

Search history

Search 1: FT=(process and vinasse and treatment and aerat* and agita* and pH) (Results 74)

Search 2: 1 and fertilizer (Results 12)

Title: METHOD AND COMPOSITION FOR THE EMULSIFICATION AND THE DEGRADATION OF PETROLEUM PRODUCTS AND **FERTILIZERS** THUS OBTAINED

Abstract: Source: GB1353945A 1353945 **Fertilizers** from biodegradation of petroleum products; degrading petroleum products G H SALOMONE 19 April 1971 [3 Feb 1970] 20991/71 Headings C1B and C1C [Also in Divisions B1 and C6] A petroleum product is converted into a biodegradable emulsion by mixing the petroleum product with an emulsifying composition comprising (a) 15-80 parts by weight of molasses, cellulose, sugar beet waste, casein, malt extract, protease (including peptone), an ammonium salt, amine, amide and/or **vinasse**, (b) 10-50 parts of sodium, potassium or calcium, carbonate or silicate, ammonium carbonate, dibasic sodium phosphate, dicalcium phosphate and/or a mono- or dibasic ammonium phosphate, and (c) a diluent which may be water, or calcium carbonate or talcum powder, and emulsifying the mixture with water. Example 1: a composition comprising molasses, sodium silicate, phosphoric acid and water was used to emulsify heavy fuel oil. After storage for 5 weeks the hydrocarbons present in the emulsion had been completely degraded by natural micro-organisms. The resultant aqueous suspension, after addition of nitrate and potash, was used for spraying sown cereals. Example 2 a composition comprising molasses, calcium carbonate, calcium silicate and water was used to emulsify petroleum residues. After storing for 4 weeks the emulsion was used to spray river sand in which cereals had been sown. Example 3: a composition comprising molasses, calcium carbonate, dibasic sodium phosphate and water was used to emulsify crude oil. The emulsion after dilution with brackish water, was applied immediately to river sand as a **fertilizer**. Example 4: a pasty composition comprising molasses, sodium silicate and water was used to emulsify crude oil recovered from beaches and the emulsion was stored in sea water containing some 0.5 percent of nitric acid. After one year the hydrocarbons in the emulsion had been completely biodegraded and the product could be used as a **fertilizer**. Example 5: a pasty composition comprising casein, sodium silicate and water was used to emulsify the bottom residue of a fuel oil tank. The emulsion, diluted with water, was stored in the open air for 6 weeks after which it was acidified with phosphoric and nitric acids to halt the biodegradation. After evaporation of a part of the water, the liquid remaining was applied as a **fertilizer**. Example 6: a pasty composition comprising malt extract, calcium carbonate, sodium silicate and water was used to emulsify petroleum residues. The emulsion, diluted with brackish water, could be discharged into a lagoon without harming the flora and fauna. Example 7: a composition comprising molasses, sodium silicate (35% Baumé) and water was used to emulsify heavy petroleum residues. The hydrocarbons were then completely degraded by growing a yeast of the species *Torulopsis utilis* on the emulsion greatly diluted with cheese factory serum. Example 8: a composition comprising molasses, natural potassium silicate (sanidine) and water was used to emulsify heavy hydrocarbons. The silicate and hydrocarbons in the emulsion were then bacterially degraded. The resulting liquid rich in potassium was applied as a **fertilizer**. Example 9: a composition comprising molasses, distillers' washes (**vinasse**), sodium silicate and water was used to emulsify hydrocarbons, which were then allowed to biologically degrade. Example 10: a powdery composition comprising molasses, distillers' washes (**vinasse**), sodium silicate (35% Baumé) and talcum powder was sprinkled on petroleum floating at the surface of an aquarium. Petroleum was absorbed and carried along by the powder. The emulsified mixture which deposited on the bottom of the aquarium, was gradually consumed by the flora. Example 11: a composition comprising molasses, distillers' washes (**vinasse**), calcium carbonate, calcium silicate and stearic acid was applied in the same manner as in Example 10. Example 12: a composition comprising molasses, distillers' washes (**vinasse**), sodium silicate (35% Baumé), talcum powder and oleic acid was applied in the same manner as in Examples 10 and 11.

Classifications:

International (IPC 8-9): A01K61/00 B01F17/00 B01F17/30 B01F3/00 B01J13/00 C02F1/68 C02F3/00 C02F3/34 C05F11/00 C05F17/00 C05F7/00 C05G5/00 C12N1/20 C12N1/26 (Advanced/Invention); C02F101/32 (Advanced/Non-invention); A01K61/00 C02F1/68 C02F3/00 C02F3/34 C05F17/00 C05F7/00 C05G5/00 C12N1/20 C12N1/26 (Core/Invention)

International (IPC 1-7): A01K64/02 A01N9/22 B01D15/02 B01F17/00 B01F3/08 B01F3/22 B01J1/22 B01J13/00 B01J17/00 B01J20/22 C02B9/02 C02C5/10 C02F1/68 C02F3/00 C02F3/34 C05D C05F11/00 C05F11/08 C05F13/00 C05F5/00 C05F7/00 C05G3/00 C08H13/00 C12B1/00 C12B1/08 C12B3/00 C12B3/02 C12B3/04 C12B3/12 C12D1/00 C12D13/00 C12D13/06 C12K1/06 C12N1/14 C12N1/26

CPC: Y10S516/905 Y02W30/43 C05F17/009 C02F1/682 C02F3/344 Y02P20/145

European: 6K 6P C02F1/68D C02F3/34D C05F17/00V

US: 210/611 252/31.2 252/312 435/248 435/254.4 435/255.4 435/256.8 435/262.5 435/281 516/38 516/52 516/53 516/905 71/8

**SUBSTITUTE
REPLACEMENT**

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
AR199870 A1	19741008	AR19710233732	19710129
AT309362 B	19730810	AT19710000736	19710129
AU197124987 A1	19720810	AU19710024987	19710203
BE762195 A1	19710701	BE19710762195	19710128
BR7100809 A0	19730412	BR19710000809	19710203
CA992894 A1	19760713	CA19710104101	19710201
CH533999 A	19730228	CH19710001497	19710202
CS164879 B2	19751128	CS19710000708	19710201
DE2104230 A1	19710930	DE19712104230	19710129
DE2104230 B2	19730920	DE19712104230	19710129
DE2104230 C3	19740425	DE19712104230	19710129
DK132939 B	19760301	DK19710000446	19710202

DK132939 C	19760802	DK19710000446	19710202
ES388263 A1	19740401	ES19710388263	19710202
FI52075 B	19770228	FI19710000275	19710202
FI52075 C	19770610	FI19710000275	19710202
FR2079506 A5	19711112	FR19700003764	19700203
GB1353945 A	19740522	GB19710020991	19710419
IL36122 A0	19710428	IL19710036122	19710202
IL36122 A1	19740731	IL19710036122	19710202
JP53149868 A2	19781227	JP19780003783	19780119
JP57055479 B4	19821124	JP19780003783	19780119
LU62533 A	19710817		19710202
MY7700106 A	19771231	MY19770000106	19771230
NL7101352 A	19710805	NL19710001352	19710202
NO133431 B	19760126	NO19710000305	19710128
NO133431 C	19760505	NO19710000305	19710128
OA3565 A	19710330	OA19710054156	19710201
PH9288 A	19750813	PH19710012170	19710203
PL81652 P	19750830	PL19710145969	19710202
RO71554 P	19810830	RO19710065796	19710203
SE381185 B	19751201	SE19710000739	19710122
SE381185 C	19760311	SE19710000739	19710122
SU519139 D	19760625	SU19711618103	19710203
US3728279 A	19730417	US19710111105	19710129
ZA7100593 A	19711027	ZA19710000593	19710129

Priority:

FR19700003764 19700203

Probable Assignee: SALOMONE GEORGES

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Agent(s): EITAN PEARL LATZER AND COHEN ZEDEK

Title: ARTIFICIAL SOIL CONDITIONER AND FERTILISER - PREPD BY FERMENTATION OF TREATED LIGNITE

Abstract: Source: FR2158090A (Claim 1) 1. Procédé de fabrication d'un conditionneur de sols fertilisant, par traitement de lignites, caractérisé en ce qu'on broie un lignite présentant des solubilités minimales d'environ 20 dans 1 ammoniac aqueux à 2 de NH₃> 10 percent dans le pyrophosphate de sodium à 1 au pH 9 et 5 percent dans le pyrophosphate de sodium tamponné à pH 7, les fractions solubilisées étant précipitables par les ions Ca, ainsi qu'une teneur en cendres inférieure à 25 percent dont 15 percent d'insolubles dans l'acide nitrique, on ajuste le pH dudit lignite broyé à une valeur comprise entre 7,5 et 8,5 par addition d'ammoniac, et/ou de composés de sodium et/ou de calcium en quantités maximales de 2 percent de N₅, 3,5 ss de Na et 5 de CaO en poids, on introduit dans ledit lignite une quantité de 2 à 6 percent en poids d'azote sous formes organique, uréique, amidique et/ou de phosphate d'azote, seules ou en mélange, on ajoute au mélange, à raison d'environ 0,3-0,5 percent en poids, des oligo-éléments indispensables à la vie des micro-organismes, en ensémençant ledit mélange à l'aide des souches microbiennes normalement présentes dans le fumier naturel, le taux d'humidité du lignite étant ajusté et maintenu aux environs de 50 à 60 percent, et on le soumet ensuite à une fermentation aérobie pendant une durée d'environ 20 à 30 jours en maintenant la température à un maximum de 70°C. Soil conditioning, artificial humus is prepd. from lignites with minimal solubilities of 20 percent in 2 percent aq. ammonia, 10 percent in 1 percent Na pyrophosphate at pH 9 and 5 percent in Na pyrophosphate at pH 7, the soluble fractions being precipitable with Ca ions, and an ash content of 25 percent of which 15 percent is insoluble in nitric acid, by grinding the lignite, adjusting the pH to 7.5-8.5 with ammonia and/or Na derivs. and/or Ca derivs. to maximal quantities of 2 percent NH₃, 3.5 percent Na and 5 percent CaO, adding 2-6 percent org. nitrogen, nitrogen from urea or amide, and/or nitrogen phosphates, then adding to the mixt. 0.3-0.5 percent trace elements essential for growth of microorganisms and seeding the mass with strains of organisms from natural manure, the moisture content of the lignite being kept at 50-60 percent, then fermenting the mass aerobically at is not>70 degrees centigrade for 20-30 days.

Classifications:

International (IPC 8-9): C05C3/00 (Advanced/Invention);

C05C3/00 (Core/Invention)

International (IPC 1-7): C05F11/00 C05F11/02

CPC: C05C3/00

European: C05C3/00

Family:

Publication number	Publication date	Application number	Application date
FR2158090 A1	19730615	FR19710039088	19711029
FR2158090 B1	19741115	FR19710039088	19711029

Priority:

FR19710039088 19711029

Probable Assignee:

OLEAGINEUX MEDITERRANEEN

Assignee(s): (std):

OLEAGINEUX MEDITERRANEEN

Assignee(s):

OLEAGINEUX MEDITERRANEEN FR

Title: BACTERIAL FERTILIZER AND PRODUCTION PROCESS

Abstract: The present invention relates to a bacterial fertilizer (biofertilizer) comprised of a suspension which contains cells of new strains of the micro-organisms *Azotobacter vinelandii* and *Azospirillum brasilense*. Said bacterial fertilizer is a suspension of micro-organisms in a water medium. The micro-organisms are obtained by a process which comprises: a) plate culture of the original strain; b) treatment of the former colonies of the prior culture with another culture means; and c) culture of the isolated colonies of the prior step. The advantages of these new strains of micro-organisms are their higher tolerance to very alkaline media and a better binding of N₂, as well as a higher capacity or assimilation of compounds formed by the exudates of the plant roots.

Classifications:

International (IPC 8-9): C05F11/08 (Advanced/Invention)

International (IPC 1-7): C05F11/08 C12N1/20 C12R1/01 C12R1/065

CPC: C05F11/08 C12R1/01 C12R1/065

European: C05F11/08 C12R1/01 C12R1/065

Family:

Publication number	Publication date	Application number	Application date
ES2093559 AA	19961216	ES19950000851	19950504
ES2093559 BA	19970701	ES19950000851	19950504
WO9634840 A1	19961107	WO1996ES00097	19960429

Priority:

ES19950000851 19950504

Probable Assignee: APLICACIONES MAGENTICAS S L

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Assignee(s): CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS ; CONSEJO SUPERIOR INVESTIGACIONES CIENTIFICAS

Inventor(s): (std): MARTIN GONZALEZ ANTONIO ; SANCHEZ ELSNER TILMAN

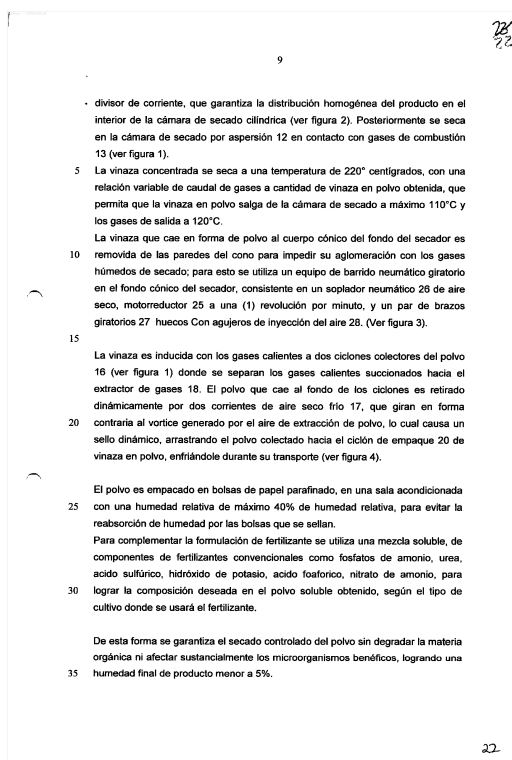
Designated states: AM AZ BY KG KZ MD MX RU TJ TM US

Title: PROCEDIMIENTO PARA LA PRODUCCION DE VINAZA CONCENTRADA ESTABILIZADA Y VINAZA EN POLVO Y PLANTA PARA REALIZACION DE DICHO PROCESO PROCEDURE FOR PRODUCTION VINAZA CONCENTRADA stabilized VINAZA POWDER AND PLANT FOR MAKING SUCH **PROCESS** (Machine translation)

Abstract: Source: CO5980168A La presente invencion comprende la utilizacion de residuos de fermentacion y destilacion de mieles de caña, denominado vinaza, previamente clarificados y estabilizados por reacciones acido base, para produccion de tensoactivos para industria quimica y fertilizantes organico-minerales. Las Tecnicas y equipos descritos, son equipos convencionales del estado de la tecnica, modificados especialmente y en condiciones de proceso especial, para tratar la vinaza resultante de destilerias de alcohol y convertirla en vinaza concentrada clarificada y estable quimicamente. La vinaza concentrada clarificada y estabilizada obtenida, es utilizada para produccion de tensoactivos concentrados liquidos para industria quimica y para la produccion de fertilizantes a base de vinaza en forma de polvo soluble. Para el secado se utilizan equipos convencionales para secado por aspersión, modificados especialmente para secar vinaza y obtener un polvo estable empacado en bolsas. El producto en polvo puede enriquecerse con otros materiales necesarios para la formulacion adecuada segun el tipo de suelo donde se usara el fertilizante, como fosfatos de amonio, urea, acido nitrico, acido sulfurico, acido fosforico, o nitrato de amonio.. less than EMI FILE="07124317_1" ID="1" IMF=JPEG HE=50 WI=50 greater than The present invention comprises the use of waste fermentation of cane molasses, called **vinasse**, previously clarified and stabilized by acid base reactions for production of surfactants for chemical industry and organic-mineral **fertilizers**. The techniques and equipment described are conventional equipment state of the art, specially modified and special **process** conditions, to treat **vinasse** resulting from alcohol distilleries and make concentrated **vinasse** clarified and chemically stable. The concentrated **vinasse** clarified and stabilized obtained is used for production of concentrated liquid surfactants for chemical industry and for the production of **fertilizers** of **vinasse** as a soluble powder. Conventional drying equipment used for spray drying, specially modified to dry **vinasse** and obtain a stable powder bagging. The powder can be enriched with other materials necessary for the proper formulation according to the type of soil in which the **fertilizer** is used, such as ammonium phosphate, urea, nitric acid, sulfuric acid, phosphoric acid, ammonium nitrate or less than EMI.. FILE = "07124317_1" ID = "1" IMF = JPEG HE = 50 WI = 50 greater than

Classifications:

International (IPC 8-9): C12F3/00 (Advanced/Invention);
C12F3/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
CO5980168 A1	20081128	CO20070124317	20071123

Priority:

CO20070124317 20071123

Probable Assignee: KIMEL DE COLOMBIA S A

Assignee(s): (std): KIMEL DE COLOMBIA S A

Assignee(s): KIMEL DE COLOMBIA SA

Inventor(s): (std): ZAPATA R JOSE VICENTE ; ZAPATA RIVERA LUIS GALO ; ZARATE GABRIEL AURELIO

Inventor(s): GABRIEL AURELIO ZARATE ; JOSE VICENTE ZAPATA R ; LUIS GALO ZAPATA RIVERA

Agent(s): HUMBERTO RUBIO CAMACHO

Title: **PROCESS** FOR PRODUCING AN ORGANO-MINERAL **FERTILIZER**

Abstract: Source: US2011113843A The invention relates to a **process** for producing an organo-mineral **fertilizer** from **vinasse**, filter cake and generally boiler ashes, as byproducts of the sugar and/or alcohol manufacture and, optionally, complemented with **fertilizer** sources composed of macronutrients (primary and secondary) and micronutrients. The **process** comprises, in a preferred form of the invention, the steps of: concentrating the **vinasse** until about 65 percent of solids (p/p); mixing and dissolving the **fertilizer** elements in the concentrated **vinasse**; mixing and drying the filter cake and ashes in a hot gas stream obtained by burning bagasse or fine straw; impregnating this dry mixture with the concentrated **vinasse** mixture and the added **fertilizer** agents; and, finally, drying and granulating the final formulated mixture. The end product is a granular solid containing N, P, K, Ca, S, Mg and micronutrients, according to the previously programmed formulation. In the other form of the invention, the same **process** is effected, but without adding the **fertilizer** elements.

Classifications:

International (IPC 8-9): C05F C05F11/00 C05F5/00

C05G1/00 (Advanced/Invention);

C05D9/02 C05F11/00 C05F5/00 C05G1/00 (Core/Invention);

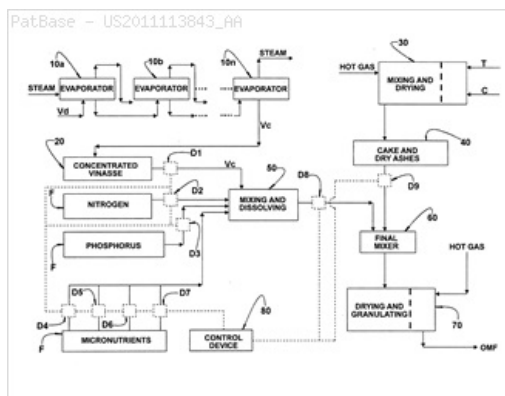
C05F (Subclass/Invention)

International (IPC 1-7): C05F5/00

CPC: Y02P20/145 C05F5/00 C05F5/002

European: C05F5/00 C05F5/00B

US: 71/23 71/23P



Family:

Publication number	Publication date	Application number	Application date
AR071481 AA	20100623	AR2009P101345	20090416
BRPI0801794 A2	20091229	BR2008PI01794	20080423
BRPI0801794 E2	20101228	BR2008PI01794	20080423
CN102056865 A	20110511	CN200980121434	20090420
CO6310991 A2	20110822	CO20100147188	20101123
TH127984 A	20131007	TH20091001777	20090422
US2011113843 AA	20110519	US20090988900	20090420
WO09129589 A2	20091029	WO2009BR00109	20090420
WO09129589 A3	20100128	WO2009BR00109	20090420
ZA201007557 A	20111228	ZA20100007557	20101022
ZA201007557 A	20120125	ZA20100007557	20101022

Priority:

BR2008PI01794 20080423 WO2009BR00109 20090420

Probable Assignee: DEDINI INDUSTRIAS DE BASE SA

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Inventor(s): (std): CESAR ANTONIO ROGERIO ; CESAR BOSCARIOL FERNANDO ; CIAMBELLI JOAO RAFAEL ; EDUARDO MANTELATTO PAULO ; PEREIRA CESAR ANTONIO ROGERIO ; PERRONI CIAMBELLI JOAO RAFAEL ; NOGUEIRA DO AMARAL GURGEL MARCILIO ; MANTELATTO PAULO EDUARDO ; GURGEL MARCILIO NOGUEIRA DO AMARAL ; CIAMBELLI JOAO RAFAEL PERRONI ; CESAR ANTONIO ROGERIO PEREIRA ; BOSCARIOL FERNANDO CESAR ; AMARAL GURGEL MARCILIO NOGUEIRA DO ; NOGUEIRA GURGEL MARCILIO

Inventor(s): PAULO EDUARDO GURGEL ; PAULO EDUARDO MANTELATTO ; ANTONIO ROGERIO PEREIRA CESAR ; ANTONIO ROGERIO PEREIRA CIAMBELLI ; BOSCARIOL FERNANDO CESAR MANTELATTO ; FERNANDO CESAR BOSCARIOL ; GURGEL MARCILIO NOGUEIRA ; JOAO RAFAEL CIAMBELLI ; JOAO RAFAEL PERRONI CIAMBELLI ; MARCILIO NOGUEIRA DO AMARAL CESAR ; MARCILIO NOGUEIRA DO AMARAL GURGEL

Agent(s): JUAN PABLO CADENA SARMIENTO ; ARNAUD ANTONIO M P ET AL

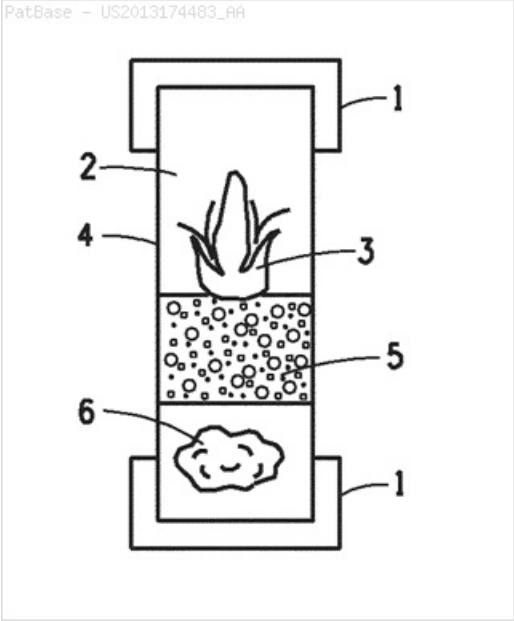
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Title: PLANT ARTIFICIAL SEEDS AND METHODS FOR THE PRODUCTION THEREOF

Abstract: Source: US2013174483A Composition and method for preparing artificial seeds of plantlets that can be developed into grown plants for propagation in the field are disclosed. In one embodiment, the artificial seeds are developed in degradable containers. The disclosed methods also allow for rapid propagation of in demand plants, such as sugarcane, to meet the ever increasing global demand for this plant.

Classifications:

International (ipc 8-9): A01C1/00 A01G9/02 A01G9/10
A01H4/00 (Advanced/Invention);
A01G9/02 A01H4/00 (Core/Invention)
CPC: A01H4/006 A01G9/1026
US: 47/65.7 47/65.8 47/66.7



Family:

Publication number	Publication date	Application number	Application date
AU2012358929 AA	20130627	AU20120358929	20121220
AU2012358929 BB	20170420	AU20120358929	20121220
AU2012358929 CA	20170727	AU20120358929	20121220
BR102012032801 A2	20130910	BR20121032801	20121220
CA2859976 AA	20140619	CA20122859976	20121220
CN104284579 A	20150114	CN201280070197	20121220
CO7010786 A2	20140731	CO20140151528	20140714
EP2793551 A1	20141029	EP20120813654	20121220
IN04660DN2014 A	20160513	IN2014DN04660	20140609
MX2014007449 A1	20151029	MX20140007449	20121220
PH2014501407 A	20140922	PH20140501407	20140619
TH145082 A	20160205	TH20141003531	20121220
TH145083 A	20160205	TH20141003532	20121220
US2013174483 AA	20130711	US20120721105	20121220
WO13096531 A1	20130627	WO2012US70766	20121220

Priority:

US20110578410P 20111221 US20120721105 20121220 WO2012US70766 20121220

Probable Assignee: E I DU PONT DE NEMOURS AND CO

Assignee(s): (std): EIDU PONT DE NEMOURS AND CO ; DU PONT ; BSES LTD ; SUGAR RES AUSTRALIA LTD

Assignee(s): SUGAR RESEARCH AUSTRALIA LTD ; BSES LTD50 MEIERS ROADPO BOX 86Q 4068INDOOROOPILLYAU ; CASPAR TIMOTHY ; E I DU PONT DE NEMOURS AND CO ; EI DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND CO1007 MARKET STREETWILMINGTONDE19899US ; GAULTNEY LAWRENCE DOKA ; GASPARETO DENISE ; GILMOUR ROSS ; E I DUPONT DE NEMOURS AND CO ; LAKSHMANAN PRAKASH ; MORRIS BARRY ALAN ; HALLAHAN DAVID L ; HALLAHAN BEVERLY ; XU JINGJING ; NUNHEZ MARCOS LUCIANO ; JOHNSON BARRY D ; JONES BRAD H ; MAHAJAN SURBHI ; MATHER BRIAN D ; KRATZ KATRINA

Inventor(s): (std): BEVERLY HALLAHAN ; CASPAR TIMOTHY ; DENISE GASPARETO ; DOKA GAULTNEY LAWRENCE ; GASPARETO DENISE ; GASPARETO DENISE DE OLIVEIRA ; ALAN MORRIS BARRY ; GAULTNEY LAWRENCE DOKA ; GILMOUR ROSS ; HALLAHAN BEVERLY ; HALLAHAN DAVID L ; J XU ; JINGJING XU ; JOHNSON BARRY D ; JONES BRAD ; JONES BRAD H ; KATRINA KRATZ ; KRATZ KATRINA ; LAKSHMANAN PRAKASH ; LUCIANO NUNHEZ MARCOS ; MAHAJAN SURBHI ; MATHER BRIAN D ; MORRIS BARRY ALAN ; PRAKASH LAKSHMANAN ; ROSS GILMOUR ; SURBHI MAHAJAN ; TIMOTHY CASPAR ; XU JINGJING ; NUNHEZ MARCOS LUCIANO ; XU JINGLING

Inventor(s): NUNHEZ MARCOS LUCIANOBR ; XU JINGJINGUS ; MORRIS BARRY ALANUS ; MATHER BRIAN DUS ; MAHAJAN SURBHIUS ; MARCOS LUCIANO NUNHEZ ; LAKSHMANAN PRAKASHAU ; LAWRENCE DOKA GAULTNEY ; KRATZ KATRINAUS ; JONES BRAD HUS ; JOHNSON BARRY DUS ; JINGLING XU ; HALLAHAN DAVID LUS ; HALLAHAN BEVERLYUS ; GILMOUR ROSSUS ; GAULTNEY LAWRENCE DOKAUS ; BARRY ALAN MORRIS ; BARRY D JOHNSON ; GASPARETO DENISEBR ; CASPAR TIMOTHYUS ; DAVID L HALLAHAN ; DAVID LHALLAHAN ; DENISE DE OLIVEIRA GASPARETO ; BRAD H JONES ; BRAD JONES ; BRIAN D MATHER

Agent(s): HOULIHAN2; HOULIHAN2; HOULIHAN2 PTY LTD; TORYS LLP; ALVARO CORREA ORDONEZ; MATTHEWS DEREK PETER; CATALANO CHRISTINA M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK

SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PLANT ARTIFICIAL SEEDS HAVING MULTILAYERS AND METHODS FOR THE PRODUCTION THEREOF

Abstract: Source: US2013180173A Composition and method for preparing artificial seeds of plantlets that can be developed into grown plants for propagation in the field are disclosed. In one embodiment, the artificial seeds are developed in degradable containers. The disclosed methods also allow for rapid propagation of in demand plants, such as sugarcane, to meet the ever increasing global demand for this plant.

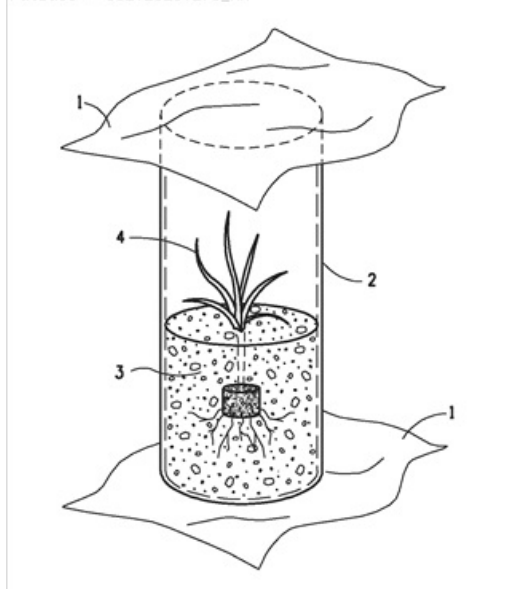
Classifications:

International (IPC 8-9): A01C1/00 A01G1/00 A01G9/02 A01G9/10 A01H4/00 (Advanced/Invention)

CPC: A01G9/1026 A01G1/001 A01H4/006

US: 47/58.15E 47/65.7

PatBase - US2013180173_AA



Family:

Publication number	Publication date	Application number	Application date
AU2012358934 AA	20130627	AU20120358934	20121220
BR102012032803 A2	20130709	BR20121032803	20121220
CA2859982 AA	20140619	CA20122859982	20121220
CN104302165 A	20150121	CN201280070210	20121220
CO7010787 A2	20140731	CO20140151535	20140714
EP2793552 A1	20141029	EP20120813655	20121220
IN04726DN2014 A	20160831	IN2014DN04726	20140610
MX2014007447 A1	20151009	MX20140007447	20121220
PH2014501439 A	20141008	PH20140501439	20140620
US2013180173 AA	20130718	US20120721101	20121220
WO13096536 A1	20130627	WO2012US70776	20121220

Priority:

US20110578432P 20111221 US20120721101 20121220 WO2012US70776 20121220

Probable Assignee: E I DU PONT DE NEMOURS AND CO

Assignee(s): (std): EIDU PONT DE NEMOURS AND CO ; DU PONT ; BSES LTD

Assignee(s): BSES LTD50 MEIERS ROADPO BOX 86Q 4068INDOOROPILLYAU ; CASPAR TIMOTHY ; E I DU PONT DE NEMOURS AND CO ; EI DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND CO1007 MARKET STREETWILMINGTONDE19899US ; GAULTNEY LAWRENCE DOKA ; GASPARETO DENISE ; GILMOUR ROSS ; E I DUPONT DE NEMOURS AND CO ; LAKSHMANAN PRAKASH ; MORRIS BARRY ALAN ; HALLAHAN DAVID L ; HALLAHAN BEVERLY ; PEROTTO JOSEPH ANTHONY ; XU JINGJING ; NUNHEZ MARCOS LUCIANO ; JOHNSON BARRY D ; JONES BRAD H ; MAHAJAN SURBHI ; MATHER BRIAN D ; KRATZ KATRINA

Inventor(s): (std): ALAN MORRIS BARRY ; ANTHONY PEROTTO JOSEPH ; XU JINGLING ; XU JINGJING ; TIMOTHY CASPAR ; SURBHI MAHAJAN ; ROSS GILMOUR ; PRAKASH LAKSHMANAN ; PEROTTO JOSEPH ANTHONY ; PEROTO JOSEPH ANTHONY ; NUNHEZ MARCOS LUCIANO ; MORRIS BARRY ALAN ; MATHER BRIAN D ; LUCIANO NUNHEZ MARCOS ; LAKSHMANAN PRAKASH ; KRATZ KATRINA ; KATRINA KRATZ ; JINGJING XU ; HALLAHAN DAVID L ; HALLAHAN BEVERLY ; GILMOUR ROSS ; GAULTNEY LAWRENCE DOKA ; GASPARETO DENISE ; DOKA GAULTNEY LAWRENCE ; DENISE GASPARETO ; JONES BRAD H ; JONES BRAD ; JOHNSON BARRY D ; MAHAJAN SURBHI ; DE OLIVEIRA GASPARETO DENISE ; CASPAR TIMOTHY ; BEVERLY HALLAHAN

Inventor(s): BARRY D JOHNSON ; BARRY ALAN MORRIS ; BRIAN D MATHER ; BRAD JONES ; BRAD H JONES ; DAVID L HALLAHAN ; LAWRENCE DOKA GAULTNEY ; JINGLING XU ; DENISE DE OLIVEIRA GASPARETO ; JOSEPH ANTHONY PEROTTO ; JOSEPH ANTHONY PEROTO ; MAHAJAN SURBHIUS ; MATHER BRIAN DUS ; MORRIS BARRY ALANUS ; NUNHEZ MARCOS LUCIANOBR ; PEROTTO JOSEPH ANTHONYUS ; XU JINGJINGUS ; MARCOS LUCIANO NUNHEZ ; CASPAR TIMOTHYUS ; GASPARETO DENISEBR ; GAULTNEY LAWRENCE DOKAUS ; GILMOUR ROSSUS ; HALLAHAN BEVERLYUS ; HALLAHAN DAVID LUS ; JOHNSON BARRY DUS ; JONES BRAD HUS ; KRATZ KATRINAUS ; LAKSHMANAN PRAKASHAU

Agent(s): HOULIHAN2; HOULIHAN2; HOULIHAN2 PTY LTD; TORYS LLP; ALVARO CORREA ORDONEZ; MATTHEWS DEREK PETER; CATALANO CHRISTINA M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD OF PRODUCING BIOSURFACTANTS

Abstract: Source: US2015037302A The present invention relates to a method of producing biosurfactants, such as surfactin, comprising culturing at least one biosurfactant-producing microbe in a liquid culture medium comprising **vinasse** as a carbon source. Methods of using the crude biosurfactant containing culture broth in tertiary oil recovery and as antibacterial compositions in tertiary oil recovery are also described. Methods of using the culture broth residue after isolation of the biosurfactants as **fertilizer** and compositions for this use are also described.

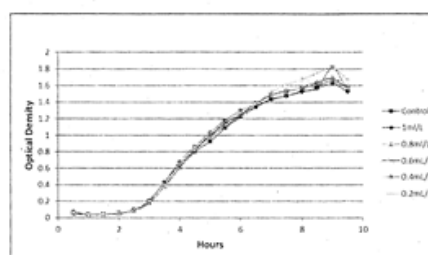
Classifications:

International (IPC 8-9): A01N37/18 A01N63/00 A01N63/02 A01P3/00 A01P7/00 A01P7/04 A61K35/742 A61L101/52 A61P17/00 A61P31/04 C05F11/08 C05F5/00 C07K14/195 C07K14/32 C07K7/64 C09K8/582 C09K8/584 C12N1/00 C12N1/20 C12N1/34 C12P21/02 C12R1/125 (Advanced/Invention); A61L101/52 C12R1/125 (Advanced/Non-invention); C12N1/20 (Core/Invention)

CPC: C05F5/006 C12P21/02 C07K14/32 C09K8/584 A01N37/18 C05F11/08 C12R1/125 A01N63/00 C07K7/64 A01N63/02

US: 424/93.46 424/93.462 435/252.5 435/71.3 507/201 530/321 71/6

PatBase Figure 1 - US2015037302_AA



Family:

Publication number	Publication date	Application number	Application date
AU2013204465 AA	20130815	AU20130204465	20130125
AU2013204465 AH	20151029	AU20130204465	20130125
AU2013204465 BB	20160428	AU20130204465	20130125
AU2013204486 AA	20130815	AU20130204486	20130125
AU2013204486 BB	20160428	AU20130204486	20130125
CN104321422 A	20150128	CN201380012425	20130125
CN104736162 A	20150624	CN201380012422	20130125
EP2809371 A1	20141210	EP20130741355	20130125
EP2809371 A4	20150902	EP20130741355	20130125
IN06610DN2014 A	20150522	IN2014DN06610	20140806
MX2014009102 A1	20150602	MX20140009102	20130125
MX2014009103 A1	20151118	MX20140009103	20130125
RU2014134874 A	20160320	RU20140134874	20130125
RU2628691 C2	20170821	RU20140134874	20130125
TH147223 A	20160304	TH20141004327	20130125
US2015037302 AA	20150205	US20130374851	20130125
US2015037307 AA	20150205	US20130374881	20130125
WO13110132 A1	20130801	WO2013AU00059	20130125
WO13110133 A1	20130801	WO2013AU00060	20130125

Priority:

AU20120900312 20120127 AU20130204465 20130125 WO2013AU00060 20130125
 WO2013AU00059 20130125 AU20130204486 20130125

Probable Assignee: GFS CORP

Assignee(s): (std): BRALKOWSKI MICHAEL PAUL ; BROOKS SARAH ASHLEY ; WRIGHT DAVID MATTHEW ; HINTON STEPHEN M ; YANG SHIH HSIN ; GFS CORP AUS PTY LTD ; GFS CORP

Assignee(s): GLOBAL BIOPROTECT IP PTY LTD ; GFS AUS PTY LTD CORP

Inventor(s): (std): BRALKOWSKI MICHAEL PAUL ; BROOKS SARAH ASHLEY ; HINTON STEPHEN M ; WRIGHT DAVID MATTHEW ; YANG SHIH HSIN

Inventor(s): MICHAEL PAUL BRALKOWSKI ; SARAH ASHLEY BROOKS ; SHIH HSIN YANG ; STEPHEN M HINTON ; DAVID MATTHEW WRIGHT

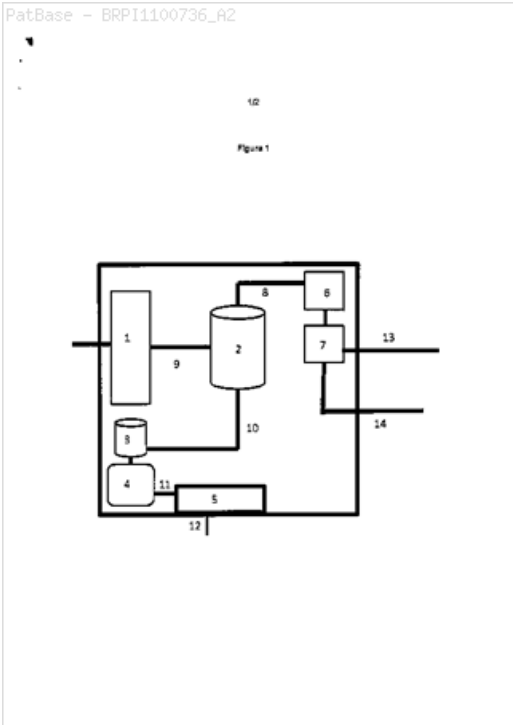
Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BELYEA IP; WATSON ROBERT JAMES; MORRIS KATHRYN B ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SISTEMA DE TRATAMENTO DE VINHACA COM GERACAO DE ENERGIA, GERACAO DE AGUA DE REUSO E ADUBACAO ORGANICA CONCENTRADA **Vinasse TREATMENT** SYSTEM WITH ENERGY GENERATION, REUSE OF WATER GENERATION AND ORGANIC **fertilizer** CONCENTRATED (Machine translation)

Abstract: Source: BRPI1100736A 1 RESUMO SISTEMA DE TRATAMENTO DE VINHACA COM GERACAO DE ENERGIA, GERACAO DE AGUA DE REUSO E ADUBACAO ORGANICA CONCENTRADA. 5 Patente de Invencao para tratamento de vinhaca com geracao de energia limpa, geracao de agua de reuso e de adubacao organica concentrada para implantacao em usinas sucroalcooleiras compreendido por 1) tanque de homogeneizacao, onde o efluente e acumulado, para ser aclimatado; 2) Reator anaerobio de circulacao interna, onde o efluente, apos tratamento, sera separado em gas e liquido; 3) sistema de lavagem e 10 secagem de biogas, onde o biogas e preparado, atraves de secagem, para entrar no gerador; 4) gerador, sistema de coogeracao de energia com controle automatico, que e composto por um grupo gerador movido a biogas, onde o biogas ira ser queimado, acionando o gerador; 5) casa de forca, sistema de distribuicao da energia gerada, com sincronizacao automatica com a rede de distribuicao, e controle de potencia gerada para controlar a exportacao de energia 15 eletrica da rede; 6) sistema de ultrafiltracao, onde a parte liquida do efluente e filtrada por membranas; 7) osmose reversa, onde a parte liquida, sera dividida sendo 50 percent agua de reuso pura e 50 percent de agua para adubacao com sais concentrado. 1 SUMMARY **vinasse TREATMENT** SYSTEM WITH ENERGY GENERATION, REUSE WATER FOR GENERATION AND MANURE ORGANIC CONCENTRATED. 5 Patent Invention for **treatment** of **vinasse** with clean energy generation, reuse of water generation and concentrated organic fertilization for implantation in sugarcane mills comprised of 1) homogenization tank, where the effluent and accumulated, to be acclimated; 2) internal circulation anaerobic reactor where the effluent, after **treatment**, will be separated into gas and liquid; 3) washing 10 and drying system of biogas, wherein the biogas is prepared by drying, to enter the generator; 4) generator, power coogeracao system with automatic control, which is composed of a generator set powered by biogas, where the biogas will be burnt, triggering the generator; 5) strength of home energy distribution system generated with automatic synchronization with the distribution network, and power control generated to control the exportacao power 15 electric network; 6) ultrafiltration system where the liquid portion of the effluent and filtered through membranes; 7) Reverse Osmosis, where the liquid part will be divided with 50 percent pure reuse of water and 50 percent of water for fertilization with concentrated salts.

Classifications:
International (IPC 8-9): C05F5/00 C12F3/00
F03G7/00 (Advanced/Invention)
CPC: Y02E50/343



Family:

Publication number	Publication date	Application number	Application date
BRPI1100736 A2	20140429	BR2011PI00736	20110121

Priority:
BR2011PI00736 20110121

Probable Assignee:	FROHLICH SULAMITA
Assignee(s): (std):	FROHLICH SULAMITA
Assignee(s):	SULAMITA FROHLICH
Inventor(s): (std):	FROHLICH SULAMITA
Inventor(s):	SULAMITA FROHLICH

Title: PLANT-BASED COMPOSITIONS AND USES THEREOF

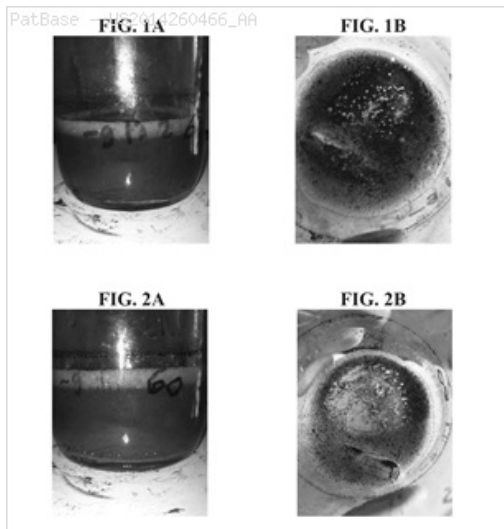
Abstract: Source: US2014260466A The present invention relates to compositions comprising a plant material and methods for using the same. The methods include extracting or removing a substance from a substrate, or remediating a substrate from a substance. The substance can comprise a hydrocarbon-containing substance, a protein, lipid, wax, fatty acid or fatty alcohol, or a combination thereof.

Classifications:

International (IPC 8-9): B08B3/04 B09C1/02 B09C1/08 C02F1/00 C05D9/02 C05F11/00 C05G1/00 C05G3/00 C07C7/00 C09C1/02 C09K17/14 C09K17/40 C09K17/42 C09K3/22 C09K8/62 C09K8/68 C10G1/04 C11D11/00 C11D3/04 C11D3/20 C11D3/382 C11D3/43 C11D7/06 C11D7/08 C11D7/10 C11D7/26 C11D7/44 C11D7/50 (Advanced/Invention); C07C7/00 (Advanced/Non-invention)

CPC: C11D3/382 C09K8/62 C10G1/045 C11D11/0035 C05F11/00 C11D7/44 C05D9/02 C05G1/00 C05G3/0076 C09K3/22 C09K17/14 C09K17/40 C11D3/042 C11D3/044 C11D3/046 C11D3/2003 C11D3/2079 C11D3/2082 C11D3/43 C11D7/06 C11D7/08 C11D7/10 C11D7/261 C11D7/5004 Y02E50/343 Y02T50/678 Y02W30/47 B08B3/04 B09C1/02 B09C1/08 C02F1/00 C07C7/00 C09C1/02 C09K8/68 C11D3/2086 C11D3/2096

US: 1/1 208/390 252/88.1 507/211 507/260 510/179 510/365 71/23



Family:

Publication number	Publication date	Application number	Application date
US2014260466 AA	20140918	US20130842173	20130315
US2015099681 AA	20150409	US20140512635	20141013
US2016298037 AA	20161013	US20160187472	20160620
US9371489 BB	20160621	US20130842173	20130315
US9388343 BB	20160712	US20140512635	20141013
US9624437 BB	20170418	US20160187472	20160620

Priority:

US20130842173 20130315 US20140512635 20141013 US20160187472 20160620

Probable Assignee:

GREENSTRACT LLC

Assignee(s): (std):

GREENSTRACT LLC

Inventor(s): (std):

REHAGE PETER

Agent(s):

COOLEY LLP

Title: **PROCESS** FOR OBTAINMENT OF **FERTILIZERS** FROM **VINASSE**

Abstract: The invention refers to a **process** for obtainment from **vinasse** of an organo- mineral **fertilizer** that contains humic acids, and a nitrogen **fertilizer** with osmo- protectant action due to the presence of (glycine)betaine. The **process** consists of the following steps: separation of an yeast concentrate from **vinasse**; high pressure homogenization of yeast concentrate; addition of steel slag in clarified **vinasse** and maintaining **vinasse** on **aerated** and **agitated** medium, in order to promote the catalytic action of manganese and iron oxides present in steel slag on the reaction of humification of fulvic acids to humic acids; precipitation of humic acids by addition of bio-char and acidification; separation of the filtrate and use as osmo-protectant **fertilizer**; pelletizing of the precipitate together with yeast homogenate, bio-char and softwood sawdust, in order to obtain an organo-mineral **fertilizer**.

Classifications:

International (IPC 8-9): C05F11/00 C05F5/00 (Advanced/Invention)

CPC: C05D9/02 C05F5/008 C05F11/02

Family:

Publication number	Publication date	Application number	Application date
RO129937 A0	20141230	RO20130000897	20131125
WO15076688 A1	20150528	WO2013RO00023	20131127

Priority:

RO20130000897 20131125

Probable Assignee: TRANSPROJECT ORGANIC SRL

Assignee(s): (std): SC TRANSPROJECT ORGANIC SRL ; TRANSPROJECT ORGANIC SRL

Inventor(s): (std): DOBRONAUTEANU EMANUEL CORNELIU ; OANCEA FLORIN

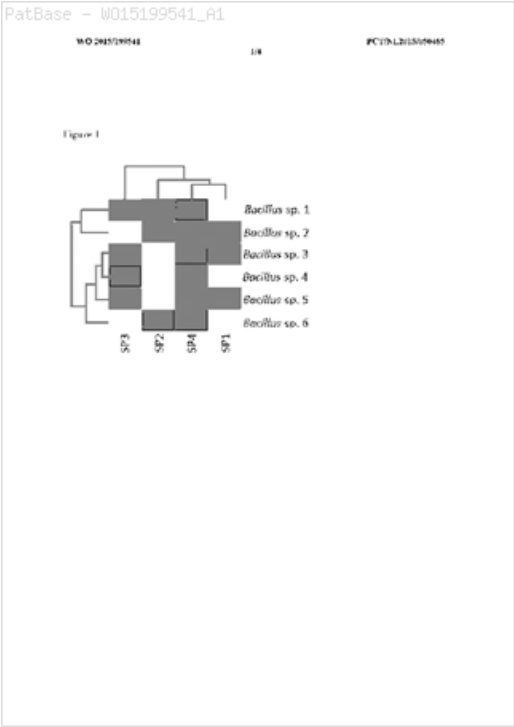
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FERTILIZER COMPRISING BACTERIA AND PROTOZOA.

Abstract: The invention relates to the fields of agriculture and horticulture, in particular to organic fertilizers in granular, powder or pelleted form. Provided is a fertilizer composition comprising organic sources of nitrogen, phosphate and potassium; spores or cysts of Plant-Growth Promoting Rhizobacteria (PGPR) wherein the PGPR is a Bacillus species, preferably Bacillus subtilis, Bacillus amyloliquefaciens and/or Bacillus licheniformis; and encysted protozoa selected from the group comprising Neocercomonas sp., Cercomonas sp., Vannella sp., Sandona sp. and Bodomorpha sp., and combinations thereof, the invention also relates to a method for providing this fertilizer. Also provided is a method for growing a plant, preferably an ornamental plant, grass or a vegetable, comprising applying a fertilizer composition according to the invention in or to the soil in which the plant grows.

Classifications:

International (IPC 8-9): A01N63/00 C05F11/08 (Advanced/Invention)
CPC: C05F11/08



Family:

Publication number	Publication date	Application number	Application date
NL2013072 B1	20160502	NL20142013072	20140626
WO15199541 A1	20151230	WO2015NL50465	20150626

Priority:

NL20142013072 20140626

Probable Assignee: ECOSTYLE BV

Assignee(s): (std): ECOSTYLE BV

Inventor(s): (std): BRENDA LOZNIK ; LOZNIK BRENDA ; OOSTERKAMP PIER JOUKE ; PIER JOUKE OOSTERKAMP

Agent(s): JANSSEN CM

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW