pharmaceutical acceptable salt of this compound, in combination with a compound having PDE5- inhibitory properties, wherin the compound having PDE5 inhibitory properties is selected from sildenafil and tadalafil as well as at least one excipient.



Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/11/2011** **1786/2013 D1** **October 2019** **09/03/2020** **29715**

(51)	**Int. Cl. [8] G03G 15/08, 15/00**	
(71)	**1. CANON KABUSHIKI KAISHA (JAPAN)** **2.** **3.**	
(72)	**1. JIMBA, Manabu** **2. OKINO, Ayatomo** **3. MURAKAMI, Katsuya**	**4. NAGASHIMA, Toshiaki** **5. TAZAWA, Fumio**
(73)	**1.** **2.**	
(30)	**1. (US) 2011-126137 – 06-06-2011** **2. (PCT/JP2012/065062) - 06-06-2011** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) DEVELOPER REPLENISHMENT CONTAINER AND DEVELOPER REPLENISHMENT SYSTEM

Patent Period Started From 06/06/2012 and Will end on 05/06/2032

(57) The purpose of the present invention is to provide a developer replenishment container which enables the simplification of a mechanism for connecting a developer receiving portion to the developer replenishment container by displacing the developer receiving portion. A developer replenishment container is attachable to and detachable from a developer receiving device and replenishes a developer through a developer receiving portion provided to be displaceable in the developer receiving device, the developer replenishment container comprising a developer housing portion which houses the developer, and engagement portions which can engage with the developer receiving portion, the engagement portions displacing the developer receiving portion toward the developer replenishment container with the mounting operation of the developer replenishment container such that the developer replenishment container is bought into the state of being connected to the developer receiving portion.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/10/2015** **1638/2015** **December 2019** **09/03/2020** **29716**

(51)	**Int. Cl. [8] B01D 53/78**	
(71)	**1. JIANGSU XINSHIJI JIANGNAN ENVIRONMENTAL PROTECTION CO,. LTD (CHINA)** **2.** **3.**	
(72)	**1. XU, Changxiang** **2. LUO, Jing** **3. FU, Guoguang**	**4. XU, Yanzhong**
(73)	**1.** **2.**	
(30)	**1. (PCT/CN2013/074657) - 24-04-2013** **2.** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) METHOD AND APPARATUS FOR TREATING ACIDIC TAIL GAS BY USING AMMONIA PROCESS FLUE GAS

Patent Period Started From 24/04/2013 and Will end on 23/04/2033

(57) A method for treating acidic tail gas by using ammonia process flue gas comprises the following steps: 1) controlling a sulfur dioxide concentration of tail gas entering an absorption tower at a level of less than or equal to 30000 mg/Nm3; 2) disposing process water in an absorption tower entrance flue or in the absorption tower or cooperating with a ammonium sulphate solution to perform spray cooling; 3) disposing an oxidation section in the absorption tower, and disposing an oxidation distributor at the oxidation section to implement oxidation of a desulfurized absorption liquid; 4) disposing an absorption section in the absorption tower, and using an absorption liquid distributor in the absorption section to implement desulfurization and spray absorption by means of an ammonia-contained absorption liquid, ammonia-contained absorption liquid being is fed through an ammonia storage groove; 5) disposing a water washing layer at an upper part of an absorption section in the absorption tower, washing, by the water washing layer, the absorption liquid in the tail gas and reducing the absorption liquid escape; and 6) setting a demister at the upper part of the water washing layer in the absorption tower to control the mist drop content in the purified tail gas. Because a desulfurization technology integrating the Claus sulfur recovery and ammonia process desulfurization is used in the coal chemical industry, the investment cost of the after-treatment can be reduced, the process is simpler, and environmental protection treatment of a factory forms an intensive advantage.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/04/2016** **0680/2016** **November 2019** **09/03/2020** **29717**

(51)	**Int. Cl. [8] H04N 19/70, 19/30**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. WANG, Ye-Kui** **2. CHEN, Yin** **3. RAMASUBRAMONIAN, Adarsh Krishna** **4. HENDRY, Fnu**
(73)	**1.** **2.**
(30)	**1. (US) 61/894,886 – 23-10- 2013** **2. (US) 14/521,099- 22-10-2014** **3. (PCT/US2014/061955) - 23-10-2014**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) MULTI-LAYER VIDEO FILE FORMAT DESIGNS

Patent Period Started From 23/10/2014 and Will end on 22/10/2034

(57) A computing device generates a file that comprises a track box that contains metadata for a track in the file. Media data for the track comprises a sequence of samples. Each of the samples is a video access unit of multi-layer video data. As part of generating the file, the computing device generates, in the file, an additional box that documents all of the samples containing at least one Intra Random Access Point (IRAP) picture.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/10/2016** **1741/2016** **November 2019** **09/03/2020** **29718**

(51)	**Int. Cl. [8] G10L 19/24**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. RAMADAS, Pravin Kumar** **2. SINDER, Daniel J** **3. VILLETTE, Stephane Pierre**	**4. RAJENDRAN, Vivek**
(73)	**1.** **2.**	
(30)	**1. (US) 14/265,693- 30-04-2014** **2. (PCT/US2015/023483) - 31-03-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) HIGH BAND EXCITATION SIGNAL GENERATION

Patent Period Started From 31/03/2015 and Will end on 30/03/2035

(57) A particular method includes determining, at a device, a voicing classification of an input signal. The input signal corresponds to an audio signal. The method also includes controlling an amount of an envelope of a representation of the input signal based on the voicing classification. The method further includes modulating a white noise signal based on the controlled amount of the envelope. The method also includes generating a high band excitation signal based on the modulated white noise signal.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/11/2016** **1386/2016** **November 2019** **10/03/2020** **29719**

(51)	**Int. Cl. [8] C01G 3/05 & A23L 1/304 & A23K 1/175**
(71)	**1. Micronutrients USA LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. LEISURE, Nicholas, J** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 14/279,731 - 16-05-2014** **2. (PCT/US2015/030758) - 14-05-2015** **3.**
(74)	**BUREAU Youssef, pioneer IP**
(12)	**Patent**

(54) MICRONUTRIENT SUPPLEMENT MADE FROM COPPER METAL

Patent Period Started From 14/05/2015 and Will end on 13/05/2035

(57) Micronutrient supplement which is made by reacting together copper metal and either hydrochloric acid and/or cupric chloride under oxidizing conditions.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/05/2015** **0732/2015** **November 2019** **10/03/2020** **29720**

(51)	**Int. Cl. [8] A44C 27/00 & C30B 29/34, 29/20 & C03C 10/12 & B82Y 40/00**
(71)	**1. DYMSHITS, Olga Sergeevna (RUSSIAN FEDERATION)** **2. ZHILIN, Alexander Alexandrovich (RUSSIAN FEDERATION)** **3. AVAKYAN, Karen Khorenovich (RUSSIAN FEDERATION)**
(72)	**1. DYMSHITS, Olga Sergeevna** **2. ZHILIN, Alexander Alexandrovich** **3.**
(73)	**1.** **2.**
(30)	**1. (RU) 2013122741 - 13-05-2013** **2. (PCT/RU2013/000538) - 25-06-2013** **3.**
(74)	**Nahid Wadi Rizk Tarazi**
(12)	**Patent**

(54)	**HEAT-RESISTANT SYNTHETIC JEWELLERY MATERIAL**
	Patent Period Started From 25/06/2013 and Will end on 24/06/2033

(57) The invention can be used in the chemical industry. The heat-resistant synthetic jewellery material comprises a transparent, semitransparent or nontransparent composite nanocrystalline material on the basis of nanosized oxide and silicate crystalline phases. The material comprises at least one of the following crystalline phases: spinel, quartz-like phases, sapphirine, enstatite, petalite-like phase, cordierite, willemite, zirconium, rutile, zirconium titanate, zirconium dioxide with a content of ions of transition elements, rare-earth elements and precious metals of from 0.001 to 4 mol%. One of the crystalline phases is additionally quartz-like solid solutions of lithium magnesium zinc aluminosilicates with a virgilite or keatite structure. The composition is selected from the following components, in mol%: SiO2 - 45-72; Al2O3 - 15-30; MgO - 0.1-23.9; ZnO - 0.1-29; Li2O - 1-18; PbO - 0.1-7.0; ZrO2 - 0.1-10; TiO2 - 0.1-15; NiO - 0.001-4.0; CoO - 0.001-3.0; CuO - 0.001-4.0; Cr2O3 - 0.001-1.0; Bi2O3 - 0.001-3.0; Fe2O3 - 0.001-3.0; MnO2 - 0.001-3.0; CeO2 - 0.001-3.0; Nd2O3 - 0.001-3.0; Er2O3 - 0.001-3.0; Pr2O3 - 0.001-3.0; Au - 0.001-1.0. The invention makes it possible to produce a jewellery material with a low coefficient of thermal expansion and a high degree of heat resistance.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/01/2015** **0129/2015** **September 2019** **11/03/2020** **29721**

(51)	**Int. Cl. [8] C10L 1/02, 1/12, 1/30, 3/00, 10/02 & F02B 7/00 & F02C 1/00 & F23D 17/00**
(71)	**1. Efficient Fuel Solutions, LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. Parsons, Bruce Briant** **2. MAY, Walter R** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 741,686/61 - 26-07-2012** **2. (US) 850,897/61 - 26-02-2013** **3. (PCT/JP2013/065898) – 31-05-2013**
(74)	**KHALED ALI EL SHALAKANY**
(12)	**Patent**

(54)	**BODY OF MOLECULAR SIZED FUEL ADDITIVE**
	Patent Period Started From 31/05/2013 and Will end on 30/05/2033

(57) This invention generally refers to a new generation of fuel additives which can provide catalytic action to improve the combustion process of fossil fuels and to a catalyst among others containing an iron compound combined with an over-based magnesium compound with molecular size particles inside the combustion chamber. Such fuel additive catalysts are particularly useful for fuel oil combustion, natural gas combustion, stationary gas turbines, natural gas-fired reciprocating engines, diesel engines, gasoline engines and all stationary dual-fuel engines.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/09/2012** **1672/2012** **November 2019** **18/03/2020** **29722**

(51)	**Int. Cl. [8] A61F 13/15&13/49&13/532&13/539**
(71)	**1. ELASTEC SUISSE AG (SWITZERLAND)** **2.** **3.**
(72)	**1. FENSKE, Wilfried** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2010 013 288.8 - 28-03-2010** **2.** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) METHOD FOR PRODUCING HIGHLY FLEXIBLE ABSORBENT LAMINATE

Patent Period Started From 28/03/2011 and Will end on 27/03/2031

(57) The invention relates to a method for continuously producing a flexible, liquid –absorbent laminate having two outer material webs, of which at least one is formed from a textile material, between which are inserted at least two stretchable –elastic intermediate layers that are pre-stressed with respect to said layers and comprise threads or brands running in opposite directions to each other and at an angle to the production direction. The intermediate layers shorten and gather the web material substantially transversely to the production direction thereof when the intermediate layers are relived of stress. Powdery or fiber – shaped inclusions , which have absorbent properties for the liquids , such as urine , blood , water , or sweat , or resorbing properties , such as the release of medical substances ,cosmetic ingredients , or the generation of heat /cold ,are introduced into the free spaces of the elastic intermediate layers.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/02/2018** **0215/2018** **December 2019** **24/03/2020** **29723**

(51)	**Int. Cl. [8] A61M 5/00, 5/315, 5/32, 5/20, 5/28**	
(71)	**1. Novo Nordisk A/S (DENMARK)** **2.** **3.**	
(72)	**1. HARALDSTED, Mie** **2. FREDERIKSEN, Morten Revsgaard** **3. MELANDER, Matias** **4. NIELSEN, Christian Hojris**	**5. HINDE, Graham** **6. KAMP, Bas** **7. HAKKIM, Roshan**
(73)	**1.** **2.**	
(30)	**1. (EP) 15182290.5 - 25-08-2015** **2. (PCT/EP2016/069004) - 10-08-2016** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) A MEDICAL INJECTION DEVICE WITH A CLEANING CHAMBER

Patent Period Started From 10/08/2016 and Will end on 09/08/2036

(57) The invention relates to an injection device for injecting a liquid drug. The injection device comprises a housing assembly supporting a non-removable cartridge having an interior chamber containing the liquid drug to be injected and a reusable needle cannula connected to the cartridge. A needle shield assembly provided with a cleaning chamber containing a volume of a cleaning agent for cleaning at least the distal tip of the needle cannula between subsequent injections is further provided. The needle shield assembly is axially movable in a proximal direction in relation to the housing assembly from a first position to a second position upon rotation of at least a part of the needle shield assembly, wherein the first position is a position in which the distal tip of the needle cannula is located inside the cleaning chamber thereby cleansing the distal tip of the needle cannula, and the second position is a position in which the distal tip of the needle cannula is located outside and distal to the cleaning chamber for equalizing the pressure in the cartridge.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/08/2016** **1387/2016** **November 2019** **24/03/2015** **29724**

(51)	**Int. Cl. [8] B 01J 20/12, B 01J 20/22, B 01J 20/30, C 11B 3/10**	
(71)	**1. Clariant International Ltd. (SWITZERLAND)** **2.** **3.**	
(72)	**1. GEISSLER, Beate** **2. RUF, Friedrich** **3. CEBI, Hasan**	**4. BESTING, Hubertus**
(73)	**1.** **2.**	
(30)	**1. (EP) 14000725.3 - 28-02-2014** **2. (PCT/EP2015/053683) - 23-02-2015** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) DRY-MODIFIED ACID-ACTIVATED BLEACHING EARTH, PROCESS FOR PRODUCTION THEREOF AND USE THEREOF

Patent Period Started From 23/02/2015 and Will end on 22/02/2035

(57) The invention relates to a process for producing a bleaching earth, comprising the steps of drying a water-rich raw clay to a reduced water content, mixing the raw clay having a reduced water content with a solid organic and/or concentrated inorganic acid, and grinding the mixture of raw clay having a reduced water content and solid organic and/or concentrated inorganic acid, in which case the bleaching earth then has a water content of 20% to 40% by weight. The invention further encompasses a bleaching earth obtainable by this process and to the use thereof for bleaching of raw animal or vegetable oil.

Arab Republic of Egypt
Ministry of State for Scientific Research
Academy of Scientific Research & Technology

GRANTED PATENTS' ABSTRACTS GAZETTE

" PATENTS ISSUED IN APRIL 2020 "

Egyptian Patent Office

Issue No 287 **MAY 2020**

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

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VC	Saint Vincent and the Grenadines

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ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
APRIL (2020)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/02/2017** **0229/2017** **December 2019** **14/04/2020** **29725**

(51)	**Int. Cl. [8] D06F 37/24, 37/20**
(71)	**1. LG Electronics INC (KOREA)** **2.** **3.**
(72)	**1. LEE, Sangyong** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (KR)10-2015-0092783 - 30-06-2015** **2. (PCT/KR 2016/006929) – 2016-06-29** **3.**
(74)	**MOHAMED MOHAMED BAKEER**
(12)	**Patent**

(54)	**LAUNDRY TREATMENT APPARATUS**
	Patent Period Started from 29/06/2016 and will end on 28/06/2036

(57) Disclosed is a laundry treatment apparatus including a drawer a cabinet that is configured to receive the drawer, a tub that is located in the drawer and that defines a space that is configured to receive water, a drum that is located in the tub, that is configured to rotate ,and that defines a space configured to receive laundry , and a spacer that is configured to maintain separation between the drawer and the cabinet ,that is configured to prevent the drawer from discharging from the cabinet, and that is removable by a user from outside the cabinet while the drawer is in the cabinet.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/02/2017** **0263/2017** **December 2019** **14/04/2020** **29726**

(51)	**Int. Cl. [8] D06F 37/24, 37/20**
(71)	**1. LG Electronics INC (KOREA)** **2.** **3.**
(72)	**1. LEE, Jihong** **2. KIM , SANGJIN** **3. SEO , JINWOO**
(73)	**1.** **2.**
(30)	**1. (KR) 10-2015-0092777 -** **2. (PCT/KR2016/00728) - 30-06-2016** **3.**
(74)	**MOHAMED MOHAMED BAKEER**
(12)	**Patent**

(54) LAUNDRY TREATMENT APPARATUS

Patent Period Started From 30/06/2016 and Will end on 29/06/2036

(57) Disclosed is a laundry treatment apparatus including a housing, a tub provided inside the housing for providing a space for storage of water, a drum rotatably provided inside the tub for receiving laundry therein, a heater for heating the water stored in the tub, a tub through-portion formed in the tub so that the heater is inserted into a space located between a bottom surface of the drum and a bottom surface of the tub, three or more first support members provided at the housing, second support members protruding from a circumferential surface of the tub, the second support members being provided in the same number as the first support members, and a plurality of connectors for connecting the first support members and the second support members to each other, and at least one of the second support members protrudes from the circumferential surface of the tub in a direction parallel to a direction in which the heater is inserted into the tub through-portion.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/05/2015** **0796/2015** **November 2019** **10/04/2020** **29727**

(51)	**Int. Cl. [8] C08F 4/654, 10/00**
(71)	**1. LUMMUS NOVOLEN TECHNOLOGY GMBH (GERMANY)** **2.** **3.**
(72)	**1. DENKWITZ, Yvonne** **2. SCHUSTER, Oliver** **3. WINTER, Andreas**
(73)	**1.** **2.**
(30)	**1. (US) 61/729,895 - 26-11-2012** **2. (PCT/EP2013/074465) - 22-11-2013** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**HIGH PERFORMANCE ZIEGLER-NATTA CATALYST SYSTEMS, PROCESS FOR PRODUCING SUCH MgCl<sb>2</sb> BASED CATALYSTS**
	Patent Period Started From 22/11/2013 and Will end on 21/11/2033

(57) Improved Ziegler-Natta catalysts and methods of making the improved catalyst are described. The Ziegler-Natta catalyst is formed using a spherical MgCI2-xROH support, where R is a linear, cyclic or branched hydrocarbon unit with 1-10 carbon atoms and where ROH is an alcohol or a mixture of at least two different alcohols and where x has a range of about 1.5 to 6.0, preferably about 2.5 to 4, more preferably about 2.9 to 3.4, and even more preferably 2.95 to 3.35. The Ziegler-Natta catalyst includes a Group 4-8 transition metal and an internal donor comprising a diether compound. The catalyst has improved activity in olefin polymerization reactions as well as good stereoregularity and hydrogen sensitivity, and may be useful in the production of phthalate-free propylene polymers having a molecular weight distribution (PI(GPC)) in the range from about 5.75 to about 9.

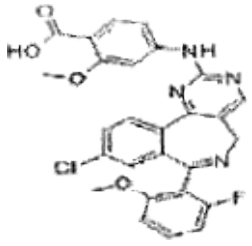
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/11/2011** **1949/2011** **November 2019** **13/04/2020** **29728**

(51)	**Int. Cl. [8] A61K 31/55 & A61K 9/16, 9/20**
(71)	**1. MILLENNIUM PHARMACEUTICALS, INC. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. MITTAL, Bhavishya** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/216,493 - 18-05-2009** **2. (US) 61/268,438 - 12-06-2009** **3. (PCT/US2010/001434) - 14-05-2010**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) SOLID PHARMACEUTICAL COMPOSITIONS comprising the compound 4-{[9-chloro-7-(2-fluoro -6-methoxyphenyl)-5H-pyrimido[5,4-d][2]benzazepin -2-yl]amino} -2- methoxybenzoic acid and an extragranular buffer and processes for their production.

Patent Period Started From 14/05/2010 and Will end on 13/05/2030

(57) This invention provides novel solid pharmaceutical compositions comprising the compound 4-{[9-chloro-7-(2-fluoro-6-methoxyphenyl)-5H-pyrimido[5,4-d]2]benzazepin-2-yl]amino]-2-methoxybenzoic acid & an extragranular buffer and processes for the bulk production of said compositions.This invention also provides methods of using the pharmaceutical compositions in the treatment of cancer.



Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/12/2015** **1904/2015** **August 2019** **13/04/2020** **29729**

(51)	**Int. Cl. [8] H04N 21/4728, 21/214, 21/2187**
(71)	**1. DAP REALIZE INC (JAPAN)** **2.** **3.**
(72)	**1. IZUTSU Masahiro** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2013-120449 – 07-06-2013** **2. (PCT/JP2014/064549) - 31-05-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**LIVE VIDEO DISTRIBUTION SYSTEM**
	Patent Period Started From 31/05/2014 and Will end on 30/05/2034

(57) Problem] The purpose of the present invention is to provide a live video distribution system that enables a plurality of users in a remote location to simultaneously watch in real-time discrete objects on-site. [Solution] A live video distribution system comprises the following: an on-site system having a communication means and a video signal generation means for generating video signals for a plurality of systems the display ranges of which differ; and a plurality of terminal devices each provided with a video display means, a display range setting signal generation means, and a communication means. The video-signal systems and the terminal devices are associated with each other. The on-site system has a function for determining the display range of the video signal of each system on the basis of display range setting signal information generated by the terminal devices which are associated with each system, and a function for transmitting video signals. The terminal devices have a function for transmitting display range setting signals, a function for receiving the video signals of a system which is associated with itself, and a function for displaying video on the basis of the video signals.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/10/2016** **1687/2016** **January 2019** **14/04/2020** **29730**

(51)	**Int. Cl. [8] G21C 19/00**
(71)	**1. JOINT STOCK COMPANY " AKME ENGINEERING" (RUSSIAN FEDERATION)** **2.** **3.**
(72)	**1. VASIL'YEV, Nikolay Dmitrievich** **2. OGURTSOV, Vladimir Evgen'yevich** **3. KUZNETSOV, Alexandr Ivanovich**
(73)	**1.** **2.**
(30)	**1. (RU) 2014115600 - 18-04-2014** **2. (PCT/RU2015/000250) - 17-04-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) METHOD OF EXTRACTING PLUG AND REMOVABLE UNIT WHEN REFUELING NUCLEAR REACTOR

Patent Period Started From 17/04/2015 and Will end on 16/04/2035

(57) The invention relates to atomic technology, and specifically to a method for extracting a plug and a removable unit of a fast neutron reactor having a heavy liquid-metal coolant. The technical result consists in extracting, from a nuclear reactor, a plug and a removable unit, without fuel assemblies, with the help of a set of refueling instruments in radiationally-safe conditions. The method for extracting a plug and a removable unit when refueling a nuclear reactor consists in first installing the refueling instruments, then removing the plug from a reactor monoblock, transporting and positioning the plug in a shaft for the plug, removing the removable unit, and transporting and positioning same in a shaft for disassembling the removable unit.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/09/2016** **1525/2016** **January 2020** **14/04/2020** **29731**

(51)	**Int. Cl. [8] F25J 1/00, 3/00**
(71)	**1. BLACK & VEATCH CORPORATION (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. HABERBERGER, Kyle M** **2. MANNING, Jason M** **3. HOFFART, Shawn D**
(73)	**1.** **2.**
(30)	**1. (US) 14/215,114 - 17-03-2014** **2. (PCT/US2015/016551) - 19-02-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) LIQUEFIED NATURAL GAS FACILITY EMPLOYING AN OPTIMIZED MIXED REFRIGERANT SYSTEM

Patent Period Started From 19/02/2015 and Will end on 18/02/2035

(57) Processes and systems for producing liquefied natural gas (LNG) with a single mixed refrigerant, closed]loop refrigeration cycle are provided. Liquefied natural gas facilities configured according to embodiments of the present invention include refrigeration cycles optimized to provide increased efficiency and enhanced operability, with minimal additional equipment or expense.

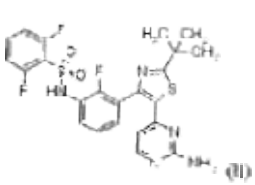
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/04/2012** **0677/2012** **November 2019** **14/04/2020** **29732**

(51)	**Int. Cl. [8] A61K 31/426, 31/506, 31/519, 45/06 & A61P 35/00**	
(71)	**1. Novartis AG (Switzeland)** **2.** **3.**	
(72)	**1. LEBOWITZ, Peter** **2. LAQUERRE, Sylvie** **3. DUMBLE, Melissa**	**4. KUMAR, Rakesh**
(73)	**1.** **2.**	
(30)	**1. (US) 61/252,213 - 16-10-2009** **2. (PCT/US2010/052808) - 15-10-2010** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

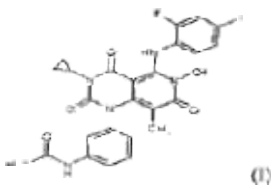
(54) COMBINATION COMPRISING MEK INHIBITOR WITH A B-RAF INHIBITOR IN THE TREATMENT OF CONDITION IN WHICH THE INHIBITION OF MEK AND/OR B-RAF IS BENEFICIAL, EG. CANCER"

Patent Period Started From 15/10/2010 and Will end on 14/10/2030

(57) A novel combination comprising the MEK inhibitor N-{3-[3-cyclopropyl-5-(2-fluoro-4-iodo-phenylamino)6,8-dimethyl;-2,4,7-trioxo-3,4,6,7-tetrahydro-2H-pyrido[4,3-d]pyrimidin-1-yl]phenyl}acetamide, or a pharmaceutically acceptable salt or solvate thereof, with a B-Raf inhibitor, particularly N-{3-[5-(2-Amino-4-pyrimidinyl)-2-(1,1-dimethylethyl)-1,3-thiazol-4-yl]-2-fluorophenyl}-2,6-difluorobenzenesulfonamide or a pharmaceutically acceptable salt thereof, pharmaceutical compositions comprising the same and methods of using such combinations and compositions in the treatment of conditions in which the inhibition of MEK and/or B-Raf is beneficial, eg. Cancer.



(II)



(I)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/10/2016** **2016/1650** **August 2019** **14/04/2020** **29733**

(51)	**Int. Cl. [8] B01D 21/02, 21/24, 45/02**
(71)	**1. SPECIALIZED DESANDERS INC (Canda)** **2.** **3.**
(72)	**1. HEMSTOCK, Christopher** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. () 2,848,738 - 11-04-2014** **2. (PCT/CA2014/050712) - 29-07-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) A DESANDING APPARATUS AND A METHOD OF USING SAME

Patent Period Started From 29/07/2014 and Will end on 28/07/2034

(57) A desanding system has an elongated vessel that is tilted at a non-zero inclination angle. The vessel has an upper end that tilts downwardly towards a distal end and has a diverging bounding wall so as to define a top wall having a first inclination angle and a bottom wall having a second inclination angle greater than the first inclination angle. A fluid inlet interface at the vessel's upper end discharges a gas stream, having entrained liquids and particulates, into a freeboard portion formed adjacent the top wall above a gas/liquid interface formed below the fluid outlet. A cross-sectional area of the freeboard portion causes precipitation of the entrained liquids and particulates therefrom for collection in a belly storage portion formed below the interface. A desanded gas stream, being free of a substantial portion of the particulates is removed from the vessel through a fluid outlet adjacent the distal base.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/03/2016** **0335/2016** **December 2019** **14/04/2020** **29734**

(51)	**Int. Cl. [8] F22B 1/00, 21/02, 37/26**
(71)	**1. COCKERILL MAINTENANCE & INGENIERIE S.A. (BELGIUM)** **2.** **3.**
(72)	**1. DETHIER, Alfred** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/873,075 - 03-09-2013** **2. (EP) 13192630.5- 13-11-2013** **3. (PCT/EP2014/067594) - 18-08-2014**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) METHOD AND DEVICE FOR PREVENTING DRY-OUT IN A BOILER OF A TOWER CONCENTRATION SOLAR POWER PLANT

Patent Period Started From 18/8/2014 and Will end on 17/8/2034

(57) The invention relates to a method for generating a steam cycle with a pressure of about 200 bar and a temperature of about 600°C, using an industrial steam generator, with a solar receptor allowing an incident solar flux of the order of 600 kW/m², comprising at least the following successive steps: - a water-steam mixture is generated in the evaporator by transferring heat from the incident solar flux to the evaporator; - the water-steam mixture is separated into saturated water and saturated steam in the separating balloon, the saturated steam having a pressure comprised between 160 and 200 bar and a temperature comprised between 347 and 366°C; - the feed water is injected into the mixing balloon, where it is mixed with the saturated water from the separating balloon, the mixed water then returning to the evaporator via the return pipe provided with the circulation pump, such that the temperature of the mixed water entering the evaporator is lower than the saturated steam temperature, by a value comprised between 5 and 15°C.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/01/2017** **0035/2017** **January 2020** **16/04/2020** **29735**

(51)	**Int. Cl. [8] E02F9/28, 3/92**	
(71)	**1. METALOGENIA RESEARCH & TECHNOLOGIES S.L (SPAIN)** **2.** **3.**	
(72)	**1. TRIGINER BOIXEDA, Jorge** **2. TUTO, Joan** **3. ALVAREZ PORTELLA, Eduard**	**4. BRUFAU GUINOVART, Jordi**
(73)	**1.** **2.**	
(30)	**1. (EP) 14382271.6 - 11-07-2014** **2. (PCT/EP2015/065875) - 10-07-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) TOOTH AND ADAPTOR FOR DREDGING MACHINE

Patent Period Started From 10/07/2015 and Will end on 09/07/2035

(57) The tooth and adaptor for dredging machines object of the present invention relates to a tooth which, attached to an adaptor, creates an assembly the purpose of which is to deepen and clean the beds of ports, rivers, channels, etc., removing therefrom sludge, stones, sand, etc., the adaptors being attached to the blades thus forming the cutter head of the dredging machine. The constructive features of the coupling between the tooth and the adaptor allow a great stability between both elements, among other advantages.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/05/2014** **0831/2014** **January 2020** **16/04/2020** **29736**

(51)	**Int. Cl. [8] C02F, 1/52, 9/00, 1/24, 7/00 & E02B 3/02**
(71)	**1. GOMES DE OLIVEIRA, João Carlos (BRAZIL)** **2. GOMES DE OLIVEIRA NETTO, Procópio (BRAZIL)** **3. GOMES DE OLIVEIRA, Felipe (BRAZIL)**
(72)	**1. GOMES DE OLIVEIRA, João Carlos** **2. GOMES DE OLIVEIRA NETTO, Procópio** **3. GOMES DE OLIVEIRA, Felipe**
(73)	**1.** **2.**
(30)	**1. (BR) PI1105005-5 - 23-11-2011** **2. (PCT/BR2012/000464) - 21-11-2012** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**APPURATUS FOR REMOVING POLLUTANT MATERIALS AND/OR SUBSTANCES FROM WATERCOURSES**
	Patent Period Started From 21/11/2012 and Will end on 20/11/2032

(57) The present applecation relates to appuratus for removing pollutant materials and/or substances from watercourses is applied to an installation of the type comprising: the implantation of a sandbox at the bottom of a section of a watercourse, followed by a floating garbage enclosure arranged substantially across the water course. A certain distance downstream of the garbage enclosure, a metallic structure is suspended across the watercourse, on which automatically actuatable selective injection curtains are mounted at a certain distance from each other, with intercalated homogenising diffusers. These curtains inject coagulants and polymers into the watercourse to be treated. In front of these curtains, a micro air bubble releasing step causes the aggregated particles to float, creating a surface agglomeration of floated material on the watercourse, starting from this flotation section, and the floated material is guided by flexible longitudinal barriers formed by synthetic membranes to a transverse array of dredging modules that extends across the watercourse, facilitating the concentration of the floated material and the removal thereof. This improvement consists in that all the equipment (3, 4, 7) originally mounted across the watercourse can be partially or totally removed from across the watercourse, allowing the watercourse bed to be entirely and/or partially deobstructed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/08/2014** **1281/2014 D1** **January 2020** **16/04/2020** **29737**

(51)	**Int. Cl. [8] G06Q 20/28, 20/36**
(71)	**1. THALES (FRANCE)** **2.** **3.**
(72)	**1. D'ATHIS, Thierry** **2. LEONETTI, Jean** **3. RATIER, Denis**
(73)	**1.** **2.**
(30)	**1. (EP) 12/00388 - 09-02-2012** **2. (PCT/EP2013/052594) - 08-02-2013** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) PAYMENT SYSTEM, PAYMENT TERMINAL FOR THIS SYSTEM, AND ASSOCIATED METHOD OF PAYMENT

Patent Period Started From 08/02/2013 and Will end on 07/02/2033

(57) This payment system includes a payment terminal and an electronic payment medium capable of communicating with the payment terminal, the payment medium bearing an amount that carries a value before payment, said value before payment being divided into a main value before payment and a secondary value before payment, and comprises: o a first rewritable memory, an image of the secondary value before payment being stored in said first memory, and o a second fuse memory, comprising a plurality of bits each adapted to be able to change its state one single time, the main value before payment being equal to the number of bits that are in a first state. The payment terminal is programmed so as to derive the value before payment from the joint reading of the first and second memories.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/08/2017** **1303/2017** **January 2020** **16/04/2020** **29738**

(51)	**Int. Cl. [8] A01G 31/02**
(71)	**1. NEW GROWING SYSTEMS, S.L. (SPAIN)** **2.** **3.**
(72)	**1. BELMONTE MULA, Manuela** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (SP) P201500105- 10-02-2015** **2. (PCT/ES2016/000019) - 10-02-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**HYDROPONIC CULTURE METHOD**
	Patent Period Started From 10/02/2016 and Will end on 09/02/2036

(57) The facility is of the type that has a pair of side bars acting as inclined supports for an upper sheet with openings for inserting the plants, a closed lower sheet acting as a collector, and at least one intermediate sheet with openings determining a cascade trajectory for the water with the nutrients. The invention consists in providing a multi-layer upper sheet comprising preferably four layers, which together define narrow channels for selective use, such that at the time of insertion, the root of each plant is placed in a channel different from that used by the adjacent plants. Furthermore, according to the invention, the openings for the insertion of the plants form two marginal and longitudinal lines. In this way, the roots of the adjacent plants can be completely isolated during the first growth phase thereof, preventing interference therebetween and allowing plants with different growth rates and even different types of plants to be arranged on the facility, generating, in turn, continuous production and an improved yield from the facility.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/08/2013** **1305/2013** **January 2020** **16/04/2020** **29739**

(51)	**Int. Cl. [8] F24J 2/10, G02 B7/183, G02 B27/62**
(71)	**1. COMMISSARIAT a L eNERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES** **2. (France)** **3.**
(72)	**1. VIDAL, Fredcric** **2. COUTURIER, Raphael** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 1151178 - 14-02-2011** **2. (PCT/EP2012/052371) - 13-02-2012** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) IMPROVED METHOD FOR MANUFACTURING A REFLECTOR, PREFERABLY FOR THE SOLAR ENERGY FIELD

Patent Period Started From 13/02/2012 and Will end on 12/02/2032

(57) The invention relates to a method for manufacturing a reflector including a mirror supported by a support structure, said method including a step of positioning the mirror relative to the structure by means of the relative movement of a mold supporting the mirror in relation to said structure. According to the invention, the method also includes a step of adjusting a plurality of elements for linking the mirror and the structure together, said step being carried out during the mirror-positioning step and/or thereafter, and causing the movement of at least some of the linking elements relative to the structure.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/12/2016** **2037/2016** **January 2020** **23/04/2020** **29740**

(51)	**Int. Cl. [8] H03F 1/32**
(71)	**1. THALES (France)** **2.** **3.**
(72)	**1. DEMENITROUX Wilfried** **2. AUGEREAU Hughes** **3. SABOUREAU Cedrick**
(73)	**1.** **2.**
(30)	**1. (FR) 15 02638 - 18-12-2015** **2.** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) **RF POWER AMPLIFIER COMPRISING TWO TRANSISTORS AND PIECE OF RF EQUIPMENT USING SUCH AN AMPLIFIER**

Patent Period Started From 15/12/2016 and Will end on 14/12/2036

(57) The transistors (Q1, Q2) being field-effect transistors controlled in a push-pull mode, during the operation of said amplifier, the transistors operate asymmetrically, the drain-source currents of the transistors in the on state being different. The currents being controlled by the gate voltages of the transistors (Q1, Q2), the values of said voltages are functions of operating parameters, pairs of said values functions of said parameters being stored in a memory (21) accessible to said amplifier.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/10/2016** **1617/2016** **December 2019** **23/04/2020** **29741**

(51)	**Int. Cl. [8] A23K 1/00, 1/16**
(71)	**1. SEVECOM S.P.A (ITALY)** **2.** **3.**
(72)	**1. SERINO, Nazzaro** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) MI2014A000646 - 08-04-2014** **2. (PCT/IB2015/000452) - 08-04-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) METHOD FOR PRODUCING AN ANIMAL FEED AND ANIMAL NUTRATION PRODUCT

Patent Period Started From 08/04/2015 and Will end on 07/04/2035

(57) The present invention relates to a process for producing an animal feed which comprises of emulsifiers in association or in admixture with vegetable oleins and glycols. Furthermore, the present invention relates to a feed obtained with said process having improved physical properties and technical production characteristics. The present invention further relates to the use of said feed in animal nutrition. Finally, the present invention relates to emulsifier E484 and/or E487 in association or in admixture with vegetable oleins and glycols, as a technological additive for increasing the hourly output (tons/hour) in a plant for preparing an animal feed and/or to improve the characteristics of an animal feed, preferably in the form of pellets, in terms of thermal stability and/or stability against microbial growth following long-term storage and/or to reduce the dustiness thereof.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/08/2009** **1233/2009** **February 2020** **29/04/2020** **29742**

(51)	**Int. Cl. [8] A61K 47/18, A23C 9/123**	
(71)	**1. AMIRA MOHAMED GALAL MAHMOUD DARWISH (EGYPT)** **2. Alexandria University, Faculty of Agriculture, Egypt** **3.**	
(72)	**1. AMIRA MOHAMED GALAL MAHMOU DARWISH** **2. EMAN HUSSIN ELSAYD AYAD** **3. D. MORSI ABOU ELSEOD ELSOUDA**	**4. D. SAIED MOHSEN DARWISH**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	Amira Mohamed Galal Mahmoud Darwish	
(12)	**Patent**	

(54)	**SYMBIOTIC DAIRY PRODUCTS CONTAIN TALBINA AND METHODS OF MANUFACTURING**
	Patent Period Started From 13/08/2009 and Will end on 12/08/2029

(57) The invention provides symbiotic dairy products represented in yoghurt-like, bifidus yoghurt, frozen bifidus yoghurt and methods of manufacturing. These products contain both; probiotics (live microbial cultures) either represented in common yoghurt starter culture (streptococcus thermophilus and lactobacillus delbrueckii subsp. Bulgaricus) single or mixed with bifidobacterium bifidum bb12, and prebiotics (non-digestible carbohydrate) either represented in talbina (single or mixed with bee-honey, molasses), gelatin, sucrose vanilla / or cocoa in bifidus frozen yoghurt product. Based on obtained results of, chemical composition, physiological, rheological properties, sensory evaluation, viability of probiotic strains, nutritional value (calculated according to the international food tables fda) and the most important consumer acceptance of the final products; these safe, high nutritional innovative symbiotic dairy products can be recommended for all age groups and special cases for significant health benefits.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/04/2015** **0588/2015** **February 2020** **29/04/2020** **29743**

(51)	**Int. Cl. [8]**
(71)	**1. MOHAMED ABD ALROUF ABD ALAZIZ OWN (EGYPT)** **2.** **3.**
(72)	**1. MOHAMED ABD ALROUF ABD ALAZIZ OWN** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**Contact point of Tanta Patent Office**
(12)	**Patent**

(54)	**WHEELCHAIR WITH MOVING HEAD**
	Patent Period Started From 16/4/2015 and Will end on 15/4/2035

(57) There are a lot of the problems people face in their daily lives. It is good that others can solve one of there problems. People with special needs, especially owners of quadriplegia are suffering because wheelchair does not help them in there life. We tried to develop the wheelchair to make it move with head . The chair move to the right if the head moves to the right and vice versa. We hope that those people live their life easier.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/05/2015** **0750/2015** **February 2020** **29/04/2020** **29744**

(51)	**Int. Cl. [8] A61H 33/06**
(71)	**1. RATEB RASHAD ELSAYED GABALLA (EGYPT)** **2.** **3.**
(72)	**1. RATEB RASHAD ELSAYED GABALLA** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**SAUNA A ROLL**
	Patent Period Started From 14/05/2015 and Will end on 13/05/2035

(57) Structure or tent Steam sauna device is one piece of insulating cloth,easy and quick to use and light and occupies a little space when stored where the roll, There is a top part and a prominent lower part up and down the basic insulated cloth, It is possible that The two prominent pieces of the basic insulated cloth can be top and bottom of the device on one end of the device or both on the tip, The lower part is the bottom of the device, and the top part of the device represents the roof of the device. There are also two horizontal pillars on the edge of the main fabric insulated upper and lower heat and is done in four ways, Of which type in the desire to take the device circular shape, which if the winding of this pillar and let it bounce alone, where there is a spring zipper in the cavity of the pillar of the material of the bike wheel or the gas hose of the potaz, As well as with a chip or steel wire or a flexible sheet to bounce if rolled, And the other types of pillars are done if we want to take the device square shape without leaving the idea or subject. And there is zooming on the side of the horizontal pillars And on the edge of all the cloth If the zippers are tightened and closed, the cloth takes the form of the device through its vertical and horizontal pillars and The zippers become inside the roof and inside the bottom of the device when the device is used.As there are 4 simple vertical pillars in the opening of the entry of the device in the middle of the front side is the best because the entry slot is in the form of a door does the zipper path and the pillars anchored strips give the strength of the device, And possible not be slices, but a circular and interconnected to be a device to wrap a length of about half a meter when storage and transport, In all types of stents, The two horizontal pillars connect the anchored pillars with some, There is also with the device when using a chair that is a roll at the storage and length and shorten according to the length of the user of the hardware do not get out of the idea or subject. The method of using and storing the device is the easiest and fastest way to use, store and transfer to a sauna. Where the use of just tightening the zippers and close it takes the device shape and It stores and transmits a roll. This is the idea.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/08/2015** **1323/2015** **February 2020** **29/04/2020** **29745**

(51)	**Int. Cl. [8] B65D 25/38, 25/18**
(71)	**1. THE PRESENT INVENTION RELATES TO AN ECO (EGYPT)** **2.** **3.**
(72)	**1. THE PRESENT INVENTION RELATES TO AN ECO** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**AN-ECO-FRIENDLY TRASH BIN**
	Patent Period Started From 24/08/2015 and Will end on 23/08/2035

(57) The present invention relates to an eco-friendly trash bin. The inventive bin has suitable dimensions. Part of the trash is introduced in a suitable underground housing so as to be pulled out and reintroduced easily. The upper part of the bin extends to a suitable height above earth surface. The upper door of the bin is opened downwardly due to the waste weight; it is then automatically rebounds and closed through hinges. The bin is discharged by being pulled out and lifted on the trash bin truck; its lower door should be manually opened downwardly then closed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/01/2017** **0061/2017** **February 2020** **29/04/2020** **29746**

(51)	**Int. Cl. [8] A01N 35/02 & C04B 103/67, 103/61**	
(71)	**1. EGYPTIAN PETROLEUM RESEARCH INSTITUTE (EPRI) (EGYPT)** **2.** **3.**	
(72)	**1. ISMAIL ABD EL-RHMAN ABD EL RAHIM AIAD** **2. AHMED MOHAMED AL-SABAGH** **3. SAMY MOHAMED AHMED SHABAN**	**4. SALAH MAHMOUD TOWFIK**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**KHALID ALI ABDEL-ZAHER**	
(12)	**Patent**	

(54) MULTIFUNCTIONAL CHEMICAL FORMULA FOR WATER OF FIREFIGHTING SYSTEM IN PETROLEUM COMPANIES

Patent Period Started From 11/01/2017 and Will end on 10/01/2037

(57) The present invention relates to an anti-corrosive and biocide formulation of aerobic and anaerobic bacteria in water tanks whish used for extinguishing the fires and for the hydrostatic test and a method for their preparation. The composition consists of 30 - 60% water, 5-20% alcohol, 10 -25% fatty alkyl tertiary amine, 20 -40% ammonium and sodium bisulfite, 2.5 - 10% thiourea, and 5-20% biocide.

The prepared formulation has the ability to kill the sulfate reducing bacteria in the water tanks and prevents the rust inside the reservoir and the fighting network pipes and also has efficiently to absorb the dissolved oxygen when inject by dose of 300-700 ppm every three months or when renewal the water of the system

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/03/2017** **0344/2017** **February 2020** **29/04/2020** **29747**

(51)	**Int. Cl. [8] C02F 1/00**	
(71)	**1. SCIENCE AND TECHNOLOGY DEVELOPMENT FUND (EGYPT)** **2.** **3.**	
(72)	**1. MONA MAHMOUD MOHAMED NAIM** **2. MAHMOUD MOHAMED ELEWA** **3. ABEER AHMED MONEER MOSTAFA**	**4. AHMED ABD-ALLAH AHMED EL-SHAFEI**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**MARWA ALAA EL DIN ABD EL MAJID MOHAMED**	
(12)	**Patent**	

(54)	**A METHOD AND UNITE FOR DESALINATION OF EXCEPTIONALLY HIGH SALINE WATER IN A SINGLE STAGE USING PERVAPORATION TECHNIQUE AND METHOD FOR MEMBRANE PRODUCTION**
	Patent Period Started From 05/03/2017 and Will end on 04/03/2037

(57) This invention relates to " a method and a prototype for desalination of exceptionally high saline water in a single stage using pervaporation technique and a method for membrane production". potable water (0.0412 g/1) produced from saline water (136 g nacl/1) with yields of (141.319 l/m2.day) at a temperature of 60°c. the prototype consists of electronic controller, heater, pervaporation cell array, pumps to feed the cells with saline water and air blowers to sweep desalinated water vapor for condensation through a condensing unit. the membrane prepared by the phase-inversion technique and casted from a polymer solution containing five specific organic solvents/additives.

Arab Republic of Egypt
Ministry of State for Scientific Research
Academy of Scientific Research & Technology

GRANTED PATENTS' ABSTRACTS GAZETTE

"PATENTS ISSUED IN MAY 2020 "

Egyptian Patent Office

Issue No 288 **JUNE 2020**

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

Bibliographic data	symbol
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Application Number	21
Filing Date	22
Priority Number Priority Date Priority Country	30
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Inventor Name	72
Patentee Name	73
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List of Codes of Countries and Regional Organisations Administered by the World Intellectual Property Organisation

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TR	Turkey
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UZ	Uzbekistan
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YD	Yemen
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
MAY (2020)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/07/2015** **1138/2015** **December 2019** **04/05/2020** **29748**

(51)	**Int. Cl. [8] B01J 31/14, 31/18 & C07F 9/00**	
(71)	**1. SAUDI BASIC INDUSTRIES CORPORATION (SAUDI ARABIA)** **2. Linde AG (Germany)** **3.**	
(72)	**1. ROSENTHAL, UWE** **2. AL-QAHTANI, ABDULLAH, MOHAMMED** **3. AZAM,SHAHID,MAJEED** **4. MULLER,BERND** **5. PEULECKE,NORMEN** **6. HARFF,MARCO**	**7. WOHL,ANINA** **8. MEISWINKEL,ANDREAS** **9. BOLT,HEINZ** **10. MULLER,WOLFGANG** **11. AL-HAZMI,MOHAMMED H**
(73)	**1.** **2.**	
(30)	**1. (EP) 13154794.5 - 11-02-2013** **2. (PCT/IB2014/058919) - 11-02-2014** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) METHOD FOR PURIFYING A CRUDE PNPNH COMPOUND

Patent Period Started From 11/02/2014 and Will end on 10/02/2034

(57) A method for purifying a crude pnpnh compound of the general structure R_1,R_2R-N(R_3)-P(R_4)-N(R_5)-h wherein R_1, R_2, R_3, R_4 and R_5 are independently halogen, amino, trimethylsilyl, c1-c10-alkyl, substituted C_{-1-10} , C $_{1-10}$ -alkyl, C_{6-20}-aryl and substituted C_{6-20}-aryl, or any cyclic derivative wherein at least one of the P or N atoms of the PNPNH structure is a member of a ring system, the ring system being formed from one or more constituent compound soft he PNPNH-structure by substitution, comprising the steps: slurry-washing a slurry comprising the crude pnpnh compound and ethanol at a temperature of about 0-25C°; agitating the slurry by means of a stirrer or kneader; separating the pnpnh compound, wherein the ethanol is removed by drying at 10-50C° in vacuum of 5.0-500 millibar; wherein the ethanol/ligand weight ratio is from 5.0-0.1.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/02/2016** **0247/2016** **November 2019** **04/05/2020** **29749**

(51)	**Int. Cl. [8] G01V 1/32**	
(71)	**1. PGS GEOPHYSICAL AS (NORWAY)** **2.** **3.**	
(72)	**1. Grunde R?nholt** **2. Nizar Chemingui** **3. Alejandro Antonio Valenciano Mavilio**	**4. Shaoping Lu**
(73)	**1.** **2.**	
(30)	**1. (US) 62/118.647 - 20-02-2015** **2. (US) 62/148.239 - 16-04-2015** **3. (US) 15/ 012.961 - 02-02-2016**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) AMPLTUDE-VERSUS-ANGLE ANALYSIS FOR QUANTITATIVE INTERPRETATION

Patent Period Started From17/02/2016 and Will end on 16/02/2036

(57) Amplitude-versus-angle analysis for quantitative interpretation can include creation of a plurality of angle gathers from imaging a subsurface location with multiples in a near-offset range and imaging primaries outside the near-offset range and application of an amplitude-versus-angle analysis to the plurality of angle gathers to produce a quantitative interpretation pertaining to the subsurface location.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/03/2016** **0417/2016** **December 2019** **04/05/2020** **29750**

(51)	**Int. Cl. [8] H01R 4/48 & H01H 23/08, 23/14**
(71)	**1. Vimar S.P.A. (ITALY)** **2.** **3.**
(72)	**1. MUTTIN, Andrea** **2. CAVALLI, Antonio** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) PD2013A000245 - 10-09-2013** **2. (PCT/IB2014/064390) - 10-09-2014** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**A DEVICE FOR ELECTRICAL WIRING SYSTEM**
	Patent Period Started From 10/09/2014 and Will end on 09/09/2034

(57) A device for controlling electrical apparatus in an electrical wiring system and/or connecting electrical apparatus external to the electrical wiring system, comprising an operating portion designed to open/close an electrical contact and/or to receive a connector of the electrical apparatus external to the wiring system, an inlet opening designed to receive at least one electrical wire, a conductor terminal, a resilient locking member and an actuation lever. The locking member comprises an operating portion resiliently connected to the conductor terminal and on which the actuation lever may act and a locking portion in which a passage opening is formed. An edge of the passage opening is able to lock the wire when the resilient locking member is in a rest position and is moved away when the actuation lever acts on the resilient locking member. The locking portion comprises a guide end inclined towards the inlet opening which faces the inlet opening.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/06/2016** **0905/2016** **December 2019** **04/05/2020** **29751**

(51)	**Int. Cl. [8] C08K 5/00, 5/14 & H01B 3/18 & C08L 23/06, 23/08**
(71)	**1. Borealis AG (AUSTRIA)** **2.** **3.**
(72)	**1. HAGSTRAND, Per-Ola** **2. ENGLUND, Villgot** **3. SMEDBERG, Annika**
(73)	**1.** **2.**
(30)	**1. (EP)13198410.6 - 19-12-2013** **2. (PCT/EP2014/067630) - 19-08-2014** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) A NEW LOW MFR POLYMER COMPOSITION, POWER CABLE INSULATION AND POWER CABLE

Patent Period Started From 19/08/2014 and Will end on 18/08/2034

(57) The present invention relates to a polymer composition comprising a polyolefin, peroxide and a sulphur containing antioxidant, wherein said peroxide is present in an amount which corresponds to X mmol O-O-/kg polymer composition and said sulphur containing antioxidant is present in an amount which corresponds to Y mmol OH /kg polymer composition, wherein $Y1 \leq Y \leq Y2$, $X \leq 45$ and $0.9 * Y + m \leq X \leq n - k * Y$, wherein Y_1 is 0.50 and Y_2 is 10, and m is 0.8, n is 70 and k is 4.7; and wherein said polymer composition has a melt flow rate (MFR) of less than 1.7, and said polymer composition comprises less than 0.05 % by weight (wt%) 2,4-Diphenyl-4-methyl-1-pentene; a crosslinked polymer composition, and use thereof, a power cable insulation, a power cable, useful in high voltage (HV DC) and extra high voltage (EHV DC) direct current applications, and a method for reducing electrical conductivity of a crosslinked polymer composition.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/06/2018** **0940/2018** **December 2019** **04/05/2020** **29752**

(51)	**Int. Cl. [8] A61M 5/172, 39/02, 5/142**
(71)	**1. Seraip AG (SWITZERLAND)** **2.** **3.**
(72)	**1. ANDRETTA, Carlo** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 15199669.1 - 11-12-2015** **2. (EP) 16176765.2 - 28-06-2016** **3. (EP) 16176771.0- 28-06-2016** **4. (PCT/EP2016/080694) - 12-12-2016**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**FLUID INTERFACE DEVICE FOR DELIVERING FLUID TO AND/OR WITHDRAWING FLUID FROM A PATIENT**
	Patent Period Started From 12/12/2016 and Will end on 11/12/2036

(57) A fluid interface device for delivering fluid to and/or withdrawing fluid from a patient, the device comprises a peripheral base element and a fluid transmission element sealingly connected to the base element and forming a central portion of the device. The fluid transmission element comprises a front platelet with a primary face and a secondary face opposed thereto, the primary face being in contact with a patient's body fluid region when the device is implanted in the patient, the fluid transmission element further comprising a counterplate sealingly stacked against the secondary face of the front platelet and forming a buffer volume therebetween. The front platelet comprises at least one array of microchannels defining a fluid passage between the buffer volume and the primary face, the microchannels having an opening of 0.2 to 10 ???. The counterplate has at least one fluid port for fluid delivery to and/or fluid withdrawal from the buffer volume.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/12/2011** **2162/2011** **January 2019** **10/05/2020** **29753**

(51)	**Int. Cl. [8] B08B 5/04, 7/00**
(71)	**1. WAEL ABDEL AZIM ABDEL RAZIK ALSAID BAIOMY (EGYPT)** **2.** **3.**
(72)	**1. WAEL ABDEL AZIM ABDEL RAZIK ALSAID BAIOMY** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**CHEMICAL AND WATER VAPOR CLEANING MACHINE**
	Patent Period Started From 26/12/2011 and Will end on 25/12/2031

(57) This unit is a water line in a cleaning machine we cancelled the original and replace it with a new one. The first part of it is a centrifugal pump and it is very important to place it under the fresh water tank; then the pump give the inline heater the water to heat it more than 100 degrees then the vapor goes to the chemical suction unit so the technician can use the suitable chemicals for every stage. So the chemical and water vapor go out of the nozzle to give the maximum results in the cleaning process.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/108/2015** **1219/2015** **January 2019** **10/05/2020** **29754**

(51)	**Int. Cl. [8] C12N 11/12**	
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**	
(72)	**1. MOHAMED EL SAYED ALI HASSAN** **2. MONA ABDELTAWAB ESAWY** **3. AMIRA GAMAL HEFNY**	**4. AMAL MOHAMED HASHIM** **5. NAZIHA MOHAMED HASSANIN**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**MAGDA MOHASEB ALSAYED, , MONA MOHAMED FAREED**	
(12)	**Patent**	

(54)	**TITLE A CARRIER COMPOSED OF ALGINATE AND CARBOXY METHYL CELLULOSE FOR DEXTRANSUCRASE IMMOBILIZATION AND METHOD OF PREPARATION**
	Patent Period Started From 05/08/2015 and Will end on 04/08/2035

(57) The present invention relates to carrier composed of alginate and carboxy methyl cellulose for dextransucrase immobilization. This enzyme produced by bacterial honey isolates (enterococcus faecalis). The carrier invented by improving the mechanical properties of alginate by addition of carboxy methyl cellulose (cmc) which raise the active groups on the surface of the polymer and entered new functional groups on the polymer surface. This was obtained by the treatment of the carrier by polyethylenemine then glutaraldehyde which made a very strong covalent bonds between the enzyme and the polymer and helped to use the polymer several times for dextransucrase immobilization, which reduce the total cost of the products produced by the enzyme loaded and also dissolved the major problem faced by many scientists before (as the dextran produced by the enzyme reaction blocked the active sites of the enzyme when dextran molecules accumulate in front of these active sites.), this invention eliminated this problem and the results showed the high activity of the enzyme and make it more applicable in medicine and industry.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/11/2018** **1870/2018** **January 2019** **10/05/2020** **29755**

(51)	**Int. Cl. [8] A61H 3/06**
(71)	**1. OSAMA YOUSEF MOHAMED MOHAMED (EGYPT)** **2.** **3.**
(72)	**1. OSAMA YOUSEF MOHAMED MOHAMED** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54) WHITE CANE FOR BLINDS PROVIDED WITH A HANDLE FOR IDENTIFYING BANKNOTES

Patent Period Started From 22/11/2018 and Will end on 21/11/2038

(57) White Cane is a compensatory means for the blind, controlling their movements so as to avoid making crashes with objects while walking by moving it ahead and on both sides. It is also an indicator that its carrier is blind. It is made of light-weighted metal using convenient materials for Egyptian environment. It is consisted of a set of joints to be easily foldable when there is no need thereto. The said white Cane is provided with a handle having projected rings for assisting the blind recognize banknotes starting from five pound Egyptian note to 200 pound one.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/02/2017** **0230/2017** **January 2019** **10/05/2020** **29756**

(51)	**Int. Cl. [8] D06F 37/26, 37/18, 37/28, 39/12**
(71)	**1. LG Electronics INC (REPUBLIC OF KOREA)** **2.** **3.**
(72)	**1. LEE, Jihong** **2. Kim, Wooseong** **3. KIM, Hongchul**
(73)	**1.** **2.**
(30)	**1. (KR) 10-2015-0092775 - 30-06-2015** **2. (PCT/KR 2016/007040) - 30-06-2016** **3.**
(74)	**MOHMED MOHMED BAKER**
(12)	**Patent**

(54)	**LAUNDRY TREATMENT APPARATUS**
	Patent Period Started From 30/06/2016 and Will end on 29/06/2036

(57) Disclosed is a laundry treatment apparatus including a tub body for providing a space for storage of water, a tub cover for forming an upper surface of the tub body, an introduction aperture formed in the tub cover, a drum rotatably provided inside the tub body for providing a space for storage of laundry supplied through the introduction aperture, a door for opening and closing the introduction aperture, and a sealing unit provided on any one of the door and the introduction aperture for hermetically sealing the introduction aperture when the introduction aperture is closed by the door, the sealing unit having a "C"-shaped cross section.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/02/2017** **0165/2017** **January 2019** **12/05/2020** **29757**

(51)	**Int. Cl. [8] H04W 72/12, 72/04, 16/14**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. WEI, Yongbin** **2. MALLADI, Durga,Prasad** **3. LUO, Tao** **4. YERRAMALLI, Srinivas**	**5. DAMNJANOVIC, Aleksandar** **6. XU, Hao** **7. GAAL, Peter** **8. CHEN, Wanshi**
(73)	**1.** **2.**	
(30)	**1. (US) 62/033,035 - 04-08-2014** **2. (US) 14/807,024 - 23-07-2015** **3. (PCT/US2015/041957) - 24-07-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54)	**TECHNIQUES FOR CONFIGURING UPLINK CHANNEL TRANSMISSIONS USING SHARED RADIO FREQUENCY SPECTRUM BAND**
	Patent Period Started From 24/07/2015 and Will end on 23/07/2035

(57) Techniques for wireless communications over a shared radio frequency spectrum band, may include techniques for transmitting uplink data transmissions using allocated uplink resources. Allocated uplink resources may include an uplink channel comprising a number of allocated interlaces of resource blocks (RBs) for use by a user equipment (UE). An incoming data stream may be processed and data separated into each of the allocated interlaces of RBs for the UE. Such separation may be through demultiplexing the data stream to obtain data for the allocated interlaces of RBs. The demultiplexed data may be mapped onto associated resource elements associated with the allocated interlaces of RBs, and transmitted. Different types of uplink channels, such as a physical uplink control channel (PUCCH), physical uplink shared channel (PUSCH) and/or a physical random access channel (PRACH) may be allocated to interlaces of RBs in one or more subframes of a transmitted radio frame.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/04/2015** **0629/2015** **January 2019** **12/05/2020** **29758**

(51)	**Int. Cl. [8] H04B 5/02 & G06K 7/10**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. HILLAN, John** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/719,725 - 29-10-2012** **2. (US) 13/786,876 - 06-03-2013** **3. (PCT/US2013/066972) - 25-10-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) METHODS AND APPARATUS FOR DISCOVERING TAG TALKS FIRST DEVICES

Patent Period Started From 25/10/2013 and Will end on 24/10/2033

(57) A method, an apparatus, and a computer program product for wireless communication are provided in connection with enabling a NFC-enabled device to discover and/or communicate with a TTF device. In one example, a NFC enabled device is equipped to initiate a RF field that is not modulated by the NFC-enabled device as part of a technology detection process (402), monitor the RF field (404) for at least a portion of a wait duration (406), determine whether, during the wait duration, the RF field is modulated (410) in a manner consistent with modulation characteristics of a NFC technology, and terminate the technology detection process (412) upon the determination that the RF field is modulated a manner consistent with modulation characteristics of the NFC technology.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/04/2015** **0612/2015** **January 2019** **12/05/2020** **29759**

(51)	**Int. Cl. [8] H03K 19/00, 19/0175**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. LI, Miao** **2. ZHUANG, Jingcheng** **3. HU, Yan**	**4. BAI, Xiaoliang**
(73)	**1.** **2.**	
(30)	**1. (US) 13/658,778 - 23-10-2012** **2. (PCT/US2013/065592) - 18-10-2013** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) METHODS AND DEVICES FOR MATCHING TRANSMISSION LINE CHARACTERISTICS USING STACKED METAL OXIDE SEMICONDUCTOR (MOS) TRANSISTORS

Patent Period Started From 18/10/2013 and Will end on 17/10/2033

(57) An output driver for electrostatic discharge (ESD) protection includes a first pair of stacked metal oxide semiconductor field-effect transistor (MOS) devices coupled between a power terminal and a first differential output terminal. The output driver also includes a second pair of stacked MOS devices coupled between a second differential output terminal and a ground terminal.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/05/2011** **0781/2011** **December 2019** **12/05/2020** **29760**

(51)	**Int. Cl. [8] H04M 3/487, 15/02 & G06Q 30/00 & H04W, 76/02, 4/24**
(71)	**1. ABULASAN, Ana Paula, Ameruso (BRAZIL)** **2.** **3.**
(72)	**1. SCHIFFLER, Jean-Marc** **2. ABULASAN, Ana Paula, Ameruso** **3.**
(73)	**1.** **2.**
(30)	**1. (BR) PI-0804908-4 - 18-11-2008** **2. (PCT/BR2009/000146) - 29-05-2009** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**SYSTEM OF SUBSIDIZED PHONE CALLS**
	Patent Period Started From 29/05/2009 and Will end on 28/05/2029

(57) System of subsidized phone calls, is essentially a system (S) made possible by means of telecommunication networks in general to be used with great efficiency, using the existent technical resources that, organized of new way, allows the execution of calls with part or all of the chargeable time subsidized by a sponsor through the sending of advertising and/or institutional messages to the calling subscriber.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/11/2016** **1858/2016** **January 2019** **12/05/2020** **29761**

(51)	**Int. Cl. [8] H04W 72/12**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. JI, Tingfang** **2. SMEE, John Edward** **3. SORIAGA, Joseph Binamira** **4. BHUSHAN, Naga** **5. GAAL, Peter**	**6. GOROKHOV, Alexei Yurievitch** **7. MUKKAVILLI, Krishna Kiran** **8. HOWARD, Michael Alexander** **9. COOPER, Rotem** **10. ANG, Peter**
(73)	**1.** **2.**	
(30)	**1. (US) 14/533,893 - 05-11-2014** **2. (US) 62/000,443 - 19-05-2015** **3. (PCT/US2015/029634) - 07-05-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54)	**APPARATUS AND METHOD FOR INTERFERENCE MITIGATION UTILIZING THIN CONTROL**
	Patent Period Started From 07/05/2015 and Will end on 06/05/2035

(57) Aspects of the disclosure provide for a thin control channel structure that can be utilized for a variety of purposes including, for example, enabling the multiplexing of two or more data transmission formats. In another example, the thin control channel can be utilized to carry control information that relates to interference experienced by a user. By utilizing this control information on a thin control channel, the network can take suitable action to mitigate the interference. Other aspects, embodiments, and features are also claimed and described.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/04/2015** **0594/2015** **January 2019** **12/05/2020** **29762**

(51)	**Int. Cl. [8] G06F 1/32, 1/20**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. TU, Alex K** **2. MORISON, Thomas A** **3. PARK, Hee-Jun**
(73)	**1.** **2.**
(30)	**1. (US) 13/658,229 - 23-10-2012** **2. (PCT/US2013/061334) - 24-09-2013** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) MODAL WORKLOAD SCHEDULING IN A HETEROGENEOUS MULTI-PROCESSOR SYSTEM ON A CHIP

Patent Period Started From 24/09/2013 and Will end on 23/09/2033

(57) Various embodiments of methods and systems for mode-based reallocation of workloads in a portable computing device ("PCD") that contains a heterogeneous, multi-processor system on a chip ("SoC") are disclosed. Because individual processing components in a heterogeneous, multi-processor SoC may exhibit different performance capabilities or strengths, and because more than one of the processing components may be capable of processing a given block of code, mode-based reallocation systems and methodologies can be leveraged to optimize quality of service ("QoS") by allocating workloads in real time, or near real time, to the processing components most capable of processing the block of code in a manner that meets the performance goals of an operational mode. Operational modes may be determined by the recognition of one or more mode-decision conditions in the PCD.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/04/2016** **0683/2016** **January 2019** **12/05/2020** **29763**

(51)	**Int. Cl. [8] H04N 19/70, 19/30**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. WANG, Ye-Kui** **2. CHEN, Ying** **3. RAMASUBRAMONIAN, Adarsh Krishnan**	**4. HENDRY, Fnu**
(73)	**1.** **2.**	
(30)	**1. (US) 61/894,886 - 23-10-2013** **2. (US) 41/521.042 - 22-10-2014** **3. (PCT/US2014/061941) - 23-10-2014**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) MULTI-LAYER VIDEO FILE FORMAT DESIGNS

Patent Period Started From 23/10/2014 and Will end on 22/10/2034

(57) A computing device generates a file that comprises a track box that contains metadata for a track in the file. Media data for the track comprises a sequence of samples, each of the samples being a video access unit of multi-layer video data. As part of generating the file, the computing device generates, in the file, a sub-sample information box that contains flags that specify a type of sub-sample information given in the sub-sample information box. When the flags have a particular value, a sub-sample corresponding to the sub-sample information box contains exactly one coded picture and zero or more non-Video Coding Layer (VCL) Network Abstraction Layer (NAL) units associated with the coded picture.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/11/2016** **1857/2016** **January 2019** **12/05/2020** **29764**

(51)	**Int. Cl. [8] H04W 56/00, 72/12, 72/04**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. JI, Tingfang** **2. SMEE, John Edward** **3. SORIAGA, Joseph Binamira** **4. BHUSHAN, Naga** **5. GAAL, Peter**	**6. GOROKHOV, Alexei Yurievitch** **7. MUKKAVILLI, Krishna Kiran** **8. HOWARD, Michael Alexander** **9. COOPER, Rotem** **10. ANG, Peter**
(73)	**1.** **2.**	
(30)	**1. (US) 62/000,443 - 19-05-2014** **2. (US) 14/533,923 - 05-11-2015** **3. (PCT/US2015/029637) - 07-05-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) APPARATUS AND METHOD FOR SYNCHRONOUS MULTIPLEXING AND MULTIPLE ACCESS FOR DIFFERENT LATENCY TARGETS UTILIZING THIN CONTROL

Patent Period Started From 07/05/2015 and Will end on 06/05/2035

(57) Aspects of the disclosure provide for a thin control channel structure that can be utilized to enable multiplexing of two or more data transmission formats. For example, a thin control channel may carry information that enables ongoing transmissions utilizing a first, relatively long transmission time interval (TTI) to be punctured, and during the punctured portion of the long TTI, a transmission utilizing a second, relatively short TTI may be inserted. This puncturing is enabled by virtue of a thin channel structure wherein a control channel can carry scheduling information, grants, etc., informing receiving devices of the puncturing that is occurring or will occur. Furthermore, the thin control channel can be utilized to carry other control information, not being limited to puncturing information. Other aspects, embodiments, and features are also claimed and described.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/04/2015** **0610/2015** **January 2019** **12/05/2020** **29765**

(51)	**Int. Cl. [8] H04W 4/00, 8/00 & H04L 29/08**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. ABRAHAM, Santosh, Paul** **2. CHERIAN, George** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/718,142 - 24-10-2012** **2. (US) 13/753,227 - 29-01-2013** **3. (PCT/US2013/066433) - 23-10-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) PROFILE BASED DISCOVERY ENGINE CONFIGURATIONS FOR NEIGHBORHOOD AWARE WI-FI NETWORKS

Patent Period Started From 23/10/2013 and Will end on 22/10/2033

(57) Methods, devices, and computer program products for transmitting and receiving discovery and paging messages in a wireless communication device are described herein. In one aspect, a wireless apparatus operable in a wireless communication system includes a discovery engine configured to communicate with a wireless network based on a profile, the profile having defined use parameters, the discovery engine being configured to receive an input from an application indicating a selection of a profile, the discovery engine further configured to receive one or more attributes from the application and configure the profile using the one or more attributes, the attributes containing information to configure the profile to perform certain functions as defined by the application.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/01/2016** **20160031** **January 2019** **12/05/2020** **29766**

(51)	**Int. Cl. [8] H04N 19/70, 19/196, 19/593, 19/93, 19/94, 1/64, 19/176, 19/186 & G09G 5/06 & G06T 9/00**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. GUO, Liwei** **2. KARCZEWICZ, Marta** **3. SOLE ROJALS, Joel**	**4. JOSHI, Rajan Laxman** **5. KIM, Woo-Shik** **6. PU, Wei**
(73)	**1.** **2.**	
(30)	**1. (US) 61/845,824 - 12-07-2013** **2. (US) 61/899,048 - 01-11-2013** **3. (US) 61/913,040 - 06-12-2013** **4. (US) 14/328,502 - 10-07-2014** **5. (PCT/US2014/046402) - 11-07-2014**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) PALETTE PREDICTION IN PALETTE-BASED VIDEO CODING

Patent Period Started From 11/07/2014 and Will end on 10/07/2034

(57) In palette-based coding, a video coder may form a so-called "palette" as a table of colors representing the video data of a given block. The video coder may code index values for one or more pixels values of a current block of video data, where the index values indicate entries in the palette that represent the pixel values of the current block. According to the techniques, a video coder determines one or more palette entries in a predictive palette that are copied to the current palette, and a number of new palette entries not in the predictive palette that are included in the current palette. The video coder calculates a size of the current palette equal to the sum of the number of the copied palette entries and the number of the new palette entries, and generates the current palette including the copied palette entries and the new palette entries.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/08/2016** **1307/2016** **January 2019** **12/05/2020** **29767**

(51)	**Int. Cl. [8] G10L 21/038**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. SUBASINGHA, Subasingha Shaminda** **2. KRISHNAN, Venkatesh** **3. ATTI, Venkatraman S** **4. RAJENDRAN, Vivek**
(73)	**1.** **2.**
(30)	**1. (US) 61/939,585 - 13-02-2014** **2. (US) 14/617,524 - 09-02-2015** **3. (PCT/US2015/015242) - 10-02-2015**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) HARMONIC BANDWIDTH EXTENSION OF AUDIO SIGNALS

Patent Period Started From 10/02/2015 and Will end on 09/02/2035

(57) A method includes separating, at a device, an input audio signal into at least a low-band signal and a high-band signal. The low-band signal corresponds to a low-band frequency range and the high-band signal corresponds to a high-band frequency range. The method also includes selecting a non-linear processing function of a plurality of non-linear processing functions. The method further includes generating a first extended signal based on the low-band signal and the non-linear processing function. The method also includes generating at least one adjustment parameter based on the first extended signal, the high-band signal, or both.

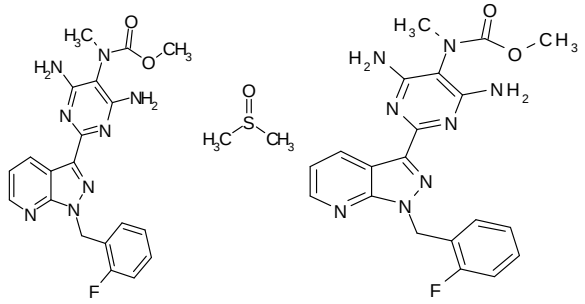
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/05/2012** **0940/2012** **December 2019** **19/05/2020** **29768**

(51)	**Int. Cl. [8] C07D 471/04**	
(71)	**1. Adverio Pharma gmbh (GERMANY)** **2.** **3.**	
(72)	**1. REHSE, Joachim** **2. MAIS, Franz-Josef** **3. SIEGEL, Konrad**	**4. JOENTGEN, Winfried**
(73)	**1.** **2.**	
(30)	**1. (EP) 09177371.3 - 27-11-2009** **2. (PCT/EP2010/067949) - 22-11-2010** **3.**	
(74)		
(12)	**Patent**	

(54) METHOD FOR PRODUCING METHYL-{4,6-DIAMINO-2-[1-(2-FLUOROBENZYL)-1H-PYRAZOLO[3,4-B]PYRIDINO-3-YL]PYRIMIDINO-5-YL}METHYL CARBAMATE AND ITS PURIFICATION FOR USE THEREOF AS PHARMACEUTICAL SUBSTANCE

Patent Period Started From 22/11/2010 and Will end on 21/11/2030

(57) The invention relates to a method for producing methyl-{4,6-diamino-2-[1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridino-3-yl]pyrimidino-5-yl}methyl carbamate of formula (I) and to a method for purifying the crude product of the compound of formula (I) for use as pharmaceutically active substance. For purification, methyl-{4,6-diamino-2-[1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridino-3-yl]pyrimidino-5-yl}methyl carbamate-sulfinyldimethane (1:1), i.e. a compound of formula (II) is isolated as an intermediate or is produced as an intermediate in said purification method, optionally present in a mixture.



(II) (I)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/05/2012** **863/2012** **October 2019** **19/05/2020** **29769**

(51)	**Int. Cl. [8] F16L 15/06 & E21B 17/08**
(71)	**1. VALLOUREC MANNESMANN OIL & GAS FRANCE (FRANCE)** **2. SUMITOMO METAL INDUSTRIES, Ltd (JAPAN)** **3.**
(72)	**1. MAILLON, Bertrand** **2. MARTIN, Pierre** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 0905586 - 20-11-2009** **2. (PCT/EP2010/006823) - 09-11-2010** **3.**
(74)	**SMAS CO**
(12)	**Patent**

(54)	**THREADED CONNECTION**
	Patent Period Started From 09/11/2010 and Will end on 08/11/2030

(57) A threaded connection 1 comprising a first and a second tubular component, the first component comprising a male end comprising a distal surface and a threaded zone 5 disposed on its external peripheral surface, the second component comprising a female end comprising a distal surface and a threaded zone 4 disposed on its internal peripheral surface, the threaded zone 5 of the male end being threaded up into the threaded zone 4 of the female end, the threaded zones 4, 5 comprising respective male and female threads 40, 50 having a width which increases from the distal surface, the threads comprising load flanks having negative angles over at least a portion of their radial dimension, and stabbing flanks, with a radial clearance subsisting in the connected state between the crests of the male threads and the roots of the female threads and/or between the crests of the female threads and the roots of the male threads, with an axial clearance subsisting in the connected state between the stabbing flanks of the male and female threads, and the distal surface of the male end and/or female end being brought into axial abutting contact against a corresponding abutment surface.

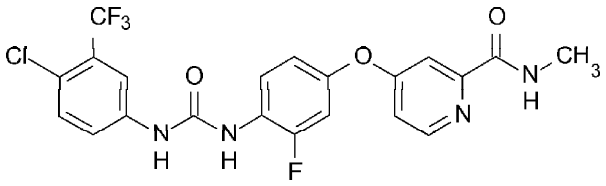
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/10/2012** **1746/2012** **January 2019** **19/05/2020** **29770**

(51)	**Int. Cl. [8] C07D 213/81**	
(71)	**1. BAYER health cear llc (GERMANY)** **2.** **3.**	
(72)	**1. LOGERS, Michael HEILMANN,** **2. Werner** **3. REHSE, Joachim**	**4. WICHMANN, Saskia** **5. GOTTFRIED, Michael** **6. STIEHL, Juergen**
(73)	**1.** **2.**	
(30)	**1. (EP) 10004022.9 - 15-04-2010** **2. (PCT/EP2011/055508) - 08-04-2011** **3.**	
(74)	**SMAS INTELLECTUAL PROPERTY**	
(12)	**Patent**	

(54) PROCESS FOR THE PREPARATION OF 4- {4-[({[4 -CHLORO-3 -(TRIFLUOROMETHYL)-PHENYL]AMINO}CARBONYL)AMINO]-3-FLUOROPHENOXY}-N-METHYLPYRIDINE-2-CARBOXAMIDE, ITS SALTS AND MONOHYDRATE

Patent Period Started From 08/04/2011 and Will end on 07/04/2031

(57) The present invention relates to a process for preparing 4-{4-[({[4-chloro-3-(trifluoromethyl)-phenyl]amino}carbonyl)amino]-3-fluorophenoxy}-N-methylpyridine-2-carboxarnide, its salts and monohydrate.



(I)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/02/2013** **0287/2013** **August 2019** **19/05/2020** **29771**

(51)	**Int. Cl. [8] E21B 17/08 & F16L 15/06, 15/00**
(71)	**1. VALLOUREC MANNESMANN OIL & GAS FRANCE (FRANCE)** **2. NIPPON STEEL & SUMITOMO METAL CORPORATION (FRANCE)** **3.**
(72)	**1. MAILLON, Bertrand** **2. ELDER, Russell** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 12/861,497 - 23-08-2010** **2. (PCT/EP2011/064299) - 19-08-2011** **3.**
(74)	**SMAS INTELLECTUAL PROPERTY**
(12)	**Patent**

(54) TUBULAR THREADED CONNECTION

Patent Period Started From 19/08/2011 and Will end on 18/08/2031

(57) A threaded tubular connection including a first tube and a second tube is provided. The first tube includes a pin member which extends from an end of a main body of the first tube to a terminal end of the first tube. The second tube includes a box member which extends from an end of a main body of the second tube to a terminal end of the second tube. A cross-sectional area of a pin critical cross-section is within approximately ? 5% of cross- sectional area of a box critical cross-section of the box member. The cross-sectional areas of each of the pin and box critical cross-sections are within approximately ? 5% of the sum of the cross-sectional areas of a box intermediate critical cross-section of the box member and a pin intermediate critical cross-section of the pin member.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/05/2013** **0854/2013** **September 2019** **19/05/2020** **29772**

(51)	**Int. Cl. [8] G01B 3/40, 3/48 & E21B 19/16**	
(71)	**1. VALLOUREC MANNESMANN OIL & GAS FRANCE (FRANCE)** **2. NIPPON STEEL & SUMITOMO METAL CORPORATION (FRANCE)** **3.**	
(72)	**1. APPLINCOURT, Anthony** **2. DURIVAULT, Jerome** **3. PEUCHOT, Florian**	**4. CROSS, Nigel**
(73)	**1.** **2.**	
(30)	**1. (FR) 10/04615 - 26-11-2010** **2. (PCT/EP2011/005745) - 15-11-2011** **3.**	
(74)	**SMAS CO**	
(12)	**Patent**	

(54) METHOD AND DEVICE FOR INSPECTING A THREADING OF A TUBULAR CONNECTION USED IN THE OIL INDUSTRY

Patent Period Started From 15/11/2011 and Will end on 14/11/2031

(57) The invention concerns a device for inspecting a threading of a tubular component for the exploration or working of hydrocarbon wells, the device comprising a threaded support which can cooperate by makeup with the threading of the tubular component, means for blocking the advance of the threaded support during makeup with the threading of the tubular component, a longitudinal rail fixed to the means for blocking the advance of the threaded support and extending in a direction belonging to a plane passing through the axis of the threading of the treaded support, means for inspecting the treading of the tubular component, and means for longitudinal guidance in order to guide the means for inspecting the treading in translation along the longitudinal rail. The invention also concerns methods using the device.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/09/2013** **1457/2013** **August 2019** **19/05/2020** **29773**

(51)	**Int. Cl. [8] F16L 15/04**	
(71)	**1. JFE STEEL CORPORATION (JAPAN)** **2.** **3.**	
(72)	**1. KAWAI, Takamasa** **2. YOSHIKAWA, Masaki** **3. CHIKATSUNE, Hiroshi** **4. TAKANO, Jun**	**5. TAKAHASHI, Kazunari** **6. NAGAHAMA, Takuya** **7. SONOBE, Osamu** **9. UETA, Masateru**
(73)	**1.** **2.**	
(30)	**1. (JP) 2011-061942 - 22-03-2011** **2. (JP) 2011-210031 - 27-09-2011** **3. (PCT/JP2012/055293) - 24-02-2012**	
(74)	**SMAS INTELLECTUAL PROPERTY**	
(12)	**Patent**	

(54)	**SCREW JOINT FOR STEEL PIPING**
	Patent Period Started From 24/02/2012 and Will end on 23/02/2032

(57 Provided is a screw joint for steel piping that exhibits excellent sealing properties even when subjected to a bending load. Specifically provided is a screw joint for steel piping in which a pin and a box are coupled by means of screw coupling, bringing the outer peripheral surface of the nose portion of the pin and the inner peripheral surface of the nose portion of the box into metal to metal contact, this contact portion forming a seal portion. The load flank angle ALPHA of the screw portion the screw coupling portion of a male screw and a female screw is the load side and the torque shoulder angle BETA of a shoulder portion is the load side, and L/d0, the ratio of the length of the nose portion L and the outer diameter of the pipe d0, is 0.08 or greater.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/09/2014** **1540/2014** **January 2019** **19/05/2020** **29774**

(51)	**Int. Cl. [8] C02F 1/50 & A01N 31/02**	
(71)	**1. ECOLAB USA INC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. RYTHER, Robert, J** **2. HERDT, Brandon** **3. DE PAULA, Renato** **4. STAUB, Richard**	**5. KEASLER, Victor** **6. MCSHERRY, David, D** **7. LI, Junzhong**
(73)	**1.** **2.**	
(30)	**1. (US) 61/617.814 - 30-03-2012** **2. (PCT/US2013/030904) - 13-03-2013** **3.**	
(74)	**SMAS CO**	
(12)	**Patent**	

(54) METHODS FOR VARIOUS WATER TREATMENTS BY USEING OF PERACETIC ACID/HYDROGEN PEROXIDE AND PEROXIDE-REDUCING AGENTS

Patent Period Started From 13/03/2013 and Will end on 12/03/2033

(57) Methods for various water treatments by using peracid compositions having decreased hydrogen peroxide concentration , including oil- and gas-field operations, and/or other aseptic treatments are disclosed. In numerous aspects, peracetic acid is the preferred peracid and is treated with a peroxide-reducing agent to substantially reduce the hydrogen peroxide content. Methods for using the treated peracid compositions for treatment of drilling fluids, frac fluids, flow back waters and disposal waters are also disclosed for improving water condition, reducing oxidizing damage associated with hydrogen peroxide and/or reducing bacteria infestation.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/07/2015** **1120/2015** **September 2019** **19/05/2020** **29775**

(51)	**Int. Cl. [8] A61M 5/20**
(71)	**1. BAYER PHARMA AKTIENGESELLSCHAFT (GERMANY)** **2.** **3.**
(72)	**1. POULSEN, Sven, Erik** **2. OLESEN, Jan** **3. PEDERSEN, Carsten**
(73)	**1.** **2.**
(30)	**1. (EP) 13151386.3 - 16-01-2013** **2. (PCT/EP2014/050452) - 13-01-2014** **3.**
(74)	**HALA WAHEED AHMED**
(12)	**Patent**

(54)	**LOCK FOR DRUG INJECTION DEVICE**
	Patent Period Started From 13/01/2014 and Will end on 12/01/2034

(57) A drug injection device comprises a main body case, a drug syringe mounting component, a piston, a drive mechanism, a controller, and means for locking the lid during operation of the drug injection device. The main body case has a lid and a base and an injection needle let- in/let-out opening. The drug syringe mounting component is provided inside the main body case, and allows a (filled) drug syringe to be mounted therein. The piston is movable with respect to the drug syringe mounting component.The drive mechanism drives the drug syringe mounting component and the piston. The controller is electrically connected to the drive mechanism. The means for locking the lid during operation of the drug injection device is activated and deactivated by movement of the drug syringe mounting component when the lid is closed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/12/2015** **1983/2015** **December 2019** **19/05/2020** **29776**

(51)	**Int. Cl. [8] F16L 15/00 & E21B 17/042**	
(71)	**1. VALLOUREC OIL AND GAS FRANCE (FRANCE)** **2. NIPPON STEEL & SUMITOMO METAL CORPORATION (JAPAN)** **3.**	
(72)	**1. MARTIN, Pierre Bernard** **2. COLIN, Sébastien** **3. MENCAGLIA, Xavier**	**4. RUFFIN, Karine**
(73)	**1.** **2.**	
(30)	**1. (FR) 1355760 - 19-06-2013** **2. (PCT/EP2014/062627) - 17-06-2014** **3.**	
(74)	**SMAS**	
(12)	**Patent**	

(54) ASSEMBLY FOR PRODUCING A THREADED CONNECTION FOR DRILLING AND OPERATING HYDROCARBON WELLS, AND METHOD FOR PRODUCING SUCH A THREADED CONNECTION

Patent Period Started From 17/06/2014 and Will end on 16/06/20134

(57) The invention concerns an set for producing a threaded connection, comprising a first (UCS), a second (BCS), a third (PIN-A) and a fourth (PIN-B) tubular component with an axis of revolution (10), the first tubular component being provided at each of its ends with a first (T1) and a second (T2) threaded zone provided on the inner peripheral surface of the component, the second tubular component being provided at each of its ends with a third (T3) and a fourth (T4) threaded zone provided on the outer peripheral surface of the component, the third tubular component being provided at one of its ends with a fifth (T5) and a sixth (T6) threaded zone respectively provided on the inner and outer peripheral surface of the component, the fourth tubular component being provided at one of its ends with a seventh (T7) and an eighth (T8) threaded zone respectively provided on the inner and outer peripheral surface of the component, the first and sixth, third and fifth, second and eighth, fourth and seventh threaded zones being capable of cooperating with one another on makeup, the pitch of the first and sixth threaded zones being equal to the pitch of the fourth and seventh threaded zones, or the pitch of the second and eighth threaded zones being equal to the pitch of the third and fifth threaded zones, or the pitch of the first and sixth threaded zones being equal to the pitch of the third and fifth threaded zones and the pitch of the second and eighth threaded zones being equal to the pitch of the fourth and seventh threaded zones. The invention also concerns a threaded connection and a method for producing such a connection.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/10/2015** **1614/2015** **August 2019** **19/05/2020** **29777**

(51)	**Int. Cl. [8] B21D 41/02, 41/04 & E04G 25/04, 25/06**
(71)	**1. PERI GMBH** **2.** **3.**
(72)	**1. ANDREE, Jürgen** **2. SPECHT, Rudolf** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2013 206 577.9 - 12-04-2013** **2. (PCT/EP2014/057242) - 10-04-2014** **3.**
(74)	**COMPANY SMAS OF THE IP**
(12)	**Patent**

(54) METHOD FOR STRENGTHENING AND CALIBRATING A PIPE SEGMENT

Patent Period Started From 10/04/2014 and Will end on 09/04/2034

(57) The invention relates to a method and a device for producing an outer pipe of a telescope-like support and the telescope-like support and the outer pipe which is contained therein. For reasons of weight and stability, the outer pipe is produced from a standardised zinc-coated steel pipe having a large outer diameter and a small wall thickness. A pipe portion of the outer pipe is expanded in the method with a punch and subsequently tapered to the original outer diameter again with a ring. A reinforcement of the pipe portion and a calibration of the outer diameter of the pipe portion are thereby achieved. An outer thread can be rolled on the pipe portion.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/04/2017** **0718/2017** **November 2019** **19/05/2020** **29778**

(51)	**Int. Cl. [8] A61M 5/00, 5/145, 37/00**	
(71)	**1. BAYER HEALTHCARE LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. TUCKER, Barry, L** **2. COWAN, Kevin, P** **3. UBER, Arthur, E., III**	**4. RHINEHART, Edward, J.** **5. SPOHN, Michael, A.**
(73)	**1.** **2.**	
(30)	**1. (US) 14/526,294 - 28-10-2014** **2. (PCT/US2015/057706) - 28-10-2015** **3.**	
(74)	**SMAS INTELLECTUAL PROPERTY**	
(12)	**Patent**	

(54) SELF-ORIENTING SYRINGE AND SYRINGE INTERFACE

Patent Period Started From 28/10/2015 and Will end on 27/10/2035

(57) A syringe includes a barrel having a proximal end, a distal end, and a sidewall extending between the proximal end and the distal end along a longitudinal axis. At least one syringe retaining member protrudes radially outwardly relative to an outer surface of the sidewall. The at least one syringe retaining member tapers axially in a direction from the distal end toward the proximal end. The at least one syringe retaining member is configured for selective engagement with a locking mechanism on a fluid injector to releasably lock the syringe with the fluid injector. A taper of the at least one syringe retaining member is configured to rotationally guide the syringe into alignment with the locking mechanism.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/12/2016** **2139/2016** **December 2019** **19/05/2020** **29779**

(51)	**Int. Cl. [8] F24J 2/54**
(71)	**1. SENER, INGENIERIA Y SISTEMAS, S.A (SPAIN)** **2.** **3.**
(72)	**1. LECUBE INCHAUSTI, Xabier** **2. VILLARROEL PINEDO, Eduardo** **3. LATA PEREZ, Jesus Maria**
(73)	**1.** **2.**
(30)	**1. (SP) P201430983 - 30-06-2014** **2. (PCT/EP2015/062223) - 02-06-2015** **3.**
(74)	**SMAS COMPANY**
(12)	**Patent**

(54)	**AZIMUTHAL ROTATION MECHANISM FOR SOLAR TRACKERS**
	Patent Period Started From 02/06/2015 and Will end on 01/06/2035

(57) Azimuthal rotation mechanism for solar trackers comprising a vertical pedestal on which a rotating support holding the solar panels is mounted, which is actuated by means of at least three hydraulic cylinders and located in the same horizontal plane and articulated through the casing to the rotating support by means of a first movable vertical shaft, while the piston rods of the three cylinders pass through the wall of the rotating support and are articulated at the same height to the pedestal by means of a second fixed vertical rotation shaft.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/11/2016** **1919/2016** **December 2019** **19/05/2020** **29780**

(51)	**Int. Cl. [8] B66C 6/00**
(71)	**1. HANS KUNZ GMBH (AUSTRIA)** **2.** **3.**
(72)	**1. KLAPPER, Georg** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (AT) A 408/2014 - 26-05-2014** **2. (PCT/AT2015/000075) - 19-05-2015** **3.**
(74)	**COMPANY SMAS OF THE IP**
(12)	**Patent**

(54)	**CRANE GIRDER FOR A CRANE**
	Patent Period Started From 19/05/2015 and Will end on 18/05/2035

(57) Crane girder for a crane, wherein the crane girder includes a hollow profile having an outer wall enclosing a cavity and extends longitudinally, and the outer wall of the crane girder, as seen in a cross-section through the crane girder, has a shape which bulges outwards at least in some regions in order to reduce aerodynamic drag, wherein the outer wall, as seen in the cross-section through the crane girder, has two sections facing one another with an outwards bulging shape, which are joined together by two straight wall sections of the outer wall, these straight wall sections face one another, and the crane girder has at least one running surface for at least one running wheel of a trolley of a lifting tool of the crane, wherein the sections facing one another with an outwards bulging shape point upwards and downwards in an operating position of the crane girder and the straight wall sections delimit the crane girder on the sides.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/12/2016** **2096/2016** **October 2019** **19/05/2020** **29781**

(51)	**Int. Cl. [8] B62M 11/00, 11/14**
(71)	**1. Bajaj Auto Limited (INDIA)** **2.** **3.**
(72)	**1. Joseph Abraham** **2. Joshi Ashish Mohiniraj** **3. Gupta Avijit Ghanshyamdas**
(73)	**1.** **2.**
(30)	**1. (IN) 4942/MUM/20152 - 30-12-2015** **2.** **3.**
(74)	**COMPANY SMAS OF THE IP**
(12)	**Patent**

(54)	**A TRANSMISSION SYSTEM**
	Patent Period Started From 30/12/2015 and Will end on 29/12/2035

(57) A transmission system comprising: a powertrain housing; and a gear shift drive system mounted within said powertrain housing including:a shift drum mounted for controlled angular movement about an axis thereof, said shift drum having an outer peripheral surface formed with a plurality of actuator grooves engageable with respective shifters to establish at least a selected gear ratio dependent on said angular movement of said shift drum; and a gear shift actuator for turning said shift drum, on demand, through a selected angular movement to a selected shift drum position wherein said shift actuator for turning said shift drum holds said.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/12/2016** **2063/2016** **October 2019** **19/05/2020** **29782**

(51)	**Int. Cl. [8] E21B 17/04, F16L 15/04**
(71)	**1. VALLOUREC OIL AND GAS FRANCE (FRANCE)B** **2. NIPPON STEEL & SUMITOMO METAL CORPORATION (JAPAN)** **3.**
(72)	**1. Yousuke Oku** **2. Tatsuya Yamamoto** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2014-127671 - 20-06-2014** **2. (PCT/JP2015/003093) - 19-09-2015** **3.**
(74)	**COMPANY SMAS OF THE IP**
(12)	**Patent**

(54) THREADED JOINTS FOR STEEL PIPES

Patent Period Started From 19/09/2015 and Will end on 18/09/2035

(57) A threaded joint is constructed of a pin and a box. The pin includes, in order from a tubular body having the pin toward the free end thereof: a male threaded portion and a lip portion including a sealing surface. The box includes: a female threaded portion corresponding to the male threaded portion of the pin; and a recessed portion corresponding to the lip portion, the recessed portion including a sealing surface. The lip portion includes, in order from a male threaded portion toward the free end of the pin: a neck portion; and a sealing head portion including the sealing surface. The maximum outside diameter (D1) of the region of the sealing surface in the sealing head portion is larger than an outside diameter (D2) of the neck portion at a boundary between the neck portion and the male threaded portion. This threaded joint is capable of reliably providing high sealing performance while maintaining high torque resistance performance of dovetail-shaped tapered threads.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/12/2016** **2062/2016** **October 2019** **19/05/2020** **29783**

(51)	**Int. Cl. [8] F16L 15/04 & E21B 17/04**	
(71)	**1. NIPPON STEEL & SUMITOMO METAL CORPORATION (JAPAN)** **2.** **3.**	
(72)	**1. Keita INOSE** **2. VALLOUREC OIL AND GAS FRANCE** **3. Fumio OTA**	**4. Suguru YAMAGUCHI** **5. SUGINO,MASAAKI**
(73)	**1.** **2.**	
(30)	**1. (JP) 2014-127673 - 20-06-2014** **2. (PCT/JP2015/002993) - 16-06-2015** **3.**	
(74)	**COMPANY SMAS OF THE IP**	
(12)	**Patent**	

(54) THREADED JOINT FOR STEEL PIPES

Patent Period Started From 16/06/2015 and Will end on 15/06/2035

(57) A threaded joint is constructed of a pin and a box. The pin includes, in order from an end thereof, a shoulder surface, a nose portion, a first sealing surface, a first male threaded portion, an annular portion, a second sealing surface, and a second male threaded portion. The box includes a shoulder surface, a recessed portion, a first sealing surface, a first female threaded portion, an annular portion, a second sealing surface, and a second female threaded portion. In the threaded joint, in a fastened state, the shoulder surfaces are in contact with each other, the first sealing surfaces are in contact with each other, the second sealing surfaces are in contact with each other, a clearance is provided between the nose portion and the recessed portion, a clearance is provided between the annular portions, the first male threaded portion engages with the first female threaded portion, and the second male threaded portion engages with the second female threaded portion.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/09/2016** **1493/2016** **November 2019** **19/05/2020** **29784**

(51)	**Int. Cl. [8] C10M 169/04, 125/30, 147/00, 107/02, 107/26, 109/00 & F16L 15/04 & C10N 40/00, 50/08**
(71)	**1. VALLOUREC OIL AND GAS FRANCE (FRANCE)B** **2. NIPPON STEEL & SUMITOMO METAL CORPORATION (JAPAN)** **3.**
(72)	**1. GOTO, Kunio** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2014-058702 -** **2. (PCT/JP2015/001112) - 03-03-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) SOLID LUBRICANT COATING COMPOSITION, THREADED JOINT FOR PIPES COMPRISING SOLID LUBRICANT COATING FORMED USING SAID COMPOSITION, AND PRODUCTION METHOD FOR SAID THREADED JOINT FOR PIPES

Patent Period Started From 03/03/2015 and Will end on 02/03/2035

(57) This invention provides a threaded connection for pipe or tube that has a nonsticky surface and that suppresses the occurrence of rust and exhibits excellent galling resistance and airtightness even in an extremely low temperature environment without using compound grease, a method of producing the same, and a composition for forming a solid lubricating coating on the threaded connection. A solid lubricating coating (24) formed from a composition containing a binder, a fluorine addition agent, a solid lubricant and a rust proof addition agent is coated as a topmost surface treatment coating on a contact surface of at least one of a pin and a box. Even when exposed to an extremely low temperature environment, the solid lubricating coating (24) can maintain adhesiveness and exhibit a lubricating function, can suppress the occurrence of galling of a threaded connection, and can also secure airtightness after fastening.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/07/2016** **20161142** **December 2019** **19/05/2020** **29785**

(51)	**Int. Cl. [8] A61M 5/142, 5/145, 5/168**	
(71)	**1. BAYER HEALTHCARE LLC(UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. sokolov,richard** **2. CULLEN, Benjamin, James** **3. NORCOTT, Alison, Ruth** **4. MONIS, Ernesto, Hueso**	**5. LAW, Kamman** **6. PROFACA, Mark, Silvio** **7. HAURY, John, A** **8. SWANTNER, Michael**
(73)	**1.** **2.**	
(30)	**1. (US) 61/925,940 - 10-01-2014** **2. (PCT/US2015/010825) - 09-01-2015** **3.**	
(74)	**SMAS INTELLECTUAL PROPERTY**	
(12)	**Patent**	

(54) SINGLE-USE DISPOSABLE SET CONNECTOR

Patent Period Started From 09/01/2015 and Will end on 08/01/2035

(57) A medical connector for providing a sterile connection between a multi-use portion and a single-use portion of a fluid delivery system is provided. The medical connector includes a fluid inlet port configured for removable engagement with a connection port of a multi-use disposable set (MUDS) to establish a fluid connection therewith and a waste outlet port configured for removable engagement with a waste inlet port of the MUDS to establish a fluid connection therewith. A patient fluid line is connected, at a first end, to the fluid inlet port and connected, at a second end, to the waste outlet port. Fluid flow through the patient fluid line is unidirectional from the first end to the second end. The patient fluid line is configured for being disconnected from the waste outlet port for delivering fluid to a patient. A multi-fluid delivery system having the medical connector and MUDS is also provided.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/03/2016** **0453/2016** **February 2019** **02/05/2020** **29786**

(51)	**Int. Cl. [8] G06K 19/06**
(71)	**1. INVENTIO AG (SWITZERLAND)** **2.** **3.**
(72)	**1. TROESCH, Florian** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13186975.2 - 01-10-2013** **2. (PCT/EP2014/070725) - 29-09-2014** **3.**
(74)	**MAGDA HARON**
(12)	**Patent**

(54) DATA TRANSMISSION USING OPTICAL CODES

Patent Period Started From 29/09/2014 and Will end on 28/09/2034

(57) Data can be encoded in an optical code using combinations of visually distinguishable features. In some cases, the data is represented using a ratio of two or more features.

Arab Republic of Egypt
Ministry of State for Scientific Research
Academy of Scientific Research & Technology

GRANTED PATENTS' ABSTRACTS GAZETTE

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

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ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
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Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/08/2016** **1300/2016** **January 2020** **14/06/2020** **29787**

(51)	**Int. Cl. [8] B65D 77/04**
(71)	**1. AHMED MAHMOUD BA (EGYPT)** **2. BELAL AHMED BADRAN (EGYPT)** **3.**
(72)	**1. AHMED MAHMOUD BA** **2. BELAL AHMED BADRAN** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**El-Deeb Office**
(12)	**Utility model**

(54)	**A NOVEL VESSEL OR BOX CONSISTS OF TWO PARTS FOR FOOD PRESERVATION**
	Patent Period Started From 07/08/2016 and Will end on 06/08/2023

(57) This invention relates to a field of a novel vessel for preservation and presentation of food, the food vessel is used for eating food that contains liquid for food preservation (such as, olives, Makdous, cheese, pickles, and any food should be immersed in a liquid), wherein when using the food presentation position, the vessel will separate the liquid, such as, oil, water, or any other liquids in the food, and transfer the liquid to another separate chamber in the bottom for easing eating food. When finishing eating food, we overturn this vessel after closing it such that the liquid back again to immerse the remaining food and preserve it for more days or months to the date of presenting the food.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/05/2014** **0747/2014** **March 2020** **14/06/2020** **29788**

(51)	**Int. Cl. [8] B01D 17/02, 21/24**
(71)	**1. INVENT UMWELT- UND VERFAHRENSTECHNIK AG (GERMANY)** **2.** **3.**
(72)	**1. HOFKEN, Marcus** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2011 087 966.8 - 08-12-2011** **2. (pct/ EP2012/073609) - 26-11-2012** **3.**
(74)	**MOSTAFA HUSEIN KHALIL ELSHAFEY**
(12)	**Patent**

(54)	**DECANTER**
	Patent Period Started From 26/11/2012 and Will end on 25/11/2032

(57) The invention relates to a decanter for separating a supernatant lying over a sludge in a clarifier. An extracting device with a receiving pipe is attached to an end of a discharge pipe, said receiving pipe extending in an approximately perpendicular manner relative to the discharge pipe in the manner of a T-piece. According to the invention, the receiving pipe is a rectangular pipe made of sheet metal in order to reduce the production complexity.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/01/2011** **0151/2011** **March 2020** **14/06/2020** **29789**

(51)	**Int. Cl. [8] H01L 21/00**
(71)	**1. GAMALABD EL GAYED ABD EL REHEM (EGYPT)** **2.** **3.**
(72)	**1. GAMALABD EL GAYED ABD EL REHEM** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**Magda Abd Elkreem Mahmoud**
(12)	**Patent**

(54)	**THE SAFETY MACHINE FOR SAVING VEHICLES**
	Patent Period Started From 24/01/2011 and Will end on 23/01/2031

(57) This project aim to forbid the cars from get out from the roads or bridges because he keep it in side . this machine should be on the border of the roads and bridges, so we put this machine in front of the bridge and beside the bridge and the distance between the machine and the others should be 1 cm and they must have the same high and the same distance.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/01/2015** **0105/2015** **March 2020** **14/06/2020** **29790**

(51)	**Int. Cl. [8] D06P 5/00, 5/15, 5/12**
(71)	**1. REHAM AHMED EL SEBAIE SHAMS (EGYPT)** **2.** **3.**
(72)	**1. REHAM AHMED EL SEBAIE SHAMS** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Utilty Model**

(54) RESISTANCE PASTES APPLIED ON DIFFERENT SURFACES OF FABRICS

Patent Period Started From 21/01/2015 and Will end on 20/01/2022

(57) The immunization pastes are applied to the surfaces of various fabrics to prevent the arrival of Dyes and colors to applied places and called each paste, depending on the type of filler used in the composition, like wheat starch paste (25% wheat starch - 25% cornstarch - 25% water - 25% polyvinyl acetate) Rice starch (19% rice starch - 19% Arabic gum - 54% water- 8% polyvinyl acetate) Zinc oxide (46% zinc oxide - 32% water- 22% polyvinyl acetate) gelatin Paste (25% gelatin - 60% water- 15% polyvinyl acetate) Soy beans (6% soy bean - 33% Arabic gum - 55% water - 6% polyvinyl acetate) And can control the degree of viscosity commensurate with the tools and printing techniques which used like Direct drawing method, tying and fastening, Monotyp, heat transfer, silk screen. The result is cracking surface cracks Ranging between thickly and thinly due to the gradient of this ratio and the type of filler used in Dough processing and can be used with Pigment colors, acrylic colors, dispersed dying.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/04/2015** **0560/2015** **March 2020** **14/06/2020** **29791**

(51)	**Int. Cl. [8] H01P 5/103**
(71)	**1. ELECTRONICS RESEARCH INSTITUTE (EGYPT)** **2. ESMAT ABDEL-FATTAH ABDALLAH (EGYPT)** **3. MOHAMED SHAKER ABDEL-FATTAH EL-GENDY (EGYPT)** **4. HAYTHAM HUSSIEN ABDULLAH (EGYPT)**
(72)	**1. ESMAT ABDEL-FATTAH ABDALLA** **2. MOHAMED SHAKER ABDEL-FATTAH EL-GENDY** **3. HAYTHAM HUSSIEN ABDULLAH**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**AHMED MOSTAFA ABD EL ALL MEGAHED**
(12)	**Patent**

(54) MULTIBAND AND DUAL POLARIZED BASE STATION ANTENNA ARRAY

Patent Period Started From 09/04/2015 and Will end on 08/04/2035

(57) With the emergence of new mobile applications such as GSM900 (Wireless communication System), DCS (Digital Cellular System), PCS1900 (Personal Communication System) and UMTS2100 (Universal Mobile Telecommunication System), additional licenses for multiband operating frequencies are utilized to overcome such capacity problem. This invention introduces a novel antenna array configuration to achieve the mobile base station electrical specifications such as multi-bands, port isolation, front-to-back ratio for the far-field pattern, Gain, polarization and vertical / horizontal HPBW. The proposed array is composed of fifteen similar antenna elements. Ten antenna elements with spacing distance d1 = 134 mm along the array used to cover DCS1800/PCS1900/ UMTS2100 bands at the center of the array. Another ten antenna elements with spacing distance d2 = 2*d1 used to cover GSM900 band and interleaved with the array that support the upper bands along the array. Elements used for lower band is the same as used in upper bands. The array is fabricated using FR4 substrate that has relative dielectric constant of 4.5, dissipation factor of 0.025 and dielectric thickness of 1.5 mm. plastic/PTFE spacers with the same height of the foam layers are placed instead of foam layers. The linear array dimensions are 2732 ? 30 ? 73.175 mm3. The mobile base station antenna should be multi-frequency band which operates at the mobile bands GSM900 DCS1800/ GSM1800 PCS1900/GSM1900 and UMTS2100 MHz. These bands are needed to operate both 2G and 3G generations of mobile phone communication systems. The antenna should have a dual linear polarization.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/11/2015** **1807/2015** **March 2020** **14/06/2020** **29792**

(51)	**Int. Cl. [8] B01D 45/04**
(71)	**1. MOHAMED MOSTAFA MOHAMED FARID AMMAR (EGYPT)** **2. WALEED MAMDOUH EL-SALLAMY (EGYPT)** **3. TAMER MOHAMED ABDEL FATTAH ELNADY (EGYPT)** **4. TAREK ABDEL SADEK OSMAN (EGYPT)**
(72)	**1. MOHAMED MOSTAFA MOHAMED FARID AMMAR** **2. WALEED MAMDOUH EL-SALLAMY** **3. TAMER MOHAMED ABDEL FATTAH ELNADY** **4. TAREK ABDEL SADEK OSMAN**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54) CENTRIFUGAL TYPE SPARK ARRESTOR MODEL A

Patent Period Started From 16/11/2015 and Will end on 15/11/2035

(57) Spark Arrestor Model A (Figure 1) is of centrifugal quenching type according to standard BS EN 1834-1 to 3:2000. It consists of inlet pipe 3" of length 75 mm, expansion chamber of diameter 200 mm and length 300 mm, a plate in the middle of expansion chamber with a middle hole of diameter 110 mm, outlet pipe 3" of length 165 mm, reducer pipe of diameter 130/194 mm, and spark arrestor part which consists of 4 blades with pitch 80 mm, and 0.5 revolution and also the Spark Arrestor part consists of cone at the exhaust inlet side. The theory of this spark arrestor is that the exhaust gas will enter to the first chamber in the expansion chamber through the inlet pipe. Then pass to the second chamber through the spark arrestor part which impedes the embers on passing direct to the outlet. As embers will first hit the spark arrestor blades then the embers will be affected by the centrifugal force which is resulted from the flow of exhaust gas through the spark arrestor blades which makes most of the embers pass to the third chamber and then precipitate at the bottom where there is a plug to clear the spark arrestor. Then the exhaust gas pass out to the surrounding environment through the outlet pipe. Figure.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/08/2016** **1301/2016** **March 2020** **16/06/2020** **29793**

(51)	**Int. Cl. [8] B 01D 71/02, B 01D 67/00**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. HEBA ABDALLAH MOHAMED ABDALLAH** **2. SHEREEN KAMEL AMIN KAMEL SALEM** **3. AYMAN TAHA ABD EL-AZIEM EL-GENDI**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**MAGDA MOHASEB EL –SED - AMAL YOUSEF AHMAD SAKR – MONA MOHAMAD FRED**
(12)	**Patent**

(54) CERAMIC MEMBRANES WITH DIFFERENT PORE SIZE CONSIST OF ONE LAYER, FROM AN EGYPTIAN RAW MATERIAL AND A METHOD TO MANUFACTURE THEM

Patent Period Started From 08/08/2016 and Will end on 07/08/2036

(57) The present invention relates to different porous ceramic membranes consisting of one layer and from an Egyptian raw material and a method to manufacture them. Different ceramic membranes have different properties with single layer were fabricated by forming them in different forming methods (dry pressing, extrusion, and casting), then natural drying of them and then drying in the dryer at a temperature of (110 & plusmn; 5) ° c, then the final step was firing at different temperatures from 1150 to 1300 0 c depending on the type of membrane. Four types of ceramic membranes have been produced with different pores, suitable for many different applications. Microfiltration ceramic membranes have a pore average diameter (4352.6 nm) can be applied in whey separation, and ultrafiltration ceramic membranes have an average pore diameter (90.5 nm) that have the ability to separate dyes, and nanofiltration ceramic membranes have an average diameter pores (5.17 nm) can be used in separation of a solution of magnesium chloride and sulfate at concentrations of 3000 and 5000 ppm, and reverse osmosis ceramic membranes have an average pore diameter (0.086 nm) that can be applied in seawater desalination. The prepared membranes showed high efficiency in different separation processes reached up to 99%.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/12/2016** **2091/2016** **March 2020** **14/06/2020** **29794**

(51)	**Int. Cl. [8] B66C 15/00**
(71)	**1. EZZAT WADIE RAGHEB (EGYPT)** **2.** **3.**
(72)	**1. EZZAT WADIE RAGHEB** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**CRANE SUPER POWER**
	Patent Period Started From 25/12/2016 and Will end on 24/12/2036

(57) The present invention relates to a super powerful lever. The inventive lever is driven by the lasting latent mass energy extracted from load mass applied to the moving pulley. This process is performed by a moving pulley system ; the load is equally distributed to the two ends of the moving pulley: the first wire end and the second wire end . the first wire end -which is the source of the latent mass energy- is connected to the power arm of thr balancer. the second wire end - the resistnce end - is connected to the wire pulley axis . it connects the wire pulley gear (the axial chain serrate)to the balancer gear (the axial chain serrate) through an axial chain . The wire pulley decentralized axis is centered on the triaxial gear and the biaxial gear . The balancer decentralized axis is centered on the triaxial gear . The wire pulley pivot axis and the balancer pivot axis share the triaxial gear axis .They have forces and opposite directions. Therefore, the torques of the wire pulley and the balancer are balanced, and hence there is no resistance to the motor torque of the lever except a small friction resistance relative to the load.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/05/2008** **0794/2008** **November 2019** **15/06/2020** **29795**

(51)	**Int. Cl. [8] A61K 39/395 & C07K 16/18 & G01N 33/577 & A61P 25/28**	
(71)	**1. AC IMMUNE S.A. (SWITZERLAND)** **2.** **3.**	
(72)	**1. NICOLAU, Claude** **2. PFEIFER, Andrea** **3. MUHS, Andreas**	**4. HICKMAN, David** **5. GREFERATH, RUTH**
(73)	**1.** **2.**	
(30)	**1. (EP) 05027092.5 - 12-12-2005** **2. (EP) 06014729.5 - 14-07-2006** **3. (EP) 06020766.9 - 02-10-2006** **4. (PCT/EP2006/011862) - 08-12-2006**	
(74)	**HODA AHMEDABDEL HADY**	
(12)	**Patent**	

(54) A BETA 1-42 SPECIFIC MONOCLONAL ANTIBODIES WITH THERAPEUTIC PROPERTIES

Patent Period Started From 08/12/2006 and Will end on 07/12/2026

(57) The present invention is related to methods and compositions for the therapeutic and diagnostic use in the treatment of diseases and disorders which are caused by or associated with amyloid or amyloid-like proteins including amyloidosis, a group of disorders and abnormalities associated with amyloid protein such as Alzheimer's disease. The present invention provides novel methods and compositions comprising highly specific and highly effective antibodies having the ability to specifically recognize and bind to specific epitopes from a range of ?-amyloid proteins. The antibodies enabled by the teaching of the present invention are particularly useful for the treatment of diseases and disorders which are caused by or associated with amyloid or amyloid-like proteins including amyloidosis, a group of diseases and disorders associated with amyloid plaque formation including secondary amyloidosis and age-related amyloidosis including, but not limited to, neurological disorders such as Alzheimer's Disease (AD).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/09/2016** **1534/2016** **December 2019** **15/06/2020** **29796**

(51)	**Int. Cl. [8] A61F 2/24, 2/76**
(71)	**1. TOHO UNIVERSITY. (JAPAN)** **2. JAPANESE ORGANIZATION FOR MEDICAL DEVICE DEVELOPMENT, INC (JAPAN)** **3.**
(72)	**1. OZAKI Shigeyuki** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 058056 – 2014 - 20-03-2014** **2. (PCT/JP2015/058338) - 19-03-2015** **3.**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54) TEMPLATE FOR FORMING VALVE LEAFLET

Patent Period Started From 19/03/2015 and Will end on 18/03/2035

(57) The present invention provides a template for obtaining a valve leaflet material for forming a valve leaflet that distributes stress applied thereto so that the valv leaflet can have increased tolerance. A template having a valve leaflet base forming part shaped corresponding to a valve leaflet base further has a wing forming part located outside the valve leaflet base forming part and corresponding to a wing portion. The wing forming part has one or more holes located in an area corresponding to the contour of the wing portion or has a guide part located in the area corresponding to the contour of the wing portion.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/12/2016** **2118/2016** **December 2019** **15/06/2020** **29797**

(51)	**Int. Cl. [8] C07C 319/02, 319/24**
(71)	**1. ARKEMA FRANCE (FRANCE)** **2.** **3.**
(72)	**1. FREMY, Georges** **2. BARRE, Patrice** **3. RAYMOND, Jean-Michel**
(73)	**1.** **2.**
(30)	**1. (FR) 1456439 - 04-07-2014** **2. (PCT/FR2015/051759) - 29-06-2015** **3.**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54) METHOD FOR PREPARING METHYL MERCAPTAN

Patent Period Started From 29/06/2015 and Will end on 28/06/2035

(57) The present invention relates to a method for preparing methyl mercaptan, in batches or continuously, preferably continuously, said method including at least the following steps:

a) reacting at least one hydrocarbon feedstock in the presence of hydrogen sulphide (H_2S) and optionally sulphur (S) such as to form carbon disulphide (CS_2) and hydrogen (H_2);

b) reacting said carbon disulphide (CS_2) by hydrogenation in the presence of said hydrogen (H_2) obtained in step a) such as to form methyl mercaptan (CH3SH), hydrogen sulphide (H_2S) and possibly hydrogen (H_2);

c) optionally recirculating said hydrogen sulphide (H_2S) formed during step b) to step a); and d) recovering the methyl mercaptan.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/09/2016** **1591/2016** **December 2019** **15/06/2020** **29798**

(51)	**Int. Cl. [8] G01V 1/30, 1/36**
(71)	**1. BP CORPORATION NORTH AMERICA INC. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. ETGEN, John Theodore** **2. CHU, Chunlei** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 977,615 / 61 - 09-01-2014** **2. (US) 978,610 / 61 - 11-04-2014** **3. (PCT/US2015/024099) - 02-04-2015**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54)	**SEISMIC ADAPTIVE FOCUSING**
	Patent Period Started From 02/04/2015 and Will end on 01/04/2035

(57) A method for seismic exploration comprises: accessing a set of seismic data representative of a subterranean geological formation and a subsurface attribute model of the subterranean geological formation; performing a wavefield extrapolation on the seismic data in the subsurface attribute model; applying the time-shift extended imaging condition to the extrapolated wavefields; forming shot-indexed, time shift gathers for each image pixel of the subsurface attribute model from the conditioned extrapolated wavefields; adaptively focusing the gathers; and stacking the adaptively focused gathers; and imaging the subterranean geological formation from the stacked, adaptively focused gathers.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/11/2011** **1866/2011** **December 2019** **15/06/2020** **29799**

(51)	**Int. Cl. [8] G06Q 20/00 & G07F 7/10**
(71)	**1. Smk-Logomotion (Slovakia)** **2.** **3.**
(72)	**1. MASARYK, Michal** **2. FLOREK, Miroslav** **3. RIFFELMACHER, David, Alan**
(73)	**1.** **2.**
(30)	**1. (SK)00032 – 2009 - 03-05-2009** **2. (SK)50009 - 2010 - 27-03-2010** **3. (SK) 50012 -2010 - 08-04-2010** **4. (SK) 50016 - 2010 - 19-04-2010** **5. (PCT/IB2010/051915) - 01-05-2010**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54)	**A PAYMENT TERMINAL USING A MOBILE COMMUNICATION DEVICE, SUCH AS A MOBILE PHONE; A METHOD OF DIRECT DEBIT PAYMENT TRANSACTION**
	Patent Period Started From 01/05/2010 and Will end on 30/04/2030

(57) A payment terminal using a mobile communication device, such as a mobile phone, is located on a removable memory card, e.g. type microSD card, which is adjusted in such a way so it can be inserted into an additional hardware slot, e.g. memory slot. A payment POS terminal application runs on a removable memory card, which contains at least one payment card. The payment card's unit with the card's payment application is located in the secured part of the memory, separately from the terminal's configuration data unit. The configuration data of the terminal's selected identity and the payment card's data are located in the separate parts of the secure element or in completely independent secure elements or they can also be localized in the Sales Device of the merchant and there e.g. within the ICC card or SAM card.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/09/2015** **1367/2015** **December 2019** **15/06/2020** **29800**

(51)	**Int. Cl. [8] A01N 29/00, 29/04, 31/08, 33/00, 25/32, 41/00**
(71)	**1. DOW AGROSCIENCES LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. MANN, Richard, K.** **2. YERKES, Carla, N.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 788,672 /61 - 15-03-2013** **2. (PCT/US2014/022450) - 10-03-2014** **3.**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54)	**SYNERGISTIC HERBICIDAL COMPOSITION**
	Patent Period Started From 10/03/2014 and Will end on 09/03/2034

(57) Disclosed herein are herbicidal compositions comprising a synergistic herbicidally effective amount of (a) penoxsulam or an agriculturally acceptable salt thereof, or clomazone or an agriculturally acceptable salt thereof, and (b) benzobicyclon or an agriculturally acceptable salt thereof. Also disclosed herein are methods of controlling undesirable vegetation in rice, which comprise applying to vegetation or an area adjacent the vegetation or applying to soil or water to prevent the emergence or growth of vegetation (a) penoxsulam or an agriculturally acceptable salt thereof, or clomazone or an agriculturally acceptable salt thereof, and (b) benzobicyclon or an agriculturally acceptable salt thereof, wherein (a) and (b) are each added in an amount sufficient to produce a synergistic herbicidal effect.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/01/2016** **0069/2016** **January 2020** **18/06/2020** **29801**

(51)	**Int. Cl. [8] H04L 12/721 & H04W 74/08, 10/30**
(71)	**1. THALES (FRANCE)** **2.** **3.**
(72)	**1. Michel BOURDELLES** **2. Grégory GAILLIARD** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 1500090 - 16-01-2015** **2.** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) METHOD FOR COLLECTING ROUTING INFORMATION IN AN AD-HOC NETWORK AND ROUTE SELECTION METHOD BASED ON THE COLLECTED INFORMATION

Patent Period Started From 17/01/2016 and Will end on 16/01/2036

(57) Method for establishing a route between an initial node and a terminal node in an ad-hoc network comprising a plurality of mobile nodes, said method comprising: - a step of detection, by at least one first relay node of the network (N_4), of an information item concerning the of said first relay node (N_4) belonging to at least one path linking a first initial node (N_1) and a first terminal node (N_10) seeking to establish a communication link between them, and of distance from said first relay node (N_4) to the first initial node (N_1) and/or to the first terminal node (N_10), - a step of communication of the detected information item to at least one second node (N_2) not belonging to said at least one path linking the first initial node (N_1) and the first terminal node (N_10), - a step of selection of a route between an initial node (N_2) and a terminal node, said selection step being executed by an initial node as a function of the information detected and communicated to said initial node.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/04/2017** **0582/2017** **February 2020** **18/06/2020** **29802**

(51)	**Int. Cl. [8] C02F 1/463**	
(71)	**1. De Nora water technologies llc (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CASBEER, Dana** **2. KNIGHT, Larry** **3. MATOUSEK, Rudolf**	**4. BARIYA, Rubin**
(73)	**1.** **2.**	
(30)	**1. (US) 62/061,982 - 09-10-2014** **2. (PCT/US2015/053162) - 30-09-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) ELECROCOAGULATION REACTOR

Patent Period Started From 30/09/2015 and Will end on 29/09/2035

(57) An electrocoagulation reactor (ECR) apparatus and methods of using the ECR apparatus in the treatment of a fluid stream. The ECR apparatus includes a noncorrosive cylindrical cell housing a plurality of horizontally stacked electrode plates. The electrode plates are held in a pair of grooved, crescent shaped non-conductive inserts. The ECR apparatus further includes two end flanges each having integral flow diverters to facilitate a continuous single serpentine flow of the fluid in the cell. The ECR apparatus further includes a single flow inlet and single flow outlet.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/04/2017** **0645/2017** **February 2019** **18/06/2020** **29803**

(51)	**Int. Cl. [8] H04L 5/00 & H04W 72/00**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. DAMNJANOVIC, Jelena** **2. YOO, Taesang** **3. MALLIK, Siddhartha** **4. DAMNJANOVIC, Aleksandar** **5. CHENDAMARAI KANNAN, Arumugam**	**6. VAJAPEYAM, Madhavan, Srinivasan** **7. MALLADI, Durga,Prasad** **8. WEI, Yongbin** **9. LUO, Tao**
(73)	**1.** **2.**	
(30)	**1. (US) 62/068,416 – 24-10-2014** **2. (US) 62/075,624 - 05-11-2014** **3. (US) 62/068,416 - 29-09-2015** **4. (PCT/US2015/053081) - 30-09-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) FLEXIBLE MULTIPLEXING AND FEEDBACK FOR VARIABLE TRANSMISSION TIME INTERVALS

Patent Period Started From 30/09/2015 and Will end on 29/09/2035

(57) Methods, systems, and devices for wireless communication are described. A base station may employ a multiplexing configuration based on latency and efficiency considerations. The base station may transmit a resource grant, a signal indicating the length of a downlink (DL) transmission time interval (TTI), and a signal indicating the length of a subsequent uplink (UL) TTI to one or more user equipment (UEs). The base station may dynamically select a new multiplexing configuration by, for example, setting the length of an UL TTI to zero or assigning multiple UEs resources in the same DL TTI. Latency may also be reduced by employing block feedback, such as block hybrid automatic repeat request (HARQ) feedback. A UE may determine and transmit HARQ feedback for each transport block (TB) of a set of TBs, which may be based on a time duration of a downlink TTI.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/08/2013** **1349/2013** **January 2020** **18/06/2020** **29804**

(51)	**Int. Cl. [8] C04B 20/06, 28/14**	
(71)	**1. UNITED STATES GYPSUM COMPANY (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. SONG, Weixin D** **2. VEERAMASUNENI, Srinivas** **3. YU, Qiang**	**4. LI, Alfred** **5. LUAN, Wenqi**
(73)	**1.** **2.**	
(30)	**1. (US) 61/446,941 - 25-02-2011** **2. (PCT/US2012/026613) - 24-02-2012** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) LIGHTWEIGHT, REDUCED DENSITY FIRE RATED GYPSUM PANELS

Patent Period Started From 24/02/2012 and Will end on 23/02/2032

(57) A reduce weight, reduced density gypsum panel comprising a set gypsum core disposed between two cover sheets; the set gypsum core comprising a crystalline matrix of set gypsum and high expansion particles; the set gypsum core having a density of 40 pounds per cubic foot (640 kg/m3) or less and a core hardness of at least 11 pounds (5 kg).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/07/2016** **1119/2016** **February 2020** **08/06/2020** **29805**

(51)	**Int. Cl. [8] H04N 21/44, 21/845, 21/2343, 21/231, 21/24, 21/236**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. CHEN, Ying** **2. WANG, Ye-Kui** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/925,191 - 08-01-2014** **2. (US) 14/591,649 - 07-01-2015** **3. (PCT/US2015/010559) - 08-01-2015**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) CARRIAGE OF HEVC EXTENSION BITSTREAMS AND BUFFER MODEL WITH MPEG-2 SYSTEMS

Patent Period Started From 08/01/2015 and Will end on 07/01/2035

(57) A video decoder assembles, in a buffer model, an access unit from a plurality of elementary streams of a video data stream. The video data stream may be a transport stream or a program stream. The same buffer model is used regardless of whether the elementary streams contain Scalable High Efficiency Video Coding (SHVC), Multi-View HEVC (MV-HEVC), or 3D-HEVC bitstreams. Furthermore, the video decoder decodes the access unit.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/06/2016** **1038/2016** **February 2020** **18/06/2020** **29806**

(51)	**Int. Cl. [8] C01B 3/02**
(71)	**1. CASALE SA (SWITZERLAND)** **2.** **3.**
(72)	**1. FILIPPI, Ermanno** **2. OSTUNI, Raffaele** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13198994.9 - 20-12-2013** **2. (PCT/EP2014/077882) 16-12-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**PROCESS FOR PRODUCING AMMONIA SYNTHESIS GAS**
	Patent Period Started From 16/12/2014 and Will end on 15/12/2034

(57) A process and a related equipment for producing ammonia synthesis gas from a hydrocarbon-containing feedstock, the process comprising the steps of: primary reforming with steam, secondary reforming with an oxidant stream, and purification of the effluent of said secondary reforming, said purification comprising a step of shift conversion of carbon monoxide, wherein the synthesis gas produced by said secondary reforming is subject to a medium-temperature shift over a copper-based catalyst, and the global steam to carbon ratio of the process is not greater than 2.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/06/2017** **0955/2017** **February 2020** **18/06/2020** **29807**

(51)	**Int. Cl. [8] G21C 15/18 , 1/02 & F22B 1/08**
(71)	**1. JOINT-STOCK COMPANY SCIENTIFIC RESEARCH AND DESIGN INSTITUTE FOR ENERGY TECHNOLOGIES ATOMPROEKT (JSC "ATOMPROEKT") (Russian)**
(72)	**1. BEZLEPKIN, Vladimir Victorovich** **2. SIDOROV, Vladimir Grigorievich** **3. ALEKSEEV, Sergey Borisovich** **4. SVETLOV, Sergey Victorovich** **5. KUKHTEVICH, Vladimir Olegovich** **6. SEMASHKO, Sergey Evgenivich** **7. VARDANIDZE, Teymuraz Georgievich** **8. IVKOV, Igor Mihaylovich**
(73)	**1.** **2.**
(30)	**1. (RU) 2014148909 - 04-12-2014** **2. (PCT/RU2015/000780) - 16-11-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) SYSTEM FOR THE PASSIVE REMOVAL OF HEAT FROM A WATER-COOLED, WATER-MODERATED REACTOR VIA A STEAM GENERATOR

Patent Period Started From 16/11/2015 and Will end on 15/11/2035

(57) The invention relates to the field of nuclear engineering, and more particularly to systems for the passive removal of heat from water-cooled, water-moderated reactors via a steam generator, and is intended for cooling a reactor by the natural circulation of a coolant (water) in a loop within the system. The technical result is the improved efficiency of a heat sink, the improved stability of the flow of coolant in the loop and, as a result, the improved operating reliability of the system. The present passive heat removal system comprises at least one loop for circulating a coolant (water), containing a steam generator and a sectional heat exchanger, the latter being disposed inside a cooling water reserve tank, higher than the steam generator, and being connected to the steam generator by a supply pipe and a discharge pipe. The heat exchanger comprises an upper collector and a lower collector, connected by heat exchange pipes; start valves with different flow areas are mounted on the discharge pipe. Furthermore, the heat exchanger is divided into parallel sections according to the condition L/D>20, where L is the length of half of a section (i.e. a half-section), and D is the inside diameter of a collector. Portions of the supply and discharge pipes of the circulation loop are configured in the form of a set of branched parallel pipes which are connected individually to each of the aforementioned sections of the heat exchanger.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/05/2017** **0830/2017** **January 2020** **18/06/2020** **29808**

(51)	**Int. Cl. [8] G21C 15/247 & F04D 7/06, 29/046 & F16C 17/03**	
(71)	**1. JOINT STOCK COMPANY "AKME-ENGINEERING (RUSSIAN FEDERATION)** **2.** **3.**	
(72)	**1. SCHUTSKY, Sergey Yurievich** **2. AGRINSKIY, Andrei Nikolaevich** **3. PAVLOV, Nikolai Nikolaevich**	**4. BYKOV, Alexander Nikolaevich** **5. ORLOV, Boris Valentinovich** **6. SIMONOV, Nikita Igorevich**
(73)	**1.** **2.**	
(30)	**1. (RU) 2014146270 - 19-11-2014** **2. (PCT/RU2015/000790) - 16-11-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54)	**MOLTEN METAL TRANSFER PUMP**
	Patent Period Started From 16/11/2015 and Will end on 15/11/2035

(57) Molten metal transfer pump comprises a case, in which a shaft with the impeller mounted on the shaft is installed on the upper bearing and the lower journal plain bearing. The lower journal plain bearing is comprised of the rotor and stator parts. The rotor part is made in the form of two split bushings mounted on the shaft. And the stator part is made in the form of two split bushings fixed in the cage in axial alignment with the shaft. Bushings and are fixed correspondingly with flat rings and and composed of cylinder segments, equidistantly placed in a circumferential direction, located correspondingly in the cylindrical groove on the shaft and cylindrical groove of the cage and fixed with cone hold-down rings, radially, and with spring rings, axially. The pump has an easy-to-manufacture design of the lower journal bearing and excludes the possibility of bearing tearing, thus providing for improved reliability of the pump at its operation

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/03/2017** **0464/2017** **January 2020** **18/06/2020** **29809**

(51)	**Int. Cl. [8] C03C 13/00, 13/02, 3/087**	
(71)	**1. JUSHI GROUP CO,. LTD (CHINA)** **2.** **3.**	
(72)	**1. CAO, Guorong** **2. XING, Wenzhong** **3. ZHANG, Lin**	**4. GU, Guijiang**
(73)	**1.** **2.**	
(30)	**1. (CN) 201410486801.3 - 22-09-2014** **2. (PCT/CN2014/095400) - 29-12-2014** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) GLASS FIBER COMPOSITION, GLASS FIBER AND COMPOSITE MATERIAL THEREFROM

Patent Period Started From 29/12/2014 and Will end on 28/12/2034

(57) The present invention provides a glass fiber composition, glass fiber and composite material therefrom. the glass fiber composition comprises the following components expressed as percentage by weight: 58-63% SiO_2, 13-17% $A1_2O_3$, 6-11.8% CaO, 7-11% MgO, 3.05-8% SrO, 0.1-2% $Na_2O+k_2O+li_2O$, 0.1-1% fe203, 0-1% ce02 and 0-2%tio2, wherein a weight percentage ratio C1 = (MgO+SrO)/CaO is greater than 1. said composition greatly improves the refractive index of glass, significantly shields against harmful rays for humans and further reduces glass crystallization risk and production costs, thereby making it more suitable for large-scale production with refractory-lined furnaces.

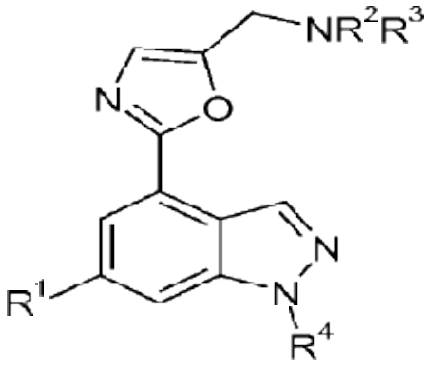
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/10/2011** **1833/2011** **December 2019** **18/06/2020** **29810**

(51)	**Int. Cl. [8] A61K 31/422, 31/4439, C07D 413/14 & A61P 35/00, 37/00, 11/00, 9/00, 25/00, 31/12**	
(71)	**1. GLAXO GROUP LIMITED (UNITED KINGDOM)** **2.** **3.**	
(72)	**1. PARR, Nigel, James** **2. LE, Joelle** **3. KEELING, Suzanne, Elaine**	**4. JONES, Paul, Spencer** **5. MITCHELL, Charlotte, Jane** **6. HAMBLIN, Julie, Nicole**
(73)	**1.** **2.**	
(30)	**1. (US) 61/174,033 - 30-04-2009** **2. (PCT/EP2010/055666) - 28-04-2010** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) OXAZOLE SUBSTITUTED INDAZOLES AS PI3-KINASE INHIBITORS

Patent Period Started From 28/04/2010 and Will end on 27/04/2030

(57) The invention is directed to oxazole substituted indazoles having the formula (I): and salts thereof, which act as inhibitors of kinase activity, in particular PI3-kinase activity.



(I)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/02/2001** **0185/2001** **March 2020** **23/06/2020** **29811**

(51)	**Int. Cl. [8] A61K 36/00 & A61P 3/10, 35/00**
(71)	**1. National Research Centre (EGYPT)** **2.** **3.**
(72)	**1. HANAN ABD EL HAII SAIEED** **2.** **3.**
(73)	**1. HANAN ABD EL HAII SAIEED** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**ISOLATION AND PURIFICATION OF PHARMACEUTICAL ACTIVE INGREDIENTS FROM BALANITEES AEGYPTIACA DEL AND ITS USE IN MEDICCAL PREPARTIONS**
	Patent Period Started From 26/02/2001 and Will end on 25/02/2021

(57) Balanites Aegyptiaca Del – Family Balanitaceae was used in isolation of secondary metabolites" active ingredients" for its high medical values for production of steroidal drug , hormones , cortisone . Saponins , glycosides, oils , coumarins , flavonoids, phenolics , alkaloids, sterols, phospholipids, terpenoids, carbohydrates, mucilage and fibers are isolated and purified for incorporation into pharmaceutical preparations according to their medical use . The active ingredients are used in preparations such as those for some dermal and cancer and viral diseases , also as anti diabetes and anthelmentic and for treatment of diseases caused by hepatic worms according to the pharmacopeia .& nbsp; The secondary metabolites are isolated from natural plants and also from different stages of cultured ones using plant cell and tissue culture technology to facilitate steady supply of the active ingredients.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/10/2011** **1740/2011** **January 2020** **23/06/2020** **29812**

(51)	**Int. Cl. [8] B 60C 9/28, B 60C 9/18**	
(71)	**1. PIRELLI TYRE S.P.A. (ITALY)** **2.** **3.**	
(72)	**1. MARTIN, Mario** **2. RESMINI, Emiliano** **3. MONTANARO, Fabio**	**4. ASCANELLI, Alessandro**
(73)	**1.** **2.**	
(30)	**1. (IT) MI2009A000683 - 22-04-2009** **2. (US) 61/213,851 - 21-07-2009** **3. (PCT/IB2010/000874) - 20-04-2010**	
(74)	**El-Deeb Patent OFFICE**	
(12)	**Patent**	

(54) HEAVY LOAD PNEUMATIC TIRE

Patent Period Started From 20/04/2010 and Will end on 19/04/2030

(57) The present invention discloses a novel apparatus and methods for augmenting the power of a gas turbine engine, improving gas turbine engine operation, and reducing the response time necessary to meet changing demands of a power plant. Improvements in power augmentation and engine operation include additional heated compressed air injection, steam injection, water recovery, exhaust tempering, fuel heating, and stored heated air injection

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/04/2012** **0637/2012** **January 2020** **23/06/2020** **29813**

(51)	**Int. Cl. [8] E21B 21/06, 43/00**
(71)	**1. M-I L.L.C. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. NEWMAN, Paul** **2. MARKANOVIC, Zoran** **3. KAPILA, Mukesh**
(73)	**1.** **2.**
(30)	**1. (US) 61/249,134 - 06-10-2009** **2. (PCT/US2010/051665) - 06-10-2010** **3.**
(74)	**El-Deeb Patent OFFICE**
(12)	**Patent**

(54) SYSTEM AND METHOD FOR HYDROCARBON REMOVAL AND RECOVERY FROM DRILL CUTTINGS

Patent Period Started From 06/10/2010 and Will end on 05/10/2030

(57) The present invention relates to a system and a method for the extraction of hydrocarbons from drill cuttings in drilling mud. The system for extracting hydrocarbons from drill cuttings includes at least one extraction tank, a carbon dioxide tank fluidly connected to the at least one extraction tank, and at least one separation tank in fluid communication with the at least one extraction tank. The method for extracting hydrocarbons from drill cuttings consists of exposing the drill cuttings to liquid carbon dioxide, solubilizing hydrocarbons from the drill cuttings with the liquid carbon dioxide, heating the liquid carbon dioxide and the soluble hydrocarbons to convert liquid carbon dioxide to carbon dioxide vapor, separating the hydrocarbons from the carbon dioxide vapor, and collecting the separated hydrocarbons.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**31/01/2005** **0018/2005** **January 2020** **23/06/2020** **29814**

(51)	**Int. Cl. [8] F25J 1/00**	
(71)	**1. CONOCOPHILLIPS COMPANY (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. BAUDAT, Ned, P** **2. YAO, Jame** **3. LEE, Rong-Jwyn**	**4. EATON, Anthony, P** **5. HAHN PAUL** **6. RITCHIE,PHILLIP**
(73)	**1.** **2.**	
(30)	**1. (US) 294112 /10 - 13-11-2002** **2. (PCT/US2003/035657) - 10-11-2003** **3.**	
(74)	**HODA AHMAD ABD EL HADY**	
(12)	**Patent**	

(54) **ENHANCED METHANE FLASH SYSTEM FOR NATURAL GAS LIQUIFACTION**

Patent Period Started From 10/11/2003 and Will end on 09/11/2023

(57) Natural Gas Liquefication system employing an open methane cycle wherein the liquefied natural gas is flashed immediately upstream of the liquefied natural gas storage tank and boil off vapors from the tank are returned to the open methane cycle.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/01/2016** **2016/0048** **February 2020** **23/06/2020** **29815**

(51)	**Int. Cl. [8] H04N 19/186, 19/70, 19/46**
(71)	**1. THOMSON LICENSING (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. ANDRIVON, PIERRE** **2. BORDES, PHILIPPE** **3. JOLLY, EMMANUEL**
(73)	**1.** **2.**
(30)	**1. (EP) 13306010.3 - 15-07-2013** **2. (EP) 13306068.1 - 24-07-2013** **3. (EP) 13306291.9 - 23-09-2013** **4. (EP) 13306707.4 - 12-12-2013** **5. (PCT/EP2014/064783) - 10-07-2014**
(74)	**YOUSSEF M. JOSEPH**
(12)	**Patent**

(54) METHOD FOR ENCODING AND METHOD FOR DECODING A COLOUR TRANSFORM AND CORRESPONDING DEVICES

Patent Period Started From 10/07/2014 and Will end on 09/07/2034

(57) A method for encoding a colour transform is disclosed that comprises: - encoding first parameters representative of video signal characteristics of colour output decoded pictures remapped by said at least one color transform; and - encoding second parameters representative of said at least one colour transform.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/11/2013** **1822/2013** **April 2020** **30/06/2020** **29816**

(51)	**Int. Cl. [8] A01N 25/00, 25/02, 33/06, 43/713 & A01P 7/00**
(71)	**1. INNOVATIVE RESEARCH AND DEVELOPMENT (INRAD) (EGYPT)** **2.** **3.**
(72)	**1. TAREK ABDALLAH ELTAYEB AHMED** **2. MAHMOUD HASHEM ABDEL-KADER** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**Adel hanafy abd el aleem**
(12)	**Patent**

(54)	**A formula for mosquitoes larvae control containing Sunlight Active Formulated Extract**
	Patent Period Started From 27/11/2013 and Will end on 26/11/2033

(57) This invention aims at providing an innovative method and formula that uses a water insoluble Chlorophyll (the green substance in plants) derivative such as Pheophorbide and Pheophytin against Anopheles, Aedes and Culex mosquito larvae species. This occurs when a mosquito larva feeds on the particles of the active substance while breathing fresh air on the surface of stagnant water. The mixture that ensures the success of this method consists of an active substance that could be Pheophorbide or Pheophytin at a percentage between 0.2 and 2%. The remaining percentage is 1% mosquito larvae attractant like autolyzed dry yeast and the remaining percentage is the carrier material that consists of natural sand or talc powder or other substances. In this case the end formula is water insoluble powders form. This mixture is only effective in the mosquito larval body and ineffective elsewhere. Its activity starts when it enters the digestive tract of a mosquito larva, it is then activated when it is subjected to sunlight that penetrates the larval body, thus ensuring the safety of this mixture for other organisms.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/09/2015** **1572/2015** **April 2020** **30/06/2020** **29817**

(51)	**Int. Cl. [8] B01D 1/30, 29/44, 29/80, 33/62 & F16L 101/14**
(71)	**1. MAMDOUH HELMY SADDIEK (EGYPT)** **2.** **3.**
(72)	**1. MAMDOUH HELMY SADDIEK** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**EVAPORATOR FOR DRYING CONDENSED WATER AND INCREASING THE UPPER TEMPERATURE LIMIT FOR SPLIT AIR CONDITIONERS**
	Patent Period Started From 21/09/2015 and Will end on 20/09/2035

(57) The present invention relates to a water evaporator for drying condensed water drainage out of split air-conditioners during its activation on cooling status. -   the aqua-evaporator comprises a film of fibers for drying water flowing thereto. -   the aqua-evaporator is placed onto air inlet of outer unit of split air-conditioners.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/11/2016** **1801/2016** **April 2020** **30/06/2020** **29818**

(51)	**Int. Cl. [8] C 01 B 37/02&B 03 C 1/01**
(71)	**1. YASSER ABDUL MOTALIB ABDUL HADY ABDUL MOTALIB (EGYPT)** **2.** **3.**
(72)	**1. YASSER ABDUL MOTALIB ABDUL HADY ABDUL MOTALIB** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**MAGNETO NANO WASTEWATER TREATMENT**
	Patent Period Started From 03/11/2016 and Will end on 02/11/2036

(57) wastewater treatment by new technology of water purification (magnetic iron nanocomposite with poly-hydroxyl acid and poly vinyl alcohols and poly-acrylamides and TiO_2 coated on feldspars; and agriculture wastes such as (rice straw and saw dust) that has no water solubility. these nano materials have combined with each other by electrostatic bonds and hydroxyl bonds which have ability to remove different pollutants such as heavy(copper/iron/aluminum/manganese); organic pollutants(colored dyes) and inorganic pollutants (nitrogen compounds (nitrate/ nitrite and organo-nitrogenous compounds) and phosphate compounds) microbial contaminants (bacteria/virus/parasites

these nanocomposite had ability to remove all pollutants with high efficiency and high reduction percent .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/12/2016** **2133/2016** **April 2020** **30/06/2020** **29819**

(51)	**Int. Cl. [8] A01N 43/00**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. REFAT ABDEL-KAWY AHMED YOUSEF** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54) NUTRITIONAL COMPOSITION, INSECTICIDE AND PLANT DISEASE RESISTANT

Patent Period Started From 29/12/2016 and Will end on 28/12/2036

(57) The present invention relates to nutritional composition, insecticide and plant disease resistant. Shot hole disease causes significant reduction in peach and apricot trees crops. According to our studies, said disease is a bacterial and fungal one that causes reduction in necessary elements such as potassium, zinc & boron. It is therefore necessary to control bacteria and fungi as well as addition of necessary nutritional elements to increase plant resistance for such disease. Thus, production of composition containing antibacterial and potassium, zinc and boron as a nutritional elements is necessary .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/01/2017** **0157/2017** **April 2020** **30/06/2020** **29820**

(51)	**Int. Cl. [8] A 23 L 11/00& A 23 C 20/ 02**
(71)	**1. MASOUD MOHAMED ABD ELLATIF (EGYPT)** **2.** **3.**
(72)	**1. MASOUD MOHAMED ABD ELLATIF** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**FATHY MOHAMED ABD EL LATIF**
(12)	**Patent**

(54)	**A PRODUCT OF DRIED CHIPS AND ITS PRODUCTION PROCESS**
	Patent Period Started From 30/01/2017 and Will end on 29/01/2037

(57) The current product is a dried product of Ta'miya chips, a mixture of peeled fava beans or chickpeas and vegetables, chips are packed with high quality, safe and healthy.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/03/2017** **0343/2017** **April 2020** **30/06/2017** **29821**

(51)	**Int. Cl. [8] B01J 20/04, 20/30**	
(71)	**1. SCIENCE AND TECHNOLOGY DEVELOPMENT FUND (Egypt)** **2.** **3.**	
(72)	**1. HEBA AHMED HANI ALI** **2. MOHAMMED HASSAN SOROUR** **3. HAYAM FAHIM SHAALAN** **AMANI ABD EL-MONEIM MOSTAFA**	**5. MAYADA HOSNY EL-SAYED** **6. EMAN SAMIR SAYED** **7. MOHAMMED SALAH IBRAHIM**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**MARWA ALAA EL DIN ABD EL MAJID MOHAMED**	
(12)	**Patent**	

(54)	**AN ADSORBENT FOR LITHIUM RECOVERY FROM SEAWATER OR SALINE SOLUTIONS AND A METHOD FOR PREPARATION**
	Patent Period Started From 05/03/2017 and Will end on 04/03/2037

(57) The present invention is considered with an adsorbent for selective lithium recovery from seawater or saline solutions. This is done through preparation of lithium manganese oxide spinel ($H_{1.1}Li_{0.08}Mn_{1.73}O_{4.05}$) using semi-dry method with different manganese and lithium salts. This includes grinding, drying and thermal treatment followed by acid treatment. This method results in a homogeneous product of 500 nm ±5±% nanoparticles at pH 12 where lithium adsorption capacity approaches 50 mg/g using only one firing route in preparation .

Arab Republic of Egypt
Ministry of State for Scientific Research
Academy of Scientific Research & Technology

GRANTED PATENTS' ABSTRACTS GAZETTE

"PATENTS ISSUED IN JULY 2020 "

Egyptian Patent Office

Issue No 290 **AUGUST 2020**

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

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I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

Bibliographic data	symbol
Patent Number	11
Patent Kind	12
Application Number	21
Filing Date	22
Priority Number Priority Date Priority Country	30
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Applicant Name	71
Inventor Name	72
Patentee Name	73
Patent Attorney Name	74

List of Codes of Countries and Regional Organisations Administered by the World Intellectual Property Organisation

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ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

افتتاحية

يعد البحث العلمى منبعاً ورافداً من أهم روافد المعرفة والمعلومات التى تنهض بالمجتمع وتثرى فكره مما يحقق التنمية الاقتصاديةو التكنولوجية المنشودة ، ولما كان الاهتمام بحقوق الملكية الفكرية مطلباً ضرورياً من مطالب المعرفة والتنمية والتى تزود المخترعين والمبدعين بحقوق قانونية لحماية إبداعاتهم الفكرية والتى يترتب عليها حماية الحقوق المالية والأدبية لهؤلاء المبدعين ، كما أنها تنظم وتحمى إبداعاتهم .

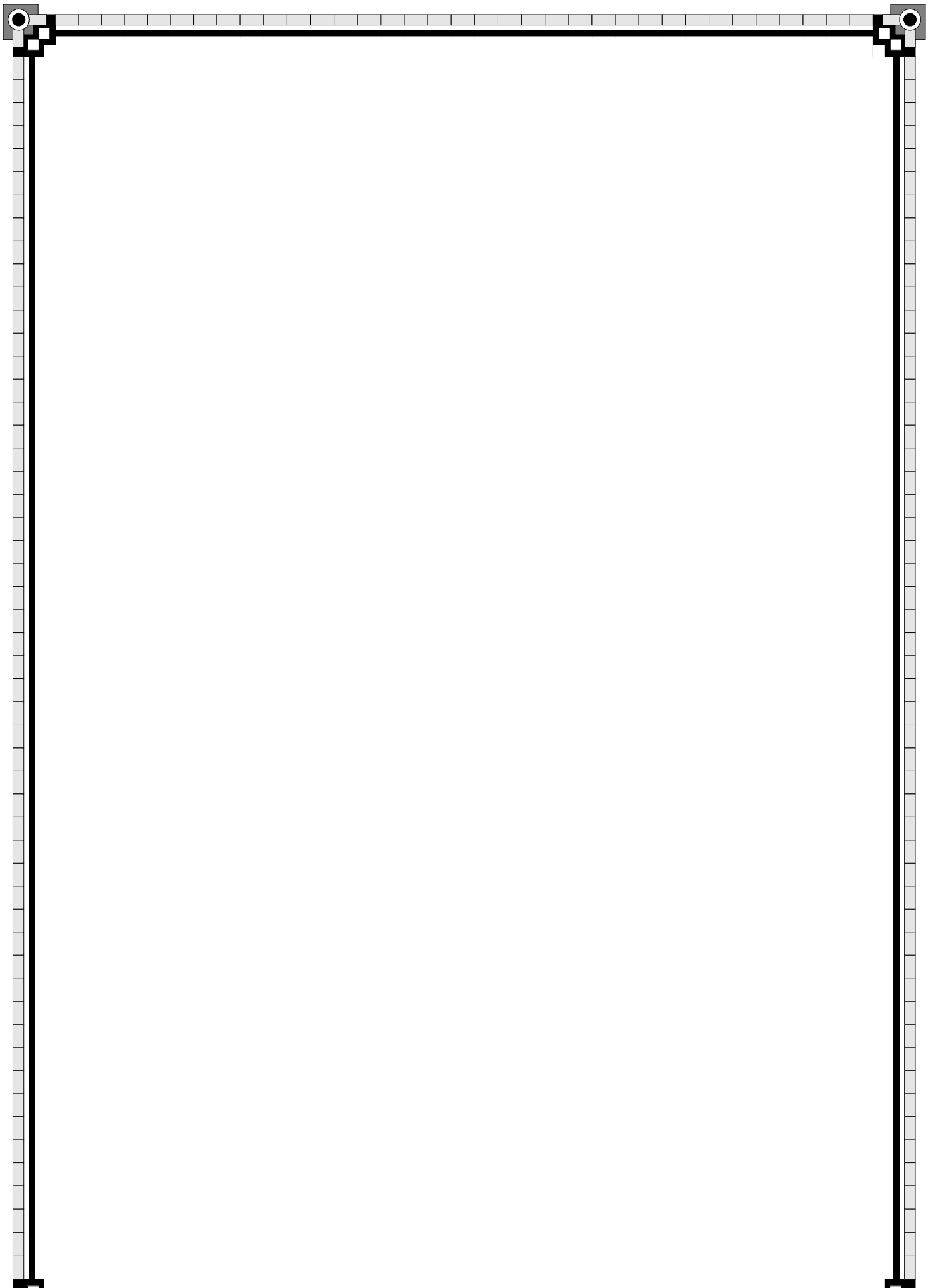
وفى إطار رعاية أكاديمية البحث العلمى والتكنولوجيا للباحثين والعلماء والمبدعين والعمل على ربط البحث العلمى بالصناعة تم إنشاء وتشغيل الشبكة الإلكترونية والتى ترتكز على إنشاء نقاط اتصال إلكترونية بين مكتب براءات الاختراع ومراكز المعلومات العلمية والتكنولوجية فى الجامعات والمراكز والشركات على مستوى جميع محافظات مصر لتحقيق التكامل والتلاحم بينها حتى يمكن ترجمة المعلومات التكنولوجية التى تحتويها وثائق براءات الاختراع إلى أصول إنتاجية تدفع بخطة التنمية إلى الأمام .

ومن هنا جاء الاهتمام بنشر الوعى وثقافة المعلومات المتضمنة ببراءات الاختراع وتم الإصدار بنشرة الأوصاف المختصرة للبراءات الصادرة بهدف إلقاء المزيد من الضوء على الاتجاهات التكنولوجية الحديثة فى المجالات المختلفة والاستفادة الكاملة من البيانات والمعلومات الثرية التى يتضمنها هذا الوعاء المعلوماتى المهم للوقوف على أحدث التقنيات والعمل على تطويرها ؛ مما يؤدى إلى دفع عملية تنمية التكنولوجيا لمصرنا الحبيبة .

والله ولى التوفيق ،،،

رئيس مكتب براءات الاختراع

" د. منى محمد محمد يحيى "



الأوصاف المختصرة
للبراءات الصادرة
خلال شهر يوليو 2020

ABSTRACTS
FOR
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JULY (2020)

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Inventor Name	**72**
Patentee Name	**73**
Patent Attorney Name	**74**

Prepared
by

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Supervised
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Dr. Mona M. Yehia **Egyptian Patent Office**

Publisher : Egyptian Patent Office

Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

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Dr. Mona M. Yehia **Egyptian Patent Office**

إعـداد

أ. اميمة الفولى

أ. سامية بدرباسم

أ. هدى جلال عبده

مراجعة

الاستاذة/ دينار عادل

إشـراف

د / منى محمد محمد يحيى رئيس مكتب براءات الاختراع

الناشـر : مكتب براءات الاختراع

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/09/2011** **1577/2011** **March 2020** **06/07/2020** **29822**

(51)	**Int. Cl. [8] A61K 35/644, 36/235, 36/48, 36/63, 36/71 & A61P 17/00**
(71)	**1. ASMAA ZAKARIA ABD EL TAHER (EGYPT)** **2.** **3.**
(72)	**1. ASMAA ZAKARIA ABD EL TAHER** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54) COMPOSITION FOR THE TREATMENT OF DISEASE LIPOMA

Patent Period Started From 21/09/2011 and Will end on 20/09/2031

(57) An ointment formulation put on the surface of skin for treatment of lipoma consisting of bees wax 7%, olive oil 59%, fennel 7% , black seed 9% and bitter lupine 18%.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**31/07/2017** **1263/2017** **January 2020** **06/07/2020** **29823**

(51)	**Int. Cl. [8] B26B 21/24&21/40**
(71)	**1. MACK-RAY, INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. LIBERATORE, Raymond A** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 62/110,595 - 01-02-2015** **2. (US) 62/249,578 - 20-11-2015** **3. (PCT/US2016/015898) - 01-02-2016**
(74)	**BAHER MOHAMED HAFEZ MANSOUR**
(12)	**Patent**

(54)	**DUAL SIDED RAZOR**
	Patent Period Started From 01/02/2016 and Will end on 31/01/2036

(57) One embodiment of a dual sided razor comprises a handle and a cartridge attached to the handle, the cartridge further comprising a first shaving side and a second shaving side, the cartridge being switchable relative to the handle between the first and second shaving sides.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/04/2017** **0674/2017** **January 2020** **06/07/2020** **29824**

(51)	**Int. Cl. [8] B01D 53/14,53/78**
(71)	**1. GLASSPOINT SOLAR, INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. O'DONNELL, John, Setel** **2. VON BEHRENS, Peter, Emery** **3. BRODRICK, Philip, Gregory**
(73)	**1.** **2.**
(30)	**1. (US) 62/067.826 - 23-10-2014** **2. (PCT/US2015/056530) - 20-10-2015** **3.**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54) GAS PURIFICATION USING SOLAR ENERGY, AND ASSOCIATED SYSTEMS AND METHODS

Patent Period Started From 20/10/2015 and Will end on 19/10/2035

(57) Techniques for purifying gases, and associated systems and methods are disclosed. A representative system includes an absorption vessel that can separate impurities from an input gas, a regeneration vessel that can release the impurities from the solvent, a rich solvent storage vessel, and a lean solvent storage vessel. The system can include a solar concentrator array and a thermal storage unit for storing the thermal energy generated by the solar concentrator array.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/12/2013** **1919/2013** **January 2020** **06/07/2020** **29825**

(51)	**Int. Cl. [8] H04N 7/26, 7/50 & H03M 7/42**		
(71)	**1. GE Video Compression LLC (UNITED STATES OF AMERICA)** **2.** **3.**		
(72)	**1. PREISS, Matthias** **2. SIEKMANN, Mischa** **3. STEGEMANN, Jan**	**4. GEORGE, Valeri** **5. WIEGAND, Thomas** **6. NGUYEN, Tung**	**7. BROSS, Benjamin** **8. KIRCHHOFFER, Heiner** **9. MARPE, Detlev**
(73)	**1.** **2.**		
(30)	**1. (US) 61/497,794 - 16-06-2011** **2. (US) 61/508,506 - 15-07-2011** **3. (PCT/EP2012/061614) - 18-06-2012**		
(74)	**NAHED WADIH RIZK**		
(12)	**Patent**		

(54) CONTEXT INITIALIZATION IN ENTROPY CODING

Patent Period Started From 18/06/2012 and Will end on 17/06/2032

(57) A decoder for decoding a video from a data stream into which syntax elements are coded using binarizations of the syntax elements, comprises an entropy decoder configured to derive a number of bins of the binarizations from the data stream using binary entropy decoding by selecting a context among different contexts and updating probability states associated with the different contexts, dependent on previously decoded portions of the data stream; a desymbolizer configured to debinarize the binarizations of the syntax elements to obtain integer values of the syntax elements; a reconstructor configured to reconstruct the video based on the integer values of the syntax elements using a quantization parameter, wherein the entropy decoder is configured to distinguish between 126 probability states and to initialize the probability states associated with the different contexts according to a linear equation of the quantization parameter, wherein the entropy decoder is configured to, for each of the different contexts, derive a slope and an offset of the linear equation from first and second four bit parts of a respective 8 bit initialization value.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/02/2012** **0236/2012** **January 2020** **06/07/2020** **29826**

(51)	**Int. Cl. [8] E21B 34/10, 34/14, 23/04, 23/06, 21/10**	
(71)	**1. BAKER HUGHES INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. JACOB, Jobby, T** **2. CLEM, Nicholas, J** **3. COCHRAN, Travis, E**	**4. FIGUEROA, Hugo** **5. CHAMBERS, Clay, E**
(73)	**1.** **2.**	
(30)	**1. (US) 12/545.710 - 21-08-2009** **2. (US) PCT/US2010/045258 - 12-08-2010** **3.**	
(74)	**NAHED WADIH RIZK TARZE**	
(12)	**Patent**	

(54) SLIDING SLEEVE VALVE LOCKING ASSEMBLY AND USE THEREOF

Patent Period Started From 12/08/2010 and Will end on 11/08/2030

(57) Systems and methods for locking a sliding steeve valve in an open position and/or a closed position to prevent inadvertent operation of the sleeve valve during other operations.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/02/2017** **0305/2017** **January 2020** **06/07/2020** **29827**

(51)	**Int. Cl. [8] C02F 1/467, 1/461 & C25B 11/04, 1/26**
(71)	**1. Industrie de Nora S.P.A. (ITALY)** **2.** **3.**
(72)	**1. IACOPETTI, Luciano** **2. CALDERARA, Alice** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) MI2014A001838 - 27-10-2014** **2. (PCT/EP2015/074609) - 23-10-2015** **3.**
(74)	**NAHED WADIH RIZK TARZE**
(12)	**Patent**

(54) ELECTRODE FOR ELECTROCHLORINATION PROCESSES AND METHOD OF MANUFACTURING THEREOF

Patent Period Started From 23/10/2015 and Will end on 22/10/2035

(57) The invention relates to an electrode suitable for electrolytic treatments of dilute solutions of sodium chloride even at low temperatures. The electrode can be used in the generation of active chlorine-based biocidal agents in ballast water for marine applications. The electrode has a titanium substrate, an inner catalytic coating containing oxides of tantalum, ruthenium and iridium, and an outer catalytic coating containing oxides of titanium, ruthenium and of at least one of nickel, iron and cobalt.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/03/2016** **0523/2016** **January 2020** **08/07/2020** **29828**

(51)	**Int. Cl. [8] C10M 103/06 & C23C 18/16, 18/32 & E21B 17/042 & F16L 58/18 & F16B 33/00 & F16L 15/00**
(71)	**1. VALLOUREC OIL AND GAS FRANCE (FRANCE)** **2. Nippon steel sumitomo metal corporation (JAPAN)** **3.**
(72)	**1. MILLET, Cécile** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 1359528 - 02-10-2013** **2. (PCT/EP 2014/069362) - 11-09-2014** **3.**
(74)	**COMPANY SMAS OF THE IP**
(12)	**Patent**

(54)	**CONNECTING ELEMENT FOR A TUBULAR COMPONENT OVERLAID WITH A METALLIC COMPOSITE DEPOSIT AND METHOD OF OBTAINING SUCH ELEMENT**
	Patent Period Started From 11/09/2014 and Will end on 10/09/2034

(57) The invention concerns a connecting element for a tubular component, said connecting element being overlaid with a coating comprising a principal layer constituted by a nickel-phosphorus alloy. The invention also concerns a tubular component comprising one or more such connecting elements, as well as a method for producing such a connecting element.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/07/2018** **1081/2018** **February 2020** **08/07/2020** **29829**

(51)	**Int. Cl. [8] B65D 6/22 & H02B 1/46**
(71)	**1. IDE ELECTRIC, S.L. (SPAIN)** **2.** **3.**
(72)	**1. MONTAvES ABOS, Raquel** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (SP) P201630006 - 07-01-2016** **2. (PCT/ES2016/070848) - 30-11-2016** **3.**
(74)	**SMAS IP**
(12)	**Patent**

(54)	**MULTI-DIRECTIONAL HINGED CONNECTION SYSTEM FOR USE BETWEEN ELECTRICAL BOXES AND THE CORRESPONDING COVERS OR FRAMES THEREOF**
	Patent Period Started From 30/11/2016 and Will end on 29/11/2036

(57) The invention relates to a hinged connection system for use between electrical boxes and the corresponding covers or frames thereof, comprising: at least one bridge connecting the box and the cover or frame thereof; and hinged anchors for the ends of the bridge, located on at least one side of the box and the cover or frame, such that the cover can be opened in multiple directions. In addition, at least one of the anchors for each bridge comprises means that can be moved in a direction perpendicular to the corresponding open edge of the box or the frame or cover, from an internal position for the bridge when closed to another external open position, allowing the bridge to be be moved to the exterior during the opening of the cover or frame.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/12/2014** **2002/2014** **January 2020** **08/07/2020** **29830**

(51)	**Int. Cl. [8] C 21B 13/00, C 21B 3/04, C 21B 3/08, F 23L 15/04, F 28F 1/10**
(71)	**1. G.A.P. S.P.A (ITALY)** **2.** **3.**
(72)	**1. ZUCCHI, Francesco** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) RM2012A000280 - 15-06-2012** **2. (PCT/IB2013/054556) - 03-06-2013** **3.**
(74)	**Nahed Wadei Rezq**
(12)	**Patent**

(54) DEVICE FOR RECOVERING HEAT AND FUMES FROM SLAG RESULTING FROM THE STEEL PRODUCTION CYCLE

Patent Period Started From 03/06/2013 and Will end on 02/06/2033

(57) Described is a device for recovering heat and fumes from slag resulting from the steel production cycle which allows the heat emitted by the slag during the cooling to be used without the need to collect the slag in tubs which must then be transported to the cooling surface and tipped in order to discharge the slag; at the same time, this device allows the fumes and consequently the heat and the pollutants which the slag emits during the tipping and the time on the cooling surface to be conveyed and treated.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/04/2015** **0582/2015** **February 2020** **08/07/2020** **29831**

(51)	**Int. Cl. [8] H02G 3/18, 9/10 & G02B 6/44**
(71)	**1. Channell Commercial Corporation (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. BURKE, Edward, J** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/720.297 - 30-10-2012** **2. (US)13/830.670 - 14-03-2013** **3. (PCT/US2013/067148) - 28-10-2013**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) ENHANCED STRENGTH GRADE GRADE LEVEL UTILITIES ENCLOSURE

Patent Period Started From 28/10/2013 and Will end on 27/10/2033

(57) An enhanced strength grade level utility enclosure comprises a vertical wall structure having an upright inner wall panel extending from an upper edge to a bottom edge of the structure. The inner wall panel has an inside face spanning the enclosure's interior. One or more narrow, vertically extending slotted regions are recessed in the inside face of the wall panel. Upright rigid support bars, optionally adapted for use as cable racks, are positioned in and rigidly affixed to separate slotted regions on the wall panel. The support bars provide a continuous means of rigid vertical support from the upper edge down to the bottom edge of the enclosure's wall structure. The recessed support bars, in combination with the vertical wall structure, provide enhanced wall strength in excess of industrial vertical side wall and center load test standards.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/06/2016** **0906/2016** **January 2020** **08/07/2020** **29832**

(51)	**Int. Cl. [8] C08K 5/00, 5/14 & H01B 9/00, 7/02**	
(71)	**1. Borealis AG (AUSTRIA)** **2.** **3.**	
(72)	**1. HAGSTRAND, Per-Ola** **2. ENGLUND, Villgot** **3. SMEDBERG, Annika**	**4. FARKAS, Andreas** **5. OLSSON, Carl-Olof**
(73)	**1.** **2.**	
(30)	**1. (EP) 13198411.4 - 19-12-2013** **2. (PCT/EP2014/067629) - 19-08-2014** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) A NEW CROSSLINKED POLYMER COMPOSITION, POWER CABLE INSULATION AND POWER CAB

Patent Period Started From 19/08/2014 and Will end on 18/08/2034

(57) The present invention relates to a crosslinked polymer composition, which is obtained by crosslinking a polymer composition, which polymer composition has a melt flow rate (MFR) of at least 1.7 and comprises a polyolefin, peroxide and sulphur containing antioxidant, characterised by that the crosslinked polymer composition has an Oxidation Induction Time, determined according to ASTM-D3895, ISO/CD 11357 and EN 728 using a Differential Scanning Calorimeter (DSC), which Oxidation Induction Time corresponds to Z minutes, and comprises an amount of peroxide by-products which corresponds to W ppm determined according to BTM2222 using HPLC, wherein $Z_1 \geq Z \geq Z_2$, $W_1 \geq W \geq W_2$, and $W \geq p - Z * 270$, wherein Z_1 is 0, Z_2 is 60, W_1 is 0 and W_2 is 9500, and p is 18500.; and use thereof, a power cable insulation and a power cable, useful in high voltage (HV) and extra high voltage (EHV) cable applications direct current (DC) applications.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/02/2017** **0210/2017** **February 2020** **12/07/2020** **29833**

(51)	**Int. Cl. [8] H04L 29/06, 12/40**
(71)	**1. CHERY AUTOMOBILE CO., LTD (CHINA)** **2. WUHU POWER-TECHNOLOGY RESEARCH CO., LTD (CHINA)** **3.**
(72)	**1. WANG, Zhonglin** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (CN) 201410586534.7 - 28-10-2014** **2. (PCT/CN2015/091107) - 29-09-2015** **3.**
(74)	**AMR AL DEEB**
(12)	**Patent**

(54) MESSAGE TRANSMISSION METHOD AND DEVICE

Patent Period Started From 29/09/2015 and Will end on 28/09/2035

(57) The present invention relates to the field of automobile communications. Disclosed are a message transmission method and device. The method comprises: determining the current state of a gateway; generating, according to the current state of the gateway, indication information used for indicating the current state; and sending the indication information to a receiving unit. The present invention solves the problem of low stability of message transmission, achieves the effect of improving the stability of message transmission, and is used for message transmission in a network.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/06/2017** **0932/2017** **January 2020** **15/07/2020** **29834**

(51)	**Int. Cl. [8] B01D 35/14, 37/04 & C02F 1/00**
(71)	**1. FOSHAN VIOMI ELECTRICAL TECHNOLOGY CO.,LTD. (CHINA)** **2. CHEN, Xiaoping (CHINA)** **3. XIAOMI INC (CHINA)**
(72)	**1. XIAOMI INC** **2. CHEN, Xiaoping** **3. LIU, Xinyu**
(73)	**1.** **2.**
(30)	**1. (CN) 201410719342.9 - 03-12-2014** **2. (PCT/CN2015/092789) - 26-10-2015** **3.**
(74)	**MOHSEN ANWAR HASAN**
(12)	**Patent**

(54) WATER PURIFYING MACHINE COMPONENT AND CONTROL METHOD THEREOF

Patent Period Started From 26/10/2015 and Will end on 25/10/2035

(57) Disclosed is a structural improvement of an upper cover of an intelligent storage battery. A circuit mounting area and a terminal mounting area are provided on an upper surface of an upper cover body; a cap is fixedly covered on the circuit mounting area; a liquid crystal display screen and a circuit board are sequentially and flatly mounted on an inner lateral surface of a top plate of the cap; a conductive adhesive tape is clamped between one end of the liquid crystal display screen and a corresponding lateral plate of the cap; a connection terminal which is in corresponding contact with the bottom of the conductive adhesive tape for electrical connection and is formed by copper-cladding is arranged on the circuit board; and the top plate is inclined downward and outward. The inclined plate has a large mounting area, and can be correspondingly provided with a liquid crystal display screen with a large area, so that the display effect of the liquid crystal display screen is good; and furthermore, the conductive adhesive tape is staggered with the edge of the circuit board, and is in large-area reliable contact with the connection terminal formed by cladding copper on the circuit board, so that the reliability of electrical connection between the conductive adhesive tape and the connection terminal is improved

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/08/2013** **1271/2013 D1** **November 2019** **15/07/2020** **29835**

(51)	**Int. Cl. [8] H04N 7/26**
(71)	**1. VELOS MEDIA INTERNAITONAL LIMITED (Ireland)** **2.** **3.**
(72)	**1. TANAKA, Junichi** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2011-027896 - 10-02-2011** **2. (JP) 2011-047655 - 04-03-2011** **3. (JP) 2011-187179 - 30-08-2011** **4. (PCT/JP2012/050931) - 18-01-2012**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54) IMAGE PROCESSING DEVICE AND IMAGE PROCESSING METHOD

Patent Period Started From 18/01/2012 and Will end on 17/01/2032

(57) [Problem] To moderate the decrease of encoding efficiency accompanying the update of a quantization matrix. [Solution] Provided is an image processing device provided with: an acquisition unit for acquiring a quantization matrix parameter from an encoded stream wherein the quantization matrix parameter defining a quantization matrix is set in a parameter set different from a sequence parameter set and a picture parameter set; a setting unit for setting a quantization matrix to be used at the time of the inverse quantization of data decoded from the encoded stream, on the basis of the quantization matrix parameter acquired by the acquisition unit; and an inverse quantization unit for inverse quantization of the data decoded from the encoded stream using the quantization matrix set by the setting unit.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/12/2016** **1958/2016** **February 2020** **19/07/2020** **29836**

(51)	**Int. Cl. [8] E02D 3/054, 3/12**
(71)	**1. KELLER HOLDING GMBH (GERMANY)** **2.** **3.**
(72)	**1. WOLBER, Marc** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/EP2014/061520) - 03-06-2014** **2.** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) DEPTH VIBRATOR PIPE ASSEMBLY

Patent Period Started From 03/06/2014 and Will end on 02/06/2034

(57) The invention relates to a depth vibrator pipe assembly for connecting a depth vibrator to a device, comprising: a first pipe body, which can be connected to the device; a second pipe body, which can be connected to the depth vibrator; wherein the first pipe body and the second pipe body can be telescoped in relation to each other. The invention further relates to a device having such a pipe assembly and to a method for producing vibro columns.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/07/2017** **1153/2017** **February 2020** **19/07/2020** **29837**

(51)	**Int. Cl. [8] A61F 2/844, 2/90, 2/95**
(71)	**1. ASCYRUS MEDICAL, LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. SHAHRIARI, Ali** **2. LEOPOLD, Eric** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 62/102.094 - 11-01-2015** **2. (US) 62/185.750 - 29-06-2015** **3. (US) 62/237.531 - 05-10-2015** **4. (US) 62/259.045 - 23-11-2015** **5,\. (PCT/US2016/012845) - 11-01-2016**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54)	**HYBRID DEVICE FOR SURGICAL AORTIC REPAIR AND METHOD OF USING THE SAME**
	Patent Period Started From 11/01/2016 and Will end on 10/01/2036

(57) An assembly including a deployment device for deploying a stent device into an aorta of a patient is provided. The deployment device includes a rod translatable within an aorta of a patient and a first release wire configured for releasing one or more radially constraining members, wherein the radially constraining members are configured to constrain a diameter of the stent device. The stent device is at least partially permeable and engaged with the deployment device in an initial configuration, wherein a diameter and a length of the stent device in a deployed configuration can be altered by axial translation of the rod and releasing one or more of the radially constraining members by translation of the first release wire.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/10/2015** **1631/2015** **March 2020** **19/07/2020** **29838**

(51)	**Int. Cl. [8] H01R 25/16 & H02G 5/10**
(71)	**1. Electrical Intellectual Property Limited (Ireland)** **2.** **3.**
(72)	**1. Adrian Sheridan** **2. Damian McCauley** **3.**
(73)	**1.** **2.**
(30)	**1. (GB) UK1418037.6 - 13-10-2014** **2.** **3.**
(74)	**SHADY FAROUK MOBARAK**
(12)	**Patent**

(54)	**JOINT ASSEMBLY FOR A BUS DUCT**
	Patent Period Started From 08/10/2015 and Will end on 07/10/2035

(57) This invention relates to a joint assembly for a busduct and in particular to a joint assembly for coupling adjacent busduct sections together wherein the joint assembly incorporates a heat sink assembly.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/04/2012** **2012/0792** **December 2019** **26/07/2020** **29839**

(51)	**Int. Cl. [8] E02F 9/28**
(71)	**1. ESCO GROUP L L C (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. SNYDER, Christopher, D** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/256.561 - 30-10-2009** **2. (PCT/US2010/054218) -27-10-2010** **3.**
(74)	**HASSAN HASSAN MOUSTAFA**
(12)	**Patent**

(54) WEAR ASSEMBLY FOR EXCAVATING EQUIPMENT

Patent Period Started From 27/10/2010 and Will end on 26/10/2030

(57) Wear members for use in excavating include a socket having a front stabilizing end that includes a top surface, a bottom surface and side surfaces. At least one of these surfaces is formed with a transverse, inward projection and extends axially substantially parallel to the longitudinal axis of the socket. The socket may include surfaces that generally correspond to exterior surfaces of a nose on which it may be mounted and on which it may be connected to excavating equipment.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/02/2011** **0234/2011** **February 2020** **26/07/2020** **29840**

(51)	**Int. Cl. [8]** **A61F 6/18, 6/14, 6/12 & A61K 9/00**	
(71)	**1. BAYER SCHERING PHARMA OY (Finland)** **2.** **3.**	
(72)	**1. CALVO ALONSO, Ulla** **2. JUKARAINEN, Harri** **3. MACLEOD, Andrew** **LYYTIKAINEN, Heikki**	**5. WHITAKER, David** **6. JUTILA, Ilkka** **7. TJADER, Taina** **9. NOBLE, Michael**
(73)	**1.** **2.**	
(30)	**1. (FI) 20085870 - 17-09-2008** **2. (FI) 20085871 - 17-09-2008** **3. (PCT/FI2009/050738) - 16-09-2009**	
(74)	**NOUR & SELIM IN ASSOCIATION WITH AL TAMIMI & CO**	
(12)	**Patent**	

(54)	**Uterine Inserter**
	Patent Period Started From 16/09/2009 and Will end on 15/09/2029

(57) The present invention relates to an inserter for an intrauterine system comprising a handle, and an insertion tube having a first end and a second end, and being arranged in connection with the handle. The inserter is characterized in that the first end of the insertion tube comprises at least one frame slot for receiving a frame of the intrauterine system.The invention also relates to a kit comprising an inserter according to the present invention and an intrauterine system, wherein the intrauterine system comprises a therapeutic component and a continuous, closed frame, the therapeutic component being connected to the frameat least one point, and therapeutic component of the intrauterine system is at least mainly arranged inside the first end of the insertion tube and the frame of the intrauterine system is at least mainly arranged outside the first end of the insertion tube.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/08/2015** **1271/2015** **October 2019** **26/07/2020** **29841**

(51)	**Int. Cl. [8] H04N 19/51, 19/30, 21/438**	
(71)	**1. INTER DIGITAL VC HOLDINGS, INC (UNITED STATE OF AMERICA)** **2.** **3.**	
(72)	**1. BORDES, Philippe** **2. HIRON, Franck** **3. ANDRIVON, Pierre**	**5. LOPEZ, Patrick** **6. SALMON, Philippe**
(73)	**1.** **2.**	
(30)	**1. (EP) 13305203.5 - 22-02-2013** **2. (PCT/EP2014/053021) - 17-02-2014** **3.**	
(74)	**SOHAIR MIKHAEL RIZK**	
(12)	**Patent**	

(54) CODING AND DECODING METHODS OF A PICTURE BLOCK, CORRESPONDING DEVICES AND DATASTREAM

Patent Period Started From 17/02/2014 and Will end on 16/02/2034

(57) A method for decoding a picture block is disclosed. The decoding method comprises: - decoding at least one stream S_diff into decoded data and into one information for identifying a reconstructed reference picture in a decoder picture buffer;

- reconstructing a special reference picture from at least the identified reconstructed reference picture and from the decoded data;

- reconstructing the picture block from at least the special reference picture, wherein at least the special reference picture is not displayed

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/07/2015** **1089/2015** **April 2020** **27/07/2020** **29842**

(51)	**Int. Cl. [8] D05B 23/00 & D04B 15 /92**
(71)	**1. LONATI S.P. A. (ITALY)** **2.** **3.**
(72)	**1. LONATI, Ettore** **2. LONATI, Tiberio** **3. LONATI, Fausto**
(73)	**1.** **2.**
(30)	**1. (IT) MI2013A000050 - 16-01-2013** **2. (PCT/EP2013/076192) - 11-12-2013** **3.**
(74)	**MAGDA HARON**
(12)	**Patent**

(54) METHOD FOR CLOSING AUTOMATICALLY AN AXIAL END OF A TUBULAR MANUFACTURE AND FOR UNLOADING IT IN AN INSIDE-OUT CONFIGURATION, AND APPARATUS FOR PERFORMING THE METHOD

Patent Period Started From 11/12/2013 and Will end on 10/12/2033

(57) A method for closing automatically an axial end of a tubular manufacture and for unloading it in an inside-out configuration, and an apparatus for performing the method. The method according to the invention comprises a step of positioning the manufacture, in a right- way-out configuration, at a sewing or linking station, arranged so that its axis is substantially vertical and so that it hangs, by means of a first axial end to be closed by sewing or linking, from an annular handling device. In this step, the manufacture extends below the handling device. Then a step is performed for inserting the manufacture, retained by the handling device, into an upper reversing tube that is or can be positioned, with its lower axial end, above the handling device, for the passage of the manufacture through the handling device; this passage arranges the manufacture in the inside-out configuration. A step of closing the first axial end of the manufacture by sewing or linking is then performed. Then a step of disengaging the manufacture from the handling device and a step of removing the manufacture through the upper axial end of the upper reversing tube are performed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/06/2015** **0956/2015** **March 2020** **27/07/2020** **29843**

(51)	**Int. Cl. [8] B01J 31/14**
(71)	**1. IFP Energies Nouvelles (FRANCE)** **2.** **3.**
(72)	**1. MAGNA Lionel** **2. OLIVIER-BOURBIGOU Helene** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 14/56.470 - 04-07-2014** **2.** **3.**
(74)	**MAGDA HARON**
(12)	**Patent**

(54) IMPROVED PROCESS FOR THE SELECTIVE DIMERIZATION OF ETHYLENE TO 1-BUTENE

Patent Period Started From 14/06/2015 and Will end on 13/06/2035

(57) The invention concerns a process for the selective dimerization of ethylene to 1-butene employing a catalytic composition comprising at least one alkoxy or aryloxy titanium compound, at least one additive selected from ether type compounds and at least one aluminium compound.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/06/2016** **1071/2016** **February 2020** **29/07/2020** **29844**

(51)	**Int. Cl. [8] B32B 17/06, 37/00. 37/12**
(71)	**1. THOMAS HOFBERGER GMBH (GERMANY)** **2.** **3.**
(72)	**1. HOFBERGER, Thomas** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2013 114 856.5 - 23-12-2013** **2. (PCT/EP2014/078904) - 19-12-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) LAYER ASSEMBLY COMPRISING MINERAL MATERIAL AND GLASS AND METHOD FOR THE PRODUCTION THEREOF

Patent Period Started From 19/12/2014 and Will end on 18/12/2034

(57) A method for producing a layer assembly, wherein the layer assembly comprises a substrate, an outer layer and an adhesive layer arranged between the substrate and the outer layer and the adhesive layer makes at least partial contact with the substrate and the outer layer, comprises the step of: swivelling the substrate and the outer layer towards one another, such that the distance between the top substrate edge and the top outer layer edge decreases and the adhesive is moved in the direction of the top substrate edge and of the top outer layer edge; wherein this is carried out in such a manner that, during at least part of step B), the angle bisector of the angle α Adopts an angle of ≥ -45° to≥ 45° with respect to the vertical.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/04/2017** **0683/2017** **February 2020** **29/07/2020** **29845**

(51)	**Int. Cl. [8] H04W 52/02**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. ANG, Peter Pui Lok** **2. BURKE, Joseph Patrick** **3. JI, Tingfang** **4. BHUSHAN, Naga** **5. MUKKAVILLI, Krishna Kiran** **6. SORIAGA, Joseph Binamira** **7. SMEE, John Edward**
(73)	**1.** **2.**
(30)	**1. (US) 62/073,603 - 31-10-2014** **2. (US) 14/846,051 - 04-09-2015** **3. (PCT/US2015/048738) - 05-09-2015**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) DYNAMIC BANDWIDTH SWITCHING FOR REDUCING POWER CONSUMPTION IN WIRELESS COMMUNICATION DEVICES

Patent Period Started From 05/09/2015 and Will end on 04/09/2035

(57) Systems, methods, apparatuses, and computer-program products for performing dynamic bandwidth switching between control signals and data signals of differing bandwidths are disclosed. Frame formats are disclosed in which control signals are transmitted at different bandwidths than data signals. Receiver architectures for receiving the signaling formats are disclosed. A receiver can receive a relatively narrowband control signal while consuming a relatively low power and then dynamically adjust characteristics of various components to receive a data signal at a higher bandwidth while consuming a relatively higher power.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/08/2017** **1284/2017** **February 2020** **29/07/2020** **29846**

(51)	**Int. Cl. [8] F16K 35/14**
(71)	**1. MOKVELD VALVES B.V. (Netherlands)** **2.** **3.**
(72)	**1. JANSEN, Jelte Adriaan** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 15154113.3 - 06-02-2015** **2. (PCT/EP2016/050074) - 05-01-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) PIPE BRANCHING MANIFOLD AND METHOD OF OPERATING THE SAME

Patent Period Started From 05/01/2016 and Will end on 04/01/2036

(57) The invention relates to a pipe branching manifold and to a method of operating the same, the pipe branching manifold having a multitude of pipe branches, each having an entry block valve, an exit block valve, and a bleed outlet with a bleed valve between the entry the exit block valves, wherein in a standard operation of each pipe branch, the respective entry block valve and exit block valve are open, and the respective bleed valve is closed, and wherein in a test or maintenance operation, the respective entry block valve and exit block valve are closed, and the respective bleed valve is open, and the manifold having a selector means for selecting either none or one out of the pipe branches for switching from standard operation to test operation or maintenance operation, wherein the selector means allows only the one entry block valve of the selected pipe branch to be closed, which subsequently allows the respective bleed valve and exit block valve to be opened and closed to switch to test operation or to maintenance operation respectively. The invention suggests that the selector means has a standard blocking element, and a test permitting element, and that each of the entry block valves has an entry control means with a standard blocking counter element positively fitting to the standard blocking element, and with a test permitting counter element positively fitting to the test permitting element.

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

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ST	Saotome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TD	Chad
TG	Togo
TJ	Tajikistan
TH	Thailand
TM	Turkmenistan
TN	Tunisia
TR	Turkey
TT	Trindad and Topago
TW	Taiwan
TZ	United Republic of Tanzania
UA	Ukraine
UG	Uganda
US	United States of America
UY	Uruguay
UZ	Uzbekistan
VC	Saint Vincent and the Grenadines

Code	Country
VE	Venezuela
VN	Viet Nam
YD	Yemen
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
AUGUST (2020)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/01/2017** **0104/2017** **March 2020** **04/08/2020** **29847**

(51)	**Int. Cl. [8] F22D 1/50**	
(71)	**1. JOINT STOCK COMPANY "SCIENCE AND INNOVATIONS" ("SCIENCE AND INNOVATIONS", JSC)** **2. JOINT-STOCK COMPANY SCIENTIFIC RESEARCH AND DESIGN INSTITUTE FOR ENERGY TECHNOLOGIES ATOMPROEKT (JSC ATOMPROEKT)** **3.**	
(72)	**1. BEZLEPKIN, Vladimir Viktorovich** **2. AMELYUSHINA, Anzhella Gennadievna** **3. LITVINENKO, Lidiya Dmitrievna** **4. KUKHTEVICH, Vladimir Olegovich**	**5. MITRYUKHIN, Andrey Gennadievich** **6. USTINOV, Mikhail Sergeevich** **7. KURCHEVSKY, Alexei Ivanovich**
(73)	**1.** **2.**	
(30)	**1. (RU) 2014130847 - 24-07-2014** **2. (PCT/RU2015/000466) - 24-07-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) DEAERATOR (VARIANTS)

Patent Period Started From 24/07/2015 and Will end on 23/07/2035

(57) The group of inventions relates to heat transfer technology. The device includes a tank with an outlet pipe and steam source, a deaerator column with a lid, and, positioned thereon, pipes for supplying water and purging vapor, the column containing an upper deaeration stage and a lower deaeration stage. Each stage includes a pressure plate and a distribution plate, which are installed so as to form a jet chamber in the space therebetween, and also includes attachments having irregularly-positioned elements. The deaeration stages are separated by a hydraulic seal formed by a sidewall of the pressure plate of the upper stage and by a protrusion which is connected to the lid of the deaeration column. The pipes for supplying water and purging vapor are located in a protrusion of the hydraulic seal, said protrusion being provided with apertures. The lower edges of the apertures are located above the upper edge of a sidewall of the hydraulic seal by an amount which exceeds the sum of the height of coolant overflow over the sidewall of the hydraulic seal and the hydraulic resistance of a channel of the hydraulic seal. The total cross-section of the apertures is determined so as to achieve steam pressure which is the same in the purging pipe as in the space in the protrusion of the hydraulic seal. The present invention increases operational reliability.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/04/2017** **0684/2017** **March 2020** **04/08/2020** **29848**

(51)	**Int. Cl. [8] G01N 29/24 & B06B 1/08**
(71)	**1. PERMASENSE LIMITED (UNITED KINGDOM)** **2.** **3.**
(72)	**1. CEGLA, Frederic Bert** **2. GARCIA, Julio Agustin Isla** **3.**
(73)	**1.** **2.**
(30)	**1. (GB) 1419219.9 - 29-10-2014** **2. (GB) 1507388.5 - 30-04-2015** **3. (PCT/GB2015/053161) - 22-10-2015**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) ELECTROMAGNETIC ACOUSTIC TRANSDUCER

Patent Period Started From 22/10/2015 and Will end on 21/10/2035

(57) An electromagnetic acoustic transducer includes a flux guide surrounded by one or more permanent magnets abutting side faces of the flux guide. The magnetic field from the permanent magnets enters the flux guide where repulsion between the magnetic fields directs at least a portion of the magnetic fields toward a test face abutting a test object. The flux density at the test face is greater than the flux density within the originating permanent magnets. An active portion of a coil disposed between the flux guide and the test object contains conductors that are substantially straight, parallel and carry current in the same direction in order to provide substantially mode pure and uni-directionally polarised excitation of shear waves within the test object.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/02/2017** **0176/2017** **March 2020** **04/08/2020** **29849**

(51)	**Int. Cl. [8] F25D 23/06**
(71)	**1. TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. NAEMURA, Yoshiro** **2. ISHIBASHI, Ikuo** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2014-161407 - 07-08-2014** **2. (PCT/JP2015/003914) - 04-08-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**REFRIGERATOR**
	Patent Period Started From 04/08/2015 and Will end on 03/08/2035

(57) Provided is a refrigerator configured so that even the inside of a vertical partition cover can be filled with a heat insulating foamed material having excellent heat insulating properties. A refrigerator comprises: a refrigerator body provided with left and right storage compartments arranged in a left-right relationship on the front face and having openings; a first partition section disposed above the storage compartments and having a cavity formed therein; a second partition section disposed below the storage compartments and having a cavity formed therein; a vertical partition section for separating the storage compartments, which are the left and right compartments, and having a cavity formed therein by a member which can be divided into front and rear sections; and heat insulating foamed material for forming both the cavity in the vertical partition section and the cavity in the first partition section and/or the second partition section so that the cavities are in communication with each other, the heat insulating foamed material being poured into the cavities.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/02/2017** **0174/2017** **March 2020** **04/08/2020** **29850**

(51)	**Int. Cl. [8] H04W 4/00**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. XU, Hao** **2. MALLADI, Durga,Prasad** **3. WEI, Yongbin** **4. GAAL, Peter**	**5. CHEN, Wanshi** **6. VAJAPEYAM, Madhavan, Srinivasan** **7. GRIOT, Miguel**
(73)	**1.** **2.**	
(30)	**1. (US) 62/034,104 - 06-08-2014** **2. (US) 14/818,824 - 05-08-2015** **3. (PCT/US2015/043950) - 06-08-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) LINKED NARROWBAND OPERATION FOR MTC

Patent Period Started From 06/08/2015 and Will end on 05/08/2035

(57) Methods, systems, and devices are described for wireless communication at a UE. A user equipment (UE) may receive a control signal from a base station on resources of a first narrowband region. The UE may then identify a second narrowband region based on the control signal. In some cases a broadband carrier may be divided into an indexed set of narrowband regions, and the UE may identify an index using information contained in (implicitly or explicitly) in the control signal. The UE may communicate with the base station on resources of the second narrowband region. For example, a UE may receive a system information block (SIB) or a paging message, and perform a random access procedure using narrowband resources selected based on the SIB or paging message.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/07/2018** **1180/2018** **February 2020** **04/08/2020** **29851**

(51)	**Int. Cl. [8] A41D 19/00 & A61F 7/00 , 5/00 & C09K 5/00 & A61N 1/00 & C22C 19/03**
(71)	**1. DEMAC, S.A. (SPAIN)** **2.** **3.**
(72)	**1. DE LA TORRE BARREIRO, Jose Luis,** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/ES2016/070040) - 25-01-2016** **2.** **3.**
(74)	**MOHAMED ABDEL AAL ABDEL - ALEEM AHMED**
(12)	**Patent**

(54) DEVICE FOR TREATING ARTHRITIS AND OSTEOARTHRITIS IN EXTREMITIES AND CHRONIC INFLAMMATIONS AND FOR REDUCING MUSCULAR PAIN AND TENSION

Patent Period Started From 25/01/2016 and Will end on 24/01/2036

(57) The invention relates to a device for treating arthritis and osteoarthritis in extremities, which has the general form of a sheath in the form of a glove or sock comprising: an porous, inner fabric layer; a second layer in the manner of a paraffin-filled bladder that covers the entire inner space, the inner paraffin layer being surrounded by a Teflon splint provided with means for straightening the fingers (nitonol wires or similar, followed by a very thin layer of latex or insulating material, and lastly an outer covering. Complementarily, the device can comprise wires or resistors around each finger or parallel to the palm or back of the hand. Additionally, the device comprises a control unit for activation and for controlling the temperature and currents to be applied.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/07/2018** **1074/2018** **February 2020** **04/08/2020** **29852**

(51)	**Int. Cl. [8] H04W 48/16, 92/10 & H04J 11/00**	
(71)	**1. SHARP KABUSHIKI KAISHA (JAPAN)** **2.** **3.**	
(72)	**1. SUZUKI Shoichi** **2. AIBA Tatsushi** **3. TAKAHASHI Hiroki**	**4. YAMADA Shohei**
(73)	**1.** **2.**	
(30)	**1. (JP) 2016-001557 - 07-01-2016** **2. (PCT/JP2017/000093) - 05-01-2017** **3.**	
(74)	**NAHID WADI RIZK TERZI**	
(12)	**Patent**	

(54) TERMINAL APPARATUS, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT

Patent Period Started From 05/01/2017 and Will end on 04/01/2037

(57) This terminal apparatus and a base station apparatus can efficiently communicate with each other by using a downlink. The terminal apparatus acquires synchronization with a cell through cell searching, and receives system information relating to at least (i) an NB-IoT operation and (ii) raster offset. The raster offset is an offset of a downlink carrier frequency from a channel raster of a prescribed interval, and the downlink carrier frequency is a carrier frequency of the NB-IoT.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/05/2016** **0876/2016** **May 2020** **10/08/2020** **29853**

(51)	**Int. Cl. [8] C 12 N 1/26& C 02 F 1/68**
(71)	**1. CITY OF SCIENTIFIC RESEARCH AND TECHNOLOGY APPLICATIONS (EGYPT)** **2.** **3.**
(72)	**1. TAREK HOSNY TAHA** **2. YASSER R. ABDEL FATTAH** **3. RANYA ALI AMER**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**HUSSEIN ALI HUSSEIN**
(12)	**Patent**

(54)	**UNIT FOR PETROLEUM OIL BIODEGRADATION IN SEA WATER**
	Patent Period Started From 29/05/2016 and Will end on 28/05/2036

(57) The present invention is concerned by a unit for the biodegradation of crude oil in seawater by applying this unit to get rid of pollution of crude oil in sea water and other water bodies.

This unit helps to implement the disposal of petroleum pollutants in the field, taking into account all natural environmental effects in sea water, instead of doing laboratory studies only, and this leads to a unit that can be used immediately in the event of occurrence of petroleum pollution accidents.

This unit is distinguished in preventing spilled oil from leaking into the surrounding environment, and absorbing the shock resulting from wave vibrations, in addition to allowing the studied microbes to effectively break down the crude oil under natural weather conditions, which is an ideal way to get rid of oil pollution in natural conditions.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**31/05/2016** **0890/2016** **May 2020** **09/08/2020** **29854**

(51)	**Int. Cl. [8] F24F 5/00**
(71)	**1. MAMDOUH EZZ AL-ARAB ABU SAUD MAHMOUD (EGYPT)** **2.** **3.**
(72)	**1. MAMDOUH EZZ AL-ARAB ABU SAUD MAHMOUD** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**COOLER AIR DESERT INVENTION WORKS WITHOUT WATER PUMP**
	Patent Period Started From 31/05/2016 and Will end on 30/05/2036

(57) This coolant Body, which consists entirely similar with air conditioners in the market, but in a new way First: - it depends on the presence of pumps, but there Mathur Jrpeix which reduces the speed to roll one in ten minutes is not affected by the lack of water or sediments in the basin Second: - The lack of straw on the windows, which had previously result in raising the humidity in the air because the water pours a large amount but having a rotating network that revolve on 2 bring mobile with it and wraps it kind of cloth and operated a small Mathur no more than 10 watts and placed in when the coolant goes Almattur spin the network and take the water and rise only a wet without taking water with them and whenever DART begins to dry air blower be the result may pull the mild air cooler without the high humidity and without frequent breakdowns

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/11/2013** **1803/2013** **May 2020** **09/08/2020** **29855**

(51)	**Int. Cl. [8] A63B 71/45**
(71)	**1. SAMY MOHAMED IBRAHIM EWAIS (EGYPT)** **2.** **3.**
(72)	**1. SAMY MOHAMED IBRAHIM EWAIS** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**Utilty Model**
(12)	**Patent**

(54)	**Sports equipment for training beach volleyball and speedball players**
	Patent Period Started From 24/11/2013 and Will end on 23/11/2033

(57)

creative athletic device for volleyball beach playgrounds (mobile) and can be turned by its metal stands to speed ball device to be used at any sandy place .allows you to use the sand in your favor to fix the stands strongly instead of being an obstacte.it consists of one stand with 3 metal rods (stainless steel or any other metal preferably the lightest) overlapping with each other to control the required height for either to be used as a volleyball net stand or as speed bail stand after adding a speed roll at the top of the stand also its connected to the speed ball through a wire . it could be fixed at any sandy place with plastic bag or thick textile bag (or whatever possible) where the stand pass through , then the plastic bag is put at the bottom part of the stand to be put in a sand hole , the plastic bag could be used as a bag for carrying the device tools where it contains two wires for each stand .and every wire connects the stand and the plastic bag filled with sand for more stand fixation also works belter to straighten it.

the device is light weighted, easy to tie and untie . easy to carry and could be pulled by a roll fixed to the top of the stand where the volleyball net wire passes by . it works for all genders and ages , suitable for amateurs and professionals

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/02/2015** **0277/2015** **February 2020** **09/08/2020** **29856**

(51)	**Int. Cl. [8] H04W 48/00, 8/12, 48/18, 60/00, 68/12**
(71)	**1. NEC CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. TAMURA,TOSHIYUKI** **2. OKABE, Junya** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2013-079961 - 05-04-2013** **2. (JP) 2013-141828 - 04-07-2013** **3. (PCT/JP2013/007567) - 25-12-2013**
(74)	**SONIA FARAJ**
(12)	**Patent**

(54) TERMINAL AND COMMUNICATION METHOD PERFORMED BY TERMINAL

Patent Period Started From 25/12/2013 and Will end on 24/12/2033

(57) It is aimed to provide a mobility management device that can normally provide a UE with a notification of an incoming voice call made when ISR is activated and when a mobile communication device is moving from a location registration area under control of an MME to a location registration area under control of an SGSN. A mobility management device makes an ISR feature operate in collaboration with an SGSN . It is assumed that a location registration area managed by the mobility management device exists within a location registration area managed by the SGSN , and an incoming voice call is made to a mobile communication device during when the mobile communication device is moving out of the location registration area . The mobility management device includes an incoming voice call control unit that, in the above case, sends a response message indicating that the mobile communication device is moving to a switching device and, when an incoming voice call message is sent again from the switching device to a switching device after the lapse of a specified period of time, performs call attempt to the mobile communication device .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/04/2016** **0663/2016** **February 2020** **16/08/2020** **29857**

(51)	**Int. Cl. [8] C07C 5/32, 7/09 & F25J 3/08, 3/06 & C10G 9/36, 70/04, 9/00**	
(71)	**1. TECHNIP FRANCE (FRANCE)** **2.** **3.**	
(72)	**1. DESTOUR, Bruno** **2. SIMON, Yvon** **3. DADOU, Aurélia**	**4. CHAZALLET, David**
(73)	**1.** **2.**	
(30)	**1. (FR) 13 60349 - 23-10-2013** **2. (PCT/EP2014/072767) - 23-10-2014** **3.**	
(74)	**ABD EL HADI FOR IP OFFICE**	
(12)	**Patent**	

(54) METHOD FOR FRACTIONATING A STREAM OF CRACKED GAS, USING AN INTERMEDIATE RECIRCULATION CURRENT, AND RELATED PLANT

Patent Period Started From 23/10/2014 and Will end on 22/10/2034

(57) The present invention relates to a method for fractionating a stream of cracked gas from a hydrocabon pyrolysis plant to obtain an ethylene-rich cut and a C_{2+} hydrocarbon-lean fuel stream the method comprising the following steps:

forming an expanded intermediate recirculation current from a liquid obtained during an upstream cooling step and/or intermediate cooling step, upstream from the downstream cooling step; circulating the intermediate recirculation current at least through an upstream heat exchanger in order to cool an upstream stream of cracked gas; and injecting the reheated intermediate recirculation stream back into a raw cracked gas upstream from at least one compressor of a cooling and compression stage. The upstream, intermediate and downstream cooling steps are performed with no heat exchange, respectively, of an upstream stream of cracked gas, an intermediate stream of cracked gas and a downstream stream of cracked gas with an external cooling cycle, such as an ethylene cycle.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**23/06/2016** **1082/2016** **March 2020** **16/08/2020** **29858**

(51)	**Int. Cl. [8] C08L 23/08, 23/14, 23/12, 23/10**
(71)	**1. ABU DHABI POLYMERS CO LTD (BOROUGE) L.L.C (UNITED ARAB EMAIRATES)** **2. BOREALIS AG (BOREALIS AG)** **3.**
(72)	**1. CHEN, Rick** **2. LAMPELA, Janne** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/CN2013/001630) - 24-12-2013** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**A POLYPROPYLENE COMPOSITION HAVING A MULTIMODAL COMONOMER DISTRIBUTION IN THE RUBBER PHASE**
	Patent Period Started From 24/12/2013 and Will end on 23/12/2033

(57) Polypropylene composition comprising at least 70 wt% based on the total weigh of the polypropylenecomposition, of a heterophasic propylene copolymer (HECO) comprising a matrix (M) being a polypropylene (PP) and an elastomeric ethylene-propylene copolymer (EC) dispersed in said matrix (M) said elastomeric ethylene- propylene copolymer (EC) comprises a first elastomeric ethylene - propylene copolymer fraction (EC1) and a second elastomeric ethylene - propylene copolymer fraction (EC2) wherein the elastomeric ethylene-propylene copolymer (EC) is the xylene cold soluble fraction (XCS) of the heterophasic propylene copolymer (HECO).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/03/2015** **0469/2015** **March 2020** **16/08/2020** **29859**

(51)	**Int. Cl. [8] E21B 43/08, 43/17**
(71)	**1. Baker Hughes Incorporated (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. ANDREW, Colin, P** **2. BAKER, Bradley, G** **3. JOHNSON, Michael, H**
(73)	**1.** **2.**
(30)	**1. (US) 13/648,489 - 10-10-2012** **2. (PCT/US2013/058437) - 06-09-2013** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54) MULTI-ZONE FRACTURING AND SAND CONTROL COMPLETION SYSTEM AND METHOD THEREOF

Patent Period Started From 06/09/2013 and Will end on 05/09/2033

(57) A multi-zone fracturing and sand control completion system employable in a borehole. The system includes a casing. A fracturing assembly including a fracturing telescoping unit extendable from the casing to the borehole and a frac sleeve movable within the casing to access or block the fracturing telescoping unit; and, an opening in the casing. The opening including a dissolvable plugging material capable of maintaining frac pressure in the casing during a fracturing operation through the telescoping unit. Also included is a method of operating within a borehole.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/10/2015** **1615/2015** **April 2020** **16/08/2020** **29860**

(51)	**Int. Cl. [8] H04N 19/50, 19/30, 19/186, 19/463**
(71)	**1. DOLBY INTERNATIONAL AB (NETHERANDS)** **2.** **3.**
(72)	**1. BORDES, Philippe** **2. JOLLY, Emmanuel** **3. ANDRIVON, Pierre**
(73)	**1.** **2.**
(30)	**1. (EP) 13305453.6 - 08-04-2013** **2. (EP) 13306010.3 - 15-07-2013** **3. (EP) 14305109.2 - 27-01-2014** **4. (PCT/EP2014/055333) - 17-03-2014**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54)	**METHOD FOR ENCODING AND METHOD FOR DECODING A LUT AND CORRESPONDING DEVICES**
	Patent Period Started From 17/03/2014 and Will end on 16/03/2034

(57) A method for encoding a LUT defined as a lattice of vertices is disclosed. At least one value is of each vertex of the lattice. The method comprises for a current vertex: - predicting the at least one value of said current vertex from another value which is for example obtained from reconstructed values of neighboring vertices; and - encoding in a bitstream at least one residue computed between the at least one value of the current vertex and its prediction in a bitstream.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/06/2016** **0941/2016** **March 2020** **16/08/2020** **29861**

(51)	**Int. Cl. [8] C08K 5/00, 5/14 & H01B 3/18 & C08L 23/06, 23/08**	
(71)	**1. Borealis AG (AUSTRIA)** **2.** **3.**	
(72)	**1. ENGLUND, Villgot** **2. HAGSTRAND, Per-Ola** **3. SMEDBERG, Annika**	**4. OLSSON, Carl-Olof** **5. FARKAS, Andreas**
(73)	**1.** **2.**	
(30)	**1. (EP) 13198412.2 - 19-12-2013** **2. (PCT/EP2014/067628) - 19-08-2014)** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) A NEW POLYMER COMPOSITION, POWER CABLE INSULATION AND POWER CABLE

Patent Period Started From 19/08/2014 and Will end on 18/08/2034

(57) The present invention relates to a polymer composition comprising a polyolefin, peroxide and a sulphur containing antioxidant, wherein said peroxide is present in an amount which corresponds to X mmol -0-0-/kg polymer composition and said sulphur containing antioxidant is present in an amount which corresponds to Y mmol -OH /kg polymer composition, wherein $Y_l < Y < Y_2$, $X < 45$ and $0.9 * Y + m < X < n - k * Y$, wherein Yl is 0.50 and Y2 is 10, and m is 0.8, n is 70 and k is 4.7; and wherein said polymer composition has a melt flow rate (MFR) which is at least 1.7, and said polymer composition comprises less than 0.05 % by weight (wt%) 2,4-Diphenyl-4-methyl-l-pentene; a crosslinked polymer composition, and use thereof, a power cable insulation, a power cable, useful in high voltage (HV DC) and extra high voltage (EHV DC) direct current applications, and a method for reducing electrical conductivity of a crosslinked polymer composition.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/10/2015** **1613/2015** **March 2020** **16/08/2020** **29862**

(51)	**Int. Cl. [8] A61F 2/16**
(71)	**1. DAVE, Jagrat Natavar (INDIA)** **2.** **3.**
(72)	**1. ARGAL, Sanjay Ram Swaroop** **2. HUSSAIN, Munavvar Tahir** **3.**
(73)	**1.** **2.**
(30)	**1. (IN) 1353/MUM/2013 - 10-04-2013** **2. (PCT/IB2014/058142) - 09-01-2014** **3.**
(74)	**Amr Mofeed Eldeeb**
(12)	**Patent**

(54) PHAKIC LENS DEVICE WITH OPENINGS AND CONCENTRIC ANNULAR ZONES

Patent Period Started From 09/01/2014 and Will end on 08/01/2034

(57) A lens device structurally adapted to be positioned in the chamber of the eye, preferably the posterior chamber of the eye is disclosed. The device according to some embodiments of the present invention comprises a generally circular optical section characterized by at least one optical power, two generally flat haptic structures at radially opposite sides of the optical part, and a vaulted section connecting the optical section and the haptic structures. In some embodiments, the device comprises at least one opening for allowing flow of liquid, through the device, between the posterior chamber and the anterior chamber of the eye.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/05/2009** **0789/2009** **February 2020** **19/08/2020** **29863**

(51)	**Int. Cl. [8] G01V 5/00 & B66C 19/00 & G01T 1/167**
(71)	**1. VERITAINER ASSET HOLDING LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. ALIOTO, John I.** **2. ALIOTO, Matthew T.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 11/605,530 - 28-11-2006** **2. (PCT/US2007/085678) - 27-11-2007** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) REAL TIME SYSTEM FOR MONITORING CONTAINERS FROM A QUAYSIDE CRANE -SYSTEME EN TEMPS REEL POUR SURVEILLER DES CONTENEURS A PARTIR D''UN PORTIQUE PORTUAIRE

Patent Period Started From 27/11/2007 and Will end on 26/11/2027

(57) In a real time container monitoring system, a data collection computer is in communication with the control computer of a container crane. The electrical signal from each of the radiation detection units carried by the spreader of the container crane is applied to the data collection computer to store as digital data information commensurate with the electrical signal from each of the radiation detection units in response to the control signal being indicative that the container has been engaged by the twist locks. A data analysis computer is in network communication with the data collection computer to download the digital data from the data collection computer and analyze the digital data to determine whether the threat material is present in the container.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/02/2015** **0284/2015** **February 2020** **19/08/2020** **29864**

(51)	**Int. Cl. [8] G06F 9/30**
(71)	**1. Quantify Technology ltd (AUSTRALIA)** **2.** **3.**
(72)	**1. LAPINS, Mark, Andrew** **2. HENNESSY, John, David** **3. HILL, Jasen, Andrew**
(73)	**1.** **2.**
(30)	**1. (AU) 2012903669 - 24-08-2012** **2. (AU) 2013204864 - 12-04-2013** **3. (PCT/AU2013/000924) - 20-08-2013**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54)	**DEVICE, SYSTEM AND METHOD FOR CONTROLLING AN OPERATION**
	Patent Period Started From 20/08/2013 and Will end on 19/08/2033

(57) A device for controlling an operation, the device comprising: a controller; a storage means for storing electronic program instructions for controlling the controller; and an input means; wherein the controller is operable, under control of the electronic program instructions, to: receive at least one instruction via the input means, the at least one instruction comprising a command associated with the operation; and implement the operation according to the command.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/02/2017** **2017/0289** **February 2020** **19/08/2020** **29865**

(51)	**Int. Cl. [8] B01D 61/04, 65/02**	
(71)	**1. Mitsubishi Heavy Industries Engineering Ltd (JAPAN)** **2.** **3.**	
(72)	**1. ITO Yoshiaki** **2. IWAHASHI Hideo** **3. MATSUI Katsunori**	**4. TOKUNAGA Kiichi** **5. KAWADA Masanori**
(73)	**1.** **2.**	
(30)	**1. (PCT/JP2014/072164) - 25-08-2014** **2.** **3.**	
(74)	**NAHID WADI RIZK TARAZI**	
(12)	**Patent**	

(54) WATER TREATMENT DEVICE AND OPERATING METHOD FOR SAME

Patent Period Started From 25/08/2014 and Will end on 24/08/2034

(57) A water treatment device is provided with: a primary reverse osmosis membrane device; a line for a liquid to be treated wherein seawater is fed to the primary reverse osmosis membrane device; a primary water supply pump for pressure feeding seawater to the primary reverse osmosis membrane device; a secondary reverse osmosis membrane device; a line for a primary treated liquid wherein a primary treated liquid, which is a resulting product of seawater passing through the primary reverse osmosis membrane device and flowing out of the primary reverse osmosis membrane device, is fed to the secondary reverse osmosis membrane device; and a secondary water supply pump for pressure feeding the primary treated liquid to the secondary reverse osmosis membrane device at a pressure higher than the osmotic pressure of the primary treated liquid. The water treatment device is further provided with a bypass line that connects the line for the liquid to be treated and a point between the primary reverse osmosis membrane device and the secondary water supply pump in the line for the primary treated liquid so that the liquid to be treated bypasses the primary reverse osmosis membrane device.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/02/2017** **0303/2017** **February 2020** **19/08/2020** **29866**

(51)	**Int. Cl. [8] F16G 3/08**
(71)	**1. ASER (FRANCE)** **2.** **3.**
(72)	**1. JAKOB, Horst** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 14/02007 -04-09-2014** **2. (PCT/FR2015/052334) - 03-09-2015** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54)	**JUNCTION DEVICE FOR CONVEYOR BELTS**
	Patent Period Started From 03/09/2015 and Will end on 02/09/2035

(57) The invention relates to a junction device for a conveyor belt, comprising an upper plate and a lower plate. The upper plate comprises a highly expandable frame and the lower plate comprises a non-expandable or almost non-expandable frame. The two plates can be attached to the ends of a conveyor belt which are inserted between the two plates, thereby transforming said conveyor belt into an endless belt.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/03/2017** **0349/2017** **February 2020** **19/08/2020** **29867**

(51)	**Int. Cl. [8] H02J 7/02, 5/00 & H01P 3/00 & H01Q 1/00**	
(71)	**1. CPG TECHNOLOGIES, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CORUM, James, F** **2. CORUM, Kenneth, L** **3. PINZONE, Basil, F**	**4. D'AURELIO, Michael, J**
(73)	**1.** **2.**	
(30)	**1. (US) 62/049,232 - 11-09-2014** **2. (US) 14/849,246 – 09-09-2015** **3. (PCT/US2015/049523) - 10-09-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) FREQUENCY DIVISION MULTIPLEXING FOR WIRELESS POWER PROVIDERS

Patent Period Started From 10/09/2015 and Will end on 09/09/2035

(57) Disclosed are various embodiments for frequency-division multiplexing for wireless power providers using guided surface waveguide probes to transmit power. Guided surface waveguide probes may transmit power on multiple frequencies with potentially overlapping service areas. Frequency-agile wireless power receivers may tune to one or more frequencies. Cost, availability, and/or other information may be provided to the wireless power receivers. Power usage may be reported by the wireless power receivers to power providers.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/03/2017** **0351/2017** **February 2020** **19/08/2020** **29868**

(51)	**Int. Cl. [8] H02J 17/00 & H01P 3/00 & H04B 5/00 & H01Q 1/00**	
(71)	**1. CPG TECHNOLOGIES, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CORUM, James, F** **2. CORUM, Kenneth, L** **3. LILLY, James, D**	**4. PINZONE, Basil, F** **5. PINZONE, Joseph, F**
(73)	**1.** **2.**	
(30)	**1. (US) 62/048,994 - 11-09-2014** **2. (US) 14/847,606 - 08-09-2015** **3. (PCT/US2015/049154) 09-09-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) GUIDED SURFACE WAVE TRANSMISSION OF MULTIPLE FREQUENCIES IN A LOSSY MEDIA

Patent Period Started From 09/09/2015 and Will end on 08/09/2035

(57) Disclosed are various embodiments for transmitting energy at multiple frequencies via a guided surface wave along the surface of a lossy medium such as, e.g., a terrestrial medium by exciting a guided surface waveguide probe.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/03/2017** **0375/2017** **February 2020** **19/08/2020** **29869**

(51)	**Int. Cl. [8] H02J 50/00 & H01Q 9/30**	
(71)	**1. CPG TECHNOLOGIES, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CORUM, James, F** **2. CORUM, Kenneth, L** **3. LILLY, James, D**	**4. PINZONE, Basil** **5. PINZONE, Joseph, F**
(73)	**1.** **2.**	
(30)	**1. (US) 62/049,215 - 11-09-2014** **2. (US) 14/848,467 - 09-09-2015** **3. (PCT/US2015/049394) - 10-09-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) SIMULTANEOUS TRANSMISSION AND RECEPTION OF GUIDED SURFACE WAVES

Patent Period Started From 10/09/2015 and Will end on 09/09/2035

(57) Disclosed are various embodiments of a guided surface wave transmitter/receiver configured to transmit a guided surface wave at a first frequency and to receive guided surface waves at a second frequency, concurrently with the transmission of guided surface waves at the first frequency. The various embodiments can be configured to retransmit received power and applied the received power to an electrical load. The various embodiments of the guided surface wave transmitter/receiver also can be configured as an amplitude modulation (AM) repeater.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/04/2017** **0639/2017** **February 2020** **19/08/2020** **29870**

(51)	**Int. Cl. [8] G01V 1/36**
(71)	**1. PGS Geophysical AS (NORWAY)** **2.** **3.**
(72)	**1. Nils LUNDE** **2. Okwudili Chuks ORJI** **3. Mattias Dan Christian OSCARSSON**
(73)	**1.** **2.**
(30)	**1. (US) 62/065.882 - 20-10-2014** **2. (PCT/EP2015/074248) - 20-10-2015** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) METHODS AND SYSTEMS TO SEPARATE SEISMIC DATA ASSOCIATED WITH IMPULSIVE AND NON-IMPULSIVE SOURCES

Patent Period Started From 20/10/2015 and Will end on 19/10/2035

(57) Methods and systems to separate seismic data associated with impulsive and non-impulsive sources are described. The impulsive and non-impulsive sources may be towed through a body of water by separate survey vessels. Receivers of one or more streamers towed through the body of water above a subterranean formation generate seismic data that represents a reflected wavefield produced by the subterranean formation in response to separate source wavefields generated by simultaneous activation of the impulsive source and the non-impulsive source. Methods and systems include separating the seismic data into impulsive source seismic data associated with the impulsive source and non-impulsive source seismic data associated with the non-impulsive.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/06/2017** **1013/2017** **February 2020** **19/08/2020** **29871**

(51)	**Int. Cl. [8] G01N 9/00, 1/10, 1/18 & G01F 1/84**	
(71)	**1. UNICO, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. MCCRICKARD, James P** **2. PETERSON, Ronald G** **3. BECK, Thomas L**	**4. MACDONALD, Michael A** **5. DRY, Michael D**
(73)	**1.** **2.**	
(30)	**1. (US) 62/092,995 - 17-12-2014** **2. (US) 14/955,262 - 01-12-2015** **3. (PCT/US2015/065321) - 11-12-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) DUAL COMPONENT DENSITY SAMPLER APPARATUS

Patent Period Started From 11/12/2015 and Will end on 10/12/2035

(57) A dual component density sampler determines at least one of a density of water and a density of oil in a mixture of oil and water extracted from an oil well during production. A three-way valve is coupled to the oil well, with the three-way valve having a first output port and second output port. A dual-in-single-out manifold is coupled to the first output port. A segregation tank separates the water and oil, and has an entrance tank and exit tank. An entrance of the entrance tank is coupled to the second output port, and an exit of the entrance tank is coupled to an entrance end of the exit tank. An exit end of the exit tank is coupled to the dual-in-single-out manifold. A coriolis meter is coupled to the dual-in-single-out manifold, and is configured to selectively measure a density of the fluid mixture, the oil, and the water.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/09/2017** **1540/2017** **February 2020** **19/08/2020** **29872**

(51)	**Int. Cl. [8] B42D 25/41**
(71)	**1. MORPHO B.V (NETHERLANDS)** **2.** **3.**
(72)	**1. VAN DEN BERG, Jan** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (NL)2014520 - 25-03-2015** **2. (PCT/NL2016/050197) – 22-03-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) METHOD OF PROVIDING AN IMPRINTED SECURITY FEATURE

Patent Period Started From 22/03/2016 and Will end on 21/03/2036

(57) The invention relates to a method of forming a security document comprising the steps of:

-providing a base layer having a top side, -providing a color image onto an image area (Ai) of the top side by printing colored ink,on the top side, -characterized in that,

-a lens structure is applied over the colored ink, the lens structure having a predetermined focal plane situated at a distance from the top side,

and -laser engraving a black image in through the lens structure and through the colored ink to form blackened image elements substantially at or near the focal plane.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/09/2017** **1536/2017** **April 2020** **23/08/2020** **29873**

(51)	**Int. Cl. [8] G06G 19/00**	
(71)	**1. ARES TRADING S.A. (SWITZERLAND)** **2.** **3.**	
(72)	**1. LAKE, Colin** **2. PATERSON, Andrew** **3. EXELL, Simon**	**4. CHANIE, Eric** **5. KOUVAS, Georgios** **6. MULCAHY, John**
(73)	**1.** **2.**	
(30)	**1. (PCT/IB2015/052164) - 24-03-2015** **2.** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) PATIENT CARE SYSTEM

Patent Period Started From 24/03/2015 and Will end on 23/03/2035

(57) Patient care system comprising a medical device for administering a medical treatment to a patient and a server system configured to receive and transmit data via a communications network to, respectively from users including patients and health care professionals, the server system further configured to process and store data related to patient care. The server system comprises a database configured to encrypt and store encrypted data related to patient care, an application server including patient care software components for disease management and patient information management, a communication server including a web server software application for data transfer through the internet, the patient care software components operable to receive medical device usage data comprising data on the usage of said medical device transferred through the communications network, and further operable to process said medical device usage data in conjunction with patient data to generate a report or a plurality of reports related to the treatment of the patient, the reports being accessible remotely via the communications network by registered users of the patient care system as a function of respective roles and privileges of the registered user stored in the server system.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/06/2016** **0926/2016** **April 2020** **23/08/2020** **29874**

(51)	**Int. Cl. [8] G06F 19/00, 1/16**	
(71)	**1. ARES TRADING S.A. (SWITZERLAND)** **2.** **3.**	
(72)	**1. LAUCHARD, Gerhard** **2. WALDER, Gerhard** **3. LEGNER, Alexander**	**4. CHANIE, Eric** **5. KOUVAS, Georgios**
(73)	**1.** **2.**	
(30)	**1. (EP) 13195960.3 – 05-12-2013** **2. (EP) 14150907.5 - 13-01-2014** **3. (EP) 14150908.3 - 13-01-2014** **4. (PCT/EP2014/076482) - 04-12-2014**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) MEDICAL DEVICE CONNECTION STATION

Patent Period Started From 04/12/2014 and Will end on03/12/2034

(57) A medical device connection station comprising a body having a first portion of a docking interface to dock with a corresponding second portion of a docking interface of a medical device, a control unit controlling a medical device communication interface for communication with a docked medical device and controlling a server communication interface. The control unit is configured acquire medical data from a docked medical device via the medical device communication interface and is further configured to connect with and obtain a data session with the server system via the server communication interface, and to thereby transfer the medical data to the server system. The medical device connection station further comprises a lid connected to the body and movable between a first and second position, wherein in the first position the lid prevents first portion of the docking interface from docking with the second portion of the docking interface of the medical device, and wherein in the second position the first portion of the docking interface is operable to dock with the second portion of the docking interface. The medical device connection station comprises a lid movement sensing unit which is configured to sense movement of the lid between the first position and the second position and to thereby provide a signal to the control unit, the control unit configured to receive the signal to initiate the connection to the server system.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/03/2009** **0276/2009** **April 2020** **23/08/2020** **29875**

(51)	**Int. Cl. [8] A61K 31/437, 47/26, 47/36, 47/38 , 9/16 , 9/28 & A61P 31/04**	
(71)	**1. ALFA WASSERMANN S.P.A. (ITALY)** **2.** **3.**	
(72)	**1. BOTTONI, Giuseppe** **2. Viscomi , Giuseppe, Claudio** **3. MAFFEI, Paola**	**4. BACHETTI, Milena**
(73)	**1.** **2.**	
(30)	**1. (IT) MI2006A001692 - 05-09-2006** **2. (PCT/IB2007/002199) - 31-07-2007** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) USE OF POLYOLS TO OBTAIN STABLE POLYMORPHOUS FORMS OF RIFAXIMIN

Patent Period Started From 31/07/2007 and Will end on 30/07/2027

(57) Polyols, selected from 1,2 propanediol or 1,2,3-propanetriol, to stabilize polymorphous form of rifaximin, in particular the β; form. When said polyols are added to rifaximin powder, polymorph β; is stable and remains stable in time independently from the environment humidity. In this invention a method to prepare formulations constituted by pure and stable polymorphous forms able to give a pharmaceutical product is described.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/09/2017** **1571/2017** **April 2020** **23/08/2020** **29876**

(51)	**Int. Cl. [8] H04N 19/513, 19/46, 19/109, 19/176, 19/44, 19/56, 19/57, 19/96, 19/70**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. LI, Xiang** **2. CHEN, Ying** **3. ZHANG, Li**	**4. LIU, Hongbin** **5. CHEN, Jianle** **6. KARCZEWICZ, Marta**
(73)	**1.** **2.**	
(30)	**1. (US) 62/139,572 - 27-03-2015** **2. (US0 62/182,367 - 19-06-2015** **3. (US) 15/080,478 - 24-03-2016** **4. (PCT/US2016/024332) - 25-03-2016**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) MOTION VECTOR DERIVATION IN VIDEO CODING

Patent Period Started From 25/03/2016 and Will end on 24/03/2036

(57) In an example, a method of processing video data includes determining a candidate motion vector for deriving motion information of a current block of video data, where the motion information indicates motion of the current block relative to reference video data. The method also includes determining a derived motion vector for the current block based on the determined candidate motion vector, where determining the derived motion vector comprises performing a motion search for a first set of reference data that corresponds to a second set of reference data outside of the current block.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/02/2016** **0288/2016** **April 2020** **23/08/2020** **29877**

(51)	**Int. Cl. [8] H04L 1/18, 1/00, 5/00, 1/16 & H04B 7/04**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. MERLIN, Simone** **2. BARRIAC, Gwendolyn Denise** **3. SAMPATH, Hemanth**	**4. VERMANI, Sameer**
(73)	**1.** **2.**	
(30)	**1. (US) 61/871,269 - 28-08-2013** **2. (US) 14/469,451 – 26-08-2014** **3. (PCT/US2014/052844) - 27-08-2014**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) METHODS AND APPARATUS FOR ACKNOWLEDGMENT OF MULTI-USER UPLINK WIRELESS TRANSMISSIONS

Patent Period Started From 27/08/2014 and Will end on 26/08/2034

(57) Methods and apparatus for acknowledgment of multiple user uplink are provided. In one aspect, a method of wireless communication includes receiving a first wireless message from a first station at least partially concurrently with receiving a second wireless message from a second station, generating a first acknowledgment message in response to receiving the first wireless message, generating a second acknowledgement message in response to receiving the second wireless message, and transmitting the first acknowledgment message to the first station at least partially concurrently with transmitting the second acknowledgement message to the second station.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/01/2016** **0049/2016** **March 2020** **23/08/2020** **29878**

(51)	**Int. Cl. [8] H04W 47/08**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. YERRAMALLI, Srinivas** **2. LUO, Tao** **3. BHUSHAN, Naga**	**4. GAAL, Peter**
(73)	**1.** **2.**	
(30)	**1. (US) 61/847,369 - 17-07-2013** **2. (US) 14/317,090 - 27-06-2014** **3. (PCT/US2014/044797) - 03-06-2014**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) LTE CHANNEL ACCESS OVER UNLICENSED BANDS

Patent Period Started From 30/06/2014 and Will end on 29/06/2034

(57) Methods, systems, and devices are described for wireless communications. In one method, a clear channel assessment (CCA) may be performed at a base station to determine availability of an unlicensed spectrum. A first waveform may be transmitted to a set of user equipments (UEs) over the unlicensed spectrum when available. The first waveform may indicate a first time period and a second time period during which the base station has channel access over the unlicensed spectrum. A second waveform may be received from one or more UEs responsive to the first waveform. Each second waveform may be received over the unlicensed spectrum during the first time period and may indicate that the respective UE has channel access over the unlicensed spectrum to receive data from the base station during the second time period.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/09/2010** **1527/2010** **April 2020** **23/08/2020** **29879**

(51)	**Int. Cl. [8] C07K 16/12, G01N 33/569**	
(71)	**1. ALLERGAN, INC. (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. AOKI, Kei, Roger** **2. WANG, Joanne** **3. WONG, Lina, S.**	**4. HODGES, D., Dianne** **5. FERNANDEZ-SALAS, Ester** **6. GARAY, Patton, E.**
(73)	**1.** **2.**	
(30)	**1. (US) 61/036,723 - 14-03-2008** **2. (PCT/US2009/037046) - 13-03-2009** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) ANTIBODY AGAINST α -SNAP-25

Patent Period Started From 13/03/2009 and Will end on 12/03/2029

(57) The present application discloses an antibody against α-SNAP-25, wherein said antibody specifically binds to α-SNAP -25 peptide of seq id no: 38.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/11/2016** **1804/2016** **April 2020** **23/08/2020** **29880**

(51)	**Int. Cl. [8] F04B 47/02, 49/00**
(71)	**1. UNICO, LLC. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. PETERSON, Ronald G** **2. BENDER, Jonathan D** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 14/704,079 - 05-05-2014** **2. (US) 61/990,492 – 08-05-2014** **3. (PCT/US2015/029510) - 06-05-2015**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**METHOD TO DISLODGE DEBRIS FROM SUBTERRANEAN PUMP SYSTEM**
	Patent Period Started From 06/05/2015 and Will end on 05/05/2035

(57) A method to dislodge debris from a pump system in which the pump system includes a down-hole pump coupled by a rod string to an above-ground pump actuator, which is coupled to a controller configured to operate the pump system, and where the actuator has an adjustable stroke length. The method also includes determining that the pump system should begin operating in a pump clean mode, implementing the pump clean mode configured in the controller, and cycling the pump actuator at a preset command speed using a preset starting stroke length, preset acceleration rate and a preset deceleration rate. The method also includes continuing to cycle the pump actuator while incrementally decreasing the stroke length by a preset stroke length increment resulting in increased pump cycling frequencies. Further, the method calls for determining that the pump clean mode is complete, and returning the pump system to a normal operation mode .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/07/2017** **1188/2017** **April 2020** **23/08/2020** **29881**

(51)	**Int. Cl. [8] C01C 1/04 & C01B 3/02, 3/32**
(71)	**1. CASALE SA (SWITZERLAND)** **2.** **3.**
(72)	**1. OSTUNI, Raffaele** **2. FILIPPI, Ermanno** **3. ROSSI, Umberto**
(73)	**1.** **2.**
(30)	**1. (EP)15152699.3 - 27-01-2015** **2. (PCT/EP2016/050344) - 11-01-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) A PROCESS FOR THE SYNTHESIS OF AMMONIA

Patent Period Started From 11/01/2016 and Will end on 10/01/2036

(57) Process for the synthesis of ammonia comprising the steps of reforming of a hydrocarbon feedstock into a raw product gas, purification of said raw product gas obtaining a make-up synthesis gas, conversion of said synthesis gas into ammonia; said purification includes shift conversion of carbon monoxide into carbon dioxide and the reforming process requires a heat input which is at least partially recovered from at least one of said step of shift conversion, which is carried out with a peak temperature of at least 450℃, and said step of conversion into ammonia.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/12/2007** **1353/2007** **March 2020** **23/08/2020** **29882**

(51)	**Int. Cl. [8] C08L 23/02, 23/08 & B32B 27/32 & C08K 5/10 & H01B 3/00**
(71)	**1. BOREALIS TECHNOLOGY OY (FINLAND)** **2.** **3.**
(72)	**1. SMEDBERG, ANNIKA** **2. NYLANDER, PERRY** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 05012356.1 - 08-06-2005** **2. (PCT/EP2006/005248) - 01-06-2006** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) WATER TREE RETARDING COMPOSITION

Patent Period Started From 01/06/2006 and Will end on 31/05/2026

(57) Present invention relates to a cross linkable polymer composition, comprising

(i) an unsaturated polyolefin having a total amount of carbon-carbon double bonds/1000 carbon atoms of more than 0.37, and

(ii) at least one ether and/or ester group containing additive selected from the group consisting of polyethylene glycol, a glycerol ester compound, polypropylene glycol, an amido group containing fatty acid ester, ethoxylated and/or propoxylated pentaerythritol, an alpha-tocopherol ester, an ethoxylated and/or propoxylated fatty acid, and derivatives thereof.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/01/2017** **0081/2017** **April 2020** **23/08/2020** **29883**

(51)	**Int. Cl. [8] B60G 13/16, 21/00, 3/00 & B62D 49/08 & F16F 15/28, 7/10**
(71)	**1. PIAGGIO & C. S.P.A (ITALY)** **2.** **3.**
(72)	**1. MARANO, Luca** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) PD2014A000195 - 18-07-2014** **2. (PCT/IB2015/055291) - 13-07-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**VEHICLE WITH THREE OR MORE WHEELS PROVIDED WITH AN ANTI-ROLL STABILISER DEVICE AND ANTI-ROLL CONTROL METHOD OF A VEHICLE HAVING AT LEAST THREE WHEELS**
	Patent Period Started From 13/07/2015 and Will end on 12/07/2035

(57) A vehicle with or more wheels, of which at least two wheels aligned on the same axis, the vehicle having an intermediate centreline plane (M-M) between the wheels parallel to a direction of movement (X-X), comprising at least one mass suspended in relation to said wheels defining a passenger compartment or containment compartment, and two suspension groups kinematically connecting the suspended mass to said two aligned wheels. The vehicle comprises an anti-roll stabiliser device having at least one compensation mass (kinematically connected to the suspended mass via guide means and movable in relation thereto, wherein the anti-roll stabiliser device comprises drive means of the compensation mass so as to distance or bring the compensation mass closer to the centreline plane (M-M) on the side opposite the displacement (ΔY) of a barycentre (G) of the suspended mass with respect to the same centreline plane (M-M), so as to oppose the displacement (ΔY), with respect to the centreline plane (M-M), of the position of said barycentre (G) of the suspended mass.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/11/2017** **1939/2017** **March 2020** **23/08/2020** **29884**

(51)	**Int. Cl. [8] F16L 59/18, 27/103 & E21B 17/08**
(71)	**1. OIL STATES INDUSTRIES, INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. PATRICK, James** **2. LUKE, Eric** **3. GUTIERREZ-LEMINI, Danton**
(73)	**1.** **2.**
(30)	**1. (US) 62/168,707 - 29-05-2015** **2. (PCT/IB2016/053143) - 27-05-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) FLEXIBLE PIPE JOINT HAVING AN ANNULAR FLEXIBLE BOOT THERMALLY OR CHEMICALLY INSULATING AN ANNULAR ELASTOMERIC FLEXIBLE ELEMENT

Patent Period Started From 27/05/2016 and Will end on 26/05/2036

(57) A flexible pipe joint has a body and an annular elastomeric flexible element flexibly coupling an extension pipe to the body for pivoting of the extension pipe with respect to the body. The flexible pipe joint also has an annular flexible boot for thermally or chemically insulating the annular elastomeric flexible element from the fluid flowing through a lumen of the flexible pipe joint. The annular flexible boot encircles the lumen, and the annular flexible boot has a first annular end attached to the extension pipe and a second annular end mounted so that pivoting of the extension pipe with respect to the body causes a flexing of the annular flexible boot, and a majority of the annular flexible boot has a shape conforming to shape of neighboring components of the flexible pipe joint.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/06/2014** **1051/2014** **April 2020** **23/08/2020** **29885**

(51)	**Int. Cl. [8] B62M 7/12**	
(71)	**1. TVS MOTOR COMPANY LIMITED (INDIA)** **2.** **3.**	
(72)	**1. RAO Kandregula Srinivasa** **2. NAGARAJA Krishnabhatta** **3. K Venkata Mangaraju**	**4. BABU Rengarajan** **5. SASIKUMAR R**
(73)	**1.** **2.**	
(30)	**1. (IN) 4585/CHE/2011 - 27-12-2011** **2. (PCT/IN2012/000849) - 26-12-2012** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54)	**VEHICLE**
	Patent Period Started From 26/12/2012 and Will end on 25/12/2032

(57) The present invention provides an automatic manual transmission equipped engine having an electronically controlled clutch actuator and gear actuator and is swing ably disposed in the vicinity of the floor board; and a carrier member mounted to the frame at one end and mounted to rear wheel at the other end. The said automatic manual transmission equipped engine is mounted rigidly to the carrier member.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/03/2016** **0365/2016** **March 2020** **23/08/2020** **29886**

(51)	**Int. Cl. [8] A61B 5/024 & A61M 5/00, 5/168, 31/00 & G06F 19/00**
(71)	**1. MEDICOR INTERNATIONAL NV(Belgium)** **2.** **3.**
(72)	**1. COUDYZER, Walter** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (NL)N2011470 - 19-09-2013** **2. (PCT/EP2014/069928) - 18-09-2014** **3.**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54)	**METHODS AND TOOLS RELATING TO THE ADMINISTRATION OF CONTRAST MEDIUM**
	Patent Period Started From 18/09/2014 and Will end on 17/09/2034

(57) Envisaged herein are methods for determining the optimal volume of contrast medium to be administered to a patient. More particularly, the methods envisaged herein comprise the steps of

(a) measuring one or more patient-specific physiological parameters, said one or more patient-specific physiological parameters comprising at least the patient's heart rate;

and (b) determining the optimal volume of contrast medium based on the patient-specific physiological parameters determined under (a).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/02/2015** **0307/2015** **February 2020** **23/08/2020** **29887**

(51)	**Int. Cl. [8]** **C04B 24/02, 24/04, 28/02**	
(71)	**1. ARKEMA FRANCE (FRANCE)** **2.** **3.**	
(72)	**1. KORZHENKO, Alexander** **2. VINCENDEAU, Christophe** **3. LUSHNIKOVA, Anna** **4. YAKOVLEV, Grigory Ivanovich**	**5. PERVUSHIN, Grigoriy Nikolayevich** **6. PLATEL, David** **7. SUAU , Jean-Marc**
(73)	**1.** **2.**	
(30)	**1. (FR) 1261229 - 26-11-2012** **2. (PCT/FR2013/052838) – 25-11-2013** **3.**	
(74)	**ABDEL HADY OFFICE**	
(12)	**Patent**	

(54) METHOD FOR PRODUCING A MASTER MIXTURE BASED ON CARBONACEOUS NANOFILLERS AND SUPERPLASTICISER

Patent Period Started From 25/11/2013 and Will end on 24/11/2033

(57) The invention relates to a process for the preparation of a master batch comprising at least one superplasticizer and from 0.1% to 25% by weight of carbon-based nanofillers, expressed with respect to the total weight of the master batch

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/04/2017** **0736/2017** **February 2020** **23/08/2020** **29888**

(51)	**Int. Cl. [8] G01V 1/00, 1/20, 1/38**
(71)	**1. BP CORPORATION NORTH AMERICA INC. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. DELLINGER, Joseph Anthony** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 62/086,362 - 02-12-2014** **2. (PCT/US2015/063200) - 01-12-2015** **3.**
(74)	**AMR ELDEEP**
(12)	**Patent**

(54)	**SEISMIC ACQUISITION METHOD**
	Patent Period Started From 01/12/2015 and Will end on 30/11/2035

(57) The presently disclosed seismic acquisition technique employs a receiver array and a processing methodology that are designed to attenuate the naturally occurring seismic background noise recorded along with the seismic data during the acquisition. The approach leverages the knowledge that naturally occurring seismic background noise moves with a slower phase velocity than the seismic signals used for imaging and inversion and, in some embodiments, may arrive from particular preferred directions. The disclosed technique comprises two steps: 1) determining from the naturally occurring seismic background noise in the preliminary seismic data a range of phase velocities and amplitudes that contain primarily noise and the degree to which that noise needs to be attenuated, and 2) designing an acquisition and processing method to attenuate that noise relative to the desired signal.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/02/2017** **0208/2017** **March 2020** **23/08/2020** **29889**

(51)	**Int. Cl. [8] D06F 37/26, 39/12**	
(71)	**1. LG Electronics INC (KOREA)** **2.** **3.**	
(72)	**1. JEONG, Kwanwoong** **2. NO, Yanghwan** **3. LEE, Chanho**	**4. LEE, Jijong**
(73)	**1.** **2.**	
(30)	**1. (KR) 10-2015-0092773 - 30-06-2015** **2. (PCT/KR2016/007025) - 30-06-2016** **3.**	
(74)	**MOHAMED MOHAMED BAKEER**	
(12)	**Patent**	

(54) LAUNDRY TREATMENT APPARATUS

Patent Period Started From 30/06/2016 and Will end on 29/06/2036

(57) Disclosed is a laundry treatment apparatus including a tub body for storing water therein, a tub cover for forming the upper surface of the tub body, an introduction aperture formed through the tub cover, a drum rotatably provided in the tub body for storing laundry therein, the drum having an opening communicating with the introduction aperture, a rotating shaft for rotating the drum, the rotating shaft being orthogonal to the bottom surface of the tub body, a door for opening and closing the introduction aperture, and an ejection unit for ejecting at least some of water moved toward the tub cover to the door using the centrifugal force generated while the drum is rotated.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/02/2017** **0207/2017** **April 2020** **23/08/2020** **29890**

(51)	**Int. Cl. [8] D06F 37/18, 37/28, 39/14**
(71)	**1. LG Electronics INC (KOREA)** **2.** **3.**
(72)	**1. LEE, Jihong** **2. GWON, Hyeokjin** **3. JOO, Hyojin**
(73)	**1.** **2.**
(30)	**1. (KR) 10-2015-0092784 - 30-06-2015** **2. (PCT/KR 2016/007024) - 30-06-2016** **3.**
(74)	**MOHAMED MOHAMED BAKEER**
(12)	**Patent**

(54)	**LAUNDRY TREATMENT APPARATUS**
	Patent Period Started From 30/06/2016 and Will end on 29/06/2036

(57) Disclosed is a laundry treatment apparatus including a cabinet having an introduction/discharge opening, a drawer configured so as to be discharged from the cabinet through the introduction/discharge opening, a through-hole formed in an upper surface of the drawer, a tub provided inside the drawer for providing a space for storage of water, an introduction aperture formed in an upper surface of the tub, the introduction aperture being located under the through-hole, a drum rotatably provided inside the tub for receiving laundry supplied to the introduction aperture, a door provided on any one of the drawer and the tub for opening and closing the introduction aperture, and a door sensing unit for determining whether or not the door to open the introduction aperture is opened in a state in which the drawer is inserted into the cabinet.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/04/2008** **0712/2008** **November 2019** **23/08/2020** **29891**

(51)	**Int. Cl. [8] A61K 39/395 & A61P 5/24**
(71)	**1. Teva pharmac euticals internationol g m b h (SWITZERLAND)** **2.** **3.**
(72)	**1. ZELLER, JOERG** **2. pons,jaume** **3. poul sen,kristian,todd** **4. abdiche,yeamina,nubia** **5. collier,sierra,jones** **6. Rosenthal,Arnon**
(73)	**1.** **2.**
(30)	**1. (US) 60/736,623 - 14-11-2005** **2. (PCT/IB2006/003181) - 02-11-2006** **3.**
(74)	**EL-DEEB OFFICE**
(12)	**Patent**

(54) ANTAGONIST ANTIBODIES DIRECTED AGAINST CALCITONIN GENE-RELATED PEPTIDE

Patent Period Started From 02/11/2006 and Will end on 01/11/2026

(57) The invention relates to antagonist antibodies directed against calcitonin gene-related peptide for preventing CGRP associated disorders such as vasomotor symptoms, including headaches (e.g., migraine, cluster headache, and tension headache) and hotflushes. Antagonist antibody G1 and antibodies derived from G1 directed to CGRP are also disclosed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/04/2017** **0680/2017** **February 2020** **24/08/2020** **29892**

(51)	**Int. Cl. [8] E21B 28/00, 43/00 & G01V 1/00, 1/02**
(71)	**1. APPLIED SEISMIC RESEARCH CORPORATION (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. KOSTROV, Sergey, A** **2. WOODEN, William, O** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 14/756,479 - 22-10-2014** **2. (PCT/US2015/056603) - 21-10-2015** **3.**
(74)	**SMAS Intellectual Property**
(12)	**Patent**

(54) METHOD AND APPARATUS FOR SEISMIC STIMULATION OF PRODUCTION HORIZONS OF HYDROCARBON BEARING FORMATIONS

Patent Period Started From 21/10/2015 and Will end on 20/10/2035

(57) The method and apparatus for producing shock waves in a well wherein a device connected to the bottom of the tubing string in the borehole of the well filled by liquid and containing the damper, the upper and lower plungers movably arranged within corresponding cylinders for compressing the liquid inside the compression chamber and discharging the liquid into the borehole on upstroke thereby generating a shock wave. In addition, providing a length of upstroke Lstr of the pumping unit determined by the following expression: , where H_1 is the length of the lower cylinder, L_2 is the distance between the lower and upper plungers, D_1 is the diameter of the lower plunger, D_2 is the diameter of the upper plunger, A_{sw} is the required amplitude of the generated shock wave, E is a modulus of elasticity of the sucker rod & rsquo;s material, d_r is the diameter of the sucker rods.

$$L_{str} \geq H_1 + \frac{(D_1^2 - D_2^2) A_{sw} L_2}{E d_r^2}$$

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/12/2014** **2025/2014** **June 2020** **30/08/2020** **29893**

(51)	**Int. Cl. [8] A61B 10/00, 10/02**
(71)	**1. AHMED MOHAMED ESMAT FAHIM MANSOUR (EGYPT)** **2. Nouran Mohamed Gamal Eldeen (EGYPT)** **3.**
(72)	**1. AHMED MOHAMED ESMAT FAHIM MANSOUR** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**FOCAL POINT - MENOUFIA UNIVERSITY - SHEBIN EL-KOM**
(12)	**Patent**

(54)	**SELF RETRACTING PERCUTANEOUS PLEURAL BIOPSY NEEDLE**
	Patent Period Started From 16/12/2014 and Will end on 15/12/2034

(57) Self retracting percutaneous pleural biopsy needle that can be used by one hand as the fingers will squeeze the needle in the Palm direction to open and close the needle during biopsy taking. Including a spring for self retraction and two arms that can be used for handling and internal pusher inside the external needle.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/02/2015** **0223/2015** **June 2020** **30/08/2020** **29894**

(51)	**Int. Cl. [8] A63B 23/12, 21/02**
(71)	**1. MOHAB MOHAMED REDA MOUSA (EGYPT)** **2. Beni Suef University (EGYPT)** **3.**
(72)	**1. MOHAB MOHAMED REDA MOUSA** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**Focal Point - Beni Suef University - Technology Transfer and Marketing Office**
(12)	**Patent**

(54)	**Method and Tool for training and measuring some coordination ability for players**
	Patent Period Started From 09/02/2015 and Will end on 08/02/2035

(57)

A training electronic device used as a method and tool to develop some coordination capabilities through using modern technology and easy to apply in many sports and also easy to moving from place to another and where the device inside the court; which increase and decrease units, which are not connected together by wire, and this makes device it safe and nothing prevails the player movement.

The device is characterized to ability to develop multiple tactics by the android program installed on the mobile phone located outside the court with the coach, and these plans designed to be a way to control the work of the whole device and its time and order of work, and also the possibility to design simulate competitions , Which the coach can make it difficulty progressive to reach the player to the best performance in accordance with the principle of progress training load and the possibility, modification according to the vision of the coach in the training

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/06/2015** **1048/2015** **June 2020** **30/08/2020** **29895**

(51)	**Int. Cl. [8] B63H 16/06 , B63H 16/02**
(71)	**1. MAGDEE ABED EL NABY ESMAIL HELAL (EGYPT)** **2.** **3.**
(72)	**1. MAGDEE ABED EL NABY ESMAIL HELAL** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Utility Model**

(54)	**AN AMENDED ROWING OAR WITH SPECIAL SPECIFICATION FOR SINGLE SCULL BOAT IN ROWING SPORT**
	Patent Period Started From 24/06/2015 and Will end on 23/06/2022

(57) This amendment aim to improve sculling oar efficiency which leads to an increase in speed of sculling rowing boat by decrease it is time to cover 500 meter rowing distance which it has a positive & on boat speed in competition rowing distance.

To realize that aim several experiments were conducted to search effect of fixing different extra weight to sculling oar at it's in- board distance. Results showed that fixing a gm weight with cm width and cm thickness of led metal slice distance far from end of scull oar handle at its in- board distance, has a significant effect in improvement sculling oar efficiency, as it decreased time of the boat to cover 500 meter distance with second (6-7) less than time of rowing boat spent to cover same distance with an ordinary rowing scull oar without amendment.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/07/2015** **2015/1092** **June 2020** **30/08/2020** **29896**

(51)	**Int. Cl. [8] A61G 5/00**
(71)	**1. MOHAMMAD AMER MAHMOUD (EGYPT)** **2.** **3.**
(72)	**1. MOHAMMAD AMER MAHMOUD** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**A CHAIR TO SERVE PEOPLE WITH SPECIAL NEEDS**
	Patent Period Started From 06/07/2015 and Will end on 05/07/2035

(57) It is a chair that is used by people with special needs to be able to move on the steps of peace and land completely freely.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/08/2016** **1401/2016** **June 2020** **30/08/2020** **29897**

(51)	**Int. Cl. [8] A 61K 31/00, A 61P 9/10, C 07G 99/00, C 11D 1/00, C 12P 1/02**	
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**	
(72)	**1. MONA MOHAMED RASHAD AHMED** **2. MOHAMED MAHMOUD USAMA NOOMAN** **3. MAHA HANAFY MAHMOUD**	**4. AMR SOLIMAN MOHAMED AL-KASHEF**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**MAGDA MOHASEB EL –SED - AMAL YOUSEF AHMAD SAKR – MONA MOHAMAD FRED**	
(12)	**Patent**	

(54) PREPARATION AND EXTRACTION OF SOPHOROLIPIDS PRODUCED BY MICROBIAL CONVERSION OF SAFFLOWER OIL CAKE FOR THE REDUCTION OF BLOOD CHOLESTEROL

Patent Period Started From 22/08/2016 and Will end on 21/08/2036

(57) The present invention relates to preparation and extraction of sophorolipids produced from microbial conversion of safflower oil cake to reduce the blood cholesterol level, whereas these compounds were extracted from the fermented medium by methanol followed by re-extraction by ethyl acetate, methyl alcohol and distilled water. The results revealed the potency and efficiency of the produced sophorolipids from this method in reducing the total cholesterol in hypercholesterolemic rats, compared to rosuvastatin. The results also showed the effect of the extracts in reducing the level of harmful cholesterol (low density lipoprotein cholesterol) and triglycerides, while increasing the level of beneficial cholesterols (high density lipoprotein cholesterol) compared to rosuvastatin. and thus proved the effectiveness of these extracts as a drug to reduce the risk of atherosclerosis and heart diseases.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/11/2016** **1846/2016** **August 2020** **30/08/2020** **29898**

(51)	**Int. Cl. [8] H02H 5/04, 7/04**
(71)	**1. MAHMOUD ZAKARIA AMINE OMAR HENDY (EGYPT)** **2.** **3.**
(72)	**1. MAHMOUD ZAKARIA AMINE OMAR HENDY** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**(DEMZ) application for following and protection distribution transformer with (11 – 22) / 0.4 KV**
	Patent Period Started From 09/11/2016 and Will end on 08/11/2036
(57)	This application not depend on fuses only to protect the transformer which failed at continuous overloads or dissipated the oil but depend on bokhloz device to following and protected at 24 hour the transformer without operators or DC sources with very low cost as following: A- With respect to upper float in bokhloz device in alarm or warning stage By increasing the molded case circuit breaker with 220 V AC Shunt Trip coil and power proportional with transformer power, in this stage when oil temperature increased until gases formed in upper place in the bokhloz device or oil dissipated to the connection range of upper float will be connected terminal 3&4 which will be connected AC current from output of low voltage circuit breaker to the trip coil and disconnected the loads from the transformer until the responsible operator known with disconnection of current from the transformer and making required according to the usage method. B- With respect to upper float in bokhloz device in alarm or warning stage By increasing the medium voltage load break switch with 220 V AC motor with low power and size (mixer motor with power 62 watt), this moter responsible for disconnected the mechanism of transformer load break switch from feeder.

Arab Republic of Egypt
Ministry of State for Scientific Research
Academy of Scientific Research & Technology

GRANTED PATENTS' ABSTRACTS GAZETTE

"PATENTS ISSUED IN SEPTEMBER 2020 "

Egyptian Patent Office

Issue No 292 **OCTOBER 2020**

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

Bibliographic data	symbol
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Filing Date	22
Priority Number Priority Date Priority Country	30
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Patentee Name	73
Patent Attorney Name	74

List of Codes of Countries and Regional Organisations Administered by the World Intellectual Property Organisation

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SV	El Salvador
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TJ	Tajikistan
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TM	Turkmenistan
TN	Tunisia
TR	Turkey
TT	Trindad and Topago
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UA	Ukraine
UG	Uganda
US	United States of America
UY	Uruguay
UZ	Uzbekistan
VC	Saint Vincent and the Grenadines

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YD	Yemen
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
SEPTEMBER (2020)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/02/2008** **0338/2008** **March 2020** **01/09/2020** **29899**

(51)	**Int. Cl. [8] A01N 25/30, 47/36, 43/70 & A01P 13/02**
(71)	**1. FMC CORPORATION.(UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. REAP, JAMES, J.** **2. BEESTMAN, GEORGE, B.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 60/713.518 - 01-09-2005** **2. (PCT/US2006/033986) - 31-08-2006** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) LIQUID PREPARARTION FOR HERBICIDES OF SULFONYL UREA

Patent Period Started From 31/08/2006 and Will end on 30/08/2026

(57) Disclosed are single liquid-phase herbicide compositions comprising by weight, from 0.1 to 20%) of one or more sulfonylurea herbicides, from 0.1 to 20% of one or more lignosulfonates, from 0 to 99.8% of one or more fatty acid esters of C_1-C_4 alkanols, and up to 50% of one or more additional formulating ingredients.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/01/2017** **0109/2017** **May 2020** **01/09/2020** **29900**

(51)	**Int. Cl. [8] B65D 5/30, 5/32, 5/54, 5/42**
(71)	**1. Tiense Suikerraffinaderij N.V. (BELGIUM)** **2.** **3.**
(72)	**1. BORGERS, Eric** **2. VAN EXEL, Marc** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14002698.0 - 01-08-2014** **2. (PCT/EP2015/001560) - 29-07-2015** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) FOOD PACKAGE

Patent Period Started From 29/07/2015 and Will end on 28/07/2022

(57) The invention relates to a food package comprising a plurality of food products comprising granules, such as sugar cubes. The food package further comprises a packaging box arranged around the food products and comprising a body and a cover. The body is provided with a bottom wall and first and second mutually opposed side walls, therewith defining an inner space in the body for the food products. The inner space of the body is exposed at a top side for provision and removal of food products. The cover has a cover wall which at least covers said exposed inner space of the body. The body is provided with at least one strip extending above said inner space. The strip is interconnected to a corresponding one of the first and second side walls along an edge of the body, touches the cover wall - in at least a portion of the strip and at least substantially - and is configured to be elastically rotatable along the said edge of the body.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/08/2013** **1295/2013 D1** **March 2020** **07/09/2020** **29901**

(51)	**Int. Cl. [8] G10L 19/00**
(71)	**1. FRAUNHOFER-GESELLSCHAFT DER ANGEWANDTEN FORSCHUNG E.V.** **2. (GERMANY)** **3.**
(72)	**1. SETIAWAN, Panji** **2. SCHMIDT, Konstantin** **3. WILDE, Stephan**
(73)	**1.** **2.**
(30)	**1. (US) 61/442,632 - 14-02-2011** **2. (PCT/EP2012/052462) - 14-02-2012** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) AUDIO CODEC USING NOISE SYNTHESIS DURING INACTIVE PHASES

Patent Period Started From 14/02/2012 and Will end on 13/02/2032

(57) A parametric background noise estimate is continuously updated during an active or non-silence phase so that the noise generation may immediately be started with upon the entrance of an inactive phase following the active phase. In accordance with another aspect, a spectral domain is very efficiently used in order to parameterize the background noise thereby yielding a background noise synthesis which is more realistic and thus leads to a more transparent active to inactive phase switching.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/04/2017** **0653/2017** **March 2020** **07/09/2020** **29902**

(51)	**Int. Cl. [8] C04B 28/14 & E04C 2/04**
(71)	**1. SAINT-GOBAIN PLACO SAS (FRANCE)** **2.** **3.**
(72)	**1. BROOKS, Laura** **2. JUPP, Nicola** **3. SPARKES, Joanna** **4. TABOULOT, Elodie** **5. RICHARDSON, Adam** **6. JONES, Nicolas** **7. RIDEOUT, Jan**
(73)	**1.** **2.**
(30)	**1. (GB) 1420676.7 - 20-11-2014** **2. (PCT/GB2015/053536) - 19-11-2015** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) CONSTRUCTION PANEL HAVING IMPROVED FIXING STRENGTH

Patent Period Started From 19/11/2015 and Will end on 18/11/2035

(57) A plasterboard comprises a gypsum matrix having a polymeric additive distributed therein in an amount of at least 1 wt% relative to the gypsum, the gypsum matrix further having a first group of fibres and a second group of fibres embedded therein, wherein the fibres of the first group of fibres have an average length that is at least three times the average length of the fibres of the second group of fibres.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/11/2015** **1871/2015** **May 2020** **06/09/2020** **29903**

(51)	**Int. Cl. [8] F23D 14/06**
(71)	**1. Defendi Italy S.R.L.(ITALY)** **2.** **3.**
(72)	**1. PAESANI, Carlo** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) VE2013A000027 - 29-05-2013** **2. (PCT/IB2014/000901) - 28-05-2014** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54)	**IMPROVED GAS BURNER**
	Patent Period Started From 28/05/2014 and Will end on 27/05/2034

(57) An improved gas burner comprising: - an injector holder provided with means for its installation in the upper sheet metal of a cooking hob, and comprising a cup-shaped central cavity, to the base of which a central injector is applied, and further comprising two lateral cup-shaped cavities, to the base of which two lateral injectors are applied, - at least one gas inlet provided in said injector holder and connected to said injectors, - a flame divider resting on the injector holder and defining a central distribution chamber provided in its substantially cylindrical lateral wall with apertures for generating a central ring of flames, and an annular distribution chamber which is separated from said central distribution chamber by an annular cavity and is provided in its outer lateral wall with apertures for generating a ring of outwardly directed flames, - a circular closure cover for said central distribution chamber and an annular closure cover for said annular distribution chamber, - at least one connection passage between the space surrounding the burner and said annular cavity of the flame divider, characterised in that the annular chamber of the flame divider incorporates two lateral conduits which: - are disposed with their axis substantially vertical, - have their lower ends facing said lateral injectors, present an upper end portion which projects and emerges from the base of the annular distribution chamber, and are configured such as to generate an essentially vertical venturi effect.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/04/2013** **0547/2013** **March 2020** **06/09/2020** **29904**

(51)	**Int. Cl. [8] G01N 24/08 & G01F 1/56**	
(71)	**1. BAKER HUGHES INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. EDWARDS, Carl M.** **2. CHEN, Songhua** **3. LI, Lilong**	**4. ONG, Joo Tim**
(73)	**1.** **2.**	
(30)	**1. (US) 12/907,707 - 19-10-2010** **2. (PCT/US2011/051497) - 14-09-2011** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) MULTIPHASE FLOW MEASUREMENT USING NUCLEAR MAGNETIC RESONANCE

Patent Period Started From 14/09/2011 and Will end on 13/09/2031

(57) A method and apparatus for estimating a flow rate of a phase of a multiphase fluid is disclosed. A first velocity distribution is obtained for a first set of nuclei in the fluid from a Nuclear Magnetic Resonance (NMR) signal received for the fluid in response to a first NMR excitation signal. A second velocity distribution is obtained for a second set of nuclei in the fluid from an NMR signal received for the fluid in response to a second NMR excitation signal. A velocity of the phase is estimated from the first velocity distribution and the second velocity distribution. The flow rate of the phase is estimated using the estimated velocity of the phase and an estimated volume fraction of the phase.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/10/2017** **1673/2017** **May 2020** **08/09/2020** **29905**

(51)	**Int. Cl. [8] H01B 17/16, H02G 7/20**
(71)	**1. Sediver SA (FRANCE)** **2.** **3.**
(72)	**1. MESPLES Fabrice** **2. COULLOUDON Franc;:ois** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 16 60093 - 18-10-2016** **2.** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54) AN OVERHEAD POWER LINE INSULATOR WITH A PROTECTIVE LEAKAGE CURRENT DETECTOR

Patent Period Started From 11/10/2017 and Will end on 10/10/2037

(57) An overhead power line insulator comprises a dielectric element having an outside surface forming a skirt with a head extended by a metal attachment fitting for attaching the insulator, and a device for detecting surface leakage current flowing on the dielectric, the device comprising a conductive ring that surrounds the fitting and that is in contact with the outside surface of the dielectric. An electrically insulating protective element is provided in the form of a collared bushing that surrounds the fitting, being interposed between the ring and the fitting and extending radially so as to overlie the ring in order to protect it from environmental pollution.

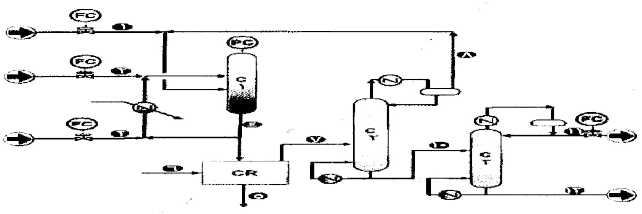
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/11/2016** **1936/2016** **May 2020** **08/09/2020** **29906**

(51)	**Int. Cl. [8] G05D 21/02**
(71)	**1. AXENS (FRANCE)** **2.** **3.**
(72)	**1. BADER Jean-Marc** **2. MAINTENANT Damien** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 15/61.827 - 03-12-2015** **2.** **3.**
(74)	**MAGDA HARON**
(12)	**Patent**

(54) USE OF AN ADVANCED MULTIVARIABLE CONTROLLER TO CONTROL ALPHABUTOL UNITS

Patent Period Started From 28/11/2016 and Will end on 27/11/2036

(57) The present invention describes a control system for units for the production of 1-butene by the oligomerization of ethylene in the presence of a homogeneous catalyst, in the liquid phase and at the bubble point, which uses a multivariable predictive controller and provides the units with better stability.



Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/08/2017** **1414/2017** **June 2020** **09/09/2020** **29907**

(51)	**Int. Cl. [8] F03D 1/02, 1/04, 7/02**
(71)	**1. GAIA S.R.L... (ITALY)** **2.** **3.**
(72)	**1. BENAZZI, Riccardo** **2. PELIZZARI, Davide** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/IT2015/000058) - 05-03-2015** **2.** **3.**
(74)	**MAGDA HARON**
(12)	**Patent**

(54)	**WIND POWER SYSTEM**
	Patent Period Started From 05/03/2015 and Will end on 04/03/2035

(57) A wind power system, comprising at least one rotor, which controls a respective driven utility apparatus, and at least one stator; the at least one rotor is provided with a plurality of vanes, arranged radially, which have a substantially flat profile, The vanes are inclined with respect to the rotation axis of the rotor through an angle comprised between 25° and 90° the system further comprises at least one stator that is arranged upstream of the at least one rotor and is provided with a tubular body that is coaxial to the shaft of the rotor and coaxial to a substantially cylindrical outer enclosure; the tubular body is provided with a tapered end fairing and with respective curved blades that are profiled to direct the air entering the system toward the outer portion of the rotor onto the vanes, according to a preset angle of incidence that is adapted to maximize the yield of the wind power system; between the inner walls of the enclosure, two adjacent blades and the tubular body there is a forced path for the air entering the system.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/05/2015** **0774/2015** **March 2020** **13/09/2020** **29908**

(51)	**Int. Cl. [8] C23C 18/12 & B05D 5/08**	
(71)	**1. EPG (ENGINEERED NANOPRODUCTS GERMANY) AG (GERMANY)** **2.** **3.**	
(72)	**1. ENDRES, Klaus** **2. SCHMIDT, Christian** **3. GENOLET, Luis**	**4. KUTZKY, Barbara** **5. SCHNEIDER, Heike**
(73)	**1.** **2.**	
(30)	**1. (DE) 10 2012 022 731.0 - 21-11-2012** **2. (PCT/EP2013/074298) - 20-11-2013** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) HIGHLY ABRASION-RESISTANT ANTI-LIME LAYERS WITH HIGH CHEMICAL RESISTANCE

Patent Period Started From 20/11/2013 and Will end on 19/11/2033

(57) The invention relates to the use of a coating of a layer comprising an inorganic vitreous matrix of an alkali metal and/or alkaline earth metal silicate, or a layer comprising an inorganic-organic hybrid matrix, or of a double layer composed of a base layer comprising an inorganic vitreous matrix of an alkali metal and/or alkaline earth metal silicate or a base layer comprising an inorganic-organic hybrid matrix and an alkali metal and alkaline earth metal silicate-free outer layer comprising a matrix of an oxidic silicon compound as anti-lime coating on at least one metal surface or inorganic surface of an article or material. The anti-lime coating may be used preferably for storage or transport facilities for water or water-containing media, such as water-containing oil or gas. The anti-lime coating is particularly suitable for pipelines, sand control systems or safety valves in oil or gas conveying or oil or gas storage.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/04/2015** **0662/2015** **May 2020** **13/09/2020** **29909**

(51)	**Int. Cl. [8] H04L 5/00, & H04W 72/04**
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. CHEN, Wanshi** **2. GEIRHOFER, Stefan** **3. GAAL, Peter**
(73)	**1.** **2.**
(30)	**1. (US) 61/722,097 - 02-11-2012** **2. (US) 14/021,980 - 09-09-2013** **3. (PCT/US2013/059079) - 10-09-2013**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**EPDCCH RESOURCE AND QUASI-CO-LOCATION MANAGEMENT IN LTE**
	Patent Period Started From 10/09/2013 and Will end on 09/09/2033

(57) An apparatus may receive a set of configurations for an EPDCCH that are tied (linked) to a set of configurations received for a PDSCH (they may be a subset of the set of PDSCH configurations). The apparatus may then receive and process the EPDCCH based on at least one configuration from the set of configurations for the EPDCCH In another aspect, the apparatus may determine at least a first and second resource set configured for a control channel (e.g. EPDCCH) and may determine a common set of aggregation levels for the first and second resource sets. The apparatus may further determine first rate-matching parameters for the first resource set and second rate- matching parameters for the second resource set, and may process the control channel using the common set of aggregation levels and the first and second rate-matching parameters. In another aspect, the apparatus determines whether a starting symbol of an enhanced physical downlink control channel (EPDCCH) is an initial symbol (i.e. its value is zero) in a subframe based on an EPDCCH configuration and refrains from decoding a subset of legacy control channels in the subframe when the starting symbol of the EPDCCH is the initial symbol in the subframe.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/03/2017** **0520/2017** **March 2020** **13/09/2020** **29910**

(51)	**Int. Cl. [8] G06M 1/08**
(71)	**1. ZHEJIANG CHINT ELECTRICS CO., LTD (CHINA)** **2.** **3.**
(72)	**1. WANG, Keming** **2. LUO, Jingxiang** **3. YANG, Yingjie**
(73)	**1.** **2.**
(30)	**1. (CN) 201410503118.6 -** **2. (PCT/CN2015/090756) - 25-09-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**BREAKER COUNTING DEVICE**
	Patent Period Started From 25/09/2015 and Will end on 24/09/2035

(57) A breaker counting device, comprising a counter and an execution lever; the counter is fixedly installed at one side of an operation mechanism of the breaker; the execution lever is pivotally installed at one side of the operation mechanism, and has respective driving connections with a counting lever of the counter and a linkage rotation shaft extending from the operation mechanism; the execution lever is provided with a reset spring thereon for providing a restoring rotation force for the execution lever; one end of the execution lever has a driving connection with the counting lever via a connection rod, and the other end of the execution lever is in a sliding contact with a suspension arm extending from an end portion of the linkage rotation shaft; one end of the connection rod is connected to the execution lever, and the other end is connected to the counting lever; and the suspension arm is driven to rotate by the operation mechanism, and drives the execution lever to rotate, such that the connection rod moves to pull the counting lever to complete counting. The device counts accurately, is stable, and has a simple structure.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/09/2015** **1495/2015** **March 2020** **13/09/2020** **29911**

(51)	**Int. Cl. [8] B01D 35/50**
(71)	**1. MECS, INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. VERA-CASTA?EDA, Ernesto** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/793,571 - 15-03-2013** **2. (PCT/US2014/029103) - 14-03-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**REGENERATIVE RECOVERY OF CONTAMINANTS FROM EFFLUENT GASES**
	Patent Period Started From 14/03/2014 and Will end on 13/03/2034

(57) A contaminant gas is removed from a feed gas in two absorption and stripping circuits operated in tandem. The gas is first passed through a rich gas absorber producing a rich absorption liquor from which contaminant gas is stripped in a rich liquor stripper. A lean gas exiting the rich gas absorber is passed through a lean gas absorber, producing a lean absorption liquor from which contaminant gas is stripper in a lean liquor stripper. Regenerated absorption media exiting the respective strippers are recirculated to the respective absorbers.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/09/2015** **1538/2015** **March 2020** **13/09/2020** **29912**

(51)	**Int. Cl. [8] C01B 17/765**
(71)	**1. MECS, INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. VERA-CASTA?EDA, Ernesto** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/794,855 - 15-03-2015** **2. (PCT/US2014/029220) - 14-03-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) RECOVERY OF SULFUR TRIOXIDE HEAT OF ABSORPTION

Patent Period Started From 14/03/2014 and Will end on 13/03/2034

(57) A contact process for manufacture of sulfuric acid in which the vapor phase heat of formation of sulfuric acid in the sulfur trioxide conversion gas and the heat of absorption of SO_3 in sulfuric acid is recovered by transfer of heat from the absorption acid to high pressure boiler feed water that is fed to a waste heat boiler where steam is generated by transfer of heat from sulfur dioxide combustion gas.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/03/2016** **0379/2016** **May 2020** **13/09/2020** **29913**

(51)	**Int. Cl. [8] H04L 1/00, 5/00, 27/26 & H04B 7/04, 7/06 & H04W 72/04, 72/08**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. VERMANI, Sameer** **2. TIAN, Bin** **3. TANDRA, Rahul**	**4. MERLIN, Simone**
(73)	**1.** **2.**	
(30)	**1. (US) 61/876,031 - 10-09-2013** **2. (US) 14/460,485 - 15-08-2014** **3. (PCT/US2014/051466) - 18-08-2014**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) MULTI-USER MULTIPLE-INPUT MULTIPLE-OUTPUT (MU-MIMO) FEEDBACK PROTOCOL

Patent Period Started From 18/08/2014 and Will end on 17/08/2034

(57) In a wireless network having a plurality of devices configured to communicate using a beamforming technique, a method includes sending a trigger packet from a first device of the wireless network to a plurality of second devices of the wireless network. The trigger packet includes trigger data configured to cause the plurality of second devices to perform channel measurement based on the trigger data. The method also includes receiving feedback information from each of the plurality of second devices in response to the trigger packet.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/05/2015** **0714/2015** **May 2020** **13/09/2020** **29914**

(51)	**Int. Cl. [8] H04W 48/20**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. PICA, Francesco** **2. HORN, Gavin Bernard** **3. KAPOOR, Rohit**	**4. SAMBHWANI, Sharad Deepak**
(73)	**1.** **2.**	
(30)	**1. (US) 61/726,400 - 14-11-2012** **2. (US) 13/954,771 - 30-07-2013** **3. (PCT/US2013/069825) - 13-11-2013**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) **USER EQUIPMENT AND METHOD OF CONTROLLING CALL ESTABLISHMENT TO A WLAN ACCESS NODE OR WWAN ACCESS NODE BASED ON WWAN LOAD-RELATED INFORMATION**

Patent Period Started From 13/11/2013 and Will end on 12/11/2033

(57) Apparatus and methods of controlling call establishment are described. A user equipment (UE) may determine to establish a call. In an aspect, the UE may detect a Wireless Local Area Network (WLAN) access node and receive, from a Wireless Wide Area Network (WWAN) access node, WWAN load-related information. Based on UE call establishment rules and the WWAN load-related information, the UE may determine whether to establish the call on the WWAN access node or the WLAN access node. In another aspect, the UE may determine WLAN access node characteristics associated with a received signal from a WLAN access node. The UE may forward a call establishment request, including the WLAN access node characteristics to a WWAN access node. The UE may receive a redirection command to redirect the call establishment request to the WLAN access node.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/11/2016** **1855/2016** **May 2020** **13/09/2020** **29915**

(51)	**Int. Cl. [8] H04W 72/12 & H04B 7/26 & H04L 5/00**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. JI, Tingfang** **2. SMEE, John Edward** **3. SORIAGA, Joseph Binamira** **4. BHUSHAN, Naga** **5. GAAL, Peter**	**6. GOROKHOV, Alexei Yurievitch** **7. MUKKAVILLI, Krishna Kiran** **8. ANG, Peter** **9. HOWARD, Michael Alexander** **10. COOPER, Rotem**
(73)	**1.** **2.**	
(30)	**1. (US) 62/000,443 - 19-05-2014** **2. (US) 62/000,454 - 19-05-2014** **3. (US) 14/567,985 - 11-12-2014** **4. (PCT/US2015/029964) - 08-05-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54)	**PPARATUS AND METHOD FOR INTER-BAND PAIRING OF CARRIERS FOR TIME DIVISION DUPLEX TRANSMIT- AND RECEIVE-SWITCHING AND ITS APPLICATION TO MULTIPLEXING OF DIFFERENT TRANSMISSION TIME INTERVALS**
	Patent Period Started From 08/05/2015 and Will end on 07/05/2035

(57) Aspects of the present disclosure provide for the pairing of an inter-band carrier with a time division duplex (TDD) carrier. If the paired band is a frequency division duplex (FDD) band, then base stations and mobile devices may transmit and receive additional thin control channels on FDD carriers to enable full duplex operations. If the paired band is a TDD band, then a conjugate or inverse carrier may be used such that full duplex, or a close approximation thereto, is achieved. With the introduction of a paired channel and fast control channels, rapid uplink/downlink switching may be achieved for TDD carriers efficiently and effectively. Other aspects, embodiments, and features are also claimed and described.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/11/2016** **1856/2016** **May 2020** **13/09/2020** **29916**

(51)	**Int. Cl. [8] H04W 72/12 & H04B 7/26 & H04L 5/00**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. JI, Tingfang** **2. SMEE, John Edward** **3. SORIAGA, Joseph Binamira** **4. BHUSHAN, Naga** **5. GAAL, Peter**	**6. GOROKHOV, Alexei Yurievitch** **7. MUKKAVILLI, Krishna Kiran** **8. ANG, Peter** **9. HOWARD, Michael Alexander** **10. COOPER, Rotem**
(73)	**1.** **2.**	
(30)	**1. (US) 62/000,443 - 19-05-2014** **2. (US) 62/000,454 - 19-05-2014** **3. (US) 14/567,993 - 11-11-2014** **4. (PCT/US2015/029973) - 08-05-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54)	**APPARATUS AND METHOD FOR INTER-BAND PAIRING OF CARRIERS FOR TIME DIVISION DUPLEX TRANSMIT- AND RECEIVE-SWITCHING AND ITS APPLICATION TO MULTIPLEXING OF DIFFERENT TRANSMISSION TIME INTERVALS**
	Patent Period Started From 08/05/2015 and Will end on 07/05/2035

(57) Aspects of the present disclosure provide for the pairing of an inter-band carrier with a time division duplex (TDD) carrier. If the paired band is a frequency division duplex (FDD) band, then base stations and mobile devices may transmit and receive additional thin control channels on FDD carriers to enable full duplex operations. If the paired band is a TDD band, then a conjugate or inverse carrier may be used such that full duplex, or a close approximation thereto, is achieved. With the introduction of a paired channel and fast control channels, rapid uplink/downlink switching may be achieved for TDD carriers efficiently and effectively. Other aspects, embodiments, and features are also claimed and described.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/07/2016** **1209/2016** **March 2020** **14/09/2020** **29917**

(51)	**Int. Cl. [8]** **F16C 11/06, 17/10, 19/14, 33/10, 37/20, 33/32, 33/38, 33/74, 33/78 & H02S 20/30**
(71)	**1. PARU CO., LTD. Company (south KOREA)** **2.** **3.**
(72)	**1. KANG, Moon Sig** **2. SONG, Kem Suk** **3.**
(73)	**1.** **2.**
(30)	**1. (KR) 10-2015-0116460 - 19-08-2015** **2. (KR) 10-2016-0004612 - 14-01-2016** **3. (PCT/KR2016/000546) - 19-01-2016**
(74)	**OFFICE SHALAKANY CONSULTING LAW FIRM**
(12)	**Patent**

(54) ROTATION SUPPORT DEVICE

Patent Period Started From 19/01/2016 and Will end on 18/01/2036

(57) Disclosed herein is a rotation support apparatus. The rotation support apparatus includes: an external casing; a rotation body rotatably provided inside the external casing, the rotation body being configured such that a rotary shaft is inserted into the rotation body, and the rotation body is rotated in conjunction with the rotary shaft when the rotary shaft rotates; and a plurality of rolling balls provided in a contact portion between the external casing and the rotation body or a plurality of grooves for storing lubricant in the plurality of grooves provided in the outer circumferential surface of the rotation body.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/01/2014** **0044/2014** **March 2020** **15/09/2020** **29918**

(51)	**Int. Cl. [8] H04N 7/26 & H03M 7/40**	
(71)	**1. GE Video Compression LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. GEORGE, Valerie** **2. MARPE, Detlev** **3. HENKEL, Anastasia**	**4. SCHIERL, Thomas** **5. KIRCHHOFFER, Heiner**
(73)	**1.** **2.**	
(30)	**1. (US) 61/508,477 - 15-07-2011** **2. (PCT/EP2012/063929) - 16-07-2012** **3.**	
(74)	**NAHED WADE REZK**	
(12)	**Patent**	

(54) SAMPLE ARRAY CODING FOR LOW-DELAY

Patent Period Started From 16/07/2012 and Will end on 15/07/2032

(57) The entropy coding of a current part of a predetermined entropy slice is based on, not only, the respective probability estimations of the predetermined entropy slice as adapted using the previously coded part of the predetermined entropy slice, but also probability estimations as used in the entropy coding of a spatially neighboring, in entropy slice order preceding entropy slice at a neighboring part thereof. Thereby, the probability estimations used in entropy coding are adapted to the actual symbol statistics more closely, thereby lowering the coding efficiency decrease normally caused by lower-delay concepts. Temporal interrelationships are exploited additionally or alternatively.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/08/2016** **1305/2016** **March 2020** **15/09/2020** **29919**

(51)	**Int. Cl. [8] F27D 25/00 & B08B 7/00 & F23J 3/02 & F28G 7/00**
(71)	**1. BANG & CLEAN GMBH (SWITZERLAND)** **2.** **3.**
(72)	**1. BURGIN, Markus** **2. FLURY, Rainer** **3.**
(73)	**1.** **2.**
(30)	**1. (CH)177/14 - 11-02-2014** **2. (PCT/CH2015/000011) - 04-02-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**METHOD AND DEVICE FOR CLEANING INTERIORS OF CONTAINERS AND SYSTEMS**
	Patent Period Started From 04/02/2015 and Will end on 03/02/2035

(57) The invention relates to a method and a cleaning device for removing deposits from interiors of containers and systems by means of explosive technology. The cleaning device contains a cleaning appliance having a receiving space and at least one pressure container connected to the cleaning appliance via at least one metering fitting. The introduction of the at least one gaseous component into the cleaning appliance is controlled in accordance with the principle of the pressure difference between a maximum pressure at the start of the introduction and a desired residual pressure following completion of the introduction. To this end, the desired residual pressure in the pressure container is defined on the basis of the quantity of gaseous component to be introduced, starting from the maximum pressure, and the introduction of the at least one gaseous component is stopped when the.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/09/2017** **1594/2017** **May 2020** **15/09/2020** **29920**

(51)	**Int. Cl. [8] C07C 2/30, 11/107 & B01J 31/22 & C07B 61/00**
(71)	**1. MITSUBISHI CHEMICAL CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. EMOTO Hiroki** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2015-066777 - 27-03-2015** **2. (PCT/JP2016/059246) - 23-03-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**PRODUCTION METHOD FOR -OLEFIN OLIGOMER**
	Patent Period Started From 23/03/2016 and Will end on 22/03/2036

(57) The purpose of the present invention is to provide a method for efficiently producing an olefin oligomer having suppressed aging deterioration of catalytic activity, high olefin oligomer selectivity, and a high olefin oligomer yield. The present invention pertains to a method whereby: an olefin oligomerization reaction using a catalyst including a chlorine atom-containing compound (d) is performed, in the presence of a reaction solvent; and an olefin oligomer is obtained. The production method provides a prescribed ratio of the chlorine atom-containing compound (d), being at least two types of compound having a specified chlorine atom separation speed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/10/2017** **1634/2017** **May 2020** **15/09/2020** **29921**

(51)	**Int. Cl. [8] G06F 21/31, 21/45**
(71)	**1. WUXI HISKY MEDICAL TECHNOLOGIES CO., LTD (CHINA)** **2.** **3.**
(72)	**1. SHAO, Jinhua** **2. SUN, Jin** **3. DUAN, Houli**
(73)	**1.** **2.**
(30)	**1. (CN) 201510170707.1 - 10-04-2015** **2. (PCT/CN2015/081943) - 19-06-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**USAGE CONTROL METHOD AND SYSTEM FOR MEDICAL DETECTION DEVICE AND MEDICAL DETECTION DEVICE**
	Patent Period Started From 19/06/2016 and Will end on 18/06/2036

(57) A usage control method and system for a medical detection device and a medical detection device. The method comprises: a medical detection device receiving an operation instruction inputted by an operator, and prompting the operator to input an authorization file if the operation instruction is an instruction indicating to conduct configuration authorization; receiving the authorization file inputted by the operator, and displaying an operation interface corresponding to the operation instruction if the authorization file passes verification, wherein the authorization file is generated by a dongle inserted into the medical detection device according to the available number of times and a device identifier of the device; and the medical detection device executing a configuration content inputted by the operator on the operation interface. Since the authorization file has uniqueness for the medical detection device, and an unauthorized operator cannot easily obtain the authorization file, the usage operation security of the medical detection device can be greatly improved.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/01/2017** **0054/2017** **May 2020** **15/09/2020** **29922**

(51)	**Int. Cl. [8] E03D 11/02, 11/06 & F03D 11/08**
(71)	**1. IDEAL , STANDARD (UK) LIMITED (UNITED KINGDOM)** **2.** **3.**
(72)	**1. PEARSON, John Mark Richard** **2. HEATON, Michael Ian** **3.**
(73)	**1.** **2.**
(30)	**1. (GB) 1412805.2 - 18-07-2014** **2. (PCT/GB2015/052096) - 20-07-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**TOILET BOWL UNIT**
	Patent Period Started From 20/07/2015 and Will end on 19/07/2035

(57) A toilet bowl unit comprises a toilet bowl with an inner toilet bowl surface having an upper peripheral portion, a central peripheral portion and a lower sump portion. A peripheral slot separates a lower edge of the upper peripheral portion from an upper edge of the central peripheral portion. A peripheral water channel is concealed inside the toilet bowl unit and has a side wall which is a weir over which water may flow into the peripheral slot. The slot has a discharge opening which is substantially horizontal at the rear and sides of the inner toilet bowl surface, for discharging a curtain of water, and includes at least one serpentine portion at the front of the inner toilet bowl surface, for discharging a jet of water. The horizontal portions of the discharge opening are positioned just below a seat platform surface in order to minimise the unwashed area at the top of the inner toilet bowl surface.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/03/2016** **0509/2016 D1** **March 2020** **16/09/2020** **29923**

(51)	**Int. Cl. [8] H04W 28/02**
(71)	**1. NEC CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. ONISHI, Koji** **2. TAMURA, Toshiyuki** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2013-202034 - 27-09-2013** **2. (PCT/JP2014/004628) - 09-09-2014** **3.**
(74)	**SONIA FAYEK FARAG**
(12)	**Patent**

(54) COMMUNICATION SYSTEM, BASE STATION, COMMUNICATION METHOD, AND NON-TRANSITORY COMPUTER READABLE MEDIUM STORING PROGRAM

Patent Period Started From 09/09/2014 and Will end on 08/09/2034

(57) An object is to provide a communication system, a base station, a communication method, and a program capable of eliminating an effect caused by a sharp increase in the amount of traffic by a specific group of communication terminals on the quality of the other communication terminals. A communication system according to the present invention includes a communication terminal, and a node device that selects a gateway device that performs data communication with the communication terminal. Further, the communication system includes a base station that selects the node device based on an identifier included in a connection request message transmitted from the communication terminal.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/03/2016** **0509/2016** **March 2020** **16/09/2020** **29924**

(51)	**Int. Cl. [8] H04W 28/02**
(71)	**1. NEC CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. ONISHI, Koji** **2. TAMURA, Toshiyuki** **3.**
(73)	**1.** **2.**
(30)	**1. (JP) 2013-202034 - 27-09-2013** **2. (PCT/JP2014/004628) - 09-09-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) COMMUNICATION SYSTEM, BASE STATION, COMMUNICATION METHOD, AND NON-TRANSITORY COMPUTER READABLE MEDIUM STORING PROGRAM

Patent Period Started From 09/09/2014 and Will end on 08/09/2034

(57) An object is to provide a communication system, a base station, a communication method, and a program capable of eliminating an effect caused by a sharp increase in the amount of traffic by a specific group of communication terminals on the quality of the other communication terminals. A communication system according to the present invention includes a communication terminal, and a node device that selects a gateway device that performs data communication with the communication terminal. Further, the communication system includes a base station that selects the node device based on an identifier included in a connection request message transmitted from the communication terminal.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** 18/09/2016 **(21)** 1530/2016 **(44)** April 2020 **(45)** 20/09/2020 **(11)** 29925

(51)	**Int. Cl. [8] F25J 3/08**	
(71)	**1. Lummus Technology Inc. (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. GASKIN, Thomas, K** **2. YAMIN, Fereidoun** **3. PATEL, Sanjiv, N**	**4. BALKO, Catherine, L**
(73)	**1.** **2.**	
(30)	**1. (US) 61/953.355 - 14-03-2014** **2. (PCT/US2015/020360) - 13-03-2015** **3.**	
(74)	**NAHED WADIH RIZK**	
(12)	**Patent**	

(54) PROCESS AND APPARATUS FOR HEAVY HYDROCARBON REMOVAL FROM LEAN NATURAL GAS BEFORE LIQUEFACTION

Patent Period Started From 13/03/2015 and Will end on 12/03/2035

(57) A process is described herein for removing high freeze point hydrocarbons, including benzene compounds, from a mixed feed gas stream. The process involves cooling process streams in one or more heat exchangers and separating condensed compounds in multiple separators to form a methane-rich product gas stream. Select solvent streams from a fractionation train and/or separate solvent streams are employed to lower the freeze point of one or more streams that contain high freeze point hydrocarbons. A corresponding system also is disclosed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/11/2016** **1812/2016** **April 2020** **20/09/2020** **29926**

(51)	**Int. Cl. [8] E21B 10/02, 10/42, 10/62**
(71)	**1. Baker Hughes Incorporated (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. UHLENBERG , Thomas** **2. RICHERT ,Volker** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 14/274,495 - 09-05-2014** **2. (PCT/US2015/029902) - 08-05-2015** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54)	**CORING TOOLS AND RELATED METHODS**
	Patent Period Started From 08/05/2015 and Will end on 07/05/2035

(57) A coring bit for extracting a sample of subterranean formation material from a well bore may include a bit body having a bit face and an inner surface defining a substantially cylindrical cavity of the bit body. A first portion of the inner surface may be configured to surround a core catcher. The coring bit may include a face discharge channel inlet formed in the inner surface of the bit body longitudinally at or above the first portion of the inner surface. The coring bit may also include a face discharge channel extending through the bit body from the face discharge channel inlet to the bit face. A tubular body having a core catcher may be disposed in the coring bit to form a coring tool. Methods of forming such bit bodies may include forming an inlet for a face discharge channel in the inner surface of the bit body at a location longitudinally at or above the first portion of the inner surface and forming a face discharge channel extending from the inlet to the bit face.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/08/2017** **1436/2017** **May 2020** **20/09/2020** **29927**

(51)	**Int. Cl. [8] F23D 14/06**
(71)	**1. Defendi Italy S.R.L. (ITALY)** **2.** **3.**
(72)	**1. EMILIANI, Girolamo Tommaso** **2. BRECCIA, Luca** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) VE2015A000009 - 10-03-2015** **2. (PCT/IB2016/051326) - 09-03-2016** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54)	**IMPROVED GAS BRUNER**
	Patent Period Started From 09/03/2016 and Will end on 08/03/2036

(57) A gas burner with at least two flame rings, characterized by consisting of: - an injector holder provided with a single vertical injector positioned centrally on the injector base, - a flame divider with an outer chamber of overall annular development, and an inner chamber of overall circular development, between which an annular cavity is interposed, - a cover made in one piece and comprising a central discoidal portion, which upperly closes said inner circular chamber, and an annular portion which upperly closes said outer annular chamber, and in that: - said flame divider lowerly comprises means for the resting of said flame divider on said injector holder, and its connection thereto, - the inner circular chamber of said flame divider comprises a single substantially vertical channel facing said single vertical injector of said injector holder, said substantially vertical conduit opening into a radial chamber of venturi effect defined in said inner chamber of the flame divider and upperly bounded by the central discoidal portion of said cover, - said flame divider comprises at least one substantially radial channel for fluidic connection between said inner circular chamber and said outer annular chamber, said radial chamber being closed upperly by a corresponding radial part of said cover, - said at least two flame rings comprising a first ring of flames, generated at ports provided in the outer wall of said outer annular chamber of the flame divider, and at least one second ring of flames which can be generated at ports provided in the inner wall of said outer annular chamber of the flame divider, or at ports provided in the lateral wall of said inner chamber of the flame divider or at ports provided in both the inner wall of said outer annular chamber and said lateral

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/09/2015** **1370/2015** **April 2020** **23/09/2020** **29928**

(51)	**Int. Cl. [8] H01L 31/0216**
(71)	**1. Vitro Flat Glass LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. POLCYN, Adam, D** **2. GANJOO, Ashtosh** **3. MCCAMY, James, W**
(73)	**1.** **2.**
(30)	**1. (US) 61/777,329 - 12-03-2013** **2. (PCT/US2014/021483) - 07-03-2014** **3.**
(74)	**ABD ELHADI OFFICE**
(12)	**Patent**

(54)	**PHOTOVOLTAIC CELL HAVING AN ANTIREFLECTIVE COATING**
	Patent Period Started From 07/03/2014 and Will end on 06/03/2034

(57) The present invention relates to a photovoltaic cell that includes a transparent substrate that has a first surface and a second surface. A transparent conductive oxide coating resides over the second surface of the transparent substrate. A photovoltaic coating resides over the transparent conductive oxide coating. The photovoltaic cell also includes an antireflective coating that resides over the first surface of the transparent substrate. The antireflective coating includes, in order from the first surface of the transparent substrate: a first layer that includes one or more metal oxides, for example, zinc stannate; a second layer that includes one or more metal oxides, for example, silica and alumina; a third layer that includes one or more metal oxides, for example, zinc stannate; and a fourth layer that includes one or more metal oxides, for example, silica.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/08/2017** **1460/2017** **April 2020** **23/09/2020** **29929**

(51)	**Int. Cl. [8] C11D 1/29, 3/04, 3/10, 3/12, 3/50, 17/06**	
(71)	**1. The Procter & Gamble Company (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CONSTABLE, Andrew, Richard** **2. CHIEFFI, Andre** **3. CLARE, Jonathan, Richard**	**4. BROOKER, Alan, Thomas** **5. PICKERING, Carly** **6. GOULD, Paul, Anthony**
(73)	**1.** **2.**	
(30)	**1. (EP) 15161704.0 - 30-03-2015** **2. (PCT/US2016/024814) - 30-03-2016** **3.**	
(74)	**AMR MOFEED ELDEEB**	
(12)	**Patent**	

(54) SOLID FREE-FLOWING PARTICULATE LAUNDRY DETERGENT COMPOSITION

Patent Period Started From 30/03/2016 and Will end on 29/03/2036

(57) The present invention relates to a solid free-flowing particulate laundry detergent composition comprising: (a) from 0.5wt% to 20wt% AES particle comprising: (i) from 40wt% to 60wt% partially ethoxylated alkyl sulphate anionic detersive surfactant, wherein the partially ethoxylated alkyl sulphate anionic detersive surfactant has a molar average degree of ethoxylation of from 0.8 to 1.2, and wherein the partially ethoxylated alkyl sulphate anionic detersive surfactant has a molar ethoxylation distribution such that: (i.i) from 40wt% to 50wt% is unethoxylated, having a degree of ethoxylation of 0; (i.ii) from 20wt% to 30wt% has a degree of ethoxylation of 1; (i.iii) from 20wt% to 40wt% has a degree of ethoxylation of 2 or greater; (ii) from 20wt% to 50wt% salt, wherein the salt is selected from sulphate salt and/or carbonate salt; and (iii) from 10wt% to 30wt% silica; and (b) from 0.01wt% to 2wt% perfume, wherein the perfume comprises at least 60wt% of perfume materials having a ClogP of 3.0 or greater.

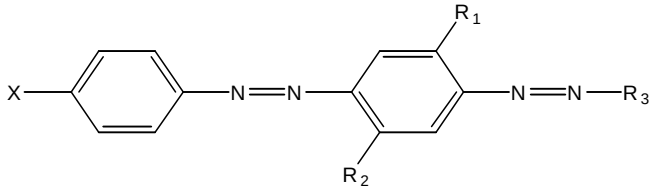
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/08/2017** **1462/2017** **April 2020** **23/09/2020** **29930**

(51)	**Int. Cl. [8] C11D 1/22, 3/10, 3/37, 3/08, 3/12, 3/40**
(71)	**1. The Procter & Gamble Company (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. TANTAWY, Hossam, Hassan** **2. PORTER, Adam** **3. CHIEFFI, Andre** **4. DORGAN, Jill** **5. MCMEEKIN, Anthony** **6. GOULD, Paul, Anthony** **7. CAUFIELD, William, Alexander**
(73)	**1.** **2.**
(30)	**1. (EP) 15161715.6 - 30-03-2015** **2. (PCT/US2016/024817) - 30-03-2016** **3.**
(74)	**AMR MOFEED ELDEEB**
(12)	**Patent**

(54) SOLID FREE-FLOWING PARTICULATE LAUNDRY DETERGENT COMPOSITION

Patent Period Started From 30/03/2016 and Will end on 29/03/2036

(57) The present invention relates to a solid free-flowing particulate laundry detergent composition comprising: (a) from 0.1wt% to 5wt% hueing agent particle comprising: (i) from 2wt% to 10wt% hueing agent, wherein the hueing agent has the following structure, formula (IV), wherein: R1 and R2 are independently selected from the group consisting of: H; alkyl; alkoxy; alkyleneoxy; alkyl capped alkyleneoxy; urea; and amido; R3 is a substituted aryl group; X is a substituted group comprising sulfonamide moiety and optionally an alkyl and/or aryl moiety, and wherein the substituent group comprises at least one alkyleneoxy chain that comprises an average molar distribution of at least four alkyleneoxy moieties; and (ii) from 60wt% to 98wt% clay; and (b) from 35wt% to 80wt% spray-dried particle comprising: (a) from 8wt% to 24wt% alkyl benzene sulphonate anionic detersive surfactant; (b) from 5w% to 18wt% silicate salt; (c) from 0wt% to 10wt% sodium carbonate; and (d) from 0wt% to 5wt% carboxylate polymer.



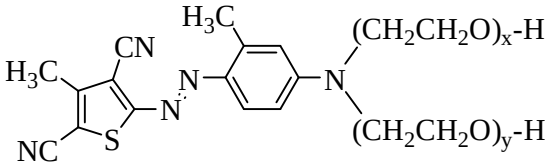
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/09/2017** **1546/2017** **April 2020** **23/09/2020** **29931**

(51)	**Int. Cl. [8] C11D 1/29, 3/04, 3/10, 3/12, 3/40, 17/06**	
(71)	**1. The Procter & Gamble Company (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CHIEFFI, Andre** **2. DORGAN, Jill, Robyn** **3. MCMEEKIN, Anthony** **4. BROOKER, Alan, Thomas** **5. PICKERING, Carly**	**6. GOULD, Paul, Anthony** **7. CAUFIELD, William, Alexander** **8. SMALLEY, Laura, Judith** **9. IRVINE, Michael, Richard**
(73)	**1.** **2.**	
(30)	**1. (EP) 15162357.6 - 02-04-2015** **2. (PCT/US2016/025449) - 01-04-2016** **3.**	
(74)	**AMR MOFEED ELDEEB**	
(12)	**Patent**	

(54) SOLID FREE-FLOWING PARTICULATE LAUNDRY DETERGENT COMPOSITION

Patent Period Started From 01/04/2016 and Will end on 31/03/2036

(57) The present invention relates to a solid free-flowing particulate laundry detergent composition comprising: (a) from 0.1 wt% to 5 wt% hueing agent particle comprising: (i)



from 2wt% to 10wt% hueing agent, wherein the hueing agent has the following structure: wherein the index values x and y are independently selected from 1 to 10; and (ii) from 60wt% to 98wt% clay; and (b) from 0.5wt% to 20wt% AES particle comprising: (i) from 40wt% to 60wt% partially ethoxylated alkyl sulphate anionic detersive surfactant, wherein the partially ethoxylated alkyl sulphate anionic detersive surfactant has a molar average degree of ethoxylation of from 0.8 to 1.2, and wherein the partially ethoxylated alkyl sulphate anionic detersive surfactant has a molar ethoxylation distribution such that: (i.i) from 40wt% to 50wt% is unethoxylated, having a degree of ethoxylation of 0; (i.ii) from 20wt% to 30wt% has a degree of ethoxylation of 1; (i.iii) from 20wt% to 40wt% has a degree of ethoxylation of 2 or greater; (ii) from 20wt% to 50wt% salt, wherein the salt is selected from sulphate salt and/or carbonate salt; and (iii) from 10wt% to 30wt% silica.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/12/2017** **2103/2017** **April 2020** **23/09/2020** **29932**

(51)	**Int. Cl. [8] F16L 21/06, 37/62 & B25B 25/00**
(71)	**1. VETCO GRAY SCANDINAVIA AS. (NORWAY)** **2.** **3.**
(72)	**1. EIDE, Arne Olav** **2. GLOMLIEN, Gaute** **3.**
(73)	**1.** **2.**
(30)	**1. (NO) 20150849 - 26-06-2015** **2. (PCT/EP2016/063727) - 15-06-2016** **3.**
(74)	**AMR MOFEED ELDEEP**
(12)	**Patent**

(54) HYDRAULIC TOOL FOR USE WITH A CLAMP CONNECTOR

Patent Period Started From 15/06/2016 and Will end on 14/06/2036

(57) A hydraulic tool for use with a clamp connector of the type where a first clamping element and a second clamping element of the clamp connector are pivotable towards each other into a closed position by exerting a pulling force on an operating shaft and a pushing force on a spacer sleeve, and where said first and second clamping elements are lockable in said closed position by tightening a locking nut against a shoulder on the spacer sleeve. The tool comprises: a pulling element; a hydraulic power unit for moving the pulling element in relation to the spacer sleeve and thereby allow the hydraulic tool to exert a pulling force on the operating shaft and a pushing force on the spacer sleeve; a rotatable actuating member with a socket engageable with the locking nut; and a drive motor for rotating the actuating member so as to allow the actuating member to rotate the locking nut.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**2017/04/04** **2017/0583** **May 2020** **25/09/2020** **29933**

(51)	**Int. Cl. [8] F22B 1/18, & F22D 1/00**
(71)	**1. NOOTER/ERIKSEN INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. HENNESSEY, James R** **2. HENNESSEY, Shaun P** **3. POLONSKY, Vladimir S**
(73)	**1.** **2.**
(30)	**1. (US) 62/062,055 - 09-10-2014** **2. (PCT/US2015/054927) - 09-10-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**ONCE THROUGH VERTICAL TUBED SUPERCRITICAL EVAPORATOR COIL FOR AN HRSG**
	Patent Period Started From 09/10/2015 and Will end on 08/10/2035

(57) Disclosed is a Once-Through Steam Generator (OTSG) coil and method, comprising a plurality of vertically arranged serpentine conduits in a horizontal heat recovery steam generator (HRSG) that replaces a traditional natural circulation HP evaporator for producing supercritical steam. The OTSG comprises a lower equalization header system that promotes system stability in multiple operating conditions. The equalization header allows a partial flow of fluid from the lower serpentine curved flow path through an equalization conduit into the equalization header Disclosed also are: a flow restriction device in serpentine conduits; drainage structure from serpentine conduits through the equalization header, a drainage expansion section to accommodate stresses, and drainage bypass connections; and flow through serpentine conduits in upstream and downstream directions, mixed flow directions and longitudinally staggered directions.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/06/2016** **0998/2016** **May 2020** **25/09/2020** **29934**

(51)	**Int. Cl. [8] B65D 47/08**
(71)	**1. HENKEL AG & CO. KGAA (GERMANY)** **2.** **3.**
(72)	**1. GERHARDS, Katja** **2. Borger,Daunielle** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2013 226 147.0 - 17-12-2013** **2. (PCT/EP2014/072952) - 27-10-2014** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**CLOSURE FOR A CONTAINER**
	Patent Period Started From 27/10/2014 and Will end on 26/10/2034

(57) The invention relates to a closure which is intended for a container and comprises a base part, which can be fastened on the container, and a hinged lid, which is connected to the base part so as to be pivotable about a pivot axis, closes a closure opening of the base part in a closure position and has a lid roof bounded by a periphery, wherein the hinged lid has a pressure-exerting region in the front part, so that the hinged lid can be pushed out of the closure position by a certain amount of opening force (Fo) being applied by a finger. The closure according to the invention is distinguished in that a supporting region is defined in a rear part of the hinged lid, this supporting region establishing the position for another finger, by means of which the hinged lid can be subjected to a counter-force (FG), acting substantially in the direction counter to the opening force (Fo).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/09/2016** **1488/2016** **April 2020** **24/09/2020** **29935**

(51)	**Int. Cl. [8] A61M 39/22, 39/24**
(71)	**1. FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH (GERMANY)** **2.** **3.**
(72)	**1. LAUER, Martin** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2014 103508.9 - 14-03-2014** **2. (PCT/EP2015/055321) - 13-03-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**PRESTRESSED VALVE FOR MEDICAL FUNCTIONAL DEVICE, AND MEDICAL FUNCTIONAL DEVICE**
	Patent Period Started From 13/03/2015 and Will end on 12/03/2035

(57) The present invention relates to a valve arrangement for a medical functional device, said valve arrangement having a valve body which is connected to a cap produced separately, the valve body comprising at least one element or spring element that effects prestressing of the valve body in the cap.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/05/2017** **0816/2017** **May 2020** **25/09/2020** **29936**

(51)	**Int. Cl. [8] B67D 9/02 & B63B 27/34 & F16L 29/00**
(71)	**1. SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V (NETHERLANDS)** **2.** **3.**
(72)	**1. VEGA PEREZ, Pablo, Antonio** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14193774.8 - 19-11-2014** **2. (PCT/EP2015/076771) - 17-11-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) LOADING ASSEMBLY FOR CONVEYING A PRESSURIZED GAS STREAM AND A SWITCHING SYSTEM FOR USE IN SUCH A LOADING ASSEMBLY

Patent Period Started From 17/11/2015 and Will end on 16/11/2035

(57) The present invention relates to a loading assembly for conveying a pressurized gas stream between a floating structure and an other structure. The loading assembly comprises a coupling device to create a gas connection between a first and second gas conduit, a hydraulic actuator mechanically coupled to the coupling device to move the coupling device and a switching system arranged between a high pressure hydraulic fluid source, a low pressure hydraulic fluid reservoir and the hydraulic actuator, wherein the switching system comprises a biased pneumatically actuated switch which has a biased position corresponding to the open state of the coupling device and an override position corresponding to the closed state of the coupling device, wherein the override position is activated by the gas pressure in the gas connection.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/09/2016** **1487/2016** **May 2020** **25/09/2020** **29937**

(51)	**Int. Cl. [8] A61M 39/24**
(71)	**1. FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH (GERMANY)** **2.** **3.**
(72)	**1. LAUER, Martin** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (DE) 10 2014 103 507.0 - 14-03-2014** **2. (PCT/EP2015/055298) - 13-03-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) FUNCTIONAL MEDICAL DEVICE WITH A VALVE SEAT FOR A REMANENT NON-RETURN VALVE

Patent Period Started From 13/03/2015 and Will end on 12/03/2035

(57) The invention relates to a functional medical device with a valve seat) for a non-return valve. In addition to a first position which is suitable for sterilizing gas, the non-return valve is designed to assume a second functional position, in which the non-return valve exerts a non-return function, by applying a force onto a portion of the non-return valve and/or by moving the non-return valve. The non-return valve is designed to remain in the second position after being successfully converted into the second position after the force and/or the moving element has been removed.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/03/2017** **0387/2017** **April 2020** **25/09/2020** **29938**

(51)	**Int. Cl. [8] A61B 8/08**
(71)	**1. WUXI HISKY MEDICAL TECHNOLOGIES CO., LTD. (CHINA)** **2.** **3.**
(72)	**1. SHAO, Jinhua** **2. SUN, Jin** **3. DUAN, Houli**
(73)	**1.** **2.**
(30)	**1. (CN) D201420526844.5 - 12-09-2014** **2. (PCT/CN2015/081866) - 18-06-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**ELASTICITY DETECTION PROBE**
	Patent Period Started From 18/06/2015 and Will end on 17/06/2035

(57) An elasticity detection probe. The elasticity detection probe comprises a probe body and a control switch that controls on/off of the probe body. The probe body and the control switch are arranged separately, and the probe body and the control switch are electrically connected or wirelessly connected. Due to the separate arrangement of the probe body and the control switch, an operator can use the portion, except two hands, to operate the control switch to turn on/off the probe body, and therefore the offset, generated when the control switch is turned on, of the probe body is prevented, and the detection precision is improved.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/06/2017** **0959/2017** **March 2020** **24/09/2020** **29939**

(51)	**Int. Cl. [8] G21C 15/18**
(71)	**1. JOINT-STOCK COMPANY SCIENTIFIC RESEARCH AND DESIGN INSTITUTE FOR** **2. ENERGY TECHNOLOGIES ATOMPROEKT (RUSSIAN FEDERATION)** **3.**
(72)	**1. BEZLEPKIN, Vladimir Victorovich** **2. SEMASHKO, Sergey Evgen'evich** **3. IVKOV, Igor Mihaylovich** **4. ALEKSEEV, Sergey Borisovich** **5. VARDANIDZE, Teymuraz Georgievich** **6. PETROV, Yuriy Yurievich** **7. SOLODOVNIKOV, Aleksander Sergeevich** **8. KRYLOV, Yuriy Vladimirovich**
(73)	**1.** **2.**
(30)	**1. (RU) 2014148910 - 04-12-2014** **2. (PCT/RU2015/000784) - 16-11-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) SYSTEM FOR PASSIVELY REMOVING HEAT FROM INSIDE A CONTAINMENT SHELL

Patent Period Started From 16/11/2015 and Will end on 15/11/2035

(57) The invention relates to the field of nuclear engineering, and more particularly to systems for passively removing heat from inside the containment shells of water-cooled, water-moderated reactors, and is intended for cooling the containment shell of a reactor by the natural circulation of a coolant (water) in a loop within the system. The technical result is the improved efficiency of a heat sink, the improved stability of the flow of coolant in the loop and, as a result, the improved operating reliability of the system. The present system comprises at least one loop for circulating cooling water, containing: a heat exchanger, disposed inside a containment shell and comprising an upper collector and a lower collector, which are connected by heat exchange tubes; an up flow pipe and a down flow pipe, which are connected to the heat exchanger; a cooling water reserve tank, which is disposed outside the containment shell, higher than the heat exchanger, and is connected to the down flow pipe; and a steam relief device, which is connected to the up flow pipe and is disposed inside the water reserve tank, to which it is hydraulically connected. Furthermore, the upper and lower collectors of the heat exchanger are divided into sections of heat exchange tubes according to the following condition: $L/D \leq 20$, where L is the length of a section of the collector, and D is the inside diameter of the collector.

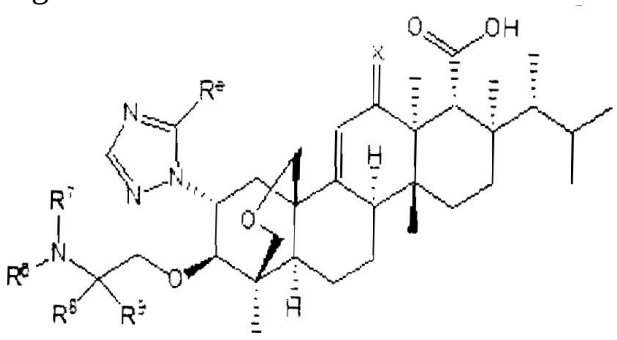
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/02/2011** **0250/2011** **May 2020** **24/09/2020** **29940**

(51)	**Int. Cl. [8] A01N 43/653, C07J 63/00, A61K 31/58 & A61P 31/10**
(71)	**1. MERCK SHARP & DOHME CORP (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. WILKENING, Robert** **4. APGAR, James** **2. MENG, Dongfang** **5. PARKER, Dann, L** **3. WILDONGER, Kenneth, James** **6. GREENLEE, Mark, L**
(73)	**1.** **2.**
(30)	**1. (US) 61/136.106 - 12-08-2008** **2. (PCT/US2009/004557) - 07-08-2009** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) ENFUMAFUNGIN DERIVATIVES AS ANTIFUNGAL AGENTS

Patent Period Started From 07/08/2009 and Will end on 06/08/2029

(57) Novel derivatives of enfumafungin which are glycoside triterpine semi acetal, along with their pharmaceutically acceptable salts, hydrates and prodrugs. Also disclosed are compositions comprising such compounds, methods of preparing such compounds and methods of using such compounds as antifungal agents and/or inhibitors of (l,3)- β -D-glucan synthase. The disclosed compounds, their pharmaceutically acceptable salts, hydrates and prodrugs, as well as compositions comprising such compounds, salts, hydrates and prodrugs, are useful for treating, and/or preventing fungal infections and associated diseases and conditions.



I

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/12/2016** **2108/2016** **May 2020** **25/09/2020** **29941**

(51)	**Int. Cl. [8] B01D 53/047**	
(71)	**1. SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V (NETHERLANDS)** **2.** **3.**	
(72)	**1. SADASIVAN VIJAYAKUMARI, Sivakumar** **2. KOTAK, Parag** **3. JONCKERS, Arjan, Allert**	**4. DUNCAN, Julie, Hélène, Emond** **5. FESTA PEREIRA RIBEIRO, Eduardo Jorge**
(73)	**1.** **2.**	
(30)	**1. (US) 62/019018 - 30-06-2014** **2. (EP) 14175647.8 - 03-07-2014** **3. (PCT/EP2015/064699) - 29-06-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) METHOD FOR PROCESSING A GAS MIXTURE

Patent Period Started From 29/06/2015 and Will end on 28/06/2035

(57) The present invention relates to a process for processing a gas mixture comprising methane, carbon dioxide, carbon monoxide, hydrogen, nitrogen, argon and traces of olefins and oxygenates. Methane, carbon dioxide and carbon monoxide, and optionally hydrogen, can be recovered from the gas mixture in a very efficient way.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/05/2017** **0911/2017** **May 2020** **25/09/2020** **29942**

(51)	**Int. Cl. [8] C08B 37/18**
(71)	**1. THE AMERICAN UNIVERSITY IN CAIRO (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. WAHBI, WALAA MOHAMED ALI** **2. AHMED, WAEL MAMDOUH SAYED SAYED** **3. SIAM, RANIA**
(73)	**1.** **2.**
(30)	**1. (US) 62/085,395 - 28-11-2014** **2. (PCT/US2015/062839) - 27-11-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**INULIN NANOFIBERS**
	Patent Period Started From 27/11/2015 and Will end on 26/11/2035

(57) Electrospun Polyvinyl Alcohol (PVA) / Inulin composite nanofibers (CNFs) are provided using electrospinning technique and tested for their prebiotic and antibacterial activities. The PVA/Inulin electrospun CNFs were tested for prebiotic activity with Lactobacillus sp. and for antibacterial activity against both Escherichia coli (E. coli) and Staphylococcus aureus (S. aureus). A number of electrospinning parameters such as solution concentration, PVA: Inulin mixing ratio, solution flow rate and applied voltage were carefully varied and the best PVA/ Inulin electrospun CNFs (bead free) were selected for prebiotic and antibacterial tests. The concentration of the composite solution varied between 14-20%, the flow rate ranged between 0.005-0.5 mL/min and the applied voltage used ranged between 15-20Kv. The structural properties and morphology of the PVA/Inulin electrospun CNFs were fully characterized by Fourier Transform Infrared Spectroscopy (FT-IR) and scanning electron microscopy (SEM).

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/02/2017** **0218/2017** **March 2020** **17/09/2020** **29943**

(51)	**Int. Cl. [8] B29C 67/20, 39/04, 44/44, 44/58, 44/56, 44/34 & B65D 85/30, 85/50, 5/42**
(71)	**1. ICEE HOLDINGS PTY LTD (AUSTRALIA)** **2.** **3.**
(72)	**1. LESLIE JOHN SKINNER** **2. HAMISH HINGSTON** **3.**
(73)	**1.** **2.**
(30)	**1. (AU) 2014903152 - 12-08-2014** **2. (PCT/AU2015/000481) - 12-08-2015** **3.**
(74)	**GEORGE ISHAQ. MINA**
(12)	**Patent**

(54)	**SYSTEM AND METHOD FOR CREATING A FOLD IN A PORTION OF EXPANDABLE MATERIAL**
	Patent Period Started From 12/08/2015 and Will end on 11/08/2035

(57) This invention relates to a described method of creating a hinge in a body of expandable material, said body being substantially flat and having at least two planar regions connected by said hinge to facilitate folding of the planar regions about said hinge, comprising: expanding said expandable material to form said body; creating a region of excess expandable material in said body adjacent said hinge; and compressing said region of excess expandable material into the hinge of said body after the expandable material has fused to create a hinge having a concentrated volume of expanded material when compared to said at least two planar regions of said body.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/08/2016** **1326/2016** **March 2020** **27/09/2020** **29944**

(51)	**Int. Cl. [8] G01V 3/08, 1/38**
(71)	**1. PGS Geophysical AS (NORWAY)** **2.** **3.**
(72)	**1. Johan Mattsson** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 212.234/62 - 31-08-2015** **2. (US) 178.999/15 - 10-06-2016** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54) DIRECT RESISTIVITY DETERMINATION

Patent Period Started From 10/08/2016 and Will end on 09/08/2036

(57) A resistivity profile can be generated directly from measured electromagnetic field data from a marine survey. A series of transformations can be applied to remove a conductivity dependency from a boundary value problem such that an inversion method may no longer be required to generate the resistivity profile.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/12/2017** **2000/2017** **March 2020** **27/09/2020** **29945**

(51)	**Int. Cl. [8] B42D 3/02 & B42C 9/00**
(71)	**1. UNIBIND LIMITED (CYPRUS)** **2.** **3.**
(72)	**1. PELEMAN, Guido, Frans, M** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (BE) 2015/5351 - 08-06-2015** **2. (BE) 2015/5581 - 18-09-2015** **3. (PCT/IB2016/000319) - 17-03-2016**
(74)	**SOHAIR MIKHAEL RIZK**
(12)	**Patent**

(54)	**BINDING FOLDER**
	Patent Period Started From 17/03/2016 and Will end on 16/03/2036

(57) Binding folder for binding a bundle of leaves, whereby this binding folder essentially comprises a spine for enclosing an edge of the bundle of leaves and two cover sheets attached to the spine, at least one of which is made of a synthetic material, characterized in that at least one cover sheet is provided with a top sheet against the side of the cover sheet oriented towards the inside of the binding folder, whereby this top sheet is attached to the cover sheet and/or spine in a removable way.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/03/2017** **0350/2017** **March 2020** **27/09/2020** **29946**

(51)	**Int. Cl. [8] G01S 13/00 & H01P 3/00 & H01Q 1/00**
(71)	**1. CPG TECHNOLOGIES, LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. CORUM, James, F** **2. CORUM, Kenneth, L** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 62/049,237 - 11-09-2014** **2. (US) 14/848,892 - 09-09-2015** **3. (PCT/US2015/049511) - 10-09-2015**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) SUBSURFACE SENSING USING GUIDED SURFACE WAVE MODES ON LOSSY MEDIA

Patent Period Started From 10/09/2015 and Will end on 09/09/2035

(57) Disclosed are various systems and methods for remote surface sensing using guided surface wave modes on lossy media. One system, among others, comprises a guided surface waveguide probe configured to launch a guided surface wave along a surface of a lossy conducting medium, and a receiver configured to receive backscatter reflected by a remotely located subsurface object illuminated by the guided surface wave. One method, among others, includes launching a guided surface wave along a surface of a lossy conducting medium by exciting a charge terminal of a guided surface waveguide probe, and receiving backscatter reflected by a remotely located subsurface object illuminated by the guided surface wave.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/03/2017** **0373/2017** **March 2020** **27/09/2020** **29947**

(51)	**Int. Cl. [8] H02J 50/20, 50/50 & H01Q 9/30**	
(71)	**1. CPG TECHNOLOGIES, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CORUM, James, F** **2. CORUM, Kenneth, L** **3. LILLY, James, D**	**4. PINZONE, Basil, F**
(73)	**1.** **2.**	
(30)	**1. (US) 62/049,214 - 11-09-2014** **2. (US) 14/847,704 - 08-09-2015** **3. (PCT/US2015/049520) - 10-09-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) HIERARCHICAL POWER DISTRIBUTION

Patent Period Started From 10/09/2015 and Will end on 09/09/2035

(57) Aspects of a hierarchical power distribution network are described. In some embodiments, a first guided surface waveguide probe launches a first guided surface wave along a surface of a terrestrial medium within a first power distribution region. A guided surface wave receive structure obtains electrical energy from the first guided surface wave. A second guided surface waveguide probe launches a second guided surface wave along the surface of the terrestrial medium within a second power distribution region using the electrical energy obtained from the first guided surface wave.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/03/2017** **0374/2017** **March 2020** **27/09/2020** **29948**

(51)	**Int. Cl. [8] H02J 17/00 & H01P 3/00 & H04B 5/00 & H01Q 1/00**	
(71)	**1. CPG TECHNOLOGIES, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CORUM, James, F** **2. CORUM, Kenneth, L** **3. LILLY, James, D**	**4. PINZONE, Basil, F** **5. PINZONE, Joseph, F**
(73)	**1.** **2.**	
(30)	**1. (US) 62/049,081 - 11-09-2014** **2. (US) 14/847,370 - 08-09-2015** **3. (PCT/US2015/049151) - 09-09-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) EMBEDDING DATA ON A POWER SIGNAL

Patent Period Started From 09/09/2015 and Will end on 08/09/2035

(57) Disclosed are various embodiments for embedding data on a guided surface wave. A guided surface waveguide probe emits power as a guided surface wave received by a guided surface wave receive structure circuit. An aggregate electric load of the receiver circuit is modulated with reference to a data signal. A current at the guided surface waveguide probe is monitored. A data signal is recaptured at the guided surface waveguide probe.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** 06/03/2017 **(21)** 0376/2017 **(44)** March 2020 **(45)** 27/09/2020 **(11)** 29949

(51)	**Int. Cl. [8] H02J 50/27 & H01Q 9/30**
(71)	**1. CPG TECHNOLOGIES, LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. CORUM, James, F** **2. CORUM, Kenneth, L** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 62/049,175 - 11-09-2014** **2. (US) 14/847,639 - 08-09-2015** **3. (PCT/US2015/049161) - 09-09-2015**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**VARIABLE FREQUENCY RECEIVERS FOR GUIDED SURFACE WAVE TRANSMISSIONS**
	Patent Period Started From 09/09/2015 and Will end on 08/09/2035

(57) Disclosed herein are various embodiments for a guided surface wave receiver, comprising circuitry that identifies at least one frequency from a plurality of available frequencies associated with a transmission of a plurality of guided surface waves along a terrestrial medium; and circuitry that adjusts a frequency at which the guided surface wave receiver receives the transmission to the at least one frequency via the terrestrial medium.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/03/2017** **0377/2017** **March 2020** **27/09/2020** **29950**

(51)	**Int. Cl. [8] H01P 3/00 & H01Q 1/00 & H02J 17/00 & H04B 5/00**	
(71)	**1. CPG TECHNOLOGIES, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CORUM, James, F** **2. CORUM, Kenneth, L** **3. LILLY, James, D**	**4. PINZONE, Joseph, F**
(73)	**1.** **2.**	
(30)	**1. (US) 62/049,039 - 11-09-2014** **2. (US) 14/839,175 - 28-08-2015** **3. (PCT/US2015/049236) - 09-09-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) GEOLOCATION WITH GUIDED SURFACE WAVES

Patent Period Started From 09/09/2015 and Will end on 08/09/2035

(57) Disclosed are various embodiments for fixing a navigational position using guided surface waves launched from guided surface wave waveguide probes at various ground stations. A navigation unit may fix its position by determining the travel time of guided surface waves from the ground stations to the navigation unit. In another embodiment, the navigation unit may also fix its position by determining the change in intensity of the guided surface waves after travelling from the ground stations to the navigation unit. In other embodiments, the navigation unit may also fix its position by determining the difference in phases of phase-locked guided surface waves as they travel from the ground stations to the navigation unit.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/03/2017** **0378/2017** **March 2020** **27/09/2020** **29951**

(51)	**Int. Cl. [8] H01P 3/00, & H01Q 1/00**	
(71)	**1. CPG TECHNOLOGIES, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CORUM, James, F** **2. CORUM, Kenneth, L** **3. LILLY, James, D**	**4. PINZONE, Joseph, F** **5. D'AURELIO, Michael, J**
(73)	**1.** **2.**	
(30)	**1. (US) 62/049,169 - 11-09-2014** **2. (US) 14/847,821 - 08-09-2015** **3. (PCT/US2015/049497) - 10-09-2015**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) GUIDED SURFACE WAVE POWERED SENSING DEVICES

Patent Period Started From 10/09/2015 and Will end on 09/09/2035

(57) Disclosed is a sensing device including a guided surface wave receive structure, a physical parameter sensor, and a radio frequency transmitter. The guided surface wave receive structure may be configured to obtain electrical energy from a guided surface wave traveling along a terrestrial medium. The physical parameter sensor may be coupled to the guided surface wave receive structure. The physical parameter sensor may also measure a physical parameter associated with a physical environment local to the physical parameter sensor. The radio frequency transmitter may be coupled to the guided surface wave receive structure and communicatively coupled to the physical parameter sensor. The radio frequency transmitter may also obtain a physical parameter measurement and transmit the physical parameter measurement over a wireless network.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**16/10/2016** **1694/2016** **March 2020** **27/09/2020** **29952**

(51)	**Int. Cl. [8] G01V 1/463**
(71)	**1. PGS Geophysical AS (NORWAY)** **2.** **3.**
(72)	**1. Lars Erik Magnus BjOrnemo** **2. Carl Joel Gustav Skogman** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 243.839/62 - 20-10-2015** **2. (US) 272.578/15 - 22-09-2016** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54) GEOPHYSICAL INVERSION USING SPARSE MODELING

Patent Period Started From 16/10/2016 and Will end on 15/10/2036

(57) Methods of geophysical modeling and inversion are disclosed. A sparse domain is defined for a geophysical model, over which a sparse model result is computed. A full model result is then resolved by interpolation over the sparse domain. The full model result may be used as the forward modeling result in a geophysical inversion process. Reconstruction error, or model error, or both may be used to adjust the sparse domain, the model, or the geophysical basis of the model.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/12/2016** **2070/2016** **March 2020** **27/09/2020** **29953**

(51)	**Int. Cl. [8] G01V 1/38, 1/28**
(71)	**1. PGS Geophysical AS (NORWAY)** **2.** **3.**
(72)	**1. Paolo Terenghi** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 62/019,563 - 01-07-2014** **2. (PCT/EP 2015/064302) - 24-06-2015** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54)	**WAVEFIELD RECONSTRUCTION**
	Patent Period Started From 24/06/2015 and Will end on 23/06/2035

(57) Wave field reconstruction may include reconstructing a wave field at a location away from a seismic receiver based on seismic data sampled from the seismic receiver, a vector of model coefficients comprising a sealtering potential, and at least one of a mapping matrix comprising a dictionary of green functions and an operator defined by a combination of a number of functions

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/04/2012** **0798/2012** **May 2020** **27/09/2020** **29954**

(51)	**Int. Cl. [8] C07C 35/10, 309/04**
(71)	**1. STEPAN COMPANY (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. BROWN, Aaron, Michael** **2. DONG, Xue, Min** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/280,439 - 03-11-2009** **2. (PCT/US2010/055266) - 03-11-2010** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54) A PROCESS FOR MAKING SULFOMETHYLSUCCINATES, AND COMPOSITIONS CONTAINING SAME

Patent Period Started From 03/11/2010 and Will end on 02/11/2030

(57) Sulfometh lsuccinates of the formula I, wherein R is an alkyi, alkenyl, alkynyl, alkoxylated alkyi, cycloalkyl, cycloalkenyl, cycloalkynyl, branched alkyi, branched alkenyl, branched alkynyl, branched alkoxylated alkyi, aromatic, substituted alkyi aromatic, substituted alkenyl aromatic or substituted alkoxylated aromatic group; M is a cation, hydrogen, amine or ammonium salt or combinations thereof, and each M may be the same as or different from the other; and n is from 1 to about 6. Processes for synthesizing the sulfomethylsuccinates are also provided. The sulfomethylsuccinates can be used as surfactants, emulsifiers, skin feel agents, film formers, rheological modifiers, solvents, release agents, lubrication agents, conditioners, and dispersants, etc.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**06/12/2017** **2022/2017** **April 2020** **27/09/2020** **29955**

(51)	**Int. Cl. [8] F16G 3/02**
(71)	**1. MLT Minet Lacing Technology (FRANCE)** **2.** **3.**
(72)	**1. JAKOB, Horst;** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 15/01342 - 25-06-2015** **2. (PCT/FR2016/051423) - 13-06-2016** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54) CLIPS FOR JOINTING DEVICES OF THE ENDS OF A CONVEYOR BELT

Patent Period Started From 13/06/2016 and Will end on 12/06/2036

(57) The invention relates to clips which comprise a generally U-shaped part intended for being attached so as to straddle one end of a conveyor belt with the curved front portion — or nose & mdash; of the clip projecting beyond same. A tube intended for being attached in the front concave portion of each clip comprises, attached to the side ends thereof, two flanges of a bracket. Said flanges are joined at the rear by a linking portion. The flanges are attached by threading bores on the side ends of the tube. The arms of the clips are provided with through-holes intended for rod attachment means. The arms of every second clip are of different lengths.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/06/2013** **1051/2013** **May 2020** **27/09/2020** **29956**

(51)	**Int. Cl. [8] H04N 7/26, 7/50**
(71)	**1. VELOS MEDIA INTERNATIONAL LIMITED (**Ireland**)** **2.** **3.**
(72)	**1. NORKIN, Andrey** **2. SJÖBERG, Rickard** **3. ANDERSSON, Kenneth**
(73)	**1.** **2.**
(30)	**1. (US) 61/432,751 - 14-01-2011** **2. (PCT/SE2011/051199) - 06-10-2011** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54) DEBLOCKING FILTERING

Patent Period Started From 06/10/2011 and Will end on 05/10/2031

(57) Blocking artifacts at a block boundary between a block and a neighboring block in a video frame are reduced by calculating an offset based on pixel values of pixels in a line of pixels in the block and based on pixel values of pixels in a corresponding line of pixels in the neighboring block. The offset is added to the pixel value of the pixel closest to the block boundary in the line of pixels and is subtracted from the pixel value of the pixel closest to the block boundary in the corresponding line of pixels. The resulting deblocking filter has good low-pass characteristics and is efficient for reducing blocking artifact.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/11/2017** **1956/2017** **April 2020** **27/09/2020** **29957**

(51)	**Int. Cl. [8] G06F 21/36, 21/32 & G07F 7/10**
(71)	**1. LICENTIA GROUP LIMITED (UNITED KINGDOM)** **2. MYPINPAD LIMITED (UNITED KINGDOM)** **3.**
(72)	**1. PIKE, Justin** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (GB) 1509030.1 – 27-05-2015** **2. (GB) 1509031.9 - 27-05-2015** **3. (GB) 1520741.8 - 24-11-2015** **4. (GB) 1520760.8 - 24-11-2015** **5. (PCT/GB2016/051549) - 27-05-2016)**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54)	**AUTHENTICATION METHODS AND SYSTEMS**
	Patent Period Started From 27/05/2016 and Will end on 26/05/2036

(57) The invention provides an authentication method and system. It is particularly suited for verifying the identity of an individual prior to permitting access to a controlled resource. This may or may not be a financial resource. The invention uses biometric data relating to a user to encode and decode an identifier associated with a user. Thus the user's biometric data becomes the key for encoding and subsequently decoding the identifier. In one embodiment, the biometric data is used to generate a keypad configuration. The keypad configuration specifies the order and/or position of a plurality of keypad keys. An operable keypad and/or image of a keypad is then generated using the configuration. Thus, the individual biometric data can be used to generate a customised keypad and/or image which can then be used to encode or decode the identifier associated with the user. A keypad or image generated from the biometric data can be used to generate a mapping between different keypad configurations. The biometric data may be captured at or on a device associated with the individual, such as a computer, mobile phone, tablet computer etc.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** 15/02/2012 **(21)** 0268/2012 **(44)** July 2020 **(45)** 30/09/2020 **(11)** 29958

(51)	**Int. Cl. [8] E02D 5/56**
(71)	**1. EBRAHEM ABDO EBRAHEM MAKLED (EGYPT)** **2.** **3.**
(72)	**1. EBRAHEM ABDO EBRAHEM MAKLED** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**CONTINUOUS FLIGHT AUGER WITH WINGS**
	Patent Period Started From 15/02/2012 and Will end on 14/02/2032

(57) The current invention is an modify to the CFA or continuous flight;auger Is an integrated system to increase the diameter of piles at any level of piles (deep foundations) using hydraulic control systems Place the top of the drill hole and control the wire in the cut head It is responsible for increasing the diameter of the piles at a certain level. The control of opening and closing the head (s) is achieved when reaching the desired depth of the machine driver using the wireless control systems and system Hydraulic system with a range of sensors, a battery and an electronic control circuit to precisely control the opening and .closing of the cut head Where increasing the diameter of the gravel from down increase the area of concentration and thus increase the efficiency and capacity of bearing in the case of the presence of soil of weak or medium foundation .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** 13/10/2014 **(21)** 1616/2014 **(44)** July 2020 **(45)** 30/09/2020 **(11)** 29959

(51)	**Int. Cl. [8] C01B 31/08, C02F 1/58**
(71)	**1. EGYPTIAN PETROLEUM RESEARCH INSTITUTE (EGYPT)** **2.** **3.**
(72)	**1. AHMED MOHAMED AHMED EL-SABAGH** **2. ENAS AMDEHA ESMAIL ABD EL-SAMAD** **3. RADWA ABASS MOSTAFA ELSALAMONY**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**KHALID ABDUL ZAHIR**
(12)	**Patent**

(54) Method for preparing activated carbon (AC) from dried sugar cane waste in nanosize

Patent Period Started From 13/10/2014 and Will end on 12/10/2034

(57) This invention is concerned in a method for preparing activated carbon from agricultural wastes (dried sugar cane waste in nanosize 200 - 250 nm), where, the produced activated carbon is used in the removal of some environmental pollutants such as organic compounds e.g. phenols and nitrophenols compounds and methylene blue dye. It is found that the produced activated carbon has the ability to adsorb methylene blue dye as 1 g of dye / 10 g of activated carbon. It is like international rates.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** 01/03/2016 **(21)** 0336/2016 **(44)** July 2020 **(45)** 30/09/2020 **(11)** 29960

(51)	**Int. Cl. [8] F21S 9/03 & F21V 23/04 & G06F 3/16**
(71)	**1. MEDHAT MORCOS MEKHAIL HANA (EGYPT)** **2.** **3.**
(72)	**1. MEDHAT MORCOS MEKHAIL HANA** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Utilty Model**

(54)	**SMART CIRCUIT FEELS AND TALK TO PEOPLE**
	Patent Period Started From 01/03/2016 and Will end on 28/02/2023

(57) The present invention relates to an electronic circuit provided with a sensor and control circuit thereof to adjust beam length, big memory, control circuit, speaker circuit. Moreover, said circuit is small in volume and can be placed easily inside any body, or any industrial and nutritional product, in which said product or body starts talking or singing about its properties, depending on the recorded message therein, to the one who come closer to it.

Arab Republic of Egypt
Ministry of State for Scientific Research
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GRANTED PATENTS' ABSTRACTS GAZETTE

"PATENTS ISSUED IN OCTOBER 2020 "

Egyptian Patent Office

Issue No 293 **NOVEMBER 2020**

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

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ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
OCTOBER (2020)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGPO مكتب براءات الاختراع المصرى EGYPTIAN PATENT OFFICE **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/07/2018** **1079/2018** **February 2020** **05/10/2020** **29961**

(51)	**Int. Cl. [8] B01D 11/00, C12Q 1/70**	
(71)	**1. INTELLIGENT VIRUS IMAGING INC.(UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. SINTORN, Ida-Maria** **2. RYNER, Martin** **3. KYLBERG, Gustaf**	**4. NILSSON, Josefina**
(73)	**1.** **2.**	
(30)	**1. (US) 62/402,003 - 30-09-2016** **2. (PCT/US2017/050962) - 11-09-2017** **3.**	
(74)	**MAHMOUD ADEL ABD EL HAMMED ESMAEL**	
(12)	**Patent**	

(54) METHOD FOR QUANTIFICATION OF PURITY OF SUB-VISIBLE PARTICLE SAMPLES

Patent Period Started From 11/09/2017 and Will end on 10/09/2037

(57) The method is for quantification of purity of sub-visible particle samples. A sample to be analyzed is place in an electron microscope to obtain an electron microscopy image of the sample. The sample contains objects. The objects that have sizes being different from a size range of primary particles and sizes being within the size range of primary particles are enhanced. The objects are detected as being primary particles or debris. The detected primary particles are excluded from the objects so that the objects contain debris but no primary particles. A first total area (T1) of the detected debris is measured. A second total area (T2) of the detected primary particles is measured

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/08/2017** **1444/2017** **April 2020** **05/10/2020** **29962**

(51)	**Int. Cl. [8] A61M 11/00, 15/00**
(71)	**1. AFT Pharmaceuticals Limited (New Zealand)** **2.** **3.**
(72)	**1. Hartley Campbell Atkinson** **2. Brendon John Woodhead** **3.**
(73)	**1.** **2.**
(30)	**1. (NZ) 706864 – 09-04-2015** **2. (PCT/NZ2016/050002) - 08-01-2016** **3.**
(74)	**WAEL ROSHDY HALIM**
(12)	**Patent**

(54)	**A NASAL MEDICATION DELIVERY DEVICE**
	Patent Period Started From 08/01/2016 and Will end on 07/01/2036

(57) The invention relates to a delivery device for nasal medication. It addresses need for delivering medication to the nose of a patient. In a preferred embodiment the device has; A transducer adapted to create an ultrasonic focal zone;; a feeder chamber holding medication; • an energising chamber smaller than the feeder chamber; a mesh; and;. The device is formed so that when it is activated the feeder chamber continuously fills the energising chamber with medication (until the feeder chamber has insufficient medication left to achieve this) so that there is a substantially constant supply of medication within the focal zone able to be energised and forced from the energising chamber so as to contact the mesh, become an aerosol, and leave the device by way of the exit.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/12/2017** **2073/2017** **April 2020** **05/10/2020** **29963**

(51)	**Int. Cl. [8] F28D 20/00**
(71)	**1. COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES** **2. (FRANCE)** **3.**
(72)	**1. MOLINA, Sophie** **2. BRUCH, Arnaud** **3. COUTURIER, Raphaël** **4. GILLIA, Olivier** **5. HUILLE, Arthur**
(73)	**1.** **2.**
(30)	**1. (FR) 1555509 - 16-06-2015** **2. (PCT/FR2016/051452) - 15-06-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) HEAT STORAGE TANK

Patent Period Started From 15/06/2016 and Will end on 14/06/2036

(57) Said tank comprises a chamber including an inner surface defining a space for heat storage, strata of solid elements made of a storage material, the storage material being suitable for storing heat from a heat-transfer fluid flowing in the chamber, the strata occupying the space of the chamber, and at least one stack of solid elements made of a heat-conductive material. The stack is placed between two consecutive strata. The tank is characterized in that it comprises separation means designed to separate the solid elements of the strata and the solid elements of the stack, and in that the separation means are designed to allow flow of the heat-transfer fluid through the stack.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/03/2016** **0541/2016** **July 2020** **05/10/2020** **29964**

(51)	**Int. Cl. [8] G21C 7/08**	
(71)	**1. JOINT STOCK COMPANY A??E-ENGINEERING (RUSSIAN FEDERATION)** **2.** **3.**	
(72)	**1. MELNIKOV Kirill Gennadievich** **2. TORMYSHEV Ivan Vladimirovich** **3. SHARIKPULOV Said Mirfaisovich**	**4. BULAVKIN Sergey Viktorovich** **5. FILIN Aleksandr Ivanovich** **6. BOROVITSKY Stepan Artemovich**
(73)	**1.** **2.**	
(30)	**1. (RU) 2013148441 - 31-10-2013** **2. (PCT/RU2014/000170) - 19-03-2014** **3.**	
(74)	**AMR IBRAHIM ABDALLAH SALEM**	
(12)	**Patent**	

(54) METHOD FOR GUARANTEEING FAST REACTOR CORE SUBCRITICALITY UNDER CONDITIONS OF UNCERTAINTY REGARDING THE NEUTRON-PHYSICAL CHARACTERISTICS THEREOF

Patent Period Started From 19/03/2014 and Will end on 18/03/2034

(57) A method for guaranteeing fast reactor core subcriticality under conditions of uncertainty involves, after assembling the reactor core, conducting physical measurements of reactor core subcriticality and comparing the obtained characteristics with design values; then, if there is a discrepancy between the values of the obtained characteristics and the design values, installing adjustable reactivity rods in the reactor at the level of a fuel portion of the reactor core, wherein the level of boron-B10 isotope enrichment of the adjustable reactivity rods is selected to be higher than the level of boron-B10 isotope enrichment of compensating rods of the reactor core. The technical result consists in improving the operating conditions of absorbing elements of a compensating group of rods, eliminating the need for increasing the movement thereof, simplifying monitoring technologies used during production, and simplifying the algorithm for safe reactor control.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/12/2016** **1978/2016** **May 2020** **11/10/2020** **29965**

(51)	**Int. Cl. [8] C25B 11/00, 11/02, 1/26**
(71)	**1. Industrie de Nora S.P.A. (ITALY)** **2.** **3.**
(72)	**1. HARDEE, Kenneth, L** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 62/025.557 - 17-07-2014** **2. (PCT/EP2015/066378) - 17-07-2015** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) CATALYTIC OR ELECTROCATALYTIC GENERATION OF CHLORINE DIOXIDE

Patent Period Started From 17/07/2015 and Will end on 16/07/2035

(57) The present invention concerns an electrode element comprising a valve metal substrate, a first catalyst component applied to said substrate, said first catalyst component suitable for evolving oxygen from an aqueous solution under anodic polarization, a second catalyst component suitable for generating chlorine dioxide from a chlorate solution in acidic environment; said first and second catalyst component being electrically insulated from each other. The inventions also concern an electrolytic cell comprising such an electrode element and a process for the generation of chlorine dioxide on a catalyst component an electrochemical cell comprising such an electrode element.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/04/2017** **0612/2017** **May 2020** **11/10/2020** **29966**

(51)	**Int. Cl. [8] C25B 11/04, 1/26 & C02F 1/461**
(71)	**1. Industrie de Nora S.P.A. (ITALY)** **2.** **3.**
(72)	**1. GARGIULO, Alice** **2. CALDERARA, Alice** **3. PEZZONI, Chiara**
(73)	**1.** **2.**
(30)	**1. (IT) MI2014A002020 - 24-11-2014** **2. (PCT/EP2015/077387) - 23-11-2015** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) ANODE FOR ELECTROLYTIC EVOLUTION OF CHLORINE

Patent Period Started From 23/11/2015 and Will end on 22/11/2035

(57) The invention relates to an electrode suitable as chlorine-evolving anode in electrolytic cells and to a method for obtaining thereof. The electrode comprises a metal Substrate coated with a catalytic composition made of thin layers based on oxides of tin, iridium and ruthenium and combines excellent characteristics of anodic potential and selectivity with respect to the reaction of chlorine evolution without resorting to the use of dopants such as platinum and palladium.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/06/2017** **0985/2017** **May 2020** **14/10/2020** **29967**

(51)	**Int. Cl. [8] H01H 73/04**
(71)	**1. ZHEJIANG CHINT ELECTRICS CO., LTD (CHINA)** **2.** **3.**
(72)	**1. JIANG, Huahua** **2. ZHENG, Yingchuan** **3. LIU, Wenjun**
(73)	**1.** **2.**
(30)	**1. (CN) 201420777612.7 - 10-12-2014** **2. (PCT/CN2015/077816) - 29-01-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**BREAKER AND CONTACT DEVICE THEREOF HAVING FLIPPABLE STATIC CONTACT**
	Patent Period Started From 29/01/2015 and Will end on 28/01/2035

(57) A contact device of a breaker and having a flippable static contact, the contact device comprising: a static contact embedded inside a static contact holder, and a static contact spring and a positioning shaft for installing the static contact spring are disposed inside the static contact holder, and a shaft passing through the static contact is also disposed inside the static contact holder. The shaft comprises a central shaft passing through the rotation axis of the static contact, a bearing shaft passing through the static contact and restricting the static contact spring, and the static contact spring sleeves the positioning shaft, and spring arms extending from both ends engages the bearing shaft passing through the static contact. The static contact is rotatably mounted on the static contact holder, and a repulsive force is generated on the contact to enable a moving contact and the static contact to flip at the same time, thus elongating an electric arc and accelerating the extinguishing of the electric arc. A stepped face passing through the shaft of the static contact restricts the two sides of the static contact to effectively prevent the static contact from moving in the axial direction of the shaft, thus ensuring a contact area between the static contact and the moving contact, effectively reducing assembling difficulty and improving assembling efficiency.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/04/2017** **0665/2017** **May 2020** **14/10/2020** **29968**

(51)	**Int. Cl. [8] F22B 37/20, 1/00 & F24J 2/46**	
(71)	**1. COCKERILL MAINTENANCE & INGENIERIE S.A. (BELGIUM)** **2.** **3.**	
(72)	**1. DETHIER, Alfred** **2. FAIRON, Luc** **3. MORREALE, Vincenzo**	**4. WINAND, Stéphane**
(73)	**1.** **2.**	
(30)	**1. (US) 2014/5036 - 28-10-2014** **2. (PCT/EP2015/074119) - 19-10-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) SEALED STRUCTURE FOR AN EXTERNAL SOLAR RECEIVER IN A TOWER OF A CONCENTRATED SOLAR POWER PLANT

Patent Period Started From 19/10/2015 and Will end on 18/10/2035

(57) An external solar receiver for the tower of a thermodynamic concentrated solar power plant of the type having a tower and a field of heliostats, said tower comprising a windproof internal modular structure, also referred to as a & quot; casing & quot; and a plurality of receiver panels with heat exchanger tubes attached to said internal structure, each panel comprising a plurality of metal casings supporting the heat exchanger tubes and assembled together by an assembly means allowing dismantling, each casing being covered with a thermal insulation via an anchoring means, characterized in that the tubes are rigidly attached to the casings by a floating connection means that can be dismantled.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/06/2017** **0984/2017** **May 2020** **14/10/2020** **29969**

(51)	**Int. Cl. [8] H01H 73/04**
(71)	**1. ZHEJIANG CHINT ELECTRICS CO., LTD (CHINA)** **2.** **3.**
(72)	**1. JIANG, Huahua** **2. ZHENG, Yingchuan** **3. LIU, Wenjun**
(73)	**1.** **2.**
(30)	**1. (CN) 201420779405.5 - 10-12-2014** **2. (PCT/CN2015/071815) - 29-01-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**BREAKER AND CONTACT DEVICE HAVING ROTATABLE FIXED CONTACT THEREOF**
	Patent Period Started From 29/01/2015 and Will end on 28/01/2035

(57) A contact device having a rotatable fixed contact of a breaker, the contact device comprising a fixed contact and a fixed contact bracket; the fixed contact is embedded and mounted in the fixed contact bracket, and a limiting member for restricting the fixed contact to move along an axial position is provided on the fixed contact bracket; the fixed contact is rotatable about a central shaft provided on the fixed contact bracket, and a fixed contact spring for restricting the fixed contact to rotate is provided in the fixed contact bracket, the fixed contact spring being connected to the fixed contact to secure the fixed contact. The fixed contact is rotatably mounted on the fixed contact bracket, and a repulsive force is generated on the contact for enabling a movable contact and the fixed contact to rotate simultaneously, thus elongating an arc to accelerate arc quenching of the arc; and the limiting member formed on the fixed contact bracket can effectively prevent the fixed contact from moving along an axial direction of the shaft body, so as to ensure the contact area of the movable contact and the fixed contact, thus effectively reducing assembly difficulty, and improving assembly efficiency.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**27/11/2017** **1967/2017** **May 2020** **14/10/2020** **29970**

(51)	**Int. Cl. [8] C08B 30/12 & C09J 1/00, 103/02 & C08K 3/00**
(71)	**1. CO?PERATIE AVEBE U.A. (NETHERLANDS)** **2.** **3.**
(72)	**1. DIJK - VAN DELDEN, Anna Maria** **2. HOFMAN - DE DREU, Anne Magriet** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 15169885.9 - 29-05-2016** **2. (PCT/NL2016/050377) - 27-05-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) STARCH-CONTAINING ADHESIVE COMPOSITIONS AND USES THEREOF

Patent Period Started From 27/05/2016 and Will end on 26/05/2036

(57) The invention relates to aqueous adhesive compositions comprising a starch, in particular to starch-based adhesives for bonding paper products. Provided is an aqueous adhesive composition comprising a starch derivative and a clay, wherein said starch derivative is a highly branched starch (HBS) obtained by treatment of starch or starch derivatives with a glycogen branching enzyme (EC 2.4.1.18), and wherein the weight ratio of said HBS to said clay is within the range of from about 1:1 to 1:4.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/12/2015** **2001/2015** **May 2020** **14/10/2020** **29971**

(51)	**Int. Cl. [8] E04F 15/02, 15/04**
(71)	**1. VALINGE INNOVATION AB (SWEDEN)** **2.** **3.**
(72)	**1. BOO, Christian** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (SE) 1350783-5 - 27-06-2013** **2. (SE) 1351323-9 - 08-11-2013** **3. (PCT/SE2014/050792) - 26-06-2014**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) BUILDING PANEL WITH A MECHANICAL LOCKING SYSTEM

Patent Period Started From 26/06/2014 and Will end on 25/06/2034

(57) The present invention relates to a set of essentially identical panels, such as building panels, provided with a mechanical locking system comprising a displaceable tongue, which is arranged in a displacement groove with a first opening at a first edge of a first panel. The displaceable tongue is configured to cooperate with a first tongue groove, with a second opening at a second edge of an adjacent second panel, for vertical locking of the first and the second edge. The height of the first opening is greater than a second height of the second opening.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/08/2017** **1271/2017** **May 2020** **14/10/2020** **29972**

(51)	**Int. Cl. [8] H04W 48/16, 76,02**
(71)	**1. SHANGHAI ZHANGXIAN NETWORK TECHNOLOGY CO., LTD (CHINA)** **2.** **3.**
(72)	**1. Luojia YU** **2. Fayou ZHANG** **3. Rom N**
(73)	**1.** **2.**
(30)	**1. (CN) 201510089042.1 - 27-02-2015** **2. (PCT/CN2016/070672) - 12-01-2016** **3.**
(74)	**NAZEH AKHNOKH SADEK ELIAS**
(12)	**Patent**

(54)	**WIFI ACCESS SYSTEM**
	Patent Period Started From 12/01/2016 and Will end on 11/01/2036

(57) Disclosed is a WiFi access system, acquiring a data list of WiFi access points near a mobile terminal, determining final position information about the mobile terminal according to the WiFi access point positioning information, base station positioning information and satellite positioning information, a cloud server transmitting password information about an available WiFi access point to the mobile terminal according to a sequence of difficulty for the mobile terminal access difficulty, in conjunction with recognition codes, passwords and geographic positions of various WiFi access points stored locally, according to the data list of the WiFi access points near the mobile terminal and the final position information about the mobile terminal, so that the mobile terminal can conveniently access the corresponding available WiFi access point. By means of the WiFi access system of the present invention, a user can conveniently access an available WiFi access point nearby at any time any place without the need for remembering access passwords of a number of access points.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/01/2012** **0128/2012** **May 2020** **19/10/2020** **29973**

(51)	**Int. Cl. [8] G06F 9/46**
(71)	**1. TELEFONAKTIEBOLAGET L M ERICSSON (SWEDEN)** **2.** **3.**
(72)	**1. ZWAAL, Frederik Hugo** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (PCT/EP2009/059753) - 28-07-2009** **2.** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54)	**APPARATUS AND METHOD FOR PROCESSING EVENTS IN A TELECOMMUNICATIONS NETWORK**
	Patent Period Started From 28/07/2009 and Will end on 27/07/2029

(57) A processing platform, for example a Java Enterprise Edition (JEE) platform comprises a JEE cluster having a plurality of processors, which include a resource adapter for handling events associated with one or more application sessions Si to Sn. Each application session Si to Sn comprises a session state and an event queue, the event queue containing a list of events to be executed for a particular one of the sessions S1 to Sn. A thread pool comprises one or more processing threads t1 to tN for enabling the processor to perform multiple tasks in parallel. The thread pool comprises a task queue containing the tasks to be executed by the processing threads t1 to tN. The resource adapter comprises a synchronising unit for controlling how the plurality of threads t1 to tN from the thread pool handle the events in the plurality of application sessions S1 to Sn. In particular, the synchronising unit is configured such that only one event queued in an event queue has a task scheduled thereto in the task queue, thereby preventing more than one event from a particular event queue of an application session being executed in parallel.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/07/2017** **1167/2017** **May 2020** **19/10/2020** **29974**

(51)	**Int. Cl. [8] B42D 25/324, 25/328, 25/36, 25/373, 25/387**
(71)	**1. SURYS (FRANCE)** **2.** **3.**
(72)	**1. DHOME, Antoine** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 1550354 - 16-01-2015** **2. (PCT/FR2016/050083) - 15-01-2016** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54) OPTICAL SECURITY COMPONENT

Patent Period Started From 15/01/2016 and 14/01/2036 Will end on

(57) The invention relates to an ID document which comprises: at least one receiving substrate in or on which an ink which is fluorescent under UV-A lighting is locally deposited, and a multilayer optical security component attached to a substrate. The invention is essentially characterised in that the optical component comprises: a structurable layer; a reflective dielectric layer discontinuously deposited on the structurable layer in the plane of the component, so as to produce patterns, the reflective dielectric layer having a relative transmission of at most 40 % in the UV-B or UV-C range; and an assembly of at least one layer including pigments that are fluorescent when energised by UV-B or UV-C, and deposited on said reflective dielectric layer in a uniform or discontinuous manner in the plane of the optical component.

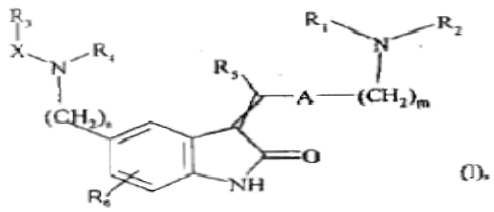
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/08/2010** **1308/2010** **April 2020** **19/10/2020** **29975**

(51)	**Int. Cl. [8] A61K 31/404, A61P 35/00, 35/04, C07D 401/12, 401/14, 403/06, 403/12, 403/14, 413/14 & 417/14**	
(71)	**1. LES LABORATOIRES SERVIER (FRACE)** **2.** **3.**	
(72)	**1. Pierre Allen** **2. ORTUNO Jean- Claude** **3. Michelle Burbridge** **4. Cordi Alexis**	**5. WEGGIS Imre** **6. John Hickman** **7. John Hickman**
(73)	**1.** **2.**	
(30)	**1. (FR) 09/03 839 - 04-08-2009** **2.** **3.**	
(74)	**SHADY FAROUK AL-MUBARAK**	
(12)	**Patent**	

(54) NEW DIHYDROINDOLONE COMPOUNDS, A PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM, FOR TREATMENT OF CANCER

Patent Period Started From 04/08/2010 and Will end on 03/08/2030

(57) Compounds of formula (I) Wherein m and n represent 1 or 2 A represents a pyrrolyl group X represents a C(O) S(O) or SO_2 group R_1 and R_2 represent an alkyl group Or together with the nitrogen atom carrying them, form a heterocyclic group R_3 and R_4 together with the atoms carrying them form a heterocyclic group R5 represents a hydrogen atom or an alkyl group R6 represents a hydrogen atom or a halogen atom.Medicaments



Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/01/2016** **0022/2016** **April 2020** **19/10/2020** **29976**

(51)	**Int. Cl. [8] G01V 1/38**
(71)	**1. PGS Geophysical AS (NORWAY)** **2.** **3.**
(72)	**1. Gustav Goran Mattias Südow** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/844.650 - 10-07-2013** **2. (US) 30-05-2014 – 30-05-2014** **3. (PCT/EP2014/064770) - 09-07-2014**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54)	**IN SITU ACCELEROMETER CALIBRATION**
	Patent Period Started From 09/07/2014 and Will end on 08/07/2034

(57) Disclosed are methods and systems for calibration of an accelerometer used in a geophysical sensor while deployed in the water. An embodiment may include towing a streamer behind a survey vessel in a body of water, wherein the streamer comprises an accelerometer; causing at least a portion of the streamer to twist; receiving data from the accelerometer at a selected plural - ity of times during the twist; and based at least in part on the data, determining at least one calibration parameter of the accelerometer

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**09/02/2016** **0214/2016** **April 2020** **19/10/2020** **29977**

(51)	**Int. Cl. [8] G01V 1/38, 1/36**
(71)	**1. PGS Geophysical AS (NORWAY)** **2.** **3.**
(72)	**1. Shaohing Lu** **2. Norman Daniel Whitmore** **3. Alejandro Antonio Valenciano Mavilio**
(73)	**1.** **2.**
(30)	**1. (US) 62/116.749 - 16-02-2015** **2. (US) 14/991.416 - 08-01-2016** **3.**
(74)	**NAHED WADE REZK**
(12)	**Patent**

(54) CROSSTALK ATTENUATION FOR IMAGING OF PRIMARIES AND MULTIPLES

Patent Period Started From 09/02/2016 and Will end on 08/02/2036

(57) Crosstalk attenuation for seismic imaging can include creation of a seismic image based on seismic data including multiples. The seismic image can include causal crosstalk and anti-causal crosstalk. Causal crosstalk and anti-causal crosstalk can be predicted based on the seismic data. The predicted causal crosstalk and the predicted anti-causal crosstalk can be attenuated from the seismic image.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/09/2017** **1526/2017** **June 2020** **19/10/2020** **29978**

(51)	**Int. Cl. [8] G05D 23/19**
(71)	**1. THERMOWATT S.P.A. (ITALY)** **2.** **3.**
(72)	**1. CAPITANELLI, Claudio** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (IT) AN2015A000050 - 20-03-2015** **2. (PCT/IB2016/000264) - 10-03-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**THERMOSTAT WITH REMOVABLE CALIBRATION LOCKING MEANS**
	Patent Period Started From 10/03/2016 and Will end on 09/03/2023

(57) The object of the present invention is a thermostat having calibration locking means that may be unlocked at user discretion, in order to increase the performance of the water heater whereon said thermostat is installed. Said locking means consist of joining elements fracturable as a result of the application of a rotational force on the adjustment knob by which the operating temperatures of such thermostat are calibrated. Said adjustment knob is also provided with visual and/or sound identification means in order to facilitate the user in the task of recovering the calibration point T.box initially preset, even after the fracture of said joining elements.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/10/2016** **1755/2016** **January 2020** **19/10/2020** **29979**

(51)	**Int. Cl. [8] C08F 110/06, 210/06, 4/657**	
(71)	**1. BasellPoliolefine Italia S.r.l (ITALY)** **2.** **3.**	
(72)	**1. Fabrizio PIEMONTESI** **2. Caroline CATHELIN** **3. Simona GUIDOTTI**	**4. Dario LIGUORI** **5. Giampiero MORINI** **6. Davide TARTARI**
(73)	**1.** **2.**	
(30)	**1. (IT) 14167178.4 - 06-05-2014** **2. (PCT/EP2015/059919) - 06-05-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) RANDOM PROPYLENE-ETHYLENE COPOLYMERS AND PROCESS FOR THEIR PREPARATION

Patent Period Started From 06/05/2015 and Will end on 05/05/2035

(57) Propylene-ethylene copolymers showing an ethylene content of between 0.1 and 10% by weight, a molecular weight distribution (MWD), expressed in terms of Mw/Mn, greater than 3.0 and a content of xylene soluble fraction (XS) and ethylene content (C2) such that the point defined by said values falls below the line given by the equation$XS = 1.0296 \times E^{0.435C2}$show high transparency and low melting temperature.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/10/2016** **1747/2016** **May 2020** **19/10/2020** **29980**

(51)	**Int. Cl. [8] A61M 5/31, 5/178 & F16J 15/52**		
(71)	**1. BAYER HEALTHCARE LLC (UNITED STATES OF AMERICA)** **2.** **3.**		
(72)	**1. BERRY, Dave** **2. TUCKER, Barry, L** **3. RHINEHART, Edward, J** **4. TROCKI, Mark** **5. CALLAN, Gerald, W**	**6. UBER, Arthur, E., III** **7. URAM, Martin, J** **8. CALLEN, Dave** **9. COWAN, Kevin, P** **10. HOFFMAN, Raymond, C**	**11. KRUPP, Benjamin, T** **12. GIBLER, Martin, J** **13. MCGEE, Matthew** **14. SPOHN, Michael, A**
(73)	**1.** **2.**		
(30)	**1. (US) 61/984,386 - 25-04-2014** **2. (US) 1/987,086 - 01-05-2014** **3. (PCT/US2015/027582) - 24-04-2015**		
(74)	**SMAS INTELLECTUAL PROPERTY**		
(12)	**Patent**		

(54) SYRINGE WITH ROLLING DIAPHRAGM

Patent Period Started From 24/04/2015 and Will end on 23/04/2035

(57) A syringe for a fluid delivery system includes a pressure jacket having a distal end, a proximal end, and a throughbore therebetween. The syringe further includes a rolling diaphragm having a proximal end with an end wall for engaging a plunger, a distal end received within the throughbore of the pressure jacket. A sidewall extends between the proximal end and the distal end of the rolling diaphragm along a longitudinal axis. At least a portion of one of the sidewall and the end wall has non-uniform thickness. At least a portion of the sidewall is flexible and rolls upon itself when acted upon by the plunger such that an outer surface of the sidewall at a folding region is folded in a radially inward direction as the plunger is advanced from the proximal end to the distal end of the rolling diaphragm.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/08/2017** **1282/2017** **June 2020** **25/10/2020** **29981**

(51)	**Int. Cl. [8] H04W 24/08, 16/14**
(71)	**1. MITSUBISHI ELECTRIC CORPORATION (JAPAN)** **2.** **3.**
(72)	**1. GRESSET, Nicolas** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 15156881.3 – 27-02-2015** **2. (PCT/JP2016/054768) - 12-02-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**METHOD FOR PERFORMING INTERFERENCE ESTIMATION, COMPUTER PROGRAM THEREOF, NON-TRANSITORY INFORMATION STORAGE MEDIUM THEREOF, AND PROCESSING DEVICE ADAPTED FOR PERFORMING INTERFERENCE ESTIMATION**
	Patent Period Started From 12/02/2016 and Will end on 11/02/2036

(57) For estimating interference expected to be encountered by downlink communications toward a communication device located inside a moving conveyance moving over a path, the interference being expected to be encountered due to presence of wayside interferers and presence of on-board interferers, a processing device: obtains first observations of interference performed during at least one first journey for at least one first portion of said path; obtains second observations of interference performed during the first journey(s) for a second portion of said path; obtaining third observations of interference performed during a second journey for said first portion(s); estimating the interference expected to be encountered on said second portion during said second journey, by combining the obtained first, second and third observations such that the part of the third observations related to interference induced by wayside interferers is substantially compensated by the first observations and the part of the second observations related to interference induced by on-board interferers is substantially compensated by the first observations.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/04/2012** **0632/2012** **May 2020** **25/10/2020** **29982**

(51)	**Int. Cl. [8] C02F 1/28**	
(71)	**1. OTSUKA PHARMACEUTICAL CO., LTD (JAPAN)** **2.** **3.**	
(72)	**1. MIYAMOTO, Hiroshi** **2. NOSE, Yukihiko** **3. OHTA, Kazuhide**	**4. TAKABA, Junji**
(73)	**1.** **2.**	
(30)	**1. (US) 61/249.867 - 08-10-2009** **2. (PCT/US2010/051832) - 07-10-2010** **3.**	
(74)	**NAHED WADE REZK**	
(12)	**Patent**	

(54) AN IMMUNOACTIVATION BLOOD PERFUSION FILTER FOR THE TREATMENT OF MALIGNANT TUMORS

Patent Period Started From 07/10/2010 and Will end on 06/10/2030

(57) The invention provides a way of producing a natural immunologically active state in a person by subjecting him to an apheresis procedure with bioincompatible biomaterials for about one hour. To safely control the immunological shock induced by this procedure, the person is put under general anesthesia for about six hours, including the apheresis time and at least an additional five hours thereafter. This immunological activation is useful for treating malignant tumors and diseases related to immunosuppression, such as AIDS. The invention also provides for the use of an apheresis column containing a blood perfusion filter with bioincompatible materials for treating malignant tumors and infectious diseases.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/07/2017** **1164/2017** **May 2020** **25/10/2020** **29983**

(51)	**Int. Cl. [8] E06B 3/72 , 3 /22 , 3/70**
(71)	**1. HARINCK, naamloze vennootschap (BELGIUM)** **2.** **3.**
(72)	**1. HARINCK, Kris André** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (BE) 2015/5024 - 14-01-2015** **2. (BE) 2015/5834 - 18-12-2015** **3. (PCT/BE2015/000071) - 29-12-2015**
(74)	**SMAS**
(12)	**Patent**

(54)	**DOOR LEAF WITH PANEL AND PANEL KIT FOR SUCH A DOOR LEAF**
	Patent Period Started From 29/12/2015 and Will end on 28/12/2035

(57) Door leaf comprising a frame and a door panel with a front leaf, a back leaf and a filler plate, whereby the frame is composed of conventional profiles with a lip oriented inwards to form a groove, whereby the front leaf is affixed against the front of the frame, and at least partially covers the front of the frame and whereby the door panel is fastened to the back of the frame by means of panel slats, characterised in that the front leaf is provided with clamping means that enable the front leaf to be pulled against the front of the frame, whereby these clamping means are formed by one or more clamps along the periphery of the frame with a basic element that is fastened on the front leaf and a clamping slat affixed thereon that hooks behind an aforementioned lip and can be tightened on the basic element towards the front leaf.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/09/2016** **1551/2016** **May 2020** **25/10/2020** **29984**

(51)	**Int. Cl. [8] B44F 1/00**	
(71)	**1. VISUAL PHYSICS, LLC (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CAPE, Samuel, M** **2. GOSNELL, Jonathan, D** **3. JORDAN, Gregory, R**	**4. Palm,scott,k**
(73)	**1.** **2.**	
(30)	**1. (US) 61/971,240 - 27-03-2014** **2. (PCT/US2015/022907) - 27-03-2015** **3.**	
(74)	**AHMED ABDELHADI**	
(12)	**Patent**	

(54) AN OPTICAL DEVICE THAT PRODUCES FLICKER-LIKE OPTICAL EFFECTS

Patent Period Started From 27/03/2015 and Will end on 26/03/2035

(57) An optical device that produces flicker-like optical effects is provided. The inventive device employs directionally cured image icons. Specifically, the optical device is made up of at least one arrangement of image icons formed from one or more cured pigmented materials, and at least one arrangement of optionally embedded focusing elements positioned to form one or more synthetic images of at least a portion of the arrangement(s) of image icons. Some or all of the pigmented material(s) is cured using collimated light directed through the focusing elements toward the arrangement(s) of image icons at one or more angles relative to a surface of the optical device to form directionally cured image icons. The synthetic image(s) of the directionally cured image icons is viewable at the cure angle(s) and therefore visually appears and disappears, or turns on and off, as the viewing angle of the device moves through the cure angle(s). The inventive optical device may be used in conjunction with laser engraving allowing for, in at least one embodiment, superior laser engraving through the optical device.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/10/2015** **1678/2015** **May 2020** **25/10/2020** **29985**

(51)	**Int. Cl. [8] C08F 2/00, C08L14/23**
(71)	**1. BOREALIS AG (AUSTRIA)** **2. ABU DHABI POLYMERS CO LTD (BOROUGE) L.L.C (UNITED STATES OF AMERICA)** **3.**
(72)	**1. HEDESIU, Cristian** **2. ALASTALO, Kauno** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 13002102.5 - 22-04-2013** **2. (PCT/EP2014/000374) - 11-02-2014** **3.**
(74)	**OFFICE DIB LAWYERS**
(12)	**Patent**

(54) MULTIMODAL POLYPROPYLENE COMPOSITION FOR PIPE APPLICATIONS

Patent Period Started From 11/02/2014 and Will end on 10/02/2034

(57) A multimodal propylene copolymer composition suitable for pipe applications comprising a multimodal propylene copolymer (U) with at least one comonomer selected from alpha-olefins with 2 or 4 to 8 carbon atoms in a total amount of 4.0 to 10.0 mole-%, wherein the composition has a melt flow rate MFR2 (2.16 kg, 230 ̊C) of 0.05 to 1.00 g/10 min determined according to ISO 1 133, a content of xylene cold solubles (XCS) of 4.0 to 17.0 wt.-% determined at 25℃ according to ISO 16152, and a polydispersity index PI of 2.5 to 4.0 Pa-1 determined by rheological measurements according to ISO 6721-1 and ISO 6721-10.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/08/2016** **1381/2016** **April 2020** **25/10/2020** **29986**

(51)	**Int. Cl. [8] H01L 31/18, 31/052**
(71)	**1. Array technologies , Inc (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. Ronald P. CORIO** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/941,754 - 19-02-2014** **2. (US) 62/065,741 - 19-10-2014** **3. (PCT/US2015/016290) - 18-02-2015**
(74)	**HASSANE HASSAN MOSTAFA , AL TAMIMI & COMPANY**
(12)	**Patent**

(54) TORSION LIMITER DEVICES, SYSTEMS AND METHODS AND SOLAR TRACKERS INCORPORATING TORSION LIMITERS

Patent Period Started From 18/02/2015 and Will end on 17/02/2035

(57) A solar tracker assembly comprises a support column, a torsion beam connected to the support column, a mounting mechanism attached to the torsion beam, a drive system connected to the torsion beam, and a torsion limiter connected to an output of the drive system. When an external force causes a level of torsion on the drive system to exceed a pre-set limit the torsion limiter facilitates rotational movement of the solar tracker assembly in the direction of the torsion, thereby allowing the external force to rotate about a pivot axis extending through the torsion beam. Exemplary embodiments also include methods of aligning a plurality of rows of solar trackers.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/09/2017** **1585/2017** **July 2020** **28/10/2020** **29987**

(51)	**Int. Cl. [8] C07C 275/00, 273/12, 273/04& B01J 19/10**
(71)	**1. CASALE SA (SWITZERLAND)** **2.** **3.**
(72)	**1. RIZZI, Enrico** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 15161665.3 - 30-03-2015** **2. (PCT/EP2016/055264) - 11-03-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**SONICATION IN A UREA OR MELAMINE SYNTHESIS PROCESS**
	Patent Period Started From 11/03/2016 and Will end on 10/03/2036

(57) Process and respective reactor for urea or melamine synthesis, comprising sonication treatment of at least part of a reaction liquid mass or two-phase mixture contained inside said reactor,

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**26/03/2018** **0523/2018** **July 2020** **28/10/2020** **29988**

(51)	**Int. Cl. [8] B28D 1/22**
(71)	**1. GERMANS BOADA, S.A (SPAIN)** **2.** **3.**
(72)	**1. ROSELL? GARGALLO, Alex;** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (SP) P201531375 - 28-09-2015** **2. (PCT/ES2016/070543) - 19-07-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**CUTTING AND SEPARATING DEVICE APPLICABLE TO MANUAL CERAMIC CUTTERS**
	Patent Period Started From 19/07/2016 and Will end on 18/07/2036

(57) The invention relates to a cutting and separating device applicable to manual ceramic cutters, comprising: a carriage; a collapsible handle with a cutting tool; a toothed part comprising a separator for separating ceramic parts; springs for holding the toothed part in a inoperative position as well as a toothed actuator in an engaged position with the toothed part; and a manual trigger element for disengaging the toothed actuator. The rotation of the handle past a pre-determined angle causes the engagement of the toothed actuator in the toothed part; the descending rotation causes the toothed actuator to rotate the toothed part until an operative position of the separator is reached; and the actuation of the trigger element causes the release of the toothed part and the return thereof to the inoperative position.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/12/2013** **1998/2013** **August 2020** **28/10/2020** **29989**

(51)	**Int. Cl. [8] E02B 17/04**
(71)	**1. FACULTY OF ENGINEERING, ALEXANDRIA UNIVERSITY (EGYPT)** **2. KHALED AHMED ASSEM ABDELHALIM SHAFIE GEBA (EGYPT)** **3.**
(72)	**1. KHALED AHMED ASSEM ABDELHALIM SHAFIE GEBA** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**ALEXANDRIA UNIVERSITY FOCAL POINT**
(12)	**Patent**

(54)	**A METHOD FOR FLOAT-OVER INSTALLATION OF OFFSHORE PLATFORM TOPSIDES USING VERTICAL FLOATER**
	Patent Period Started From 30/12/2013 and Will end on 29/12/2033

(57) A method of float-over installation of offshore platform topsides utilizing a specially configured vertical floaters for that purpose. After connecting the vertical floaters to the topsides, and through controlling the water amount inside the ballast tanks inside the floaters, it is possible to raise the topsides above the transportation barge then moving it above the jacket (lower part of the offshore platform) and then lowering and installing it.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**31/05/2016** **0900/2016** **August 2020** **28/10/2020** **29990**

(51)	**Int. Cl. [8] A47L 11/32**
(71)	**1. MAMDOUH EZZ AL-ARAB ABU SAUD MAHMOOD (EGYPT)** **2.** **3.**
(72)	**1. MAMDOUH EZZ AL-ARAB ABU SAUD MAHMOOD** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**CARPET & MOQUETTE WASHING MACHINE**
	Patent Period Started From 31/05/2016 and Will end on 30/05/2036

(57) The present Invention relates to a carpet and Moquette washing machine. Said invention comprises large rectangular tub based on a large longitudinal chassis having the same size of the tub. Inside the tub there is a shaft rotates on a roll bearing at the beginning of the washing machine and another one at the end. There is a circular grid found on the shaft to roll the carpet, that is tightened via belts, thereor., or the grid can be flat and rectangular for the same purpose. The washing machine is filled with water and a detergent and is then turned on. During operation the main shaft with the grid that carry the carpet rotate until the washing process is done. Water is then drained where the process continued to separate water from the carpet by spinning. Covers and belts are thus removed to take the carpet.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**14/11/2016** **1864/2016** **August 2020** **28/10/2020** **29991**

(51)	**Int. Cl. [8] B01J 20/24, C 02F 101/38, C02F 101/36 , C02F 1/28 , C02F 101/30**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. AHMED SALAMA MOHAMED MOHAMED** **2. PETER HESEMANN** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**NAGLA ALI AHMED** - NATIONAL RESEARCH CENTER - FOCAL POINT
(12)	**Patent**

(54)	**METHOD FOR PREPARING CHITOSAN DERIVATIVE/SILICA IONIC HYBRID AS EFFICIENT ADSORBENT FOR DYE REMOVAL FROM WASTE WATER**
	Patent Period Started From 14/11/2016 and Will end on 13/11/2036

(57) The current invention describes the preparation of new chitosan derivative/silica hybrid as efficient adsorbent for dye removal. N-guanidinium chitosan acetate, new chitosan derivative, was prepared under mild condition through direct reaction between chitosan and cyanimide in the presence of Scandium (III) triflat as a catalyst. Cationic N-guanidinium chitosan acetate was permitted to ionically interact with 3-(Trihydroxysilyl)-1-propansulfonic acid followed by sol-gel reaction. The ionic hybrid was characterized by IR spectroscopy and scanning electron microscopy. N-guanidinium chitosan acetate/silica hybrid containing sulfonic groups displayed excellent adsorption capacity for methylene blue, cationic dye, with capacity up to 935 mg/g. Equilibrium adsorption data showed a better fit with Langmuir adsorption isotherm model. This ionic hybrid was reported to be reusable as the adsorption capacity remained 96% after five adsorption-desorption cycles. These results presented novel hybrid as a promising adsorbent for organic pollutants from waste water.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/01/2018** **0042/2018** **May 2020** **28/10/2020** **29992**

(51)	**Int. Cl. [8] H01H 1/06, 1/58**	
(71)	**1. BEIJING PEOPLE'S ELECTRIC PLANT CO., LTD (CHINA)** **2.** **3.**	
(72)	**1. YIN NAN** **2. JINBAO ZHU** **3. JINYING LI**	**4. KANYUAN LIU**
(73)	**1.** **2.**	
(30)	**1. (CN) 2015 104781090 – 06-08-2015** **2. (PCT/CN2015/093893) - 05-11-2015** **3.**	
(74)	**NAZEH AKHNOKH SADEK ELIAS**	
(12)	**Patent**	

(54) **CONTACT SYSTEM IN LOW- VOLTAGE SWITCH, AND LOW-VOLTAGE SWITCH**

Patent Period Started From 05/11/2015 and Will end on 04/11/2035

(57) Contact system in low-voltage switch, and low-voltage switch are provided. The contact system comprises a bifurcated contact having an upper bifurcated end and a lower bifurcated end, and a movable contact. Electrical contact portions are respectively arranged on insides of the upper bifurcated end and the lower bifurcated end, and on upper and lower surfaces of an execution end of the movable contact corresponding to the electrical contact portions of the bifurcated contact. When the contact system is switched on, electrodynamic repulsion forces produced at the electrical contact portions of the bifurcated contact are offset.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/12/2017** **2108/2017** **July 2020** **28/10/2020** **29993**

(51)	**Int. Cl. [8] C03C 17/36**
(71)	**1. Saint-Gobain Glass (FRANCE)** **2.** **3.**
(72)	**1. SHI, Songlin** **2. GOUGOUSSIS, Christos** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 1556502 - 09-07-2015** **2. (PCT/FR2016/051677) - 01-07-2016** **3.**
(74)	**NAHED WADEA REZQ TARZI**
(12)	**Patent**

(54) MATERIAL COMPRISING A STACK OF THIN LAYERS

Patent Period Started From 01/07/2016 and Will end on 03/06/2036

(57) The invention relates to a material comprising a transparent substrate coated with a stack of thin layers comprising a single functional metal layer containing silver, the stack comprising, starting from the substrate: a dielectric coating comprising at least one dielectric layer; optionally a lower blocking layer arranged below the functional metal layer containing silver and in contact with same; a functional metal layer containing silver; and an upper blocking layer arranged above the functional metal layer containing silver and in contact with same.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/02/2018** **0238/2018** **July 2020** **28/10/2020** **29994**

(51)	**Int. Cl. [8] C09K 8/485, 8/588**	
(71)	**1. Compania Espanola de Petroleos, S.A.U (SPAIN)** **2.** **3.**	
(72)	**1. PRIETO VELASCO, Carlos Alberto** **2. MONTES RUIZ, Jesus** **3. CUBILLOS GUTIERREZ, Helber** **4. ESCUDERO ROJO, Maria José**	**5. LARRAZ MORA, Rafael** **6. LAZARO MUNOZ, JesUs Javier** **7. RODREGUEZ PARDO, MarIa Rosario**
(73)	**1.** **2.**	
(30)	**1. (SP) 16382161.4 - 08-04-2016** **2. (PCT/EP2017/058359) - 07-04-2017** **3.**	
(74)	**NAHED WADEA REZQ TARZI**	
(12)	**Patent**	

(54) COMPOSITION AND METHOD FOR ENHANCED OIL RECOVERY FROM SUBTERRANEAN DEPOSIT

Patent Period Started From 07/04/2017 and Will end on 06/04/2037

(57) The present invention relates to a composition for enhanced oil recovery comprising a) at least one alkali metal dialkylbenzene sulfonate, b) at least one alkyl diphenyl ether disulfonate, c) at least one polyacrylamide selected from (c1) a partially hydrolyzed polyacrylamide, (c2) a sulfonated polyacrylamide and (c3) a sulfonated partially hydrolyzed polyacrylamide, d) at least one alkaline agent selected from sodium metaborate, sodium hydroxide, sodium tetraborate or sodium carbonate,and e) water. The present invention also relates to a method of enhanced oil recovery in which said composition is used.

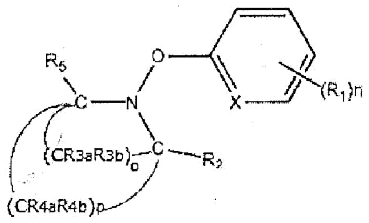
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**10/08/2017** **1364/2017** **July 2020** **28/10/2020** **29995**

(51)	**Int. Cl. [8] A01N 43/90, 25/00, 25/04, 25/22 & A01P 7/02, 7/04**
(71)	**1. Nippon Soda Co (JAPAN)** **2.** **3.**
(72)	**1. KAI Tetsutaro** **2. OKADA Eriko** **3. MAEKAWA Takahiro**
(73)	**1.** **2.**
(30)	**1. (JP) 2015-028628 - 17-02-2015** **2. (PCT/JP2016/054085) - 12-02-2016** **3.**
(74)	**NAHED WADEA REZQ TARZI**
(12)	**Patent**

(54) AGROCHEMICAL COMPOSITION

Patent Period Started From 12/02/2016 and Will end on 11/02/2036

(57) This agrochemical composition contains a component (A): a compound represented by formula (I) (in the formula, R_1, R_2, R_{3a}, R_{3b}, R_{4a}, R_{4b} and R_5 each independently represent a nonsubstituted or substituted C1-6 alkyl group or the like, n represents an integer of 0-4, o and p each independently represent an integer of 2-4, and X represents a carbon atom or a nitrogen atom) or a salt thereof, and a component (B): a hydrolysis inhibitor.



(I)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**31/01/2016** **0150/2016** **July 2020** **28/10/2020** **29996**

(51)	**Int. Cl. [8] A61N 5/06 & A61B 1/303**	
(71)	**1. EL.EN. S.P.A.(ITALY)** **2.** **3.**	
(72)	**1. MASOTTI, Leonardo** **2. GALLI, Mauro** **3. MODI, Stefano**	**4. SCORTECCI, Maurizio**
(73)	**1.** **2.**	
(30)	**1. (IT) FI2013A000182 - 01-08-2013** **2. (IT) FI2013A000252 - 22-10-2013** **3. (PCT/EP2014/066211) - 28-07-2014**	
(74)	**NAHED WADEA REZQ TARZI**	
(12)	**Patent**	

(54) DEVICE FOR TREATING THE VAGINAL CANAL OR OTHER NATURAL OR SURGICALLY OBTAINED ORIFICES, AND RELATED APPARATUS

Patent Period Started From 28/07/2014 and Will end on27/07/2034

(57) The device for treating the vaginal canal by means of a laser beam comprises a retractor for the wall of the vaginal canal, associated with a scanning system for scanning the laser beam towards the wall by means of a pyramidal mirror for laser beam reflection.

Arab Republic of Egypt
Ministry of State for Scientific Research
Academy of Scientific Research & Technology

GRANTED PATENTS' ABSTRACTS GAZETTE

"PATENTS ISSUED IN NOVEMBER 2020 "

Egyptian Patent Office

Issue No 294 **DECEMBER 2020**

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Preface

We are on the verge of a new era which is founded on the basis of technological development and hence, we have to follow it in all fields of national development . Technology has become the basis for the increase in national income and production and hence, scientific research has become our real hope as a way for advancement and as a necessity for life .

Emerging from the responsibility of the Academy of Scientific Research and Technology towards strengthening the pillars of science and technology , I have the pleasure to introduce the Granted Patent's Abstracts of the Publication of Patents monthly, Which includes bibliographical data . This periodical is directed to all those interested in the vital field of Intellectual property which encompasses patents, innovations and creative works .

I hope that this publication meets its targeted objective , namely increasing the welfare , prosperity and advancement for our beloved country, Egypt .

President of Patent Office

Dr. Mona M. Yehia

Bibliographic data

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Inventor Name	72
Patentee Name	73
Patent Attorney Name	74

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TM	Turkmenistan
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UA	Ukraine
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VC	Saint Vincent and the Grenadines

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ZR	Zaire
ZW	Zimbabwe

ABSTRACTS
FOR
GRANTED PATENTS
NOVEMBER (2020)

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/07/2012** **1251/2012** **May 2020** **01/11/2020** **29997**

(51)	**Int. Cl. [8] C01B 17/765**
(71)	**1. MECS, INC. (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. VERA-CASTANEDA, Ernesto** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/296,741 - 20-01-2010** **2. (US) 61/382,882 - 14-09-2010** **3. (PCT/US2011/021928) - 20-01-2011**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) A PROCESS FOR THE PREPARATION OF SULFURIC ACID IN A CONTACT SULFURIC ACID MANUFACTURING FACILITY AND ENERGY RECOVERY THEREIN

Patent Period Started From 20/01/2011 and Will end on 19/01/2031

(57) The invention relates to a process for the preparation of sulfuric acid in a contact sulfuric acid manufacturing facility comprising an interpass absorber wherein said facility is retrofitted to be operated in accordance with a process that recovers the heat of absorption of SO_3 in useful form at a temperature of at least about 150℃. the invention also relates to a process for the recovery of energy in the manufacture of sulfuric acid, and more particularly for enhanced recovery of energy from the absorption of wet SO_3 in sulfuric acid. the invention is further directed to control of mist formation during so_3 absorption, and of the sulfuric acid mist content of the gas stream leaving the SO_3 absorption step in a process wherein SO_3 absorption energy is recovered from absorption acid in useful form .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**22/10/2012** **1809/2012** **May 2020** **01/11/2020** **29998**

(51)	**Int. Cl. [8]** **C12N 9/00, 9/98, 11/00 & A61K 38/43 & C11D 3/386, 11/00, 17/00 & A23K 1/165**	
(71)	**1. NOVOZYMES A/S (DENMARK)** **2.** **3.**	
(72)	**1. HANSEN, Morten, Mohr** **2. BORUP, Flemming** **3. SIMONSEN, Ole**	**4. BACH, Poul**
(73)	**1.** **2.**	
(30)	**1. (EP) 10161045.9 - 26-04-2010** **2. (PCT/EP2011/056053) - 15-04-2011** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) ENZYME GRANULES

Patent Period Started From 15/04/2011 and Will end on 14/04/2031

(57) The stability of enzymes in a powder detergent can be very significantly improved by the combination of four measures: Addition of reducing agent/peroxide decomposing catalyst/antioxidant to the core or the coating; Addition of a multivalent cation to the core; Addition of an acidic buffer to the core or to the coating; Applying a salt coating onto the core.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**21/05/2015** **0797/2015** **May 2020** **08/11/2020** **29999**

(51)	**Int. Cl. [8] C08F 10/00, 4/654, 4/651**
(71)	**1. LUMMUS NOVOLEN TECHNOLOGY GMBH (GERMANY)** **2.** **3.**
(72)	**1. DENKWITZ, Yvonne** **2. SCHUSTER, Oliver** **3. WINTER, Andreas**
(73)	**1.** **2.**
(30)	**1. (US) 61/729,907 - 26-11-2012** **2. (PCT/EP2013/074468) - 22-11-2013** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) A METHOD FOR MAKING A SOLID CATALYST COMPONENT FOR USE IN A ZIEGLER-NATTA CATALYST SYSTEM

Patent Period Started From 22/11/2013 and Will end on 21/11/2033

(57) The present invention relates to a method for making a solid catalyst component for use in ziegler - natta catalyst system, the method including : (a) combining a porous particulate support havind a mean particle diameter in the rang of from about 15 um to about 200 um in an inert solvent with a hydrocabon soluble organomagnesium compound to form a slurry mixture, (b) halogenating the organomagnesium compound , (c) reacting the slurry mixture with a titanium compound , followed by reacting the slurry mixture with an internal donor consisting of at least one diether compound , (d) extracting the solid intermediate with a mixture of a titanium compound and a hydrocarbon solvent to form the solid catalyst compound and (e) recovering the solid catalyst component.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/12/2017** **1991/2017** **May 2020** **01/11/2020** **30000**

(51)	**Int. Cl. [8] A61M 1/02, 1/36 & A61J 1/20 & B65D 75/58 & C12M 1/00, 1/26 & C12N 5/00**
(71)	**1. FONDAZIONE IRCCS CA' GRANDA - OSPEDALE MAGGIORE POLICLINICO (ITALY)** **2. EPISKEY S.R.L (ITALY)** **3.**
(72)	**1. MAZZARO, Giovanni** **2. REBULLA, Paolo** **3. PARATI, Eugenio**
(73)	**1.** **2.**
(30)	**1. (IT) 102015000020415 - 04-06-2015** **2. (US) 102015000020430 - 04-06-2015** **3. (US) 62/171,353 - 05-06-2015** **4. (PCT/IB2016/053229) - 01-06-2016**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54)	**SYSTEM OF MULTIPLE BAGS AND METHOD FOR THE PREPARATION OF HEMOCOMPONENTS**
	Patent Period Started From 01/06/2016 and Will end on 31/05/2036

(57) The present invention relates to a biomedical device for the production, storage, traceability and administration of blood components.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**12/06/2017** **1016/2017** **May 2020** **08/11/2020** **30001**

(51)	**Int. Cl. [8] F22B 1/02 & F28F 1/00**
(71)	**1. JOINT STOCK COMPANY "EXPERIMENTAL AND DESIGN ORGANIZATION** **2. "GIDROPRESS" AWARDED THE ORDER OF THE RED BANNER OF LABOUR AND** **3. CZSR ORDER OF LABOUR (RUSSIAN FEDERATION)**
(72)	**1. LAKHOV, Dmitriy Aleksandrovich** **2. SAFRONOV, Aleksey Vladimirovich** **3. KONYUSHKOV, Aleksandr Grigorevich** **4. ALEKSEEV, Dmitriy Evgenevich** **5. GERONTIEV, Aleksandr Evgenevich**
(73)	**1.** **2.**
(30)	**1. (RU) 2014150428 - 12-12-2014** **2. (PCT/RU2015/000787) - 16-11-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) STEAM GENERATOR COOLANT RESERVOIR AND METHOD FOR MANUFACTURING SAME

Patent Period Started From 16/11/2015 and Will end on 15/11/2035

(57) The invention relates to the electric power industry and may be used in horizontal steam generators of nuclear power plants having a water-cooled, water-modified reactor. Claimed is a primary loop coolant reservoir for a steam generator, which has a horizontal heat exchange bundle with U-shaped tubes and is in the form of a welded, thick-walled vessel having: a perforated middle cylindrical portion capable of having installed and secured therein a bundle of U-shaped heat-exchange tubes which are formed into packets and are separated, within the bundle, by vertical inter-tube corridors; a lower cylindrical portion, capable of being welded to a fitting on the steam generator housing; and an upper cylindrical portion, having a tapered transition to a flanged connection between an access port and a cover. Wherein, apertures for securing the heat-exchange tubes are provided in the middle cylindrical portion of the reservoir, in a checkerboard pattern, in such a way that the horizontal distance between the edges of neighboring apertures on the inner surface of the reservoir is at least 5.5 millimeters. The technical result of the invention consists in providing for the strength of connectors between apertures in a reservoir wall.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/01/2017** **0087/2017** **May 2020** **08/11/2020** **30002**

(51)	**Int. Cl. [8] C07C 29/67, 31/20**	
(71)	**1. Novasep Process (FRANCE)** **2.** **3.**	
(72)	**1. SCHAB, Frédéric** **2. COTILLON, Michel** **3. EBRAN, Teddy**	**4. GAVROY, Vincent**
(73)	**1.** **2.**	
(30)	**1. (FR) 1457249 - 25-07-2014** **2. (PCT/EP2015/066765) - 22-07-2015** **3.**	
(74)	**NAHED WADIH RIZK TARZE**	
(12)	**Patent**	

(54) METHOD FOR PURIFYING GLYCOL USED AS A HYDRATE INHIBITOR

Patent Period Started From 22/07/2015 and Will end on 21/07/2035

(57) The invention concerns a purification method comprising:

- supplying a stream comprising a glycol, monovalent ions and multivalent ions;
- treating said stream with ion exclusion chromatography comprising:
- injecting the stream into a chromatographic unit comprising a stationary ion-exchange phase;
- Injecting an eluent into the chromatographic unit;
- collecting a fraction exiting the chromatographic unit; the collected fraction being enriched in glycol and depleted in monovalent ions and multivalent ions relative to the stream.

The invention also concerns a facility suitable for implementing said method, and the application of same in the regeneration of a hydrate inhibitor.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT  **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**19/04/2015** **0595/2015** **July 2020** **08/11/2020** **30003**

(51)	**Int. Cl. [8] H04W 48/18**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. SUNDARARAJAN, Jay Kumar** **2. ZHOU, Yan** **3. MEYLAN, Arnaud**	**4. TINNAKORNSRISUPHAP, Peerapol**
(73)	**1.** **2.**	
(30)	**1. (US) 61/717,050 - 22-10-2012** **2. (US) 13/776,607 - 25-02-2013** **3. (PCT/US2013/066199) - 22-10-2013**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) **NETWORK DIRECTED SYSTEM SELECTION USING WIRELESS DEVICE INPUT**

Patent Period Started From 22/10/2013 and Will end on 21/10/2033

(57) Methods, systems, and devices are described for network directed system selection. A wireless device may identify a trigger associated with system selection by a network device for the wireless device. The wireless device may identify system selection data for use by the network device in performing a network directed system selection decision for the wireless device. The system selection data may include an indication of one or more networks through which the wireless device has verified that data access is available to the wireless device. The system selection data may be transmitted from the wireless device to a first network for use by the network device. The system selection data may be transmitted in response to the identified trigger.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**20/01/2016** **0099/2016** **July 2020** **08/11/2020** **30004**

(51)	**Int. Cl. [8] H04W 72/04**	
(71)	**1. QUALCOMM INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. CHEN, Wanshi** **2. XU, Hao** **3. GAAL, Peter**	**4. WANG, Neng** **5. WEI, Chao** **6. FENG, Minghai**
(73)	**1.** **2.**	
(30)	**1. (PCT/CN2013/080330) - 29-07-2013** **2. (PCT/CN2013/081188) - 09-08-2013** **3. (PCT/CN2014/082118) - 14-07-2014**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) DYNAMIC INDICATION OF TIME DIVISION DUPLEX (TDUPLINK/DOWNLINK SUBFRAME CONFIGURATIONS

Patent Period Started From 14/07/2014 and Will end on 13/07/2034

(57) Aspects of the present disclosure relate to techniques for dynamic indication of Time Division Duplex (TDD) Uplink (UL)/Downlink (DL) subframe configuration to User Equipments. A base station may identify one or more anchor subframes and one or more non-anchor subframes in a frame. The base station may dynamically change a UL/DL configuration of the frame used for communicating with a plurality of User Equipments (UEs) and signal the changed configuration using a common downlink control channel capable of being interpreted by the plurality of UEs in at least one of the one or more anchor subframes of the frame.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**04/04/2018** **0579/2018** **July 2020** **08/11/2020** **30005**

(51)	**Int. Cl. [8] C01B 3/48, 3/52 & B01D 53/14**
(71)	**1. CASALE SA (SWITZERLAND)** **2.** **3.**
(72)	**1. OSTUNI, Raffaele;** **2. FRANCESCHIN, Giada;** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 15189905.1 - 15-10-2015** **2. (PCT/EP2016/069481) - 17-08-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) PROCESS FOR MAKING A SYNTHESIS GAS BY REFORMING OF A HYDROCARBON AND INCLUDING RECOVERY OF CARBON DIOXIDE AT HIGH TEMPERATURE

Patent Period Started From 17/08/2016 and Will end on 16/08/2036

(57) Process for making a hydrogen-containing synthesis gas from a hydrocarbon feedstock, comprising the reforming of said hydrocarbon feedstock and purification of raw synthesis gas, said purification comprising shift conversion of carbon monoxide into carbon dioxide and subsequent absorption of carbon dioxide into an absorbing medium 1, resulting in a stream of a CO_2-rich medium, and regeneration of said medium with recovery of CO_2 absorbed therein, wherein said raw synthesis gas is produced by the reforming step at a pressure of at least 45 bar, said regeneration of the CO_2- loaded medium includes a step of chemical regeneration and the CO_2-loaded medium has a temperature of at least 150℃ during said chemical regeneration.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/12/2017** **2143/2017** **July 2020** **15/11/2020** **30006**

(51)	**Int. Cl. [8] C05G 3/08, C05G , 9/22**
(71)	**1. Koch Agronomic Services, LLC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. OBECK, Drew** **2. OWUSU-ADOM, Kwame** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 62/191,838 - 10-11-2015** **2. (PCT/US2016/041769) - 11-07-2016** **3.**
(74)	**GAMAL ELDIN LOTFY MAHMOUD ABDEL LATEEF**
(12)	**Patent**

(54) HIGHLY CONCENTRATED PHOSPHORIC OR THIOPHOSPHORIC TRIAMIDE FORMULATION

Patent Period Started From 11/07/2016 and Will end on 10/07/2036

(57) The present disclosure relates to a novel highly concentrated phosphoric or thiophosphoric triamide liquid formulation with enhanced stability against crystallization or freezing under extended exposure to low temperatures of 0℃ or below, and methods to make and use such a formulation.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**15/11/2017** **1858/2017** **May 2020** **15/11/2020** **30007**

(51)	**Int. Cl. [8] B65B 31/02, 5/02**
(71)	**1. OXY-LOW SYSTEMS EUROPE BV (NETHERLANDS)** **2.** **3.**
(72)	**1. BERGWERFF, Frederik** **2. RENNES, VAN, Louis Jean** **3. MCCARTHY, Robert George**
(73)	**1.** **2.**
(30)	**1. (NL)2014811 - 16-05-2015** **2. (PCT/NL2016/050337) - 11-05-2016** **3.**
(74)	**NAHED WADEA REZQ TARZI**
(12)	**Patent**

(54) A METHOD AND APPARATUS FOR PACKAGING OF ONE OR MORE BOXES FILLED WITH TOBACCO IN A PLASTIC BAG

Patent Period Started From 11/05/2016 and Will end on 10/05/2036

(57) A method for packaging one or more tobacco-filled boxes in a plastic bag comprises the following steps of - placing the box in a vacuum chamber through an input, - closing the vacuum chamber, then evacuating the vacuum chamber and thereafter creating an over-pressure nitrogen atmosphere in the vacuum chamber - putting a bag open at one end around a rectangular guide profile open at both ends, where the other, closed, end of the bag shuts off one of the ends of the rectangular guide profile, - positioning the rectangular guide profile with the end not shut off by the bag in front of a shut off output of the vacuum chamber and coupling the rectangular guide profile in a gas-tight manner to the output of the vacuum chamber, - opening the output of the vacuum chamber and guiding the box into the bag via the rectangular guide profile, and - folding the open end of the bag immediately followed by the sealing of the bag. By processing the box in the vacuum chamber before a plastic bag is put around the box, it is better to create underpressure in the box and flush it with nitrogen because the box has not yet been shut off on three sides by the plastic bag in a gas-tight manner. As a result, a better atmosphere can be created in the box or the optimal atmosphere in the box can be created in a faster manner.

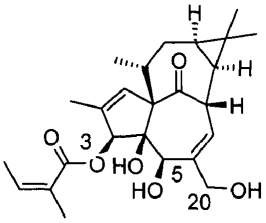
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/01/2013** **0066/2013** **June 2020** **17/11/2020** **30008**

(51)	**Int. Cl. [8] C 07 C 67/08, 69/533, 67/297 & C 07 D 319/08**	
(71)	**1. LEO LABORATORIES LIMITED (IRELAND)** **2.** **3.**	
(72)	**1. LIANG, Xifu** **2. HORNEMAN, Anne, Marie** **3. HOGBERG, Thomas**	**4. GRUE-SORENSEN, Gunnar** **5. PETERSEN, Anders,, Klarskov**
(73)	**1.** **2.**	
(30)	**1. (US) 61/366,018 - 20-07-2010** **2. (PCT/DK2011/000081) - 08-07-2011** **3.**	
(74)	**NAHED WADEA REZQ TARZI**	
(12)	**Patent**	

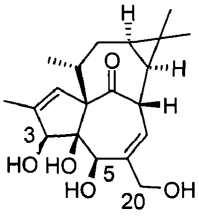
(54) A METHOD OF PRODUCING INGENOL-3-ANGELATE

Patent Period Started From 08/07/2011 and Will end on 07/07/2031

(57) The present invention relates to methods of producing ingenol-3-angelate (I) from ingenol (II). Formula (I) and (II). Furthermore, the invention relates to intermediates useful for the synthesis of ingenol-3-angelate (I) from ingenol (II) and to methods of producing said intermediates.



(I)



(II)

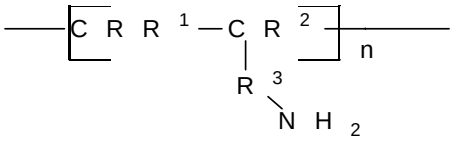
Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/07/2016** **1252/2016** **May 2020** **18/11/2020** **30009**

(51)	**Int. Cl. [8] C23F 14/02, 15/00 & C01B 25/22 & C02F 1/70, 5/12**
(71)	**1. CYTEC INDUSTRIES INC (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. ZHANG, Lei** **2. CARR, John** **3. CHEN, Haunn-Lin, Tony**
(73)	**1.** **2.**
(30)	**1. (US) 61/938,235 - 11-02-2014** **2. (PCT/US2015/015412) - 11-02-2015** **3.**
(74)	
(12)	**Patent**

(54) PRIMARY AMINE-CONTAINING POLYMERS USEFUL AS SCALE INHIBITORS

Patent Period Started From 11/02/2015 and Will end on 10/02/2035

(57) Processes for inhibiting scale produced during wet process phosphoric acid production by adding a scale-inhibiting amount of a reagent having a primary amine-containing polymer, or salt thereof, to one or more stages of a wet process phosphoric acid production stream are provided herein, wherein the primary amine-containing polymer includes an A mer according to Formula (I): where R is H, C1-C6 alkyl, C2-C6 alkenyl, halide, or carboxyl; R1 is H, C1-C6 alkyl, or C2-C6 alkenyl; R2 is H or an A mer according to Formula (I) as herein defined; R3 is chosen from a direct bond or a C1-C12 alkyl, C2-C12 alkenyl, or a C6-C12 aryl group; and n is an integer chosen to provide a weight average molecular weight of the primary amine-containing polymer of at least 300 Daltons, and wherein the percentage of primary amines in the polymer is from 30 mole % to 100 mole % based on the total percentage of mer units in the polymer.



Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/04/2016** **0719/2016** **May 2020** **18/11/2020** **30010**

(51)	**Int. Cl. [8] G06F 19/00**	
(71)	**1. ARES TRADING S.A. (SWITZERLAND.)** **2.** **3.**	
(72)	**1. LAKE, Colin** **2. PATERSON, Andrew** **3. EXELL, Simon**	**4. CHANIE, Eric** **5. KOUVAS, Georgios**
(73)	**1.** **2.**	
(30)	**1. (EP) 13190396.5 - 25-10-2013** **2. (EP) 13195960.3 - 05-12-2013** **3. (PCT/EP2014/072922) - 25-10-2014**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54)	**PATIENT CARE SYSTEM REPORTING ADHERENCE TO TREATMENT REGIMEN**
	Patent Period Started From 25/10/2014 and Will end on 24/10/2034

(57) Patient care system comprising a medical device for administering a medical treatment to a patient and a server system configured to receive and transmit data via a communications network to, respectively from users including patients and health care professionals, the server system further configured to process and store data related to patient care. The server system comprises a database configured to encrypt and store encrypted data related to patient care, an application server including patient care software components for disease management and patient information management, a communication server including a web server software application for data transfer through the internet, the patient care software components operable to receive medical device usage data comprising data on the usage of said medical device transferred through the communications network, and further operable to process said medical device usage data in conjunction with patient data to generate a report or a plurality of reports related to the treatment of the patient, the reports being accessible remotely via the communications network by registered users of the patient care system as a function of respective roles and privileges of the registered user stored in the server system.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**02/04/2017** **0568/2017** **May 2020** **18/11/2020** **30011**

(51)	**Int. Cl. [8] F24J 2/04**	
(71)	**1. THE BABCOCK & WILCOX COMPANY (UNITED STATES OF AMERICA)** **2.** **3.**	
(72)	**1. WASYLUK, David T** **2. ALEXANDER, Kiplin C** **3. SANTELMANN, Kenneth L**	**4. MARSHALL, Jason M**
(73)	**1.** **2.**	
(30)	**1. (US) 62/060,561 - 06-10-2014** **2. (PCT/US2015/054019) - 05-10-2015** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) MODULAR MOLTEN SALT SOLAR TOWERS WITH THERMAL STORAGE FOR PROCESS OR POWER GENERATION OR COGENERATION

Patent Period Started From 05/10/2015 and Will end on 04/10/2035

(57) Methods of arranging and operating a molten salt solar thermal energy system are disclosed. Molten salt flows from a set of cold storage tanks to solar receivers which heat the molten salt to a maximum temperature of about 850F. The heated molten salt is sent to a set of hot storage tanks. The heated molten salt is then pumped to a steam generation system to produce steam for process and/or power generation. Lower salt temperatures are useful in processes that use lower steam temperatures, such as thermal desalination. Lower salt temperatures and low chloride molten salt reduce the corrosion potential, permitting the use of lower cost alloys for the solar receivers, hot storage tanks, salt pumps, piping and instrumentation and steam generation system. Multiple sets of modular, shop assembled storage tanks are used to reduce the amount of salt piping, simplify draining, and reduce field assembly and plant cost.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/12/2016** **2044/2016** **May 2020** **18/11/2020** **30012**

(51)	**Int. Cl. [8] E04G 9/00, 11/00, 13/00, 15/00**
(71)	**1. Steadiform Holdings Pty Ltd (AUSTRALIA)** **2.** **3.**
(72)	**1. TALEB, Elias Joseph** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (AU) 2014902278 - 16-06-2014** **2. (PCT/AU2015/050329) - 15-06-2015** **3.**
(74)	**NAHED WADIH RIZK**
(12)	**Patent**

(54)	**FORMWORK**
	Patent Period Started From 15/06/2015 and Will end on 14/06/2035

(57) A building formwork module for use in a modular formwork system, the module comprising a first wall spaced away from a second wall, the first and second walls being connected by at least one web extending between the first and second walls, the first and second walls and said at least one web defining a channel extending over at least a part of a longitudinal length of the module, the channel adapted to accommodate fill material during use, the web further comprising at least two apertures spaced apart across the web in between the first and second walls such that during use one or more transverse reinforcing members can be posi - tioned in between reinforcing members received in the spaced apart apertures thereby limiting movement of the transverse reinforcing member there-between during use.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**01/03/2017** **0335/2017** **May 2020** **18/11/2020** **30013**

(51)	**Int. Cl. [8] B21D 13/00, 37/02 & B44B 5/00**
(71)	**1. Hadley Industries Overseas Holdings Limited (UNITED KINGDOM)** **2.** **3.**
(72)	**1. CASTELLUCCI, Michael** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (GB) 1415748.1 - 05-09-2014** **2. (PCT/GB2015/052577) - 07-09-2015** **3.**
(74)	**NAHID WADI RIZK TARAZI**
(12)	**Patent**

(54) METHOD FOR FORMING A SHEET METAL MATERIAL

Patent Period Started From 07/09/2015 and Will end on 06/09/2035

(57) A formed sheet metal material and methods, tools and apparatus for forming the sheet metal material in which a pattern of projections and depressions are cold worked in a first portion and, simultaneously, indicia is embossed in a second portion of the sheet material. The cold worked portion is formed with the projections and depressions configured and distributed such that lines drawn on a surface of the formed sheet material between adjacent rows of projections and depressions are not rectilinear. The indicia is indicative of the alignment between the tools.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/10/2016** **1612/2016** **July 2020** **18/11/2020** **30014**

(51)	**Int. Cl. [8] C 12N 1/10, C 12N 1/02**
(71)	**1. INTERVET INTERNATIONAL B.V.** **2. (NETHERLANDS)** **3.**
(72)	**1. GEVERS, Koen** **2. SCHETTERS, Theodorus Petrus Maria** **3.**
(73)	**1.** **2.**
(30)	**1. (EP) 14163340.4 - 03-04-2014** **2. (PCT/EP2015/057294) - 02-04-2015** **3.**
(74)	
(12)	**Patent**

(54) A METHOD TO PURIFY COCCIDIAL OOCYSTS FROM ANIMAL FAECES, A SYSTEM SUITABLE FOR APPLYING THIS METHOD AND OOCYSTS OBTAINED THEREWITH

Patent Period Started From 02/04/2015 and Will end on 01/04/2035

(57) The invention pertains to a method to purify coccidial oocysts having dimensions between Dmin and Dmax from faeces comprising the steps of collecting the faeces containing the coccidial oocysts from host animals, diluting the faeces in an aqueous medium, separating a coarse fraction comprising macroscopic particulate matter from the diluted faeces and collecting an aqueous fraction containing the oocysts, characterised in that the method further comprises sieving the aqueous fraction over a first sieve deck having mesh openings to let the oocysts pass, to obtain an aqueous filtrate comprising the oocysts and a first residue comprising particles larger than the oocysts,and sieving the aqueous filtrate over a second sieve deck having mesh openings to obstruct passing of the oocysts through this sieve deck, to obtain a second residue comprising the purified oocysts and a waist filtrate comprising particles smaller than the oocysts. The invention also pertains to a system suitable for applying this method and to oocysts obtained therewith.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/05/2017** **00748/2017** **August 2020** **17/11/2020** **30015**

(51)	**Int. Cl. [8] E04B 1/21, & E04C 5/06**	
(71)	**1. TECHNIP ITALY S.P.A (ITALY)** **2.** **3.**	
(72)	**1. PASQUALINI, Bruno** **2. GIANESINI, Marco** **3. GENTILE, Santino**	**4. COLONE, Valerio**
(73)	**1.** **2.**	
(30)	**1. (IT) RM2014A000640 - 04-11-2014** **2. (PCT/IB2015/058518) - 04-11-2015** **3.**	
(74)	**SHADY FAROUK MOBARAK**	
(12)	**Patent**	

(54) A JOINT BETWEEN BEAM ELEMENTS AND COLUMN ELEMENTS MADE OF PREFABRICATED REINFORCED CONCRETE

Patent Period Started From 04/11/2015 and Will end on 03/11/2035

(57) A joint between beam elements (T) and column elements (C) made of prefabricated reinforced concrete, basically comprises: a portion prefabricated with the beam (T), equipped with projecting reinforcement rods (1); a portion prefabricated with the column (C), equipped with projecting reinforcement rods (3); and a portion that can be completed in situ. According to the invention, the cross section of the prefabricated beam (T), at the joint, widens gradually so that it is then divided into two prismatic elements with narrow rectangular cross section, referred to as shoulders (S), which define a containment compartment, i.e., a formwork, for the subsequent casting.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**29/03/2016** **0539/2016** **August 2020** **22/11/2020** **30016**

(51)	**Int. Cl. [8] G21C 7/12**
(71)	**1. JOINT STOCK COMPANY AKME-ENGINEERING (RUSSIAN FEDERATION)** **2.** **3.**
(72)	**1. VAKHRUSHIN Mikhail Petrovich** **2. GOLOVIN Ivan Aleksandrovich** **3. PODIN Aleksey Ivanovich** **4. USMANOV Anton Erikovich**
(73)	**1.** **2.**
(30)	**1. (RU) 2013148440 - 31-10-2013** **2. (PCT/RU2014/000283) - 18-04-2014** **3.**
(74)	**AMR IBRAHIM ABDALLAH SALEM**
(12)	**Patent**

(54) DRIVE OF AN EMERGENCY SAFETY ROD

Patent Period Started From 18/04/2014 and Will end on 17/04/2034

(57) The invention relates to nuclear technology, and specifically to systems for controlling and protecting nuclear reactors. A drive of an emergency safety rod of a nuclear reactor includes an electric drive, a reduction gear, and a rack-and-pinion gear. The electric drive contains a contactless electric motor based on permanent magnets, which is installed in the housing of the electric drive with a motor rotor position sensor, and a reduction gear for changing the rate of rotation of the electric drive. A toothed rack is installed along the axis of the rack-and-pinion gear in order to provide for the reciprocating motion of a system absorber rod connected thereto. A toothed electromagnetic clutch having a contactless current supply is installed on an inner shaft of the rack-and-pinion gear, enabling the rigid and simultaneous mechanical coupling of half-couplings, and the drive contains a reverse-motion coupling, a rack-separation spring and toothed rack position sensors. The invention makes it possible to reduce the time necessary for adding negative reactivity to a nuclear reactor core.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/12/2016** **2042/2016** **June 2020** **22/11/2020** **30017**

(51)	**Int. Cl. [8] A61L 2/832**
(71)	**1. PYLOTE (FRANCE)** **2.** **3.**
(72)	**1. MARCHIN, Loïc** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (FR) 1455871 - 25-06-2014** **2. (PCT/FR2015/051730) - 25-06-2015** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) USE OF MATERIALS INCORPORATING MICROPARTICLES FOR AVOIDING THE PROLIFERATION OF CONTAMINANTS

Patent Period Started From 25/06/2015 and Will end on 24/06/2035

(57) The present application relates to the use of a solid material comprising a matrix, dispersed in which are microparticles comprising or consisting of at least one antimicrobial agent for preventing, limiting and/or eliminating the contamination of said material and/or the contamination of a composition which is in contact with said material for at least a given time, and/or preventing, eliminating and/or slowing down the formation of biofilms on the surface of said material, wherein the antimicrobial agent is an oxide of at least one positively charged metal ion and the antimicrobial agent does not migrate out of said material. The application also relates to the use of such material for manufacturing an article, to the process for manufacturing said article, and to the article obtained. In particular, the article is selected from stoppers, lids, seals, caps, covers, plugs and valves intended for sealing bottles, flasks, jars, cans, canisters, barrels, tanks, or various containers used for packaging and/or storing food products, dietetic products, cosmetic products, dermatological products or pharmaceutical products.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/05/2009** **0704/2009** **August 2020** **26/11/2020** **30018**

(51)	**Int. Cl. [8] C07D 263/04 & C07C 7/20**
(71)	**1. BAKER HUGHES INCORPORATED (UNITED STATES OF AMERICA)** **2.** **3.**
(72)	**1. RIVERS, GORDON,T.** **2. HACKROTT, JAMES,A.** **3. TIAN,JUN**
(73)	**1.** **2.**
(30)	**1. (US) 60/866,253 - 17-11-2006** **2. (US) 11/872,887 – 16-10-2007** **3. (PCT/US2007/081596) - 17-10-2007**
(74)	**NAHED WADIH RIZK TARZE**
(12)	**Patent**

(54) OXAZOLIDINIUM COMPOUNDS AND USE AS HYDRATE INHIBITORS

Patent Period Started From 17/10/2007 and Will end on 16/10/2027

(57) Oxazolidinium compounds are formed by the reaction of a halohydrin or an epoxide with a secondary amine and an aldehyde or a ketone. The oxazolidinium compounds are formed directly and do not require the reaction of a pre-formed oxazolidine with an alkylating agent. The compounds are useful as gas hydrate inhibitors in oil and gas production and transportation.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**07/07/2012** **1216/2012** **July 2020** **26/11/2020** **30019**

(51)	**Int. Cl.** [8] **C 07D 403/02, C 07D 417/12, C 07D 405/14**	
(71)	**1. HANMI SCIENCE CO., LTD (REPUBLIC OF KOREA)** **2.** **3.**	
(72)	**1. KIM, Maeng Sup** **2. AN, Yong Hoon** **3. AHN, Young Gil** **4. BANG, Keuk Chan**	**5. PARK, Bum Woo** **6. CHOI, Jong Won** **7. LEE, Jae Chul**
(73)	**1.** **2.**	
(30)	**1. (KR) 10-2010-0003835 - 15-01-2010** **2. (PCT/KR2011/000291) - 14-01-2011** **3.**	
(74)	**SAMAR AHMED EL LABBAD**	
(12)	**Patent**	

(54) METHOD FOR PREPARING TETRAZOLE METHANESULFONIC ACID SALTS, AND NOVEL COMPOUND USED IN SAME

Patent Period Started From 14/01/2011 and Will end on 13/01/2031

(57) According to the present invention, a method for preparing tetrazole methanesulfonic acid salts comprises an acylation reaction using a novel 4-iodine-4H-chromene-2-carbothionic acid S-benzothiazole-2-yl ester. The method of the present invention can shorten a reaction time and improve safety as compared to conventional methods, and can prepare high-purity tetrazole methanesulfonic acid salts at a high yield rate without using a column chromatography method.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**13/11/2012** **1902/2012** **September 2020** **28/11/2020** **30020**

(51)	**Int. Cl. [8] A61B 17/1714**
(71)	**1. MAHMOUD ALM EL DIN ABDEL HAFEZ (EGYPT)** **2.** **3.**
(72)	**1. MAHMOUD ALM EL DIN ABDEL HAFEZ** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (US) 61/641,851 - 02-05-2012** **2.** **3.**
(74)	**Noran Feasil mohamed**
(12)	**Patent**

(54)	**PATIENT-SPECIFIC INSTRUMENTS AND RELATED METHODS FOR TOTAL KNEE**
	Patent Period Started From 13/11/2012 and Will end on 12/11/2032

(57) The present invention relates to Devices Tools and Techniques for Design, Selection and/or modification of patient-specific implants, instruments and related methods, particularly for treating sever deformities during joint repair and/or joint replacement surgeries depending on a new revolutionary concept which is known as double joint line instead of traditional preserving of Joint Line, which as a result requires the design of new unusual components which are patient-specific. These components are uneven and may be thicker medially or laterally to compensate for the bone loss.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**25/05/2015** **0816/2015** **September 2020** **28/11/2020** **30021**

(51)	**Int. Cl. [8] C 09K 8/588, C 09K 8/584**	
(71)	**1. Egyptian Petroleum Research Institute (EPRI) (EGYPT)** **2.** **3.**	
(72)	**1. Abdelaziz Nasr Moawed Bakr El-Hoshoudy** **2. Ahmed Mohamed Al Sabagh** **3. Saad ElDin Mohammed Desouky**	**4. Mohammed Ahmed Betiha**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**KHALID ALI ABDEL-ZAHER**	
(12)	**Patent**	

(54) A NOVEL HYDROPHOBICALLY ASSOCIATED ACRYLAMIDE- SURFMER COPOLYMER FOR ROCK WETTABILITY ALTERATION AND CHEMICAL ENHANCED OIL RECOVERY APPLICATIONS

Patent Period Started From 25/05/2015 and Will end on 24/05/2035

(57) Recently enhanced oil recovery (EOR) technology is getting more attention by many countries since energy crises are getting worse and frightened. To maximize recovered oil amount, the authors introduced a novel hydrophobically associated polyacrylamide (HAPAM) copolymer prepared by grafting or incorporating hydrophobic chain cross-linking segments onto acrylamide(AM)hydrophilic main chain through free radical emulsion polymerization of acrylamide,4-Dodecyl-benzenesulfonate-1-vinylimidazol-3-ium (DBSVI) as cationic/anionic surfmer and divinyl sulfone (DVS)as hydrophobic cross-linker, to be inserted on acrylamide backbone structure, to form acrylamide-4-Dodecyl benzene sulfonate-1-vinylimidazol-3-ium-divinyl sulfone copolymer.Effects of concentrations for initiator, monomer, crosslinker and surfmer in addition to reaction temperature on apparent viscosity of copolymer had been studied through single factor and orthogonal experiments to determine optimum polymerization conditions. Chemical structure of the prepared surfmer and copolymer was proven through different techniques such as Fourier transform infrared spectroscopy (FTIR), nuclear magnetic spectroscopy (1H&13C NMR), scanning electron microscope (SEM), high resolution transmission electron microscope (HRTEM), while particle size and particle size distribution were characterized by dynamic light scattering (DLS) and thermal properties characterized by thermal gravimetric analysis(TGA) and differential scanning Calorimetry(DSC). The aqueous solution properties of the copolymer were also investigated as functions of polymer concentration, salinity, shear rate and temperature. The rheological experiments indicated that the copolymer possessed superior properties compared with previous literature as it exhibit pseudoplastic behaviour, decrease oil/water interfacial tension, alter rock wettability, reduce mobility ratio of aqueous phase (M=0.793) during water flooding processes and exhibit thin adsorbed layer thickness(~1.4µm) by sandstone stratum during flooding processes. The flooding experiment was performed at harsh reservoir conditions on one dimensional sandstone packed model. Moreover wettability alteration was evaluated by contact angle measurements through static sessile drop method. The obtained results show high resistance factor (RF) and residual resistance factor (RRF) values, also oil recovery reach to 48 % of residual oil saturation (Sor), in addition to its ability to alter wettability of sandstone rock from oil-wet to water-wet, consequently increase recovered oil amount. The preliminary feasibility study indicates positive economics for enhanced oil recovery through applications of the novel copolymer. This indicates that the new copolymer is a promising EOR candidate at harsh reservoir conditions of high salinity and high temperature

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**03/06/2015** **0873/2015** **September 2020** **28/11/2020** **30022**

(51)	**Int. Cl. [8] C10M 159/02 & 129/66**	
(71)	**1. EGYPTIAN PETROLEUM RESEARCH INSTITUTE (EPRI) (EGYPT)** **2.** **3.**	
(72)	**1. TAHANY MAHMOUD ABD EL-HAMID** **2. AMANY AYMAN ABOULROUS** **3. MAHMOUD IBRAHIM ABDOU**	**4. AHMED MOHAMED EL-SABAGH**
(73)	**1.** **2.**	
(30)	**1.** **2.** **3.**	
(74)	**KHALID ALI ABDEL-ZAHER**	
(12)	**Patent**	

(54)	**PREPARATION ECOFRIENDLY NEW LUBRICANTS BASED ON JATROPHA OIL FORMULATIONS FOR OIL WELL DRILLING**
	Patent Period Started From 03/06/2015 and Will end on 02/06/2035

(57) This invention concentrates on preparation of ecofriendly formulations for drilling fluid lubricity. These formulations have two phases. The first is hydrophobic moiety based on non-edible jatropha oil as non hydroxy fatty oil (a), and the different nature triglycerides oil were used as hydroxyl oil in these formulations such as; castor (b). In addition to a and b, the microcrystalline wax (as hydrophobicity modifier) was added (0.1 % to 1.5 %). The second phase of these formulations is hydrophilic moiety which based on ester of sorbitan oleate [mono esters and tri esters(c)]. The sorbitan trioleate was ethoxylated up to 20 ethylene oxide unit (d). The addition of (c) and (d) were named as coupling agent. The formulations from phase one and two were performed as lubricant for the water base drilling fluids and their effect on the rheological properties were examined. The lubricity test, ph, calcium ions effect, mud weights and corrosion inhibition test for the prepared formulations were performed. From the obtained results, it was found that the invention formulations exhibited high performance as drilling fluid lubricant compared with the currently used lubricant.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/08/2015** **1218/2015** **September 2020** **28/11/2020** **30023**

(51)	**Int. Cl. [8] C08J 7/04 & C08K 5/00 & D06M 15/37**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. HESHAM MOSTAFA FAHMY ABD-ELGAWWAD** **2. SHAIMAA MAHMOUD SAYED MOHAMED** **3. AMAL AHMED ALY ABDUL-AZIZ** **4. AHMED ABD -ELFATTAH ELSAYED AMR**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**FOCAL POINT MAGDA NATIONAL RESEARCH CENTER : MOHASEB ALSAYED, AMAL YOUSEFF AHMED, MONA MOHAMED FAREED**
(12)	**Patent**

(54)	**PREPARATION SA-PVP HYBRID FOR FINISHING OF COTTON/POLYESTER FABRIC WITH WATER REPELLENCY**
	Patent Period Started From 05/08/2015 and Will end on 04/08/2035

(57) A self dispersing water-repellant material was prepared as an aqueous emulsion of a mixture of stearyl alcohol (sa) and poly(n-vinylpyrrolidone) (pvp) for finishing cotton/polyester fabric with the property of water repellency. This material can be prepared by the reaction of sa at a temperature of 80 c for 55 minutes with an aqueous solution of pvp having a molecular weight of 40,000 dalton and a concentration of 20% (based on weight of sa) in presence of a solution of ammonium per sulfate at a concentration of 50% (based on weight of pvp), followed that by converting the produced material into an aqueous emulsion.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**30/05/2016** **0884/2016** **September 2020** **28/11/2020** **30024**

(51)	**Int. Cl. [8] F23G 7/05**
(71)	**1. NADER KHELIL GHTAS (EGYPT)** **2. SAMIR BASHA ESKANDER (EGYPT)** **3. NAGWA FARED NAGUIB (EGYPT)**
(72)	**1. NADER KHELIL GHTAS** **2. SAMIR BASHA ESKANDER** **3. NAGWA FARED NAGUIB**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**SAMIR BASHA ESKANDER**
(12)	**Patent**

(54) MANAGEMENT OF HAZARDOUS MEDICAL WASTE

Patent Period Started From 30/05/2016 and Will end on 29/05/2036

(57) The system is designed for on-site treatment of medical waste in hospitals and clinic centers. An integrated low cost compact system is composed of waste collection/sorting unit, transport unit, treatment/solidification unit and off-gas treatment unit. The collection/sorting unit is a movable box in the form of a rolling table composed of three compartments each has an upper and a side opening and each is provided with plastic bag with different color for collecting different type of waste. The second unit is the transport duct composed of a three compartment so designed to fit with the three compartments of the collection/sorting unit when they brought in contact. The transport duct connects the collection/sorting unit with the waste treatment/solidification unit. The lower part of each compartment in the transport unit is provided with a shredder and feeds into the third treatment/solidification unit. The treatment/solidification unit is a chemical reactor to decompose the organic/cellulose waste and to solidify the residue with the shredded plastic and shredded sharp wastes. The off-gas treatment unit is composed of a condenser, scrubber and high efficient filter. The method used starts with collection and sorting of the different types of medical wastes and then transport them to a chemical reactor for the destruction of organic/cellulose waste using a powerful oxidizing agent in aqueous medium under normal pressure and at the boiling temperature of the solution. The resulting residue is then incorporated in molten plastic waste materials reinforced by the shredded sharp waste materials. Advantageously the whole chemical and off-gas treatment units can be hoisted and mounted on a movable truck.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**28/08/2016** **1441/2016** **September 2020** **28/11/2020** **30025**

(51)	**Int. Cl. [8] A61C 19/550**
(71)	**1. ABDELMAGEED MOHAMED LEITHY AHMED ALAMELDEEN (EGYPT)** **2.** **3.**
(72)	**1. ABDELMAGEED MOHAMED LEITHY AHMED ALAMELDEEN** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**SURVEYOR AND TRACING APPARATUS**
	Patent Period Started From 28/08/2016 and Will end on 27/08/2016

(57) The invention is a surveyor and tracing apparatus. the technical field, to which the invention pertains, is prosthodontics; the invention aims to standerdize zero tilting position of the dental cast and record various surveyed cast positions. The invention consist of vertical calibirated colums, horizontal colums, plateau and glass slab.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**17/10/2016** **1703/2016** **September 2020** **28/11/2020** **30026**

(51)	**Int. Cl. [8] B 01D 69/06, 71/16 & C 02F 1/44, 103/08**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. ABDALLAH MOHAMED ABDALLAH** **2. AYMAN TAHA ABDEL AZIEM EL GENDI** **3. ASHRAF MUKHTAR LOTFI AMIN** **4. MAHMOUD ATTIA EL- BAYOUMI** **5. AHMED MAHMOUD SHABAN**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) METHOD FOR PREPARING REVERSE OSMOSIS MEMBRANES FROM POLYVINYL CHLORIDE AND CELLULOSE ACETATE FOR SEAWATER DESALINATION

Patent Period Started From 17/10/2016 and Will end on 16/10/2036

(57) This invention relates to a method for preparing reverse osmosis membranes of polyvinyl chloride and cellulose acetate for seawater desalination. Where, the casting solution was prepared from the two polymers in the presence of a solvent and polyethylene glycol, then it was drawn on a glass plate in a locally manufactured membrane casting unit to produce large scale membranes of 0.7 * 1 m. Membranes were washed with distilled water and kept at room temperature. Membranes consist of two layers, porous bottom layer has little voids like fingers and a thick, dense non-porous upper layer which is the separating layer of the salt. The prepared membranes were tested on water desalination using a locally manufactured testing machine to test the membranes at different high pressures and it was found that the prepared membranes have a high efficiency in separating salt from sea water that has a salinity of 35840 ppm which reached 99.2% with permeate flux for desalinated water of 40 l/m2.h under a pressure of 20-50 bar.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	**EGYPT** **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**18/01/2017** **0094/2017** **September 2020** **28/11/2020** **30027**

(51)	**Int. Cl. [8] F02B 63/04**
(71)	**1.** **2. ELHASAN ELSAYED RAMADAN METWALLY (EGYPT)** **3.**
(72)	**1.** **2. ELHASAN ELSAYED RAMADAN METWALLY** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**DEVICE TO RISE MOTOR TORQUE AND SAVE FUEL**
	Patent Period Started From 18/01/2017 and Will end on 17/01/2037

(57) This patent aim to save fuel that used in internal combustion engine .and rise torque exerted from engine. The idea is to make a train of flywheel that connected with high speed gear train gear box.one flywheel to one gear so any gear have one flywheel. All gears of this high speed gear box connected with one flywheel which rise torque and Save fuel.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**08/09/2014** **1420/2014** **October 2020** **30/11/2020** **30028**

(51)	**Int. Cl. [8] C02F 11/00, 103/08**
(71)	**1. SALAH ELDIN MOHAMED SALEH ELSAKET (EGYPT)** **2.** **3.**
(72)	**1. SALAH ELDIN MOHAMED SALEH ELSAKET** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**FOCAL POINT - ALEX UNIVERSTY**
(12)	**Patent**

(54) A METHOD AND AN APPARATUS FOR SEA WATER DESALINATION USING WATER DEPTH PRESSURE

Patent Period Started From 08/09/2014 and Will end on 07/09/2034

(57)

The invention method is used in sea water which contains a low amount of chlorine. It uses pressure at high depths in the sea to desalinate sea water to avoid the utilization of large amount of energy in pressurizing sea water before passing through membrane. This is done through using a cubic membrane through which water passes from outside to the inside of it while salts are kept outside it. The cube is surrounded from outside with a right parallelepiped screen to protect it from unwanted materials. Both the cube and the screen are covered from their top with a metallic cover having two metal ears in which a chain is fixed to be used in lifting the invention to sea level when it is required to change the membrane. Desalinated water is withdrawn using a pump to sea level. When required desalinated water is pushed from sea level at a high pressure inside the desalinating cube to retard salts which exist in the membrane. Filtration process for the water is done at sea level after desalination.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/11/2014** **1892/2014** **October 2020** **30/11/2020** **30029**

(51)	**Int. Cl. [8] A61B 5/00**
(71)	**1. MOHAMED ALI ABD AL MEGED ALMOKATAF (EGYPT)** **2.** **3.**
(72)	**1. MOHAMED ALI ABD AL MEGED ALMOKATAF** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**Focal Point - ALEX UNIVERCITY**
(12)	**Patent**

(54)	**TITLE A DEVICE FOR MEASURING AND EVALUATING THE EFFICIENCY OF THE NERVOUS SYSTEM**
	Patent Period Started From 24/11/2014 and Will end on 23/11/2034

(57) The invention relates to a device for measuring the efficiency of a nervous system. It is electronic device that issues sensory effects and receives the reaction of the tested person , then analyzes - compares them with standard data stored on it to measure and evaluate the efficiency of the nervous system, also shows the extent to which the tested person deals with any type of drugs or liqueur immediately;It is CPU installed with an electronic board with the presence of output units which are bulbs / bell / screen / heater with input units (antenna - remote control), connected computer terminals with on CPU; operating system .

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**05/08/2015** **1221/2015** **October 2020** **30/11/2020** **30030**

(51)	**Int. Cl. [8] D04B 1/00, 15/56, 1/24**
(71)	**1. NATIONAL RESEARCH CENTER (EGYPT)** **2.** **3.**
(72)	**1. TAMER MOSTAFA SAMIR ABDEL HAMID HAMOUDA** **2. SHERIF AHMED MOHAMED ISMAIL** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	**FOCAL POINT OF NATIONAL RESEARCH CENTER**
(12)	**Patent**

(54)	**METHOD OF PRODUCING THREE DIMENSIONAL KNITTING COMPLEX SHAPES FOR FIBER REINFORCED COMPOSITE LIGHT POLE**
	Patent Period Started From 05/08/2015 and Will end on 04/08/2035

(57) The present invention provide a method of knitting a three dimensional complex shapes preforms in which the whole shape of the light pole can be formed as a single piece preform using regular flat knitting machine. Knitted preform comprise three main segments, square anchor base, cylindrical pole body, and lamp brackets. Three dimensional complex preform shape and dimension can be controlled during the knitting design and fabrication process. All light pole preforms & rsquo; parts are connected together and no further sewing process is required. Fiber reinforced light pole characterized by its low cost, resistance to corrosion, light weight, high strength and high load bearing.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/09/2017** **1578/2015** **October 2020** **28/11/2020** **30031**

(51)	**Int. Cl. [8] F23G 5/00, 5/12**
(71)	**1. ADEL IBRAHIM ABDEL FATTAH AHMED (EGYPT)** **2.** **3.**
(72)	**1. ADEL IBRAHIM ABDEL FATTAH AHMED** **2.** **3.**
(73)	**1.** **2.**
(30)	**1.** **2.** **3.**
(74)	
(12)	**Patent**

(54)	**MEDICAL HAZARD WAST INCINERATOR**
	Patent Period Started From 24/09/2017 and Will end on 23/09/2037

(57) The current invention has the capacity of 150kg/cycle, that safely dispose the hazardous medical waste including damaged plastic syringes, laboratory human samples, renal dialysis filters, contaminated surgical instruments and surgical resection products as damaged kidneys and placenta, blood bags and their derivatives through a room called burning rooms of hazardous medical waste at a temperature of 900 °C. After burning, highly toxic gases are emitted as (CO2, Sox, NOx, HCI, FI and HOx). These gases are collected through a new design the hydraulic jump to delay the gases at a temperature of 1300 °C. The design aims giving a delay, not to allow the easy passage without treatment; to ensure burning of all highly toxic gases, during this time delay. The design of the incinerator in this way is an integrated system for the safe disposal for the safe disposal of medical hazardous waste.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**11/09/2017** **1500/2017** **June 2020** **30/11/2020** **30032**

(51)	**Int. Cl. [8] B24B 19/14, 21/16**	
(71)	**1. SIEMENS AKTIENGESELLSCHAFT (GERMANY)** **2.** **3.**	
(72)	**1. HEIDERICH, Julian Philip** **2. SCH?FFER, Karsten** **3. SELLMANN, Stefan**	**4. VISAJTAEV, Marat** **5. VOGT, Felix**
(73)	**1.** **2.**	
(30)	**1. (DE) 10 2015 205 624.4 - 27-03-2015** **2. (PCT/EP2016/056095) - 21-03-2016** **3.**	
(74)	**NAHED WADEA REZQ TARZI**	
(12)	**Patent**	

(54) GRINDING MACHINE AND METHOD FOR PROCESSING A SWEEP EDGE OF A ROTOR BLADE

Patent Period Started From 21/03/2016 and Will end on 20/03/2036

(57) The invention relates to a grinding machine for processing a sweep edge of a rotor blade, comprising a grinding unit with a driven grinding tool, a workpiece receiving device which is designed for receiving a rotor blade to be ground, and a workpiece drive unit which is configured for moving the workpiece receiving device, with a rotor blade received thereon, relative to the grinding tool for the purpose of machining the sweep edge, wherein the workpiece drive unit has a pivot axis at which the workpiece receiving device is held in such a way that the sweep edge of a rotor blade received thereon is engaged with the grinding tool in the course of a pivot movement of the workpiece receiving device about the pivot axis. Furthermore, the invention relates to a method for processing a sweep edge of a rotor blade, in particular using a grinding machine according to the invention.

Arab Republic of Egypt **Ministry of State for Scientific Research** **Academy of Scientific Research & Technology** **Egyptian Patent Office**	EGYPT **PCT**	**(22)** **(21)** **(44)** **(45)** **(11)**	**24/07/2017** **1218/2017** **August 2020** **30/11/2020** **30033**

(51)	**Int. Cl. [8] B29D 22/00 & B29C, 49/12 & B65D 1/02 & C08G 63/181, 63/672, 63/91 & C08L 67/02 & B29L 31/00 & B29K 67/00**
(71)	**1. ALPLA Werke Alwin Lehner GmbH & Co. KG (AUSTRIA)** **2.** **3.**
(72)	**1. SIEGL, Robert; (AT)** **2.** **3.**
(73)	**1.** **2.**
(30)	**1. (CH) 159/15 - 06-02-2015** **2. (PCT/EP2016/051128) - 20-01-2016** **3.**
(74)	**SAMAR AHMED EL LABBAD**
(12)	**Patent**

(54) PREFORM FOR PRODUCING A PLASTIC CONTAINER, PRODUCTION OF THE PREFORM, PLASTIC CONTAINER PRODUCED FROM THE PREFORM, AND PRODUCTION OF THE PLASTIC CONTAINER

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(57) The invention relates to a preform for producing a plastic container in a stretch blow molding method, which preform has an elongate, tube-like preform body, which is closed at one longitudinal end of the preform body by means of a preform bottom and which has a preform neck at the other longitudinal end of the preform body. At least in some regions, the preform is composed of polyethylene furanoate, which, in the production of the preform, has a viscosity of 0.75 dL/g to 0.9 dL/g measured according to a measurement method as per ASTM D4603 and a water content of less than 50 ppm. The invention further relates to a method for producing the preform, to a stretch blow molding method for producing a container from the preform, and to a container resulting therefrom.