

Search history

Search FT=(Vehicle* and robot* and arm* and gripper* and extract* and plants* and remote* and control* and sensor* and detection*)
 1: (Results 79)

1) Family number: 53861002 (DE102011119923A1)

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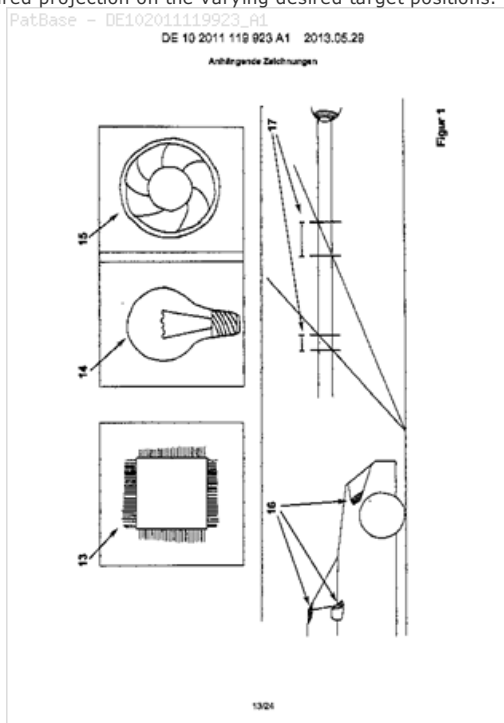
Title: LIGHTING SYSTEM FOR AIR- AND LAND VEHICLES AND WORKING MACHINES FOR PROJECTION OF TARGETED OPTICAL GUIDANCE OR PATTERNS DURING OPERATION, HAS INTEGRATED CONTROL UNIT WHICH ASSEMBLES AND MONITORS NECESSARY DATA FOR DESIRED OPERATING MODE

Abstract: The lighting system has an integrated control unit (13) which assembles and monitors the necessary data for the desired operating mode and controls the desired movable projection. The control unit passes a command to the components. One or multiple integrated or independently attached projection units (17) are provided with a suitable light source (14) and multiple controllable lenses (15). The projection units project the desired projection on the varying desired target positions.

Classifications:

International (IPC 8-9): B60Q1/00 B60Q1/26 (Advanced/Invention)

CPC: B60Q1/484 B60Q2400/50 B62D15/029 B60Q1/085 B60Q1/525 B64D47/04

**Family:**

Publication number	Publication date	Application number	Application date
DE102011119923 A1	20130529	DE201110119923	20111128

Priority:

DE201110119923 20111128

Probable Assignee:

VU SON HAO

Assignee(s): (std):

VU SON HAO

Inventor(s): (std):

VU SON HAO

2) Family number: 43954016 (US2009272526A)

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Title: ELECTRICAL CURRENT FLOW BETWEEN TUNNELS FOR USE IN HEATING SUBSURFACE HYDROCARBON CONTAINING FORMATIONS

Abstract: A system for treating a subsurface hydrocarbon containing formation includes one or more shafts. A first substantially horizontal or inclined tunnel extends from one or more of the shafts. A second substantially horizontal or inclined tunnel extends from one or more of the shafts. Two or more heat source wellbores extend from the first tunnel to the second tunnel. The heat source wellbores are configured to allow electrical current to flow between the heat source wellbores.

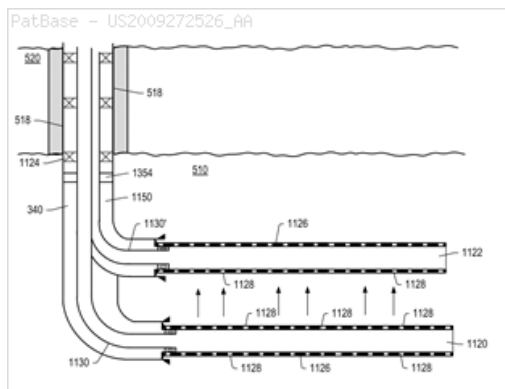
Classifications:

International (IPC 8-9): E21B36/00 E21B43/00

E21B43/24 (Advanced/Invention);

E21B36/00 E21B43/16 (Core/Invention)

CPC: E21B7/068 E21B3/00 E21B4/04 E21B47/06 C10G21/22 C10G21/28 C10G2300/207 C10G2300/301 C10G2300/302 C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42 C10G2300/807 C10G2400/02 E21B7/18 E21B10/003 E21B19/08 E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04 E21B43/119 E21B43/2401 E21B43/2403 E21B43/243 E21B43/281 E21B43/30 E21B43/305 E21B47/022
European: C10G21/22 C10G21/28 E21B10/00C E21B19/08 E21B21/00 E21B21/08 E21B36/00B E21B36/02 E21B36/04 E21B43/119 E21B43/243 E21B43/24B E21B43/24F E21B43/28B E21B43/30 E21B43/30B E21B47/022 E21B7/18
US: 166/248 166/50 166/50S 166/57 166/57S 299/2



Family:

Publication number	Publication date	Application number	Application date
US2009272526 AA	20091105	US20090422119	20090410
US8172335 BB	20120508	US20090422119	20090410

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422119 20090410

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; MACDONALD DUNCAN CHARLES ; MARWEDE JOCHEN ; PRINCE WRIGHT ROBERT GEORGE ; SHELL OIL CO

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): MARWEDE JOCHEN ; MACDONALD DUNCAN CHARLES ; BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; PRINCE WRIGHT ROBERT GEORGE

Inventor(s): HWANG HORNG JYE (JAY)

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

3) Family number: 43954026 (US2009272578A)

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Title: DUAL MOTOR SYSTEMS AND NON-ROTATING SENSORS FOR USE IN DEVELOPING WELLBORES IN SUBSURFACE FORMATIONS

Abstract: A method for forming a subsurface wellbore is disclosed. The method includes operating a drilling string in a first direction of rotation. A first motor located near the end of the drilling string is operated in a direction of rotation opposite that of the drilling string. A drill bit is rotated using a second motor that is coupled to the first motor.

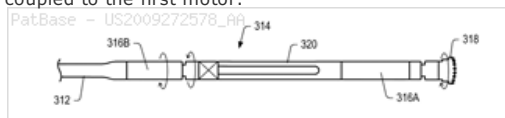
Classifications:

International (IPC 8-9): E21B4/16 E21B4/20 E21B44/00 E21B47/00 E21B7/00 E21B7/06 (Advanced/Invention); E21B4/00 E21B44/00 E21B47/00 E21B7/00 E21B7/04 (Core/Invention)

CPC: E21B7/068 E21B3/00 E21B4/04 E21B47/06 C10G21/22 C10G21/28 C10G2300/207 C10G2300/301 C10G2300/302 C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42 C10G2300/807 C10G2400/02 E21B7/18 E21B10/003 E21B19/08 E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04 E21B43/119 E21B43/2401 E21B43/2403 E21B43/243 E21B43/281 E21B43/30 E21B43/305 E21B47/022

European: C10G21/22 C10G21/28 E21B10/00C E21B19/08 E21B21/00 E21B21/08 E21B36/00B E21B36/02 E21B36/04 E21B43/119 E21B43/243 E21B43/24B E21B43/24F E21B43/28B E21B43/30 E21B43/30B E21B47/022 E21B7/18

US: 175/26 175/26P 175/40 175/40S 175/57 175/57S 175/61 175/61S 175/73 175/73S 175/95 175/95S



Family:

Publication number	Publication date	Application number	Application date
US2009272578 AA	20091105	US20090422084	20090410
US8151907 BB	20120410	US20090422084	20090410

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422084 20090410

Probable Assignee: SHELL OIL CO

Assignee(s): (std): MACDONALD DUNCAN CHARLES ; SHELL OIL CO

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): MACDONALD DUNCAN CHARLES

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

4) Family number: 77826030 (WO20041285A2)

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Title: SYSTEMS AND METHODS FOR DEPLOYING COASTAL UNDERWATER POWER GENERATING STATIONS, AND SYSTEMS AND METHODS FOR FUEL HANDLING IN AN OFFSHORE MANUFACTURED NUCLEAR PLATFORM, AND SYSTEMS AND METHODS FOR DEFENSE OF A PREFABRICATED NUCLEAR PLANT

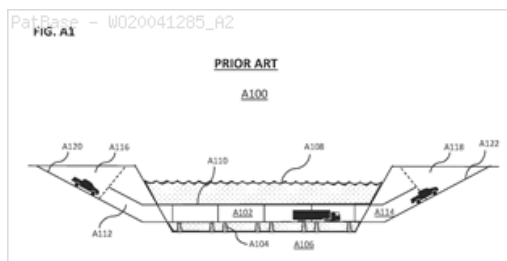
Abstract: An underwater nuclear power unit includes: an access tunnel; a plurality of submersible modules; a crushable gasket; and a fluid barrier. The crushable gasket and the fluid barrier establish a water-tight seal between modules. A nuclear power unit includes: a containment vessel; a support structure; a plurality of pilings; a spent fuel storage; and a fuel handler for moving spent fuel to the spent fuel storage. A defense system for an offshore nuclear power unit includes a containment vessel; a first defense with a first radius of approximately eight nautical miles; a second defense area with a second radius of approximately six nautical miles; a third defense area with a third radius of approximately one nautical mile; and a fourth defense area with a fourth radius of less than one nautical mile. Active defenses are deployable in the air,

on the water, and below the water within the defense areas.

Classifications:

International (IPC 8-9): B63B35/50 B63G9/00 E02B17/00
E02D29/063 F41H11/00 G21C15/00 G21C19/07 G21C19/10
G21C19/16 G21D1/00 (Advanced/Invention)

CPC: B63B35/50 B63G9/00 E02B17/00 E02D29/063 F41H11/00
G21C15/00 G21C19/07 G21C19/10 G21C19/16 G21D1/00



Family:

Publication number	Publication date	Application number	Application date
WO20041285 A2	20200227	WO2019US47228	20190820

Priority:

US20180720803P 20180821 US20180720823P 20180821 US20180720831P 20180821

Probable Assignee: ENERGIE PROPRE PRODIGY LTEE PRODIGY CLEAN ENERGY LTD

Assignee(s): (std): ENERGIE PROPRE PRODIGY LTEE PRODIGY CLEAN ENERGY LTD ; TROJER MATHIAS

Inventor(s): (std): LOWREY JUSTIN BENJAMIN ; TROJER MATHIAS

Agent(s): KARCESKI JEFFREY D

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

5) Family number: 43589034 (US2009194282A)

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Title: IN SITU OXIDATION OF SUBSURFACE FORMATIONS

Abstract: Methods and systems for treating a hydrocarbon containing formation described herein include providing heat to a first portion of the formation from a plurality of heaters in the first portion, producing produced through one or more production wells in a second portion of the formation, reducing or turning off heat provided to the first portion after a selected time, providing an oxidizing fluid through one or more of the heater wells in the first portion, providing heat to the first portion and the second portion through oxidation of at least some hydrocarbons in the first portion, and producing fluids through at least one of the production wells in the second portion. The produced fluids may include at least some oxidized hydrocarbons produced in the first portion.

Classifications:

International (IPC 8-9): E21B43/00 E21B43/16 E21B43/24

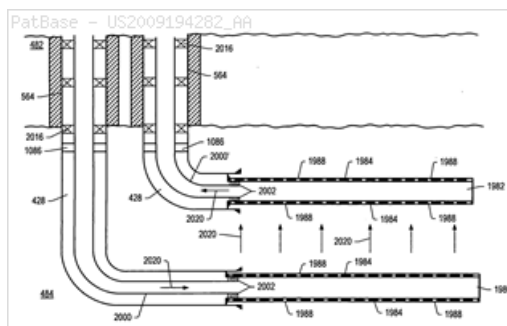
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E21B43/00 E21B43/16 E21B43/25 (Core/Invention)

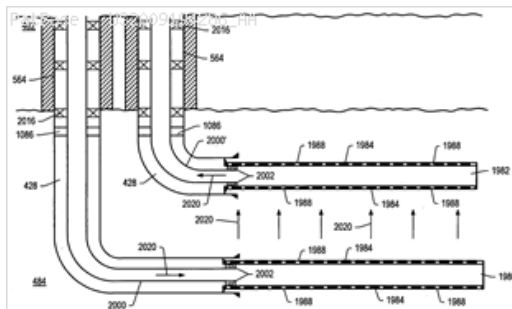
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H01J37/32926 H01J37/32935 Y10T29/49083

European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4
T01F27/38

US: 166/258 166/260 166/261 166/263 166/263S 166/272.1
166/272.100S 166/272.3 166/272.6 166/272.7 166/272.700P



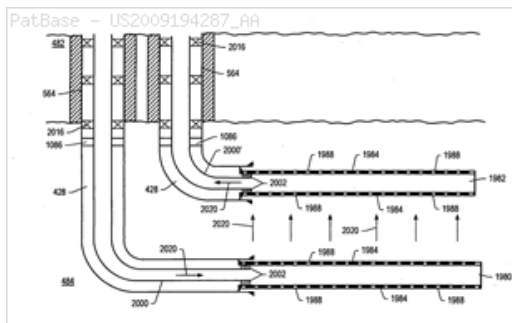
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Publication number	Publication date	Application number	Application date
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US8146669 BB	20120403	US20080250297	20081013

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

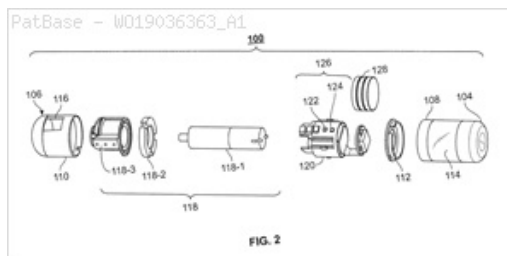
US: 166/302 166/52 166/52S 166/60 166/60S 392/301



Publication number	Publication date	Application number	Application date
US2009194287 AA	20090806	US20080250357	20081013
US8162059 BB	20120424	US20080250357	20081013

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

CPC: A61K9/009 A61M31/002 A61B5/065 A61B5/4216 A61B5/4255
A61B5/4836 A61B5/6861



Family:

Publication number	Publication date	Application number	Application date
WO19036363 A1	20190221	WO2018US46494	20180813

Priority:

US20170545330P 20170814 US20170583898P 20171109 US20170598972P 20171214
US20180650883P 20180330

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; STYLLI HARRY ; WAHL CHRISTOPHER LOREN

Agent(s): CULHANE CRYSTAL L 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

9) Family number: 73262090 (WO19036382A1)

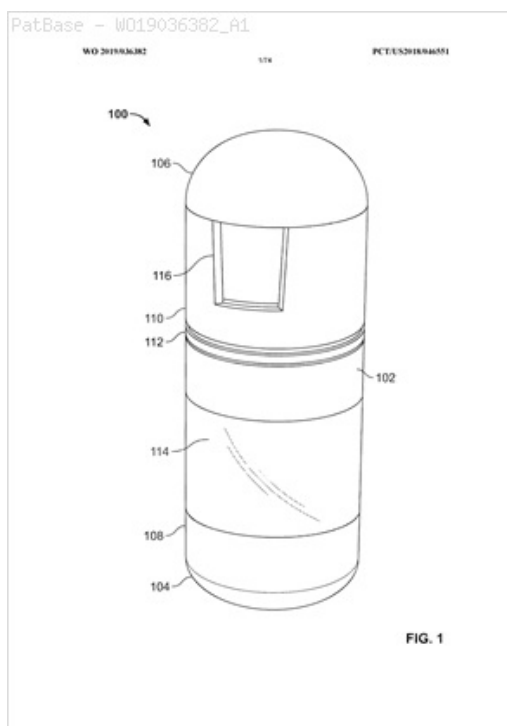
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Title: TREATMENT OF INFLAMMATORY DISEASE USING INGESTIBLE DEVICE TO RELEASE IMMUNE MODULATOR

Abstract: This disclosure features methods and compositions for treating inflammatory disorders or conditions that arise in a tissue originating from the endoderm using an immune modulator.

Classifications:

International (IPC 8-9): A61K31/4245 A61K38/13 A61K39/00 A61K39/395 A61K9/00 C07K16/24 C07K16/28 C12N15/113 (Advanced/Invention)
CPC: A61K39/395 A61K31/7088 A61K31/713 A61K38/13 A61K45/06 A61P29/00 C07K16/241 C07K16/244 C07K16/2839 C12N15/1136 A61K9/0053 A61K9/0097 A61K9/4808 A61K31/136 A61K31/137 A61K31/397 A61K31/40 A61K31/4196 A61K31/4245 A61K31/428 A61K31/436 A61K31/519 A61K31/606 A61K38/08 A61K2039/505 A61K2039/542 C07K16/24 C07K16/28



Family:

Publication number	Publication date	Application number	Application date
CA3073185 AA	20200214	CA20183073185	20180813
WO19036382 A1	20190221	WO2018US46551	20180813
WO19118778 A1	20190620	WO2018US65544	20181213

Priority:

US20170545894P 20170815 US20170583969P 20171109 US20170596041P 20171207
US20170599005P 20171214 US20170599000P 20171214 US20180650900P 20180330
US20180687697P 20180620 WO2018US46551 20180813

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Assignee(s): SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; JONES MITCHELL LAWRENCE

Inventor(s): (std): JONES MITCHELL LAWRENCE ; WAHL CHRISTOPHER LOREN ; SINGH SHARAT ; PERERA ARUNA ; HOWE KEVIN DAVID ; STYLLI HARRY

Agent(s): SMART AND BIGGAR LLP; CULHANE CRYSTAL L 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

10) Family number: 43624118 (US2009200290A)

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Title: VARIABLE VOLTAGE LOAD TAP CHANGING TRANSFORMER

Abstract: Power supply systems for subsurface heaters are described herein. The power supply system includes a variable voltage, load tap changing transformer. Systems and methods for supplying electrical power to subsurface heaters using the variable voltage transformers are also described herein.

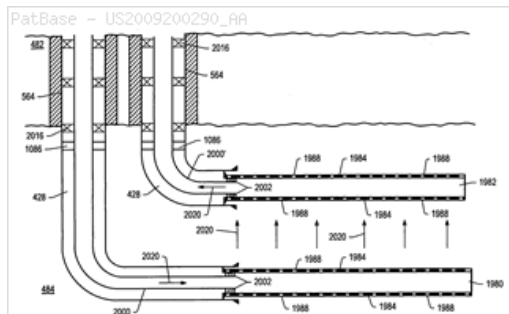
Classifications:

International (IPC 8-9): H05B3/02 (Advanced/Invention); H05B3/02 (Core/Invention)

CPC: E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04 H01J37/32926 H01J37/32935 Y10T29/49083 E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F25J1/00 E21B36/00

European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4 T01F27/38

US: 219/488



Family:

Publication number	Publication date	Application number	Application date
AP200804559 A0	20080831	AP20080004559	20061219
AU2006335151 AA	20070719	AU20060335151	20061219
AU2013200386 AA	20130221	AU20130200386	20130125
CA2635954 AA	20080630	CA20062635954	20061219
CO6160255 A2	20100520	CO20080079355	20080731
EP2059899 A2	20090520	EP20060849217	20061219
EP2059899 A4	20120704	EP20060849217	20061219
IL192465 A0	20090922	IL20060192465	20061219
IN06638DN2008 A	20100507	IN2008DN06638	20080730
JP2009522654 T2	20090611	JP20080548620T	20061219
KR20080112193 A	20081224	KR20087018774	20061219
KR20130124572 A	20131114	KR20137024611	20061219
MX2008008625 A1	20090107	MX20080008625	20061219
NZ570109 A	20110826	NZ20060570109	20061219
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Priority:

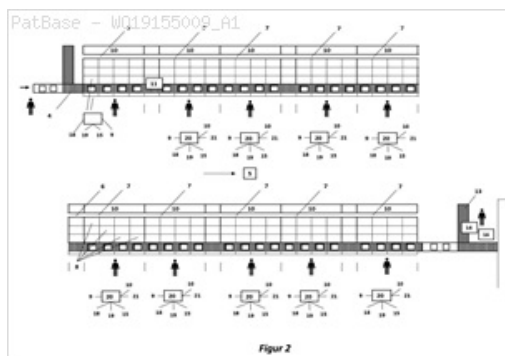
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US20060783018P 20060315	US20060786906P 20060328	US20060852794P 20061018
AU20060335151 20061219	WO2006US48704 20061219	AU20130200386 20130125

Probable Assignee: INNOVATION INST LLC**Assignee(s):** (std): CABINALLA LINDA ; INNOVATION INST LLC ; KAYS STEVEN ; STEVEN KAYS ; WORLD CHARITY DIVISION LICENSE**Assignee(s):** WORLD CHARITY DIVISION LICENSELTTODAYCOM LLC ; INNOVATION INSTITUTE LLC ; WORLD CHARITY DIVISION LICENSELTTODAY COM LLC**Inventor(s):** (std): KAYS STEVEN ; CABINALLA LINDA**Inventor(s):** STEVEN KAYS**Agent(s):** SHELSTON IP; KAYS STEVEN; INNOVATION INSTITUTEION LLC; BORDEN LADNER GERVAIS LLP; MAURICIO JARAMILLO CAMPUZANO; BEETZ AND PARTNER**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**12) Family number: 75512144 (WO19155009A1)**

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Title: DEVICE AND METHOD FOR PREPARING INGREDIENTS FOR AT LEAST ONE DISH

Abstract: According to the invention, a method is provided for preparing, in particular for assembling and packing, ingredients for at least one dish. This method comprises the following steps: - a reading-in step in which ordering data for a customer are read in, said ordering data comprising at least recipe data for the ingredients contained in the dish, and customer data; - an assigning step in which at least one ingredient container is assigned to predefined customer data; - a conveying step in which the ingredient container is conveyed to a transportation apparatus of a packaging line; - a positioning step in which at least one ingredient container is positioned in the region of a sorting station of the packaging line by means of the transportation apparatus, said sorting station having at least two ingredients or three or four or more ingredients held ready in corresponding ingredient compartments; - an indicating step in which it is indicated whether the ingredients are contained in the recipe data, by means of corresponding indicators of the ingredient container and the ingredient compartments; - a sorting step in which, if the ingredients are contained in the recipe data, the corresponding ingredient(s) of the sorting station are sorted into the ingredient container; - repeating and carrying out the positioning step, the indicating step and the sorting step until all ingredients contained in the recipe data are located in the ingredient container.

Classifications:**International (IPC 8-9):** G06Q10/08 G06Q50/12 G06Q50/28 G06Q50/30 (Advanced/Invention)**CPC:** G06Q10/083 G06Q10/087 G06Q50/30 G06Q50/12**Family:**

Publication number	Publication date	Application number	Application date
DE102018103006 A1	20191024	DE201810103006	20180209
WO19155009 A1	20190815	WO2019EP53179	20190208

Priority:

DE201810103006 20180209	DE201810131154 20181206
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Probable Assignee: MARLEY SPOON AG**Assignee(s):** (std): MARLEY SPOON AG**Inventor(s):** (std): SIEGEL RALPH ; DAIGELER ANTON ; RYCHARD MICHAL ; OTTITSCH MATHIAS**Agent(s):** HGF EUROPE LLP; PATRONUS IP PATENT U RECHTSANWAELTE

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

13) Family number: 75296153 (WO19147824A1)

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Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A PDE4 INHIBITOR

Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with a PDE4 inhibitor.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/07 A61K31/44

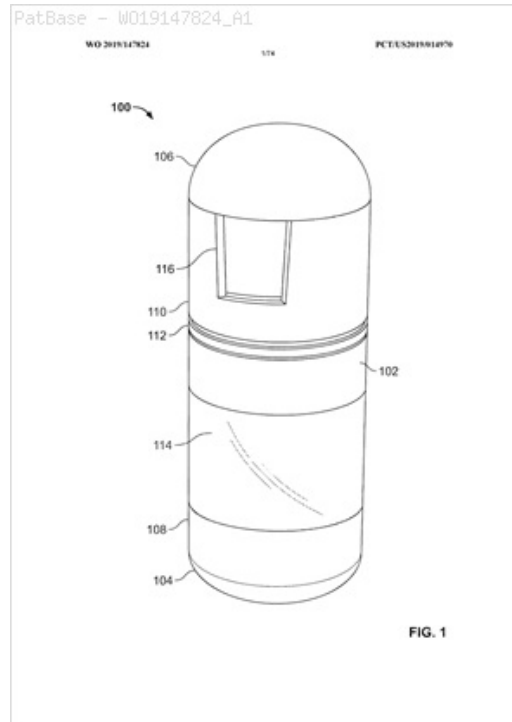
A61K31/519 A61K9/00 A61M31/00 A61P1/04

A61P37/06 (Advanced/Invention)

CPC: A61K9/0009 A61B5/0071 A61B5/073 A61B5/4839 A61K9/0053

A61K9/0097 A61K31/44 A61K31/519 A61M31/002 A61P1/04

A61P37/06



Family:

Publication number	Publication date	Application number	Application date
WO19147824 A1	20190801	WO2019US14970	20190124

Priority:

US20180622639P 20180126 US20180650850P 20180330 US20180687683P 20180620

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY ; HOWE KEVIN DAVID ; PERERA ARUNA

Agent(s): CULHANE CRYSTAL L 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

14) Family number: 59603159 (US2018035625A)

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Title: GROWING SYSTEMS AND METHODS

Abstract: A growing system is described where plants are grown in containers and the containers are stored in stacks. Above the stacks runs a grid network of tracks on which load handling devices run. The load handling devices take containers from the stacks and deposit them at alternative locations in the stacks or deposit them at stations where goods may be picked out. The containers may be provided with one or more of the following services: power, power control, heating, lighting, cooling, sensing, data logging, growing, water and nutrients. The provision of these services within individual containers rather than across the system as a whole, allows for flexibility in storage whilst reducing cost and inefficiency and enables multiple crops to be grown in a single area.

Classifications:

International (IPC 8-9): A01G31/06 A01G7/00 A01G7/04 A01G9/00

A01G9/02 A01G9/14 A01G9/16 A01G9/24 A47L7/00 B08B1/00

B25J5/02 B62D33/02 B62D33/04 B65D21/02 B65D63/00 B65D81/18

B65D81/26 B65D85/50 B65D88/12 B65D88/74 B65D90/00 B65G

B65G1/02 B65G1/04 B65G1/06 B65G1/137 B65G57/03 B65G57/30

B65G63/00 B65G63/04 B65G65/02 B65G67/02 B65G67/60 E04B

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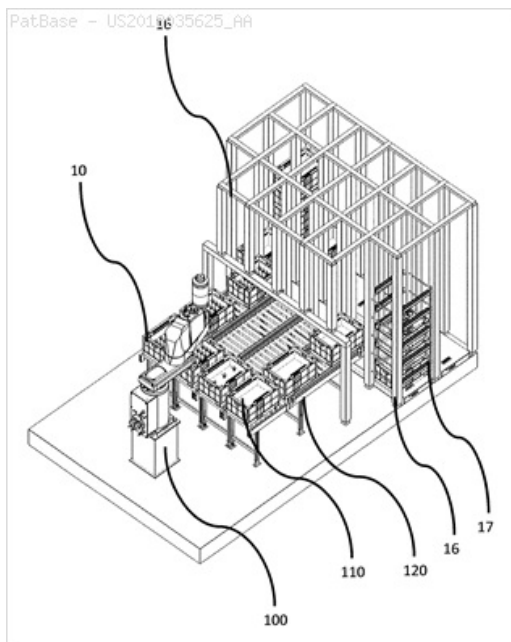
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G06F7/00 (Advanced/Invention);

A01G9/18 B65D21/02 B65G67/02 (Advanced/Non-invention)

CPC: B65G2201/0235 B65G67/603 B65G2814/0397 E04H6/422

B62D33/04 A01G7/045 A01G9/24 B65G1/1378 B65G1/02 E04H6/24
 B65G2201/0258 E04B1/348 E04H6/18 B65D81/18 B65D85/50
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 B65G57/03 Y02P60/148 A01G9/16 A01G31/06 B62D33/02
 B65G1/0464 B65G1/0478 B65G1/065 B65G63/004 B65G67/02
 E04B1/34807 B65G2207/22 B65G2207/40 Y02A40/254 Y02P60/216
 Y10S901/01 B65G1/137 B65G1/0414
US: 1/1 211/1.57 414/227 414/234 414/267 414/279 414/281 47/60
 52/79.12 700/216



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20190268169	20190205				

Probable Assignee: OCADO INNOVATION LTD

Assignee(s): (std): OCADO INNOVATION LTD ; OCADO INNOVATON LMTED ; OCADO INNOVATION LIMITED

Assignee(s): LINDBO LARS SVERKER TURE ; CLARKE PAUL ; INGRAM TEDD ANDREW JOHN ; KAROLINCZAK PAWEL

Inventor(s): (std): INGRAM TEDD ANDREW JOHN ; LINDBO LARS SVERKER TURE ; ANDREW JOHN INGRAM TEDD ; MATTHEW ROBERT WHELAN ; LARS SVERKER TURE LINDBO ; PAWEL KAROLINCZAK ; PAUL CLARKE ; JAMES WADDILOVE ; JONTY ANGEL ; ALEXANDER HOWARD WHITAKER ; INGRAM TEDD ANDREW ; LINDBO LARS ; LINDBO LARS SVERKER TURE OCADO INNOVATION LTD ; INGRAM TEDD ANDREW JOHN OCADO INNOVATION LTD ; KAROLINCZAK PAWEL OCADO INNOVATION LTD ; WHELAN MATTHEW OCADO INNOVATION LTD ; CLARK PAUL ; JAMES WADDILOVE ; LARS SVERKER TURE LNDBO ; WADDILOVE JAMES ; ANGEL JONTY ; HOWARD WHITAKER ALEXANDER ; CLARKE PAUL ; KAROLINCZAK PAWEL ; WHELAN MATTHEW

Inventor(s): MATTHEW WHELAN

Agent(s): NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; WOJCIK LUCY ELEANOR; LEHMANN NOVO MARIA ISABEL; NORTON ROSE FULBRIGHT HONG KONG; MIRANDAH ASIA SINGAPORE PTE LTD; TOLGA CAYLAK; BUCHANAN INGERSOLL AND ROONEY PC; WOJCIK LUCY

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 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 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: PHAGE DISPENSING SYSTEM

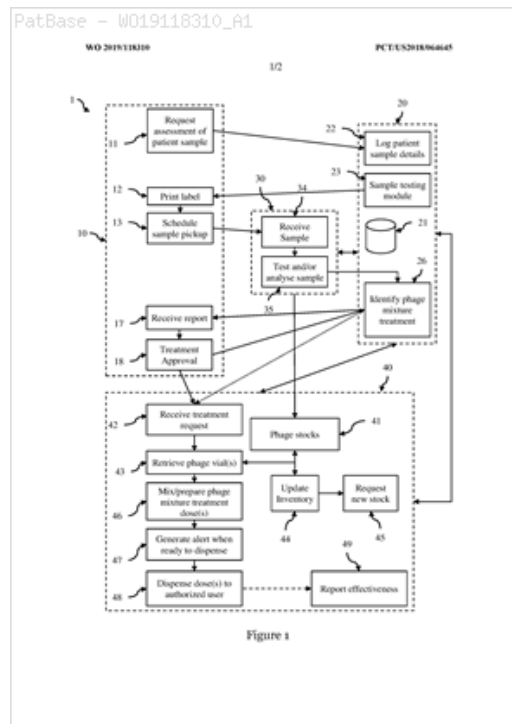
Abstract: A phage dispensing system comprises a user interface, a phage treatment computing system, a phage laboratory, and a phage dispensing apparatus, including a dispensing kiosk. The user interface allows a treating physician to request testing of a patient sample by the phage laboratory to identify a phage mixture treatment. The phage computing system arranges shipping of the sample and provision of the identified phage mixture treatment to a dispensing apparatus located near the patient. The dispensing apparatus has a stock of phage vials which are used to prepare and dispense doses of the identified phage mixture treatment.

Classifications:

International (IPC 8-9): G16H20/13 (Advanced/Invention);

A61J7/00 A61K35/76 B01L7/00 (Advanced/Non-invention)

CPC: G16H20/13 A61J7/0076 B01L7/00 B01L2200/14 B01L2300/021 B01L2300/0627 C12N7/00 C12N2795/00011 C12N2795/00031 G16H10/60 G16H40/63 G16H50/20

**Family:**

Publication number	Publication date	Application number	Application date
WO19118310 A1	20190620	WO2018US64645	20181210

Priority:

US20170597008P 20171211

Probable Assignee: ADAPTIVE PHAGE THERAPEUTICS INC

Assignee(s): (std): ADAPTIVE PHAGE THERAPEUTICS INC

Inventor(s): (std): MERRIL CARL ; MERRIL GREG

Agent(s): WALES MICHELE

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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: NUCLEIC ACID SYNTHESIZERS

Abstract: The present invention relates to nucleic acid synthesizers and methods of using and modifying nucleic acid synthesizers. For example, the present invention provides highly efficient, reliable, and safe synthesizers that find use, for example, in high throughput and automated nucleic acid synthesis, as well as methods of modifying pre-existing synthesizers to improve efficiency, reliability, and safety.

Classifications:

International (IPC 8-9): B01J19/00 B01J19/18 C07H21/00

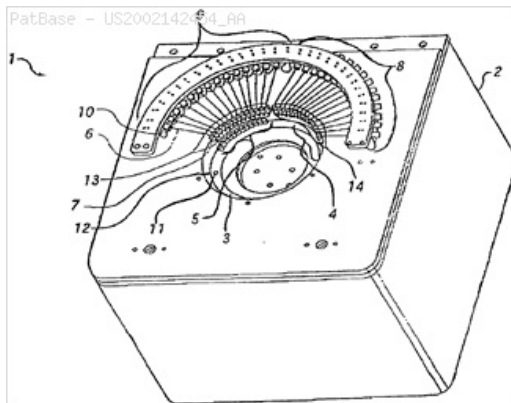
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International (IPC 1-7): B01J19/00 B01J8/00 B32B27/04 B32B27/12 B32B5/02 C07H21/02 C07H21/04 C08F2/00 C12M1/00 C12M1/34 C12N15/09 C12P19/34 C12Q1/68 C12Q1/70 G01N33/48 G01N33/50 G01N33/53 G06F17/30 G06F17/60 G06F19/00

CPC: B01J19/0046 B01J2219/00286 B01J2219/00315 B01J2219/00423 B01J2219/00497 B01J2219/005 B01J2219/00527 B01J2219/00585 B01J2219/00596 B01J2219/00605 B01J2219/00641 B01J2219/00689 B01J2219/00695 B01J2219/00722 C40B50/14 C40B60/14 C12P19/34 G06Q50/22 C12Q1/6823 C12Q1/6883 C12Q1/703 C12Q1/707 C12Q2600/156 G06Q10/087 G06Q30/06

European: B01J19/00C C12P19/34 C12Q1/68B2F C12Q1/68M6 C12Q1/70B2B C12Q1/70B6A C40B50/14 C40B60/14 G06F17/60B

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US: 422/102 422/105 422/129 422/129S 422/13 422/130 422/130S
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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: GEN PROBE INC

Assignee(s): (std): FORS LANCE ; NERI BRUCE P ; DE ARRUDA INDIG MONIKA ; GRANSKE ROCKY ; KURENSKY DAVID ; LUEDTKE CRAIG ; LUKOWIAK ANDREW A ; LYAMICHEV VICTOR ; INDIG MONIKA D A ; BROW MARY A D ; BROW MARY ANN ; BROW MARY ANN D ; BROWER AMY ; CRACAUER RAYMOND F ; COMERFORD JOHN ; THIRD WAVE TECH INC ; ROEVEN ROBERT ; REIMER NED D ; ROEVEN ROBERT T P ; SKRZYPCZYNSKI ZBIGINIEV ; ZIARNO WITOLD A ; STUMP STEVEN ; VIEGUT DANIEL D ; ARRUDA INDIG MONIKA DE ; THIRD WAVE TECHNOLOGIES

Assignee(s): R2 TECHNOLOGY INC ; SUROS SURGICAL SYSTEMS INC ; GOLDMAN SACHS CREDIT PARTNERS LP COLLATERAL AGENT AS ; GEN PROBE INC ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BIOLUCENT LLC ; THIRD WAVE TECHNOLOGIES INC ; ROEVEN ROBERT T ; CYTYC CORP ; CYTYC SURGICAL PRODUCTS LTD ; CYTYC SURGICAL PRODUCTS II LTD ; CYTYC SURGICAL PRODUCTS III INC ; CYTYC PRENATAL PRODUCTS CORP ; CYTYC SURGICAL PRODUCTS II PARTNERSHIP LTD ; INDIG MONIKA DE ARRUDA ; D BROW MARY ANN ; GOLDMAN SACHS CREDIT PARTNERS LP ; HOLOGIC INC ; DIRECT RADIOGRAPHY CORP ; CYTYC SURGICAL PRODUCTS PARTNERSHIP LTD ; GOLDMAN SACHS CREDIT PARTNERS LP COLLATERAL AGENT ; GOLDMAN SACHS BANK USA

Inventor(s): (std): VIEGUT DANIEL D ; STUMP STEVEN ; COMERFORD JOHN ; ZIARNO WITOLD A ; SKRZYPCZYNSKI ZBIGINIEV ; ROEVEN ROBERT T P ; REIMER NED D ; NERI BRUCE P ; LYAMICHEV VICTOR ; LUKOWIAK ANDREW A ; LUEDTKE CRAIG ; KURENSKY DAVID ; DE ARRUDA INDIG MONIKA ; GRANSKE ROCKY ; FORS LANCE ; CRACAUER RAYMOND F ; BROW MARY ANN ; BROWER AMY ; DANIEL D VIEGUT ;

STEVEN STUMP ; JOHN COMERFORD ; WITOLD A ZIARNO ; ZBIGINIEV SKRZYPCZYNSKI ; ROBERT T P ROEVEN ; NED D REIMER ; BRUCE P NERI ; VICTOR LYAMICHEV ; ANDREW A LUKOWIAK ; CRAIG LUEDTKE ; DAVID KURENSKY ; MONIKA DE ARRUDA INDIG ; ROCKY GRANSKE ; LANCE FORS ; RAYMOND F CRACAUER ; MARY ANN BROW ; AMY BROWER ; INDIG MONIKA D A ; BROW MARY A D ; SKRZYPCZYNSKI ZBIGNIEV ; GANSKE ROCKY ; BROWER AMY M ; ZIARNO WITOLD ; D BROW MARY ANN ; INDIG MONIKA DE ARRUDA ; ROEVEN ROBERT ; LUKOWIAK ANDREW ; JARVIS NANCY ; BROW MARY ANN D ; LYAMICHEV VICTOR I ROBERT ROEVEN ; MARY ANN D BROW ; ROEVEN ROBERT T ; CRACAUER RAYMOND ; BROW MARY AD ; INDIG MONIKA DA ; INDIG MONIKA ; NERI BRUCE ; BROW MARY

Inventor(s):

Agent(s): MEDLEN AND CARROLL LLP; CASIMIR JONES SC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

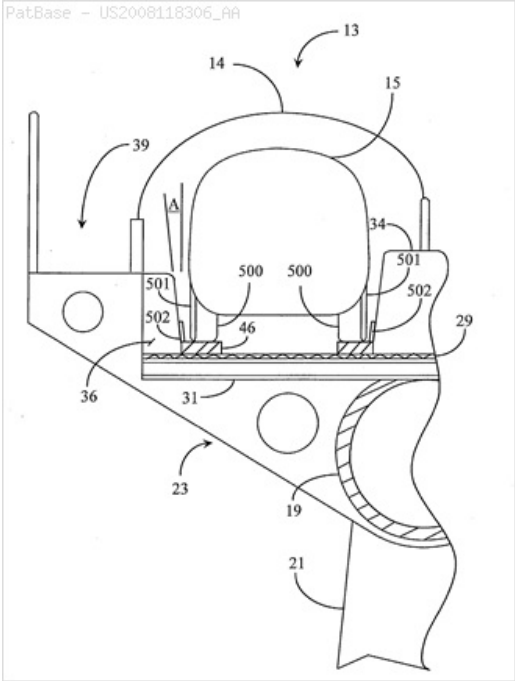
17) Family number: 41821202 (US2008118306A) © PatBase

Title: LOW FRICTION SAFETY SYSTEM FOR A PERSONAL VEHICLE GUIDEWAY

Abstract: In a vehicle guideway having a vehicle track, a guidance system is provided comprising one or more guide curbs installed along a length of the guideway, and a low-friction coating or coatings presented by the curbs, a vehicle's tires, or both, the coating or coatings reducing friction and wear in the event of contact between the tires and the one or more guide curbs.

Classifications:

International (IPC 8-9): B60C13/00 B60C5/00 B60C7/00 B61C17/12 B61F13/00 E01B25/00 E01C1/00 E01C11/22 E01C9/02 G01M17/007 G05D1/00 G06Q10/00 G06Q10/06 G06Q30/00 G08G1/01 G08G1/16 (Advanced/Invention); B60C5/00 B60C7/00 E01C11/00 G01M17/007 G05D1/00 G06Q10/00 (Core/Invention)
CPC: B60C7/00 B60C13/001 G06Q10/0637 G06Q30/016 G08G1/01 E01C9/02 Y10T152/10 Y10T152/10495
European: B60C13/00B B60C7/00 E01C9/02 G06Q10/0637 G06Q30/016
US: 152/151 152/151S 152/450 152/450S 404/1 404/6 404/7 404/7P 404/8 404/9 701/117 701/2 701/20 701/2P 701/31.4 701/31.400S 701/33 701/96 705/304 705/304S 705/7 705/7.36 705/7.360S 705/8



Family:

Publication number	Publication date	Application number	Application date
US2008118306 AA	20080522	US20070747436	20070511
US2008119965 AA	20080522	US20060560981	20061117
US2012148343 AA	20120614	US20120398485	20120216
US2013066491 AA	20130314	US20120672161	20121108
US2015262479 AA	20150917	US20150714642	20150518
US8231302 BB	20120731	US20120398485	20120216
US8430595 BB	20130430	US20070747436	20070511
US8757921 BB	20140624	US20120672161	20121108
US9037388 BB	20150519	US20060560981	20061117
US9595190 BB	20170314	US20150714642	20150518
WO08063920 A2	20080529	WO2007US84243	20071109
WO08063920 A3	20100429	WO2007US84243	20071109

Priority:

US20060560981 20061117 US20070747436 20070511 US20120398485 20120216
US20120672161 20121108 US20150714642 20150518

Probable Assignee: MCCRARY PERSONAL TRANSPORT SYSTEM LLC

Assignee(s): (std): MCCRARY HOMER T ; MCCRARY PERSONAL TRANSP SYSTEM LLC

Assignee(s): MCCRARY PERSONAL TRANSPORT SYSTEM LLC

Inventor(s): (std): MCCRARY HOMER T

Agent(s): CENTRAL COAST PATENT AGENCY INC; DONALD R; BOYS DONALD R

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DEVICES AND METHODS FOR CLEARANCE OF MINES OR ORDNANCE

Abstract: Disclosed are devices and methods for the destruction of an explosive device, such as mines and other unexploded ordnance, without the detonation of the explosive device. The devices comprise an explosive charge that penetrates and opens the casing of an explosive device and forces reactive material into the explosive device, thus neutralizing it.

Classifications:

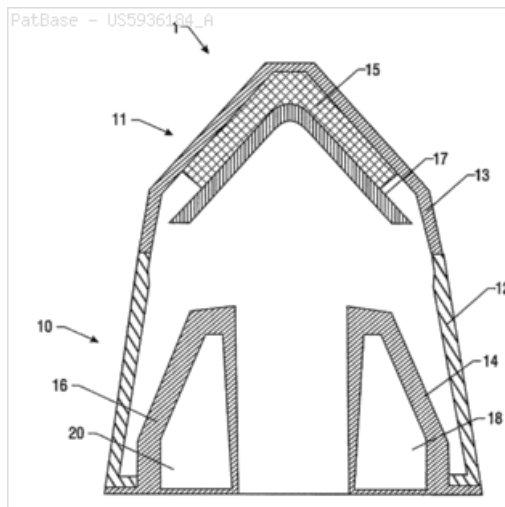
International (IPC 8-9): F42B3/08 F42B33/06 (Advanced/Invention);
F42B3/00 F42B33/00 (Core/Invention)

International (IPC 1-7): B64D1/04 F42B1/00 F42B7/02

CPC: F42B3/08 F41H11/12 F42B33/06

European: F42B3/08 F42B33/06

US: 102/306 102/403 89/1.13 89/113



Family:

Publication number	Publication date	Application number	Application date
US5936184 A	19990810	US19970975235	19971121

Priority:

US19970975235 19971121

Probable Assignee: TRACOR AEROSPACE INC

Assignee(s): (std): TRACOR AEROSPACE INC

Inventor(s): (std): MAJERUS MARK E ; BROWN RONALD L

Title: METHODS FOR FORMING LONG SUBSURFACE HEATERS

Abstract: A method for forming a longitudinal subsurface heater includes longitudinally welding an electrically conductive sheath of an insulated conductor heater along at least one longitudinal strip of metal. The longitudinal strip is formed into a tubular around the insulated conductor heater with the insulated conductor heater welded along the inside surface of the tubular.

Classifications:

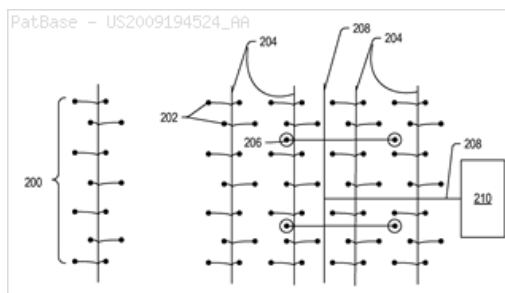
International (IPC 8-9): H05B3/03 H05B3/44 (Advanced/Invention);
H05B3/00 (Advanced/Non-invention);

H05B3/02 H05B3/42 (Core/Invention)

CPC: E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F2511/00
E21B36/00 E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04
H01J37/32926 H01J37/32935 Y10T29/49083

European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4
T01F27/38

US: 219/541 219/542 219/544 219/546 219/548 29/611 29/611S



Family:

Publication number	Publication date	Application number	Application date
US2009194524 AA	20090806	US20080250346	20081013
US8536497 BB	20130917	US20080250346	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 US20080250346 20081013

Probable Assignee: SHELL OIL CO

Assignee(s): (std): KIM DONG SUB ; SHELL OIL CO

Inventor(s): (std): KIM DONG SUB

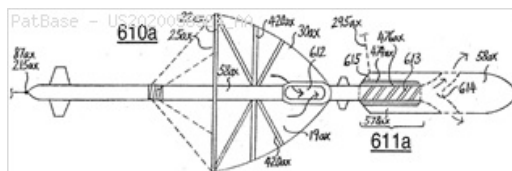
Agent(s): SHELL OIL COMPANY; SHELL OIL CO

Title: POWER GENERATING WINDBAGS AND WATERBAGS

Abstract: An airborne wind turbine system for generation of power via windbags and waterbags.

Classifications:**International (IPC 8-9):** B64C39/02 F03D1/00

F03D7/02 (Advanced/Invention)

CPC: F03D7/0204 F05B2240/921 F03D1/00 B64C39/022**Family:**

Publication number	Publication date	Application number	Application date
SG10201807027W A1	20180927	SG20181007027	20180820
SG10201907453Y A1	20190927	SG20191007453	20190814
US2020056584 AA	20200220	US20190544831	20190819

Priority:

SG20181007027 20180820 SG20191007453 20190814

Probable Assignee:

SIA YIK HEI

Assignee(s): (std):

SIA YIK HEI

Inventor(s): (std):

SIA YIK HEI

Agent(s):

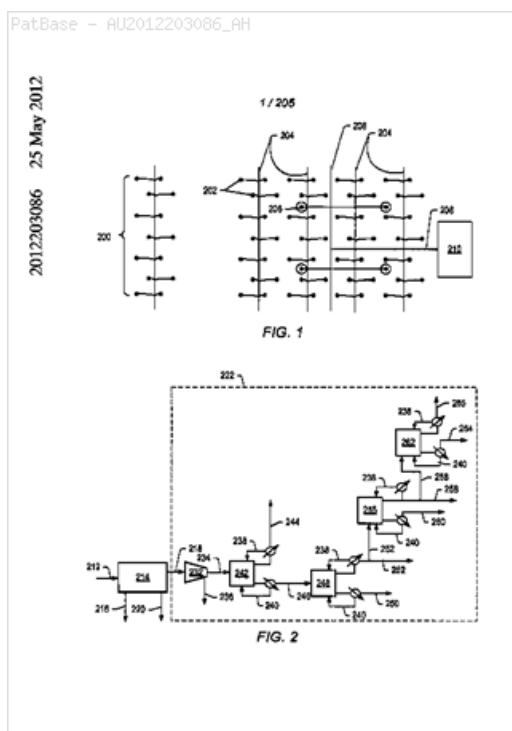
SIA YIK HEI

21) Family number: 51337255 (AU2012203086A)

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Title: Variable voltage transformer

Abstract: Variable Voltage Transformer Abstract In a first aspect there is disclosed a variable voltage transformer (772), the variable voltage transformer comprises a primary winding (754) configured to be coupled to a voltage power source that provides a first voltage across the primary winding and a secondary winding (756) electrically isolated from the primary winding, wherein the secondary winding is configured to step down the first voltage to a second voltage that is a preset percentage of the first voltage. A multistep load tap changer (7) coupled to the secondary winding is provided, wherein the load tap changer divides the second voltage into a selected number of voltage steps, the voltage steps incremented from a selected minimum percentage of the second voltage to a selected maximum percentage of the second voltage, wherein an electrical load is configured to be coupled to the multistep load tap changer to provide electrical power to the load with a selected voltage, the multistep load tap changer being configured to tap a selected voltage step in order to provide the selected voltage to the electrical load.

Classifications:**International (IPC 8-9):** E21C25/04 (Advanced/Invention)**CPC:** E21B43/2401**Family:**

Publication number	Publication date	Application number	Application date
AU2012203086 AA	20120614	AU20120203086	20120525
AU2012203086 AH	20141002	AU20120203086	20120525
AU2012203086 BB	20140918	AU20120203086	20120525
AU2012203086 BH	20141002	AU20120203086	20120525

Priority:US20070999839P 20071019 US20080046329P 20080418 AU20080312713 20081013
AU20120203086 20120525**Probable Assignee:** SHELL INT RESEARCH**Assignee(s):** (std): SHELL INT RESEARCH**Assignee(s):** SHELL INT RESEARCH MIJ BV ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V**Inventor(s):** (std): ERNESTO RAPHAEL ; RENKEMA DUURT ; MACDONALD DUNCAN CHARLES ; BRAVO JOSE LUIS ; MASON STANLEY LEROY ; RYAN ROBERT CHARLES ; SHEN CHONGHUI ; SANDBERG CHESTER LEDLIE ; ARORA DHRUV ; MARWEDE JOCHEN ; AYODELE OLUROPO RUFUS ; MANSURE ARTHUR JAMES ; FONSECA

OCAMPOS ; ROES AUGUSTINUS WILHELMUS MARIA ; UWECHUE UZO PHILLIP ; NGUYEN SCOTT VINH ; VINEGAR HAROLD J ; XIE XUEYING ; MILLER DAVID SCOTT ; KARANIKAS JOHN MICHAEL ; MCKINZIE II BILLY JOHN ; STANECKI JOHN ANDREW ; SON JAIME SANTOS ; NAIR VIJAY ; CAO RENFANG RICHARD ; EDBURY DAVID ALSTON ; PRINCE WRIGHT ROBERT GEORGE ; LI BUSHENG ; MUYLLE MICHEL SERGE MARIE ; BASS RONALD J ; HARRIS CHRISTOPHER KELVIN ; HWANG HORNG JYE JAY ; MO WEIJIAN ; BURNS DAVID BOOTH ; DEN BOESTERT JOHANNES LEENDERT WILLEM CORNELIS ; CRUZ ANTONIO MARIA GUIMARAES LEITE ; RAGHU DAMODARAN ; BEER GARY LEE ; KIM DONG SUB ; GUIMERANS ROSALVINA RAMONA ; VENDITTO JAMES JOSEPH ; FOWLER THOMAS DAVID ; CARROLL MARK THOMAS ; PATNI SANDEEP ; HARVEY III ALBERT DESTREHAN ; CARDINAL PAUL GREGORY ; LINEY DAVID JOHN ; COSTELLO MICHAEL SCOTT

Agent(s): SPRUSON AND FERGUSON

22) Family number: 58500273 (ES1135980Y)

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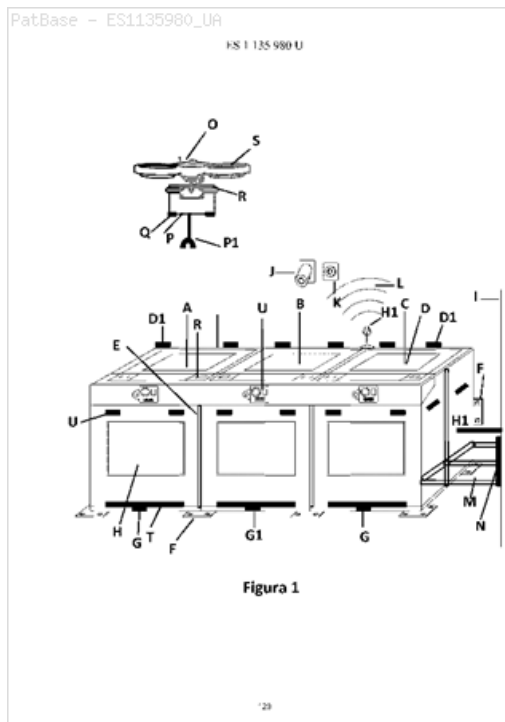
Title: CAJA, RECIPIENTE, CONTENEDOR, BAUL, CAJON, TERMINAL AUTOMATIZADO LOGISTICO, DE ADQUISICIONES, ALMACENAMIENTO, REPARTO Y ENTREGAS DE DEPOSITO, CON SISTEMAS DE CONTROL DE TEMPERATURAS CLIMATOLOGICAS, FRIGORIFICO, CONGELADOR, CLIMATIZADOR Y CON MEDIDAS PROTECTORAS, DE SEGURIDAD Y TELEMATICAS

Abstract: Source: ES1135980U [ES] 1. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de depósito, con sistemas de control de temperaturas climatológicas, frigorífico, congelador, climatizador y con medidas protectoras, de seguridad y telemáticas, caracterizada porque presenta: - Una estructura con un tejido nanotecnológico especial con unas propiedades de protección física con al menos una capa no tejida que comprende fibras cortas de para-aramida, nano textiles, polímeros. - Un cuerpo principal dotado de un mueble modular de varios apartados de almacenaje, depósitos de bienes, compras, adquisiciones, retornos, devoluciones de paquetería, mensajería, postales, tipo buzones, cajetines. - Una carcasa con sistema de control para apertura, cierre, almacenaje, control de uso de la zona de guardado, protección, ubicación, depósito del bien, paquetería. Con sensores, analizadores, controladores. - Unas secciones, zonas, capsulas, sectores, divisiones, con controlador de temperaturas, positivas y negativas, refrigeradas, congeladoras, identificadoras de documentos, cajero, con controles de seguridad. - Un sistema operativo dotado de unos sistemas de software informáticos y con medios de encriptación algorítmica de alta seguridad, medios telemáticos, de comunicación, operatividad, emisión, recepción, retransmisión, verificación, validación y control. - Unas frecuencias propias y/o alternativas, vía satélite, vía analógicos, digitales, GPS, GMS. - Unos microprocesadores para el control y operatividad del sistema de apertura y cierre. - Unos sistemas de comunicación por cables, sistemas analógicos, digitales, wifi, GMS, GPS, vía satélite integrados en sistemas operativos encriptados de códigos para la operatividad. - Una pantalla protectora para consignas de paquetería, prevista para situarse por delante del frente de una pantalla visual/sonora/táctil, cajero cubriendo la totalidad de la pantalla de esta. **Machine translation:** 1. Box, container, container, baul, cajon, automated terminal logistics, procurement, storage, distribution and delivery of deposit, control systems climatological temperatures, refrigerator, freezer, air conditioner and protective measures, security and telematic, wherein presented: - A structure with a special nano tissue with properties of physical protection to at least one nonwoven layer comprising short para-aramid fibers, nano textiles, polymers. - A main body equipped with a modular furniture of several sections of storage, storage of goods, purchases, acquisitions, returns, refunds parcel, courier, post office boxes type boxes. - A housing with control system for opening, closing, storage, use control area saving, protection, location, storage of the goods, parcels. Sensors, analyzers, controllers. - Some sections, areas, capsules, sectors, divisions, with temperature controller, positive and negative, chilled, freezers, identifying documents, cash, with security checks. - A gifted software of computer systems and algorithmic means high security encryption, electronic means of communication, operation, emission, reception, transmission, verification, validation and control operating system. - A own and / or alternative frequencies, satellite, via analog, digital, GPS, GMS. - A microprocessor for control and operation of the system of opening and closing. - A cable communication systems, analog systems, digital, wireless, GSM, GPS, satellite integrated into operating systems encrypted codes for the operation. - A protective screen slogans Parcel, planned to stay ahead of the front of a visual / audio screen / touch, cashier covering the entire screen of the .

Classifications:

International (IPC 8-9): A47G29/124 (Advanced/Invention)

CPC: A47G29/14 A47G29/141



Family:

Publication number	Publication date	Application number	Application date
ES1135980 UA	20150212	ES20140031706U	20141231
ES1135980 Y1	20150506	ES20140031706U	20141231

Priority:

ES20140031706U 20141231

Probable Assignee: TECHNOKONTROL CAT GLOBAL SL
Assignee(s): (std): CANADA SIERRA LAURA ; TECHNOKONTROL CAT GLOBAL SL
Assignee(s): LAURA CANADA SIERRA
Inventor(s): (std): CANADA SIERRA LAURA
Inventor(s): LAURA CANADA SIERRA

23) Family number: 32682283 (US2006048800A)

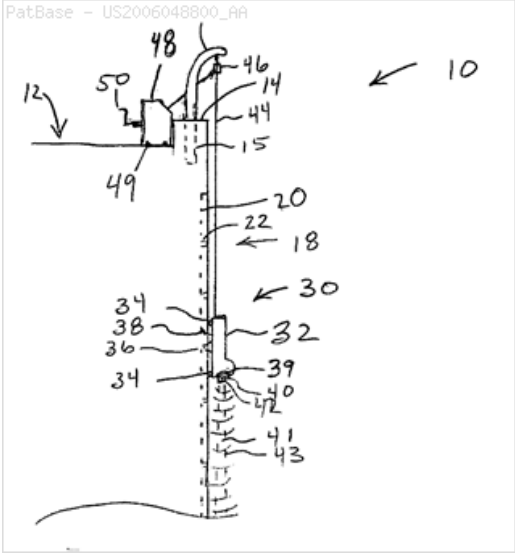
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Title: AUTOMATED BUILDING EXTERIOR CLEANING APPARATUS

Abstract: An automated exterior building cleaning system particularly well suited for cleaning the window exteriors on a high rise building. By way of example the system is deployed on a rooftop rail system traversed by a movable platform from which a washing head is deployed over the edges of the building and lowered on cables for cleaning the window surfaces and other building elements. The system is configured for remote monitoring and control and provides a number of novel elements and safety features.

Classifications:

International (IPC 8-9): B08B3/00 (Advanced/Invention);
B08B3/00 G06K9/00 (Core/Invention)
CPC: A47L1/02 B08B3/04 E04G23/002 G05D1/0246 G05D1/0274
G05D1/0278 G05D2201/0203 G06F1/3265 H02S10/40 H02S20/30
H02S30/20 H02S40/38 Y02D10/153
European: A47L1/02 B08B3/04 E04G23/00B G05D1/02E14M
G06F1/32P5P5 H01L31/042 S05D1/02E16B S05D1/02E6V
S05D201/0203 Y02B10/12 Y02E10/50
US: 134/172 134/56R



Family:

Publication number	Publication date	Application number	Application date
US2006048800 AA	20060309	US20050222610	20050909

Priority:

US20040608789P 20040909 US20050222610 20050909

Probable Assignee: RAST RODGER H
Assignee(s): (std): RAST RODGER H ; WIESNER RICK M
Inventor(s): (std): RAST RODGER H ; WIESNER RICK M
Inventor(s): WIESNER RICK ; RAST RODGER
Agent(s): RODGER H RAST

24) Family number: 77053307 (WO19246271A1)

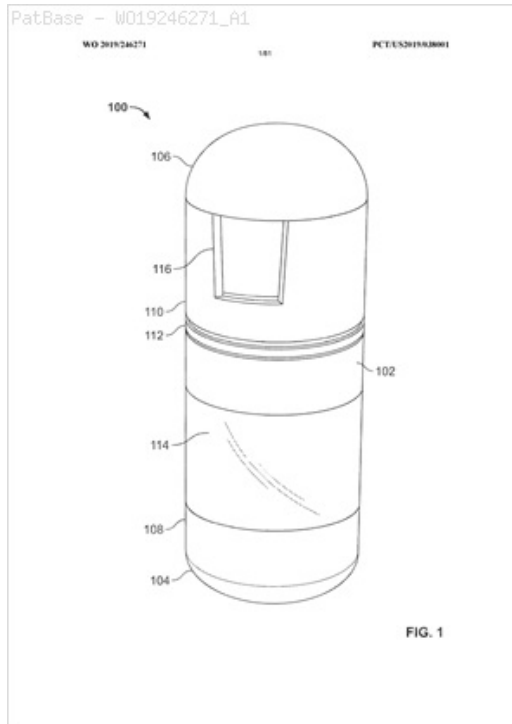
© PatBase

Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH AN IL-12/IL-23 INHIBITOR

Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with an IL-12/IL-23 inhibitor.

Classifications:

International (IPC 8-9): A61P1/04 (Advanced/Invention)
CPC: A61K31/4035 A61K31/519 A61K31/5377 A61K2039/505
A61K2039/54 A61K2039/542 A61P1/04 C07K16/241 C07K16/244
C07K16/2842 C07K2317/21 C07K2317/76 C07K2317/90



Family:

Publication number	Publication date	Application number	Application date
WO19246271 A1	20191226	WO2019US38001	20190619

Priority:

US20180687745P 20180620 US20190804840P 20190213

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY ; HOWE KEVIN DAVID ; PERERA ARUNA

Agent(s): CULHANE CRYSTAL L 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

25) Family number: 58641316 (US2016274015A)

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Title: SYSTEM AND METHOD FOR MEASUREMENTS OF VISCOELASTIC PARAMETERS IN SOFT MATERIALS

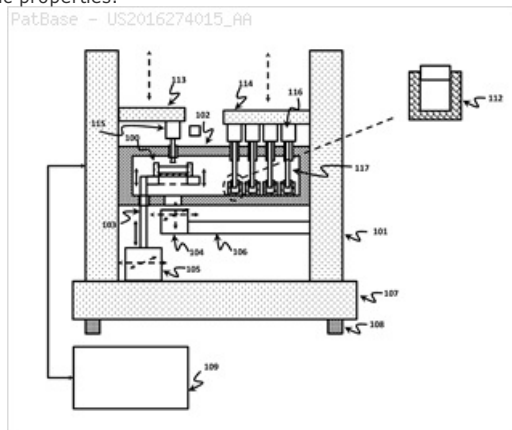
Abstract: There is provided a system and method for the measurements of viscoelastic properties of a soft sample in which the system incorporates a sample holder that has a membrane with a flexural rigidity that is less than the flexural rigidity of the main body and allowing vibration of the membrane-sample vibration unit in response to a vibration excitation to create resonance vibration modes that are detected to derive the viscoelastic properties.

Classifications:

International (IPC 8-9): G01N11/00 G01N11/10 G01N11/16 G01N3/32 G01N3/34 G01N3/36 G05D24/00 (Advanced/Invention); G01N11/00 (Advanced/Non-invention)

CPC: G01N11/16 G01N3/34 G01N2203/0005 G01N2203/0094 G01N3/32 G01N11/10 G01N2011/0026 G01N2203/0019 G01N2203/0023

US: 1/1 73/54.26



Family:

Publication number	Publication date	Application number	Application date
CA2922275 AA	20160224	CA20142922275	20140827
EP3039400 A1	20160706	EP20140839728	20140827
EP3039400 A4	20170503	EP20140839728	20140827
US2016274015 AA	20160922	US20140915020	20140827
US10288541 BB	20190514	US20140915020	20140827

Priority:

US20130870353P 20130827 US20130870426P 20130827 WO2014CA50820 20140827
US20140915020 20140827

Probable Assignee: RHEOLUTION INC

Assignee(s): (std): RHEOLUTION INC

Assignee(s): SCHMITT CEDRIC RENE ; HADJ HENNI ANIS REDHA

Inventor(s): (std): SCHMITT CEDRIC RENE ; HADJ HENNI ANIS REDHA

Agent(s): ROBIC; CABINET BECKER ET ASSOCIES; PRICE HENEVELD LLP; ANGLEHART ET AL 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 IR 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 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

26) Family number: 75509320 (US2019248007A)

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Title: AUTONOMOUS MULTI-TASKING MODULAR ROBOTIC SYSTEM

Abstract: Systems and methods for a universal connection interface between a robot and a plurality of modular attachments are disclosed. Also disclosed are autonomous robotic system and devices comprising a control module in operative connection to a drive module and at least one task module, the drive module configured to move the system through a space as instructed by the control module, the at least one task module configured to perform a task or set of tasks as instructed by the control module. The robotic device also includes a data receiving unit. A command is given by the user to the robotic device to perform a function, and the device then transmits the data to the accessory task module through the data receiving unit. In one exemplary implementation, a robot may be assigned a plurality of different tasks to be accomplished by connecting to a plurality of different modular attachments to using a single universal connection interface. The robotic system and/or device can perform multiple cleaning or yard maintenance tasks.

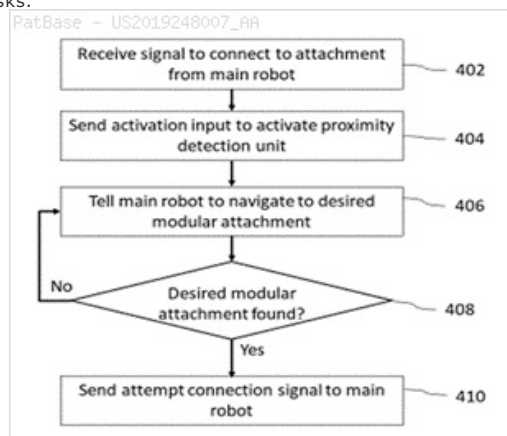
Classifications:

International (IPC 8-9): B25J15/00 B25J15/04

B25J9/16 (Advanced/Invention)

CPC: A47L1/00 B25J5/007 B25J9/08 B25J9/1615 B25J9/1653

B25J15/0066 B25J15/0483 A47L9/28 A47L2201/00 A47L2201/02 G08B13/196



Family:

Publication number	Publication date	Application number	Application date
US2019248007 AA	20190815	US20190271234	20190208

Priority:

US20180629516P 20180212 US20180670161P 20180511 US20180679342P 20180601
US20180741915P 20181005 US20180757851P 20181109 US20190271234 20190208

Probable Assignee: BRAIN CORP

Assignee(s): (std): BRAIN CORP

Inventor(s): (std): KIM JIMMY ; COUVIGNOU JUSTIN ; RENKE NICOLE ; BEHNKE PAUL ; IZHIKEVICH EUGENE ; MCCULLOUGH JIM ; DUFFY PHIL

27) Family number: 50073331 (US2013133172A)

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Title: METHOD FOR THE AUTOMATED MOUNTING OF MODULES ON RECEIVING DEVICES, IN PARTICULAR SOLAR MODULES ON STANDS AND MOBILE MOUNTING DEVICE FOR SUCH MODULES

Abstract: The invention relates to a method and to a mobile mounting device (11) for the automated mounting of modules (16) on receiving devices (17), in particular of solar modules on stands, in which method a module (16) is gripped by a mounting tool (24), wherein, before transferring the module (16) to the mounting position (36), the handling device (21) is transferred to a measuring position (35) above the mounting position (36), the location of mounting points (37) in the mounting position (36) is determined, the module (16) is transferred to the mounting position (36) starting from the measuring position (35), and the assembly movement is carried out automatically.

Classifications:

International (IPC 8-9): B60P1/00 B60P1/54 B60P3/14

F24J2/52 (Advanced/Invention)

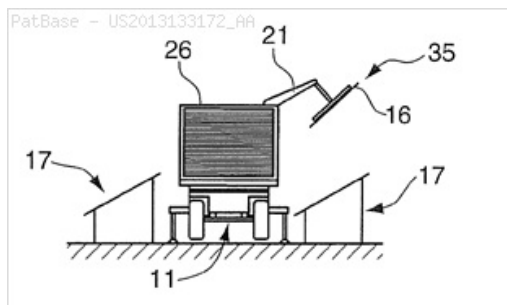
CPC: B60P1/00 B60P1/5433 B60P3/14 Y02B10/20 Y02E10/47

Y10T29/49826 F24S25/00 F24S2025/014

European: B60P1/54A4B B60P3/14 F24J2/52 R24J2/52P10

Y02B10/20

US: 29/428 414/539



Family:

Publication number	Publication date	Application number	Application date
EP2576288 A1	20130410	EP20110725039	20110603
IN03382KN2012 A	20130628	IN2012KN03382	20121105
US2013133172 AA	20130530	US20110701576	20110603
WO11151440 A1	20111208	WO2011EP59192	20110603

Priority:

DE201010022571 20100602 WO2011EP59192 20110603

Probable Assignee: KIENER MASCHINENBAU GMBH

Assignee(s): (std): BRODBECK BERND ; KIENER MASCHB GMBH ; KIENER MASCHINENBAU GMBH ; KIENER WALDEMAR

Inventor(s): (std): BRODBECK BERND ; KIENER WALDEMAR

Agent(s): MAMMEL U MASER; MASER JOCHEN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 PE PG PH PL PT RO RS RU 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

28) Family number: 44990355 (US2010155156A)

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Title: ENERGETICALLY AUTONOMOUS TACTICAL ROBOT AND ASSOCIATED METHODOLOGY OF OPERATION

Abstract: A robotic apparatus is provided that forages for a suitable fuel and is guided by an autonomous control system. The robotic apparatus automatically decides to search for suitable fuel and execute activities required to locate the suitable fuel and distinguish the suitable fuel from unsuitable fuel. Once the suitable fuel is identified, the apparatus moves to the fuel via a platform. A robotic arm and end effector grasp and transport the suitable fuel to a power generator to convert the suitable fuel to energy to power the robotic apparatus.

Classifications:

International (IPC 8-9): B60K8/00 G05B19/00 G05B21/00

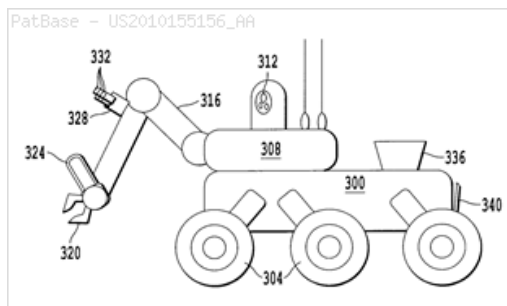
G06F19/00 (Advanced/Invention);

B60K8/00 G05B19/00 G05B21/00 G06F19/00 (Core/Invention)

CPC: B25J5/007 B25J15/0052 B25J19/021

European: B25J15/00M B25J19/02B B25J5/00W

US: 180/54.1 180/54.100P 700/245 700/245S 700/246 700/246S 700/258 700/258S 901/1 901/1S 901/46 901/46S



Family:

Publication number	Publication date	Application number	Application date
US2010155156 AA	20100624	US20090612489	20091104
WO10053957 A1	20100514	WO2009US63229	20091104

Priority:

US20080111208P 20081104 US20090612489 20091104

Probable Assignee: ROBOTIC TECHNOLOGY INC

Assignee(s): (std): FINKELSTEIN ROBERT ; ROBOTIC TECHNOLOGY INC

Inventor(s): (std): FINKELSTEIN ROBERT

Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; MCKEOWN SCOTT A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

29) Family number: 43624362 (US2009200854A)

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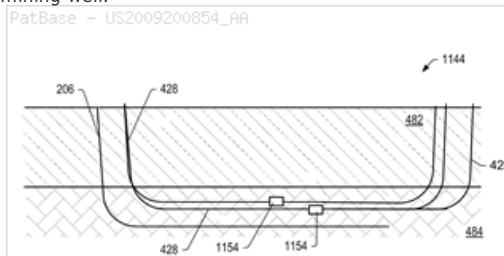
Title: SOLUTION MINING AND IN SITU TREATMENT OF NAHCOLITE BEDS

Abstract: A method for treating a nahcolite containing subsurface formation includes solution mining a first nahcolite bed above a hydrocarbon containing layer using a plurality of first solution mining wells. A second nahcolite bed is solution mined below the hydrocarbon containing layer using a plurality of second solution mining wells. At least one of the first solution

mining wells is converted into a production well. The hydrocarbon containing layer is heated using a plurality of heaters. Formation fluid is produced from at least one converted first solution mining well.

Classifications:

International (ipc 8-9): E21B36/00 E21B43/241 E21B43/28
E21C41/16 E21C41/24 (Advanced/Invention);
E21B36/00 E21B43/00 E21B43/16 E21C41/00 (Core/Invention)
CPC: E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F25J1/00
E21B36/00 E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04
H01J37/32926 H01J37/32935 Y10T29/49083
European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4
T01F27/38
US: 166/272.6 166/272.600S 299/4 299/5 299/5P



Family:

Publication number	Publication date	Application number	Application date
US2009200854 AA	20090813	US20080250373	20081013
US8240774 BB	20120814	US20080250373	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 US20080250373 20081013

Probable Assignee:

SHELL OIL CO

Assignee(s): (std):

SHELL OIL CO ; VINEGAR HAROLD J

Assignee(s):

SHELL OIL COMPANY

Inventor(s): (std):

VINEGAR HAROLD J

Agent(s):

SHELL OIL COMPANY; SHELL OIL CO

30) Family number: 15638371 (US6272479B)

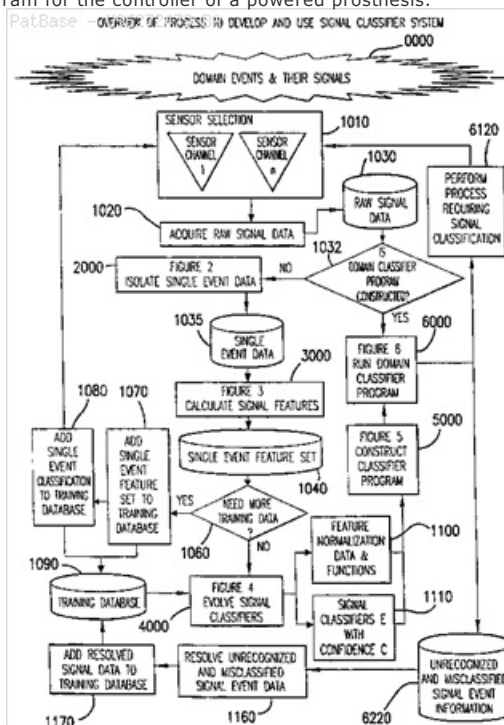
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Title: METHOD OF EVOLVING CLASSIFIER PROGRAMS FOR SIGNAL PROCESSING AND CONTROL

Abstract: The present invention is a method of evolving classifier programs for signal processing and control. The present invention uses an 'evolver' program examine a large number of potential features, which may be from multiple signals to create a 'classifier' program. The output of the classifier program is compared to the desired output. One or more classifier programs is then created and optimized by the evolver program by means of genetic programming. The desired output is again compared to actual classifier program output and the difference is used as a measure of fitness to guide the evolution of the classifier program. The optimized classifier program produced by the present invention is fitter than the background art at correctly providing a repeatable and accurate output, especially for complex and simultaneous input signals. The classifier program may either operate within the program structure of the evolver program or it may be used as an independent program, as, for example, an individualized control program for the controller of a powered prosthesis.

Classifications:

International (ipc 8-9): A61N1/08 G06K9/62
G06K9/66 (Advanced/Invention)
International (ipc 1-7): G06F1/00 G06F15/18 G06N7/08
CPC: G06K9/6217
European: A61N1/08 G06K9/62B G06K9/66
US: 700/213 700/250 706/13 706/14



Family:

Publication number	Publication date	Application number	Application date
AU199885731 A1	19990210	AU19980085731	19980721
US6272479 BA	20010807	US19990230122	19990122
WO9904329 A2	19990128	WO1998US14802	19980721
WO9904329 A3	19990408	WO1998US14802	19980721

Priority:

US19970053295P 19970721 US19970054593P 19970801 WO1998US14802 19980721
US19990230122 19990122

Probable Assignee: FARRY KRISTIN ANN

Assignee(s): (std): FARRY KRISTIN ANN ; FERNANDEZ JULIO JAIME ; GRAHAM JEFFREY SCOTT
Assignee(s): JEFFREY SCOTT GRAHAM ; JULIO JAIME FERNANDEZ ; KRISTIN ANN FARRY
Inventor(s): (std): GRAHAM JEFFREY SCOTT ; FERNANDEZ JULIO JAIME ; FARRY KRISTIN ANN
Inventor(s): KRISTIN ANN FARRY ; JULIO JAIME FERNANDEZ ; JEFFREY SCOTT GRAHAM
Agent(s): ARTHUR M DULA
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TJ TM TR TT UA UG US UZ VN YU ZW

31) Family number: 44921378 (GB2465911A)

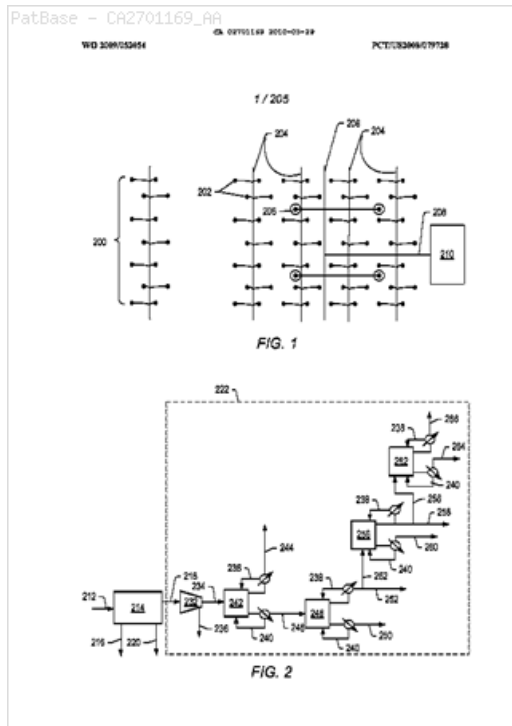
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Title: SYSTEMS, METHODS, AND PROCESSES UTILIZED FOR TREATING SUBSURFACE FORMATIONS

Abstract: Systems, methods, and/or heaters for treating a subsurface formation are described herein. Some embodiments also generally relate to heaters that have novel components therein. Such heaters may be obtained by using the systems and methods described.

Classifications:

International (ipc 8-9): E21B44/00 E21B47/022 E21B7/04 E21C25/04 (Advanced/Invention); E21B44/00 E21B47/02 E21B7/04 E21C25/00 (Core/Invention)
CPC: E21B43/2401 E21B43/243 F25J1/00 E21B36/00 E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04 H01J37/32926 H01J37/32935 Y10T29/49083 E21B7/04 E21B44/00 E21B47/02216
European: E21B43/24 E21B7/04 H01F29/04 H01J37/32S2 H01J37/32S4 T01F27/38



Family:

Publication number	Publication date	Application number	Application date
AU2008312713 AA	20090423	AU20080312713	20081013
AU2008312713 BB	20120614	AU20080312713	20081013
AU2012203096 AA	20120614	AU20120203096	20120525
AU2012203096 BB	20141113	AU20120203096	20120525
CA2701169 AA	20090423	CA20082701169	20081013
GB201004134 A0	20100428	GB20100004134	20081013
GB2465911 A1	20100609	GB20100004134	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 AU20080312713 20081013
WO2008US79728 20081013 AU20120203096 20120525

Probable Assignee: SHELL INT RESEARCH

Assignee(s): (std): SHELL INT RESEARCH

Assignee(s): SHELL INT RESEARCH MIJ BV ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V

Inventor(s): (std): RENKEMA DUURT ; LINEY DAVID JOHN ; OCAMPOS ERNESTO RAPHAEL FONSECA ; BURNS DAVID BOOTH ; PATNI SANDEEP ; CRUZ ANTONIO MARIA GUIMARAES LEITE ; FOWLER THOMAS DAVID ; VENDITTO JAMES JOSEPH ; MUYLLE MICHEL SERGE MARIE ; KIM DONG SUB ; BEER GARY LEE ; RAGHU DAMODARAN ; COSTELLO MICHAEL SCOTT ; STANECKI JOHN ANDREW ; MO WEIJIAN ; HWANG HORNG JYE JAY ; HARVEY ALBERT DESTREHAN III ; BASS RONALD J ; HARRIS CHRISTOPHER KELVIN ; LI BUSHENG ; PRINCE WRIGHT ROBERT GEORGE ; EDBURY DAVID ALSTON ; CAO RENFANG RICHARD ; NAIR VIJAY ; SON JAIME SANTOS ; MCKINZIE BILLY JOHN II ; KARANIKAS JOHN MICHAEL ; MILLER DAVID SCOTT ; XIE XUEYING ; VINEGAR HAROLD J ; NGUYEN SCOTT VINH ; UWECHUE UZO PHILLIP ; ROES AUGUSTINUS WILHELMUS MARIA ; MANSURE ARTHUR JAMES ; AYODELE OLUPOLO RUFUS ; MARWEDE JOCHEN ; ARORA DHRUV ; GUIMERANS ROSALVINA RAMONA ; SHEN CHONGHUI ; RYAN ROBERT CHARLES ; MASON STANLEY LEROY ; SANDBERG CHESTER LEDLIE ; BOESTERT JOHANNES LEENDERT WILLEM CORNELIS DEN ; CARROLL MARK THOMAS ; BRAVO JOSE LUIS ; MACDONALD DUNCAN CHARLES ; CARDINAL PAUL GREGORY ; MO WEIJIAN ; JYE HORNG ; CRUZ ANTONIO MARIA GUIMARAES ; SANBERG CHESTER LEDLIE ; MANSURE ARTHUR J ; BOESTERT JOHANNES LEENDERT WILLEM CORNELIS ; ERNESTO RAPHAEL ; FONSECA OCAMPOS ; HARVEY III ALBERT DESTREHAN ; MCKINZIE II BILLY JOHN ; FONSECA OCAMPOS ERNESTO RAPHAEL ; DEN BOESTERT JOHANNES LEENDERT WILLEM CORNELIS

Inventor(s): HARVEY ALBERT DESTREHAN ; MCKINZIE BILLY JOHN ; JOHANNES LEENDERT WILLEM CORNELIS BOESTERT ; BILLY JOHN II MCKINZIE ; ARTHUR J MANSURE ; HORNG JYE ; CHESTER LEDLIE SANBERG ; ANTONIO MARIA GUIMARAES CRUZ ; WEIJIAN MO ; THOMAS DAVID FOWLER ; STANLEY LEROY

MASON ; DAVID SCOTT MILLER ; JOSE LUIS BRAVO ; DAVID BOOTH BURNS ; MICHEL SERGE MARIE MUYLLE ; VIJAY NAIR ; GARY LEE BEER ; JAIME SANTOS SON ; HAROLD J VINEGAR ; CHRISTOPHER KELVIN HARRIS ; DAMODARAN RAGHU ; WEIJAN MO ; DAVID ALSTON EDBURY ; ROBERT CHARLES RYAN ; UZO PHILLIP UWECHUE ; DUURT RENKEMA ; ROSALVINA RAMONA GUIMERANS ; SANDEEP PATNI ; BILLY JOHN MCKINZIE II ; DONG SUB KIM ; RONALD J BASS ; DAVID JOHN LINEY ; OLUROPO RUFUS AYODELE ; DUNCAN CHARLES MACDONALD ; JOHN ANDREW STANECKI ; DHRUV ARORA ; CHESTER LEDLIE SANDBERG ; SCOTT VINH NGUYEN ; JOHN MICHAEL KARANIKAS ; PAUL GREGORY CARDINAL ; AUGUSTINUS WILHELMUS MARIA ROES ; JAMES JOSEPH VENDITTO ; ALBERT DESTREHAN HARVEY III ; XUEYING XIE ; BUSHENG LI ; RENFANG RICHARD CAO ; CHONGHUI SHEN ; ERNESTO RAPHAEL FONSECA OCAMPOS ; MARK THOMAS CARROLL ; HORNG JYE JAY HWANG ; JOHANNES LEENDERT WILLEM CORNELIS DEN BOESTERT ; ANTONIO MARIA GUIMARAES LEITE CRUZ ; MICHAEL SCOTT COSTELLO ; ARTHUR JAMES MANSURE ; ROBERT GEORGE PRINCE WRIGHT ; JOCHEN MARWEDE

Agent(s): SPRUSON AND FERGUSON

32) Family number: 77053382 (WO19246273A1)

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Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A JAK OR OTHER KINASE INHIBITOR

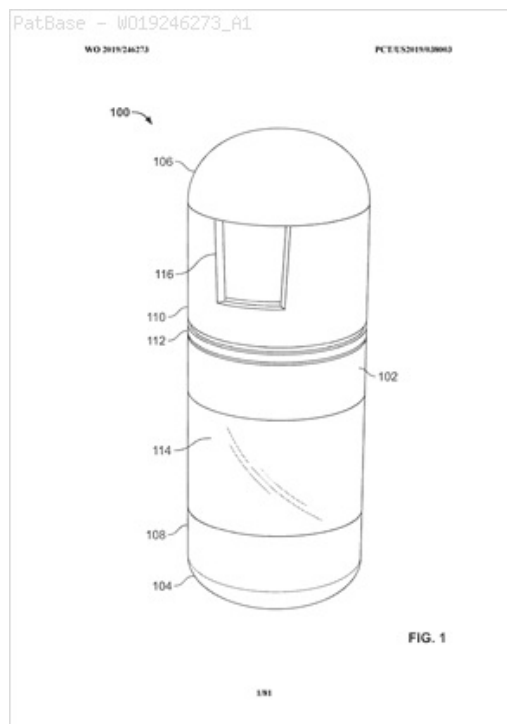
Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with a JAK or other kinase inhibitor.

Classifications:

International (IPC 8-9): A61K31/436 A61K48/00

A61K9/22 (Advanced/Invention)

CPC: A61K31/519 A61K45/06 A61K39/00 A61K48/00



Family:

Publication number	Publication date	Application number	Application date
WO19246273 A1	20191226	WO2019US38003	20190619

Priority:

US20180687756P 20180620 US20190804385P 20190212

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Inventor(s): (std): SINGH SHARAT ; PERERA ARUNA ; JONES MITCHELL ; HOWE KEVIN ; STYLLI HARRY ; WAHL CHRISTOPHER

Inventor(s): HOWE KEVIN DAVID ; JONES MITCHELL LAWRENCE ; WAHL CHRISTOPHER LOREN

Agent(s): CULHANE CRYSTAL L 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

33) Family number: 68631393 (US2018049725A)

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Title: SYSTEMS AND METHODS FOR OBTAINING SAMPLES USING INGESTIBLE DEVICES

Abstract: Ingestible devices configured to obtain samples when present in the GI tract of a subject, as well as related systems and methods, are disclosed. Sampling systems that include an absorbent material a preservative, such as an analyte preservative, as well as related materials and methods, are also disclosed.

Classifications:

International (IPC 8-9): A61B A61B1/04 A61B10/00 A61B10/02

A61B5/00 A61B5/01 A61B5/0245 A61B5/06 A61B5/07 A61B5/11

A61B5/145 A61B5/1455 A61J3/00 A61J3/07 A61K31/436

A61K31/519 A61K31/7088 A61K31/713 A61K35/17 A61K38/00

A61K38/12 A61K38/13 A61K38/17 A61K38/19 A61K39/395
A61K45/00 A61K45/06 A61K48/00 A61K49/00 A61K9/00 A61K9/08
A61K9/10 A61K9/20 A61K9/52 A61M31/00 A61M5/155 A61P1/00
A61P1/04 A61P29/00 A61P35/00 A61P37/00 A61P37/04 A61P37/06
A61P43/00 B01L3/00 C07K16/24 C07K16/28 C12M1/00 C12N1/20
C12N15/113 C12Q1/04 C12Q1/06 C12Q1/10 G01N1/04 G01N1/10
G01N1/20 G01N1/28 G01N1/38 G01N1/40 G01N21/76 G01N21/77
G01N33/483 G01N33/487 G01N33/53 G01N33/558 G01N33/569
G01N33/58 G01N33/68 G06F19/00 G16H40/67 (Advanced/Invention);
A61B10/00 A61B5/00 A61B5/145 (Advanced/Non-invention);
A61B (Subclass/Invention)

International (IPC 1-7): A61B5/00 A61K38/13 A61K39/395

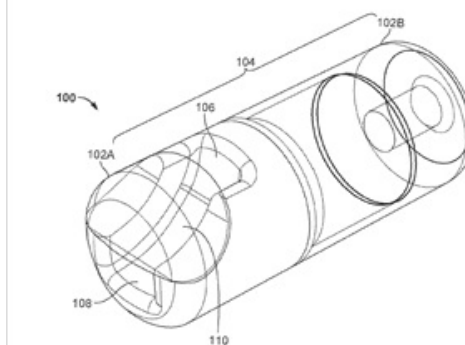
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CPC: C07K16/2866 C07K16/2875 A61K39/3955 A61K31/519
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A61K9/0053 A61P35/00 A61P37/00 A61K9/0009 A61K31/436
A61K48/0075 A61P37/06 A61K48/00 A61B5/0031 A61B5/4887
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A61B10/0038 A61B10/0045 A61B10/02 A61B2010/0061 A61B2562/162 B01L3/50 B01L3/5023 B01L3/5085 B01L2200/0621
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G01N1/10 G01N1/20 G01N1/38 G01N21/76 G01N2001/1031 A61K38/13 A61K2039/505 A61K2039/542 A61B5/0075
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A61K38/2066 A61K39/395 A61P1/04 A61K9/0097 C07K16/241 C07K16/244 C07K16/2839 C12N15/113 C12N2310/11
G16H20/13

US: 1/1 424/9.6 435/34 435/39 435/7.92 600/310 600/424 600/562 600/582 604/891.1

PatBase - US2018049725_AA



Family:

Publication number	Publication date	Application number	Application date
AU2017312662 AA	20190228	AU20170312662	20170818
AU2017322324 AA	20190321	AU20170322324	20170908
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AU2017376801 AA	20190613	AU20170376801	20171214
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AU2018243312 AA	20190919	AU20180243312	20180329
BR112019011689 A2	20191022	BR20191111689	20171214
BR112019011702 A2	20191022	BR20191111702	20171214
BR112019012071 A2	20191112	BR20191112071	20171214
CA3034263 AA	20190215	CA20173034263	20170818
CA3034267 AA	20190215	CA20173034267	20170818
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CA3045944 AA	20190531	CA20173045944	20171207
CA3046023 AA	20190603	CA20173046023	20171214
CA3046093 AA	20190604	CA20173046093	20171214
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CA3054156 AA	20190820	CA20183054156	20180330
CA3054632 AA	20190823	CA20183054632	20180330
CA3055762 AA	20190906	CA20183055762	20180329
CN109843182 A	20190604	CN201780050475	20170818
CN109862821 A	20190607	CN201780065257	20170908
CN109890299 A	20190614	CN201780050750	20170818
CN110072551 A	20190730	CN201780077480	20171214
CN110087530 A	20190802	CN201780076327	20171207
CN110167589 A	20190823	CN201780077488	20171214
CN110402097 A	20191101	CN201780076179	20171207
CN110430801 A	20191108	CN201780077491	20171214
CN110446456 A	20191112	CN201880020641	20180329
EP3500177 A1	20190626	EP20170761156	20170818
EP3500178 A1	20190626	EP20170771910	20170818
EP3509469 A1	20190717	EP20170771641	20170908
EP3510377 A1	20190717	EP20170765551	20170901
EP3551034 A1	20191016	EP20170825673	20171207
EP3551046 A1	20191016	EP20170825672	20171207
EP3551047 A1	20191016	EP20170825674	20171207
EP3551050 A1	20191016	EP20170829774	20171207
EP3554342 A1	20191023	EP20170826642	20171214
EP3554343 A1	20191023	EP20170826646	20171214
EP3554346 A1	20191023	EP20170832410	20171214
EP3554539 A1	20191023	EP20170826640	20171214
EP3554540 A1	20191023	EP20170826641	20171214

EP3554541 A1	20191023	EP20170826647	20171214
EP3600009 A2	20200205	EP20180721888	20180329
EP3600414 A1	20200205	EP20180718660	20180330
EP3600416 A1	20200205	EP20180725334	20180330
IL265210 A0	20190530	IL20170265210	20170908
IL266642 A0	20190731	IL20170266642	20171207
IL266643 A0	20190731	IL20170266643	20171207
IL268900 A0	20191031	IL20180268900	20180329
IN201917027735 A	20190913	IN201917027735	20190711
IN201917027737 A	20190913	IN201917027737	20190711
IN201917027744 A	20190913	IN201917027744	20190711
JP2019526423 T2	20190919	JP20190535193T	20170908
JP2019528117 T2	20191010	JP20190510288T	20170818
JP2020501699 T2	20200123	JP20190531756T	20171214
JP2020502125 T2	20200123	JP20190531759T	20171214
KR20190091293 A	20190805	KR20197018678	20171207
KR20190091325 A	20190805	KR20197019279	20171207
KR20190095931 A	20190816	KR20197019582	20171214
KR20190095936 A	20190816	KR20197020004	20171214
KR20190098170 A	20190821	KR20197019904	20171214
KR20190104310 A	20190909	KR20197009660	20170908
KR20190133195 A	20191202	KR20197030715	20180329
MX2019006823 A1	20191021	MX20190006823	20171214
MX2019006864 A1	20191015	MX20190006864	20171214
TW201834690 A	20181001	TW20170144039	20171214
TW201834710 A	20181001	TW20170144036	20171214
TW201834711 A	20181001	TW20170144038	20171214
US2018049725 AA	20180222	US20170680400	20170818
US2018052084 AA	20180222	US20170680430	20170818
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US2018193003 AA	20180712	US20170835270	20171207
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US2018279908 AA	20181004	US20180940407	20180329
US2019343425 AA	20191114	US20170465360	20171214
WO18035394 A1	20180222	WO2017US47476	20170818
WO18035396 A1	20180222	WO2017US47481	20170818
WO18048754 A1	20180315	WO2017US49973	20170901
WO18048754 A8	20180503	WO2017US49973	20170901
WO18049133 A1	20180315	WO2017US50642	20170908
WO18106931 A1	20180614	WO2017US65137	20171207
WO18106933 A1	20180614	WO2017US65139	20171207
WO18106945 A1	20180614	WO2017US65156	20171207
WO18106959 A1	20180614	WO2017US65178	20171207
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WO18111326 A1	20180621	WO2017US25116	20170330
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WO18112215 A1	20180621	WO2017US66441	20171214
WO18112232 A1	20180621	WO2017US66474	20171214
WO18112237 A1	20180621	WO2017US66481	20171214
WO18112240 A1	20180621	WO2017US66485	20171214
WO18112255 A1	20180621	WO2017US66512	20171214
WO18112256 A1	20180621	WO2017US66514	20171214
WO18112264 A1	20180621	WO2017US66527	20171214
WO18183711 A2	20181004	WO2018US25191	20180329
WO18183711 A3	20181129	WO2018US25191	20180329
WO18183929 A1	20181004	WO2018US25521	20180330
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Priority:

US20160376688P	20160818	US20160385344P	20160909	US20160385553P	20160909
US20160431297P	20161207	US20160434320P	20161214	US20160434348P	20161214
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WO2017058856P 20171214
WO2018US25521 20180330

WO2017058856P 20171214

Probable Assignee: PROGENITY INC

Assignee(s): (std): DRLIK MARK ; JONES MITCHELL LAWRENCE ; DRLIK MARK SASHA ; JONES RYAN ELLIOTT ; GARLAND ANDREW CARLOS ; DRLIK MARK S ; JONES RYAN ; GARLAND ANDREW ; PROGENITY INC ; PHILIPPSEN AARON OLAFUR LAURENCE ; MCGUINNESS RYAN PAUL ; MAGYAR BOB ; LEMAY MATTHIEU OLIVIER ; MULLER NATHAN JOHN ; NIKNIA IMAN ; PAK BRIAN ; MCLEAN JOHN MITCHELL ; MAGYAR ROBERT S ; MULLER NATHAN ; WAHL CHRISTOPHER LOREN ; SINGH SHARAT ; WEY GENE ALAN ; SMITH PAUL TIMOTHY ; WAHL CHRISTOPHER ; WEY GENE ; ALLAN NICHOLAS DAVID

Assignee(s): BECHTEL KATE LEEANN ; STYLLI HARRY ; LUO ALLISON ; LIU YI

Inventor(s): (std): MCGUINNESS RYAN PAUL ; PHILIPPSEN AARON OLAFUR LAURENCE ; DRLIK MARK SASHA ; WAHL CHRISTOPHER LOREN ; MAGYAR BOB ; ALLAN NICHOLAS DAVID ; JONES MITCHELL LAWRENCE ; SINGH SHARAT ; PHILIPPSEN AARON OLAFUR LAURENCE ; WEY GENE ALAN ; NIKNIA IMAN ; LEMAY MATTHIEU OLIVIER ; JONES RYAN ELLIOTT ; MULLER NATHAN JOHN ; GARLAND ANDREW CARLOS ; PAK BRIAN ; MCLEAN JOHN MITCHELL ; SMITH PAUL TIMOTHY ; LIU YI ; BECHTEL KATE LEEANN ; STYLLI HARRY ; LUO ALLISON ; DRLIK MARK S ; MAGYAR ROBERT S ; MAGYAR R S ; MITCHELL LAWRENCE JONES ; SHARAT SINGH ; CHRISTOPHER LOREN WAHL ; HARRY STYLLI ; JONES MITCHELL ; BECHTEL KATE LEE ANN

Agent(s): DAVIES COLLISON CAVE PTY LTD ; SMART AND BIGGAR ; SMART AND BIGGAR LLP ; MEWBURN ELLIS LLP ; HGF LTD ; DALEY SEAN P ; ACETO DONATO ET AL ; DORIGO ANDREA ET AL ; REITER TIFFANY 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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

34) Family number: 77053430 (WO19246312A1)

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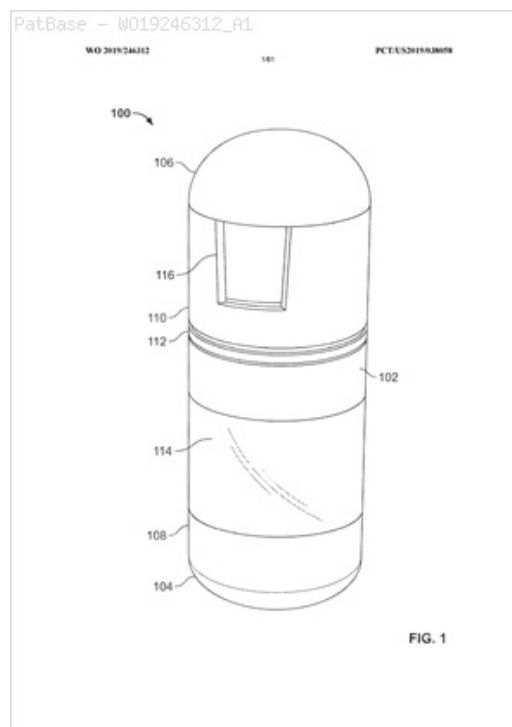
Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH AN IMMUNOMODULATOR

Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with an immunomodulator.

Classifications:

International (IPC 8-9): A61K31/436 A61K48/00
A61K9/22 (Advanced/Invention)

CPC: A61K9/0009 A61K9/0053 A61K9/0097 A61K31/436 A61K45/06
A61K2039/505 A61K2039/545 A61P1/00 A61P37/06 C07K16/244
C07K16/2839 A61K38/00 A61K38/13 A61K38/193



Family:

Publication number	Publication date	Application number	Application date
WO19246312 A1	20191226	WO2019US38058	20190619

Priority:

US20180687734P 20180620 US20180687751P 20180620

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY ; HOWE KEVIN DAVID ; PERERA ARUNA

Agent(s): CULHANE CRYSTAL L ET AL

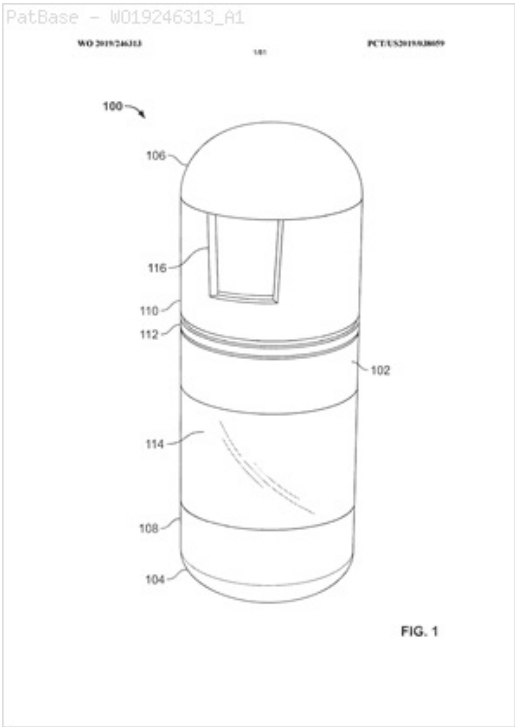
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Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A TNF INHIBITOR

Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with a TNF-alpha inhibitor.

Classifications:

International (IPC 8-9): A61K31/436 A61K48/00 A61K9/22 (Advanced/Invention)
CPC: A61K31/519 A61K38/13 A61K39/00 A61K48/00 C07K16/241 A61K2039/505 A61K2039/54 A61P37/06 C07K16/244 C07K16/2839 C07K2317/94



Family:

Publication number	Publication date	Application number	Application date
WO19246313 A1	20191226	WO2019US38059	20190619

Priority:

US20180687429P 20180620 US20190804828P 20190213

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY ; HOWE KEVIN DAVID ; PERERA ARUNA

Agent(s): CULHANE CRYSTAL L ET AL

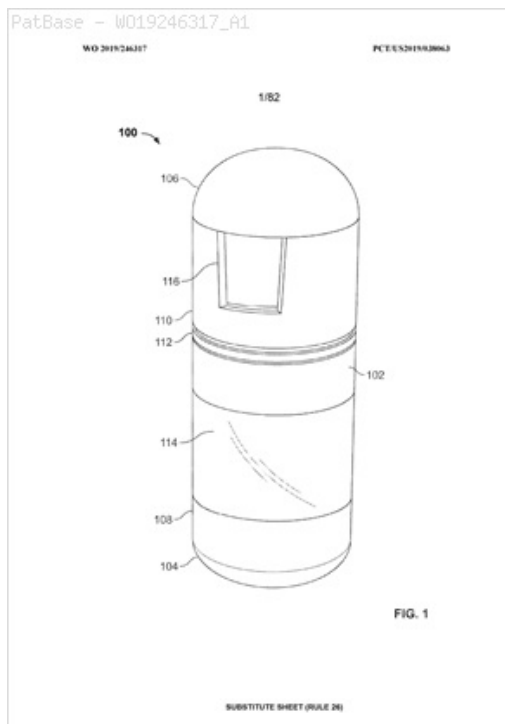
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Title: TREATMENT OF A DISEASE OR CONDITION IN A TISSUE ORIGINATING FROM THE ENDODERM

Abstract: This disclosure features methods and compositions for treating inflammatory disorders or conditions that arise in a tissue originating from the endoderm using an immune modulator.

Classifications:

International (IPC 8-9): A61K31/436 A61K48/00 A61K9/22 (Advanced/Invention)
CPC: A61K31/519 A61K45/06 A61K48/00 A61M31/00 A61P37/06 A61K39/395 A61K2039/505 C07K16/241 C07K16/244 C07K16/2842



Family:

Publication number	Publication date	Application number	Application date
WO19246317 A1	20191226	WO2019US38063	20190619

Priority:

US20180687766P 20180620

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Inventor(s): (std): JONES MITCHELL LAWRENCE ; WAHL CHRISTOPHER LOREN ; SINGH SHARAT ; HOWE KEVIN DAVID ; PERERA ARUNA

Agent(s): CULHANE CRYSTAL L 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

37) Family number: 57228448 (ES1119255Y)

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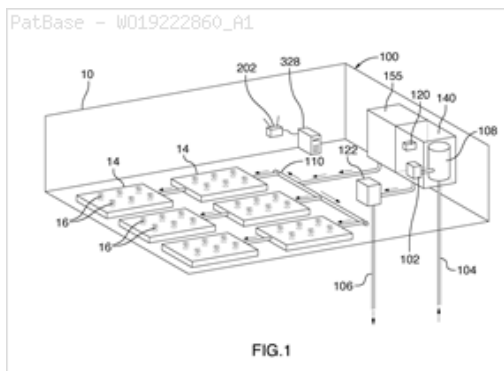
Title: CAJA, RECIPIENTE, CONTENEDOR, BAUL, CAJON DE SEGURIDAD INTEGRAL LOGISTICO, DE ADQUISICIONES, ALMACENAMIENTO, REPARTO Y ENTREGAS DE DEPOSITO, CON MEDIDAS PROTECTORAS CLIMATOLOGICAS, TELEMATICAS.

Abstract: Source: ES1119255U [ES] 1. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas caracterizada por tener en su estructura un tejido nanotecnologico especial con unas propiedades de proteccion fisica y antibala con al menos una capa no tejida que comprende fibras cortas de para-aramida, nanotextiles, polimeros. 2. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun la reivindicacion 1, caracterizada por tener en su estructura un tejido nanotecnologico especial con unas propiedades de proteccion fisica y antibala con un peso desde unos 250 grams per square metre hasta 2,500 grams per square metre. 3. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en su estructura un tejido nanotecnologico especial con unas propiedades de proteccion fisica y antibala donde la primera es de unos 2 cm ancho x 3 cm de largo y uniendo la siguiente quedando expuesta una superficie de unos 2 cm x 2 cm estando el 1 cm sobrante de largo debajo de la "pieza, escama, diseno de escudo" en la parte inferior/anterior creando un tipo de malla tipo traje de proteccion. 4. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en su estructura un tejido nanotecnologico especial con unas propiedades de proteccion fisica y antibala que puede amortiguar en todas las direcciones y en especial de forma exponencial/exterior/hacia afuera un golpe, penetracion, impacto de bala y dicho impacto siendo reducido a un golpe de poco impacto fisico, reduccion y frenado expansivo permitiendo que el usuario no pueda sufrir danos internos por dicho golpe, penetracion, impacto de armas de fuego de gran calibre incluso el de 0.50 calibre y/o el de AK47, balas penetradoras, incendiarias, etc. 5. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en su estructura un tejido nanotecnologico especial con unas propiedades de proteccion fisica y antibala en el que no hay limite de tamano, ni del numero de capas, nivel de proteccion. 6. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en su estructura un tejido nanotecnologico especial con unas propiedades de proteccion fisica y antibala que tiene un espesor desde unos 0,200 cm hasta unos 7,25 cm, preferentemente 0,0500 cm a unos 5,03 cm. 7. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en su estructura un tejido nanotecnologico especial con una capa no tejida que esta compuesta de una fibra resistente a las balas con una tenacidad de al menos unos 10-20 gramos por denier (13,5 g/decitex) y un modulo de traccion de al menos unos 200-400 gramos por denier (360 g/decitex). 8. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores,

caracterizada porque esta conformada por un tejido, material antibalas con una capa no tejida esta entrecruzada con la capa tejida mediante perforacion por agujas, soldaduras, cosidos, uniones con adhesivos, por calentamiento, etc. 9. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque esta conformada por un tejido, material antibalas con una capa tejida que comprende fibras de calidad antibalas unidireccionales y/o de diseno practicamente unidireccionales. 10. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque esta conformada por un tejido, material antibalas y al menos una capa no tejida comprende fibras de calidad antibalas. 11. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque esta conformada por un tejido, material antibalas que comprende una serie de capas de cables, textiles, tejidos nanotecnologicos de origen organico y/o inorganico unidireccionales y/o direccionales, combinados, entre cosidos, mezclado de fibras de calidad antibalas colocadas transversalmente en angulos de 44 degrees - 90 degrees grados. 12. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque esta conformada por un tejido, material antibalas que comprende una serie de capas de tela tejida de calidad antibalas. 13. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque esta conformada por un tejido, material antibalas que comprende una serie de capas de tela de punto de calidad antibalas. 14. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque esta conformada por un tejido, material antibalas que comprende una serie de capas de cables cosidas de fibras de calidad balistico. 15. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque esta conformada por un tejido, material antibalas que posee un espesor reducido por calandrado. 16. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en la estructura un lector que comprende una primera unidad de tecnologia configurada para analizar un primer tipo de credenciales de acceso, estando configurada la primera unidad de tecnologia para leer automaticamente los datos de una tarjeta. 17. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en la estructura un lector que comprende una primera unidad de tecnologia configurada para analizar un primer tipo de credenciales de acceso, estando configurada una segunda unidad de tecnologia configurada para analizar un segundo tipo de credenciales de acceso; que presenta un soporte de montaje configurado para recibir la primera y segunda unidades de tecnologia en una pluralidad de orientaciones, de tal forma que cuando la segunda unidad de tecnologia este montada en una primera orientacion, la primera unidad de tecnologia sea adyacente a un primer lado de la segunda unidad de tecnologia, y cuando la segunda unidad de tecnologia este montada en una segunda orientacion, la primera unidad de tecnologia sea adyacente a un segundo lado de la segunda unidad de tecnologia. 18. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en la estructura un lector que comprende una primera unidad de tecnologia configurada para analizar un primer tipo de credenciales de acceso, estando configurada una segunda unidad de tecnologia configurada para analizar un segundo tipo de credenciales de acceso; que presenta un soporte de montaje configurado para recibir la primera y segunda unidades de tecnologia en una pluralidad de orientaciones, de tal forma que cuando la segunda unidad de tecnologia este montada en una primera orientacion, la primera unidad de tecnologia sea adyacente a un primer lado de la segunda unidad de tecnologia, y cuando la segunda unidad de tecnologia este montada en una segunda orientacion, la primera unidad de tecnologia sea adyacente a un segundo lado de la segunda unidad de tecnologia. 19. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en la estructura un lector en el que la segunda unidad de tecnologia esta configurada para recibir por lo menos una de entre unas credenciales legibles por maquina y unas credenciales facilitadas por el usuario. 20. Caja, recipiente, contenedor, baul, cajon de seguridad integral logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en la estructura un lector en el que la tecnologia utilizada por la primera unidad de tecnologia es diferente de la tecnologia utilizada por la segunda unidad de tecnologia, en el que la primera unidad de tecnologia esta configurada para analizar por lo menos una de entre unas credenciales de banda magnetica, unas credenciales incluso mediante su incor

Machine translation: 1. Box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic characterized by having in its structure a special nanotechnology fabric with properties of physical protection and bulletproof with at least one nonwoven layer comprising short para-aramid fibers, nanotextiles, polymers. 2 box, container, container, trunk, drawer logistics comprehensive security, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic according to claim 1, characterized by having in its structure a special fabric with nanotechnology some physical properties and ballistic protection with a weight of about 250 grams per square meter to 2,500 grams per square meter. 3 Box, container, container, trunk, drawer logistics comprehensive security, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized by having in its structure a special fabric with a nanotechnological physical properties and ballistic protection where the first is about 2 cm wide x 3 cm long and joining the following being exposed an area of about 2 cm x 2 cm being 1 cm long remaining below the "piece, flake, shield design "at the bottom / front creating a type of protective suit type mesh. 4 box, container, container, trunk, drawer logistics comprehensive security, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized by having in its structure a special fabric with a nanotechnological physical properties and ballistic protection that can cushion in all directions and in particular exponential form / outdoor / out a coup, penetration, and said bullet impact being reduced to a physical blow little impact, reducing braking and expansive allowing you may not suffer internal damage from that hit, penetration, impact of firearms including big caliber 0.50 caliber and / or AK47, penetrator bullets, incendiary, etc. 5. box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized by having in its structure a special fabric with a nanotechnological physical properties and ballistic protection in which no size limit or the number of layers, level of protection. 6 Box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, raised character that is formed by a fabric, bulletproof material core having a thickness from about 0.200 cm to about 7.25 cm, preferably about 0.0500 cm to 5.03 cm. 7 Box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized in that is comprised of a fabric, bulletproof material with a nonwoven layer is composed of a bullet resistant fiber with a tenacity of at least about 10-20 grams per denier (13.5 g / dtex) and a tensile modulus of at least about 200-400 grams per denier (360 g / dtex). 8 box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized in that is comprised of a fabric, bulletproof material with a nonwoven layer is crisscrossed with woven layer by needle-punching, welding, stitching, adhesive bonding, heating, etc. 9 Box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized in that is comprised of a fabric, bulletproof material with a woven fiber layer comprising unidirectional ballistic quality and / or practically unidirectional design. 10 Box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized in that is comprised of a fabric, bulletproof material and at least one nonwoven layer comprising fibers of bulletproof quality. 11 box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized in that is comprised of a fabric, bulletproof material comprises a number of layers of wires, textile fabrics nanotechnological organic origin and / or inorganic unidirectional and / or directional, combined, between sewn bulletproof fibers mixed quality angles transversely positioned 44 degrees -90 degrees degrees. 12 Box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized in that is comprised of a fabric material comprising bulletproof a number of layers of bullet-proof woven fabric quality. 13 Box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized in that is comprised of a fabric material comprising bulletproof a series of knitted fabric layers of bulletproof quality. 14 Box, container, container, trunk, drawer integrated security logistics, procurement, storage, distribution and supply of deposit, with protective measures climatological, telematic, according to previous claims, characterized in that is comprised of a fabric material comprising

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WO19222860 A1	20191128	WO2019CA50713	20190524

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Title: REMOTE CONTROL ROBOT SYSTEM

Abstract: A remote control robot system includes a slave arm, a master main body imitating the shape of an object handled by the slave arm, a manipulation receiving device configured to receive manipulation of an operator based on the position and posture of the master main body, and a control device configured to control operation of the slave arm based on the manipulation received by the manipulation receiving device so that behavior of the object corresponds to behavior of the master main body.

Classifications:

International (IPC 8-9): A61B17/28 A61B34/00 A61B34/30 A61B34/32 A61B34/35 A61B34/37 B23P19/04 B23P21/00 B23Q15/12 B25J11/00 B25J13/00 B25J13/02 B25J13/06 B25J13/08 B25J15/00 B25J15/08 B25J18/00 B25J19/00 B25J19/02 B25J19/04 B25J19/06 B25J3/00 B25J3/04 B25J5/00 B25J9/00 B25J9/08 B25J9/12 B25J9/16 B25J9/18 B25J9/22 G05B19/404 G05B19/418 G05B19/427 G05D3/12 G06F15/167 G06F15/173 G06F3/00 G06F3/01 G06T7/62 G06T7/70 H04N5/232 H04N7/18 (Advanced/Invention); B23P19/04 B23P21/00 B25J3/04 B25J9/16 G05B19/409 G05B19/427 G06F3/01 (Advanced/Non-invention)

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G05B2219/39533 G05B2219/40134 G05B2219/40139

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G05B2219/40627 G05B2219/33007 G05B2219/37297

G05B2219/40387 B25J9/1661 B25J3/04 B25J9/1674 B25J9/1689

B25J13/025 G05B19/4182 G05B2219/39004 G05B2219/39102

G05B2219/39439 G05B2219/40022 G05B2219/40136

G05B2219/40142 G05B2219/40146 G05B2219/40161 G05B2219/40162 G05B2219/40163 G05B2219/40169 G05B2219/40183

G05B2219/40195 A61B34/35 A61B34/37 A61B34/70 B23P19/04 B23P21/00 B25J9/126 B25J9/1602 B25J9/1633 B25J9/1682

B25J9/1692 B25J11/005 B25J13/00 B25J13/02 B25J13/06 B25J19/02 B25J19/023 B25J19/06 A61B34/32 B23P21/002

B23Q15/12 B25J3/00 B25J9/0081 B25J9/0084 B25J9/0087 B25J9/161 B25J9/1612 B25J9/1628 B25J9/163 B25J9/1646

B25J9/1653 B25J9/1664 B25J9/1669 B25J9/1697 B25J11/008 B25J13/003 B25J13/006 B25J13/065 B25J13/08 B25J13/084

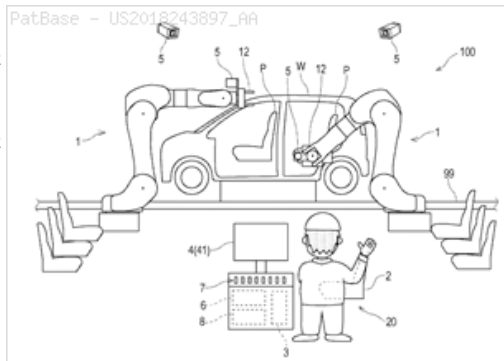
B25J13/085 B25J13/087 B25J13/088 B25J18/00 B25J19/028 B25J19/04 G06F3/017 G06T7/62 G06T7/70 H04N5/23219

H04N7/181 Y10S901/02 Y10S901/03 Y10S901/08 Y10S901/09 Y10S901/10 Y10S901/27 Y10S901/41 Y10S901/46 Y10S901/47

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CN107848111 A	20180327	CN201680041092	20160527
CN107848112 A	20180327	CN201680041781	20160624
CN107848113 A	20180327	CN201680043288	20160715
CN107848114 A	20180327	CN201680043602	20160624
CN107848116 A	20180327	CN201680044158	20160527
CN107921620 A	20180417	CN201680048695	20160527
CN107921621 A	20180417	CN201680048757	20160624
CN107921622 A	20180417	CN201680048758	20160624
CN107921623 A	20180417	CN201680049053	20160624
CN107921624 A	20180417	CN201680049058	20160527
CN107921625 A	20180417	CN201680049063	20160527
CN107921634 A	20180417	CN201680047123	20160527
CN107921635 A	20180417	CN201680048289	20160527
CN107921636 A	20180417	CN201680048486	20160527
CN107921637 A	20180417	CN201680048659	20160527



CN107921638 A	20180417	CN201680048742	20160527
CN107921639 A	20180417	CN201680048747	20160527
CN107921640 A	20180417	CN201680048927	20160527
CN107921641 A	20180417	CN201680049044	20160527
CN107921642 A	20180417	CN201680049056	20160527
CN107921644 A	20180417	CN201680048711	20160527
CN107921645 A	20180417	CN201680048923	20160527
CN107921646 A	20180417	CN201680048942	20160527
CN108349095 A	20180731	CN201680049046	20160624
EP3321044 A1	20180516	EP20160838712	20160527
EP3321044 A4	20190529	EP20160838712	20160527
EP3342541 A1	20180704	EP20160838703	20160527
EP3342541 A4	20190501	EP20160838703	20160527
EP3342542 A1	20180704	EP20160838704	20160527
EP3342542 A4	20190626	EP20160838704	20160527
EP3342543 A1	20180704	EP20160838705	20160527
EP3342543 A4	20190522	EP20160838705	20160527
EP3342544 A1	20180704	EP20160838731	20160624
EP3342544 A4	20190529	EP20160838731	20160624
EP3342545 A1	20180704	EP20160838732	20160624
EP3342545 A4	20191009	EP20160838732	20160624
EP3342546 A1	20180704	EP20160838733	20160624
EP3342546 A4	20191009	EP20160838733	20160624
EP3342549 A1	20180704	EP20160838702	20160527
EP3342549 A4	20190619	EP20160838702	20160527
EP3342550 A1	20180704	EP20160838707	20160527
EP3342550 A4	20190821	EP20160838707	20160527
EP3342551 A1	20180704	EP20160838708	20160527
EP3342551 A4	20190703	EP20160838708	20160527
EP3342552 A1	20180704	EP20160838709	20160527
EP3342552 A4	20190626	EP20160838709	20160527
EP3342553 A1	20180704	EP20160838710	20160527
EP3342553 A4	20190807	EP20160838710	20160527
EP3342554 A1	20180704	EP20160838713	20160527
EP3342554 A4	20190703	EP20160838713	20160527
EP3342555 A1	20180704	EP20160838714	20160527
EP3342555 A4	20191002	EP20160838714	20160527
EP3342556 A1	20180704	EP20160838715	20160527
EP3342556 A4	20190529	EP20160838715	20160527
EP3342557 A1	20180704	EP20160838716	20160527
EP3342557 A4	20190522	EP20160838716	20160527
EP3342558 A1	20180704	EP20160838728	20160624
EP3342558 A4	20190626	EP20160838728	20160624
EP3342559 A1	20180704	EP20160838729	20160624
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EP3342560 A1	20180704	EP20160838743	20160715
EP3342560 A4	20190703	EP20160838743	20160715
EP3342561 A1	20180704	EP20160838711	20160527
EP3342561 A4	20190612	EP20160838711	20160527
EP3342562 A1	20180704	EP20160838717	20160527
EP3342562 A4	20190626	EP20160838717	20160527
EP3342563 A1	20180704	EP20160838718	20160527
EP3342563 A4	20190626	EP20160838718	20160527
EP3342564 A1	20180704	EP20160838719	20160527
EP3342564 A4	20190529	EP20160838719	20160527
EP3342565 A1	20180704	EP20160838730	20160624
EP3342565 A4	20190522	EP20160838730	20160624
JP2017033350 A1	20180607	JP20170536163T	20160527
JP2017033351 A1	20180607	JP20170536164T	20160527
JP2017033352 A1	20180614	JP20170536165T	20160527
JP2017033353 A1	20180607	JP20170536166T	20160527
JP2017033355 A1	20180802	JP20170536167T	20160527
JP2017033356 A1	20180614	JP20170536168T	20160527
JP2017033357 A1	20180614	JP20170536169T	20160527
JP2017033358 A1	20180719	JP20170536170T	20160527
JP2017033359 A1	20180607	JP20170536171T	20160527
JP2017033360 A1	20180607	JP20170536172T	20160527
JP2017033361 A1	20180607	JP20170536173T	20160527
JP2017033362 A1	20180614	JP20170536174T	20160527
JP2017033363 A1	20180705	JP20170536175T	20160527
JP2017033364 A1	20180705	JP20170536176T	20160527
JP2017033365 A1	20180614	JP20170536177T	20160527
JP2017033366 A1	20180607	JP20170536178T	20160527
JP2017033367 A1	20180607	JP20170536179T	20160527
JP2017033376 A1	20180614	JP20170536183T	20160624
JP2017033377 A1	20180705	JP20170536184T	20160624
JP2017033378 A1	20180614	JP20170536185T	20160624
JP2017033379 A1	20180614	JP20170536186T	20160624
JP2017033380 A1	20180607	JP20170536187T	20160624
JP2017033381 A1	20180607	JP20170536188T	20160624
JP2017033391 A1	20180607	JP20170536195T	20160715

KR102015522 B1	20190828	KR20187001796	20160527
KR102018242 B1	20190904	KR20187008047	20160527
KR102031232 B1	20191011	KR20187008072	20160624
KR102039077 B1	20191101	KR20187007674	20160527
KR102052038 B1	20191204	KR20187006756	20160527
KR102055317 B1	20200122	KR20187006315	20160527
KR20180019705 A	20180226	KR20187001794	20160715
KR20180019706 A	20180226	KR20187001796	20160527
KR20180038479 A	20180416	KR20187006315	20160527
KR20180038480 A	20180416	KR20187006316	20160527
KR20180039132 A	20180417	KR20187006756	20160527
KR20180039133 A	20180417	KR20187006757	20160527
KR20180041218 A	20180423	KR20187007680	20160527
KR20180042332 A	20180425	KR20187007674	20160527
KR20180042333 A	20180425	KR20187007675	20160527
KR20180043326 A	20180427	KR20187008054	20160624
KR20180043328 A	20180427	KR20187008072	20160624
KR20180044945 A	20180503	KR20187008047	20160527
KR20180044946 A	20180503	KR20187008053	20160527
KR20190110653 A	20190930	KR20197027865	20160715
TW201707880 A	20170301	TW20160126372	20160818
TW201707881 A	20170301	TW20160126373	20160818
TW201707882 A	20170301	TW20160126542	20160819
TW201707883 A	20170301	TW20160126689	20160822
TW201707884 A	20170301	TW20160126759	20160822
TW201707885 A	20170301	TW20160127049	20160824
TW201707886 A	20170301	TW20160127260	20160825
TW201707888 A	20170301	TW20160127261	20160825
TW201707890 A	20170301	TW20160126540	20160819
TW201707892 A	20170301	TW20160126545	20160819
TW201707893 A	20170301	TW20160126882	20160823
TW201707894 A	20170301	TW20160126883	20160823
TW201707895 A	20170301	TW20160126884	20160823
TW201710043 A	20170316	TW20160125737	20160812
TW201711812 A	20170401	TW20160126749	20160822
TW201711813 A	20170401	TW20160126751	20160822
TW201711814 A	20170401	TW20160126753	20160822
TW201713472 A	20170416	TW20160124427	20160802
TW201713473 A	20170416	TW20160126539	20160819
TW201713474 A	20170416	TW20160127050	20160824
TW201713475 A	20170416	TW20160127054	20160824
TW201714102 A	20170416	TW20160127052	20160824
TW201716195 A	20170516	TW20160124425	20160802
TW201719312 A	20170601	TW20160127055	20160824
TWI595987 B	20170821	TW20160127050	20160824
TWI604930 B	20171111	TW20160126545	20160819
TWI609748 B	20180101	TW20160126751	20160822
TWI611883 B	20180121	TW20160126749	20160822
TWI623398 B	20180511	TW20160127261	20160825
TWI625207 B	20180601	TW20160126542	20160819
TWI627039 B	20180621	TW20160127054	20160824
TWI631447 B	20180801	TW20160127055	20160824
TWI666099 B	20190721	TW20160126373	20160818
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US2018243897 AA	20180830	US20160755115	20160527
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US2018257238 AA	20180913	US20160755135	20160527
US2018257240 AA	20180913	US20160755179	20160527
WO17033350 A1	20170302	WO2016JP02574	20160527
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WO17033352 A1	20170302	WO2016JP02576	20160527

WO17033353 A1	20170302	WO2016JP02582	20160527
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WO17033357 A1	20170302	WO2016JP02584	20160527
WO17033358 A1	20170302	WO2016JP02585	20160527
WO17033359 A1	20170302	WO2016JP02586	20160527
WO17033360 A1	20170302	WO2016JP02587	20160527
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WO17033362 A1	20170302	WO2016JP02589	20160527
WO17033363 A1	20170302	WO2016JP02590	20160527
WO17033364 A1	20170302	WO2016JP02591	20160527
WO17033365 A1	20170302	WO2016JP02594	20160527
WO17033366 A1	20170302	WO2016JP02596	20160527
WO17033367 A1	20170302	WO2016JP02597	20160527
WO17033376 A1	20170302	WO2016JP03060	20160624
WO17033377 A1	20170302	WO2016JP03061	20160624
WO17033378 A1	20170302	WO2016JP03063	20160624
WO17033379 A1	20170302	WO2016JP03064	20160624
WO17033380 A1	20170302	WO2016JP03067	20160624
WO17033381 A1	20170302	WO2016JP03069	20160624
WO17033391 A1	20170302	WO2016JP03356	20160715

Priority:

JP20150165479	20150825	JP20150165479	20150825	WO2016JP02574	20160527
WO2016JP02576	20160527	WO2016JP02575	20160527	WO2016JP02577	20160527
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WO2016JP03060	20160624	WO2016JP03356	20160715		

Probable Assignee: KAWASAKI JUKOGYO KK

Assignee(s): (std): KAWASAKI HEAVY IND LTD ; MEDICAROID CORP

Assignee(s): KAWASAKI JUKOGYO KK

Inventor(s): (std): SHIMOMURA NOBUYASU ; HASHIMOTO YASUHIKO ; KAMON MASAYUKI ; TANAKA SHIGETSUGU ; KUROSAWA YASUSHI ; MAEHARA TSUYOSHI ; TOJO TSUYOSHI ; NOGUCHI KENJI ; KAMON MASAYUKI AND

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; PATENT CORPORATE BODY ARCO PATENT OFFICE

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 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 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

40) Family number: 30002503 (US2001056544A)

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Title: ELECTRICALLY CONTROLLED AUTOMATED DEVICES TO OPERATE, SLOW, GUIDE, STOP AND SECURE, EQUIPMENT AND MACHINERY FOR THE PURPOSE OF CONTROLLING THEIR UNSAFE, UNATTENDED, UNAUTHORIZED, UNLAWFUL HAZARDOUS AND/OR LEGAL USE, WITH REMOTE CONTROL AND ACCOUNTABILITY WORLDWIDE

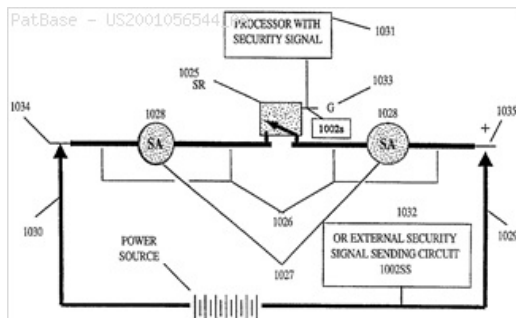
Abstract: This application describes completely in many unique ways and detail all the devices to reduce a vehicle's speed and/or reduce a machines RPM's and/or stop any piece of equipment's as well as guide it if mobile through automated controls. First to slow it down, and guide it and/or control it if necessary (i.e., other pieces of equipment). Secondly it discusses how to stop any piece of equipment completely. And thirdly, the invention secures it in a safe stationary position either entirely or any number of specific moving parts. Many of these systems are initially here described to slow, reduce speed, steer, stop and/or secure equipment functions. However, they also can be used to increase a piece of equipment's functions. In other words their variations are completely capable to serve any remote or automated controls on a vehicle in the future to provide full robotics systems, e.g., for automated transportation systems, automated manufacturing, etc., either through individually isolated remote control systems and/or interfaced with other off-board systems through communication links, gateway computers, computer networks and the world wide web for inexpensive long distance monitoring and remote control. The invention focuses on the automobile industry but as has always been maintained throughout all these applications these devices and systems are designed to control every piece of equipment. The invention includes various accountable protocols and commercial developments to control speed, brake and steering for an automobile shut down to be performed through automation to a safe controlled secured deactivated state to be considered as a basis for a standard in aggressive vehicle remote control and/or to control and guide a vehicle and/or piece of equipment through many different automated systems.

Classifications:

International (IPC 8-9): B29C65/00 B32B37/00 B60R25/00 B60R25/02 B60R25/04 B60R25/042 B60R25/08 B60R25/10 B60R25/102 B60R25/25 B60R25/30 B60R25/33 B61C17/12 B61G5/10 B67D5/36 B67D7/04 B67D7/38 C04B37/00 E06B1/56 E06B5/11 F17D1/08 G01C21/34 G01S5/02 G05B11/01 G05B15/00 G05B23/02 G05D1/00 G06F13/00 G06F19/00 G06F7/04 G06Q99/00 G07C5/08 G08B13/22 G08C17/00 G08C17/02 G09F3/03 H04B7/185 H04L29/10 H04L9/00 H04M11/00 H04Q1/00 H04Q7/00 H05B1/00 (Advanced/Invention); G06Q99/00 (Advanced/Non-invention); B32B37/00 B60R25/00 B60R25/04 B60R25/08 B60R25/10 B61C17/00 B61G5/00 B67D7/00 B67D7/38 E06B1/56 E06B5/10 F17D1/00 G01S5/02 G05B15/00 G05B23/02 G06F13/00 G06F19/00 G06F7/02 G06Q99/00 G07C5/00 G08C17/00 H04B7/185 H04M11/00 H04Q1/00 (Core/Invention)

International (IPC 1-7): B32B31/00 B60K31/00 B60R25/00 B60R25/04 B60R25/10 B61C17/12 B61G5/10 B67D5/04 B67D5/36 E06B1/56 E06B5/11 F17D1/08 G01S5/02 G05B11/01 G05B15/00 G05B23/02 G06F11/30 G06F12/14 G06F13/00 G06F17/00 G06F17/60 G06F19/00 G06F7/00 G06F7/04 G08B5/22 G08C17/00 G08C17/02 H04B7/185 H04L29/10 H04L9/00 H04M11/00 H04Q1/00 H04Q7/00

CPC: B60R25/04 B60R25/252 B60R25/255 B60R25/257 B60R2325/101 G06Q99/00 B60R25/305 H04Q9/00



G06Q30/02 B60W2556/50 B60R25/042 B60R25/08 B60R25/102 B60R25/33 B60R2325/205 B60R2325/304 B60R25/02 B60T7/18 B60T8/4266 B60T8/4863 B60W50/029 F02D41/021 F02D41/042
European: B60R25/02 B60R25/04 B60R25/042 B60R25/08 B60R25/102 B60R25/25B B60R25/25D B60R25/25F B60R25/30B B60R25/30D B60R25/33 B60T7/18 B60T8/42A6 B60T8/48B4D B60W50/029 F02D41/02C G06F17/60 G06Q30/02 G06Q90/00 L60R325/10B L60R325/20D L60R325/30D L60W550/40A R02D41/04B
US: 156/308.4 156/325 156/499 180/17 180/170 180/170S 219/243 219/535 219/544 701/1 701/1P 701/2 701/209 701/209S 701/29 701/29P 701/31.4 701/31.400P 701/36 701/36S 701/400 701/400S 713/193 713/193P 713/200 726/2 726/2P

Family:

Publication number	Publication date	Application number	Application date
AT418451 E	20090115	AT19990930355T	19990618
AU199923221 A1	19990802	AU19990023221	19990115
AU199946908 A1	20000105	AU19990046908	19990618
AU199946908 A5	20000105	AU19990046908	19990618
AU200032439 A1	20000914	AU20000032439	20000225
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AU200057384 A1	20010102	AU20000057384	20000615
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CA2335155 AA	20001214	CA19992335155	19990618
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CA2637877 AA	19991223	CA19992637877	19990618
DE69940161 D1	20090205	DE19996040161	19990618
EP1053138 A1	20001122	EP19990903125	19990115
EP1053138 A4	20030716	EP19990903125	19990115
EP1121245 A1	20010808	EP19990930355	19990618
EP1121245 A4	20040331	EP19990930355	19990618
EP1121245 B1	20081224	EP19990930355	19990618
US2001056544 AA	20011227	US20000738901	20001218
US2003221118 AA	20031127	US20030401041	20030328
US2004049324 AA	20040311	US20030654992	20030905
US2006287783 AA	20061221	US20060439238	20060524
US2008091309 AA	20080417	US20070841234	20070820
US6647328 BB	20031111	US20000738901	20001218
US7259357 BB	20070821	US20030654992	20030905
WO0051360 A1	20000831	WO2000US04737	20000225
WO0078057 A1	20001221	WO2000US16381	20000615
WO0078057 C2	20020711	WO2000US16381	20000615
WO0154044 A1	20010726	WO2001US01645	20010119
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WO9936297 A1	19990722	WO1999US00919	19990115
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Priority:

US19980071392P 19980115	US19980089783P 19980618	WO1999US00999 19990115
WO1999US00919 19990115	US19990122108P 19990226	US19990139759P 19990615
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US20060439238 20060524	US20070841234 20070820	

Probable Assignee: KLINE AND WALKER LLC

Assignee(s): (std): KLINE AND WALKER L L C ; KLINE AND WALKER LLC ; WALKER RICHARD C

Inventor(s): (std): WALKER RICHARD C ; WALKER RICHARD ; RICHARD C WALKER

Agent(s): OSLER HOSKIN AND HARCOURT LLP; MOFFAT AND CO; HOFMANN HARALD ET AL; WILMER CUTLER PICKERING HALE AND DORR LLP; WILMERHALE/NEW YORK; WILMERHALE NEW YORK

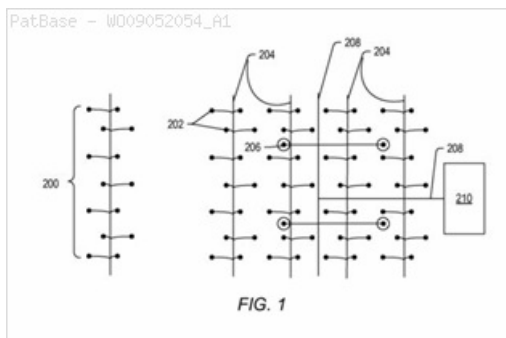
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Title: SYSTEMS, METHODS, AND PROCESSES UTILIZED FOR TREATING SUBSURFACE FORMATIONS

Abstract: Systems, methods, and/or heaters for treating a subsurface formation are described herein. Some embodiments also generally relate to heaters that have novel components therein. Such heaters may be obtained by using the systems and methods described.

Classifications:

International (IPC 8-9): E21C25/04 (Advanced/Invention);
E21C25/00 (Core/Invention)
CPC: E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04
H01J37/32926 H01J37/32935 Y10T29/49083 E21B7/04 E21B43/243
E21B44/00 E21B47/02216 F25J1/00 E21B36/00
European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4
T01F27/38



Family:

Publication number	Publication date	Application number	Application date
WO09052054 A1	20090423	WO2008US79728	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418

Probable Assignee: SHELL OIL CO

Assignee(s): (std): ARORA DHRUV ; AYODELE OLUROPO RUFUS ; BASS RONALD J ; BEER GARY LEE ; COSTELLO MICHAEL SCOTT ; DEN BOESTERT JOHANNES LEENDERT WILLEM CORNELIS ; BURNS DAVID BOOTH ; CRUZ ANTONIO MARIA GUIMARAES LEITE ; CAO RENFANG RICHARD ; BRAVO JOSE LUIS ; CARROLL MARK THOMAS ; CARDINAL PAUL GREGORY ; KIM DONG SUB ; FONSECA OCAMPOS ERNESTO RAPHAEL ; GUIMERANS ROSALVINA RAMONA ; KARANIKAS JOHN MICHAEL ; EDBURY DAVID ALSTON ; LI BUSHENG ; MACDONALD DUNCAN CHARLES ; MARWEDE JOCHEN ; MANSURE ARTHUR JAMES ; HWANG HORNG JYE JAY ; MCKINZIE BILLY JOHN II ; LINEY DAVID JOHN ; MASON STANLEY LEROY ; FOWLER THOMAS DAVID ; HARVEY ALBERT DESTREHAN III ; HARRIS CHRISTOPHER KELVIN ; SHELL INT RESEARCH ; RAGHU DAMODARAN ; MO WEIJAN ; VINEGAR HAROLD J ; MILLER DAVID SCOTT ; SON JAIME SANTOS ; PATNI SANDEEP ; XIE XUEYING ; RYAN ROBERT CHARLES ; STANECKI JOHN ANDREW ; UWECHUE UZO PHILLIP ; SHEN CHONGHUI ; MUYLLE MICHEL SERGE MARIE ; NAIR VIJAY ; NGUYEN SCOTT VINH ; SHELL OIL CO ; VENDITTO JAMES JOSEPH ; PRINCE WRIGHT ROBERT GEORGE ; ROES AUGUSTINUS WILHELMUS MARIA ; RENKEMA DUURT ; SANDBERG CHESTER LEDLIE

Assignee(s): SHELL INT RESEARCH MIJ BV ; SHELL OIL COMPANY ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V

Inventor(s): (std): STANECKI JOHN ANDREW ; BEER GARY LEE ; SHEN CHONGHUI ; MARWEDE JOCHEN ; MANSURE ARTHUR JAMES ; RYAN ROBERT CHARLES ; MACDONALD DUNCAN CHARLES ; LI BUSHENG ; XIE XUEYING ; CRUZ ANTONIO MARIA GUIMARAES LEITE ; KARANIKAS JOHN MICHAEL ; BASS RONALD J ; PATNI SANDEEP ; SON JAIME SANTOS ; MILLER DAVID SCOTT ; EDBURY DAVID ALSTON ; GUIMERANS ROSALVINA RAMONA ; FONSECA OCAMPOS ERNESTO RAPHAEL ; VINEGAR HAROLD J ; MO WEIJAN ; KIM DONG SUB ; BURNS DAVID BOOTH ; RAGHU DAMODARAN ; DEN BOESTERT JOHANNES LEENDERT WILLEM CORNELIS ; COSTELLO MICHAEL SCOTT ; SANDBERG CHESTER LEDLIE ; RENKEMA DUURT ; CARDINAL PAUL GREGORY ; ROES AUGUSTINUS WILHELMUS MARIA ; PRINCE WRIGHT ROBERT GEORGE ; VENDITTO JAMES JOSEPH ; HARRIS CHRISTOPHER KELVIN ; HARVEY ALBERT DESTREHAN III ; FOWLER THOMAS DAVID ; MASON STANLEY LEROY ; CARROLL MARK THOMAS ; LINEY DAVID JOHN ; UWECHUE UZO PHILLIP ; NAIR VIJAY ; BRAVO JOSE LUIS ; MCKINZIE BILLY JOHN II ; HWANG HORNG JYE JAY ; ARORA DHRUV ; MUYLLE MICHEL SERGE MARIE ; AYODELE OLUROPO RUFUS ; NGUYEN SCOTT VINH ; CAO RENFANG RICHARD

Agent(s): CHRISTENSEN DEL S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

42) Family number: 67230564 (US2019086907A)

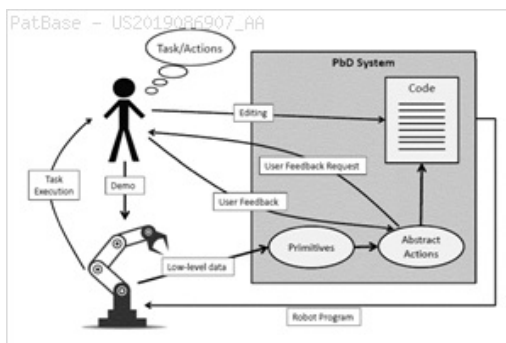
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Title: PROGRAMMING A ROBOT BY DEMONSTRATION

Abstract: There is provided a method and computer program product for programming a robot by manually operating it in gravity-compensation kinesthetic-guidance mode. More specifically there is provided method and computer program product that uses kinesthetic teaching as a demonstration input modality and does not require the installation or use of any external sensing or data-capturing modules. It requires a single user demonstration to extract a representation of the program, and presents the user with a series of easily-controllable parameters that allow them to modify or constrain the parameters of the extracted program representation of the task.

Classifications:

International (IPC 8-9): B25J9/00 B25J9/16 G05B19/4155
G05B19/42 G05B19/423 (Advanced/Invention)
CPC: B25J9/1656 G05B19/42 G05B2219/36433 G05B2219/39137
B25J9/1615 B25J9/163 G05B19/423 B25J9/1664
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
CN108883534 A	20181123	CN201780020196	20170411

EP3442755 A1	20190220	EP20170720690	20170411
TW201737000 A	20171016	TW20170110317	20170328
US2019086907 AA	20190321	US20170087524	20170411
WO17178469 A1	20171019	WO2017EP58642	20170411

Priority:

DK20160070220 20160412 WO2017EP58642 20170411

Probable Assignee: UNIVERSAL ROBOTS AS

Assignee(s): (std): UNIVERSAL ROBOTS AS

Assignee(s): UNIVERSAL ROBOTS A S

Inventor(s): (std): ITURRATE INIGO ; SAVARIMUTHU THIUSIUS RAJEETH ; ITURRATE I IGO ; SAN JUAN INIGO ITURRATE ; OESTERGAARD ESSEN H

Agent(s): ORSNES HENRIK EGEDE; ORSNES HENRIK

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 DJ 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 KH KM KN KP KR KW 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 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

43) Family number: 51780568 (US2012215348A)

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Title: SUBMERSIBLE ROBOTICALLY OPERABLE VEHICLE SYSTEM FOR INFRASTRUCTURE MAINTENANCE AND INSPECTION

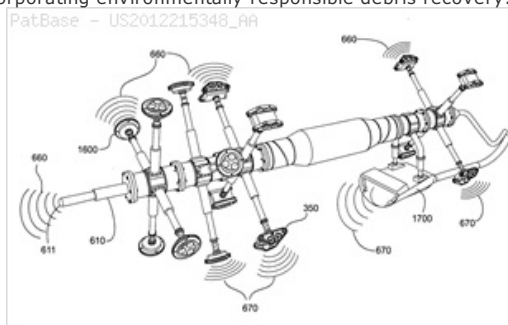
Abstract: A configurable robotic apparatus and system is disclosed that is remotely operable in difficult, hazardous, subterranean, or submerged environs. The apparatus merges diverse disciplines to effect inspecting, cleaning, treating, repairing or otherwise maintaining a wide variety of materials and conditions. Deployment environments include power, municipal water and wastewater plants, surface and submerged infrastructures (pipes, lines, conduits), and like industrial applications. Extensible and articulating modules, configurable through standardized and interchangeable connectors, provide unique flexibility, scalability and versatility to accommodate a wide range of shapes, surfaces, and obstacles. In-module intelligence and instrumentation eliminates the need for constant manual control through autonomous operation capable of simultaneous optimization and synchronization of multiple work processes, but manual override and remote control is provided to overcome unanticipated limitations. Benefits include improved efficiency, cost, and safety over prior art. High-performance, one-pass operation reduces facility downtime while incorporating environmentally responsible debris recovery.

Classifications:

International (IPC 8-9): B08B9/049 B25J11/00 B25J13/00 B25J19/00 B25J3/00 B25J9/00 B25J9/08 B25J9/16 B63B59/10 F16L55/34 G05B19/19 G05D1/00 (Advanced/Invention)

CPC: B25J11/0085 B25J11/008 B25J3/00 B08B9/049 B25J9/163 B25J9/1661 B25J9/1676 B25J9/1689 B25J9/0084 Y10S901/05 B25J9/08

US: 1/1 134/18 700/245 700/245P 700/255 701/2 701/2S 901/5



Family:

Publication number	Publication date	Application number	Application date
US2012215348 AA	20120823	US20110932171	20110219
US2014350722 AA	20141127	US20140120610	20140609
US2016082589 AA	20160324	US20150961169	20151207
US2017217018 AA	20170803	US20170492517	20170420
US8805579 BB	20140812	US20110932171	20110219
US9233466 BB	20160112	US20140120610	20140609
US9656389 BB	20170523	US20150961169	20151207
US10265851 BB	20190423	US20170492517	20170420
WO12112835 A1	20120823	WO2012US25557	20120217

Priority:

US20110932171 20110218 US20110932171 20110219 US20140120610 20140609
US20150961169 20151207 US20170492517 20170420

Probable Assignee: SKRINDE RICHARD A

Assignee(s): (std): SKRINDE RICHARD A ; SKRINDE RICHARD ARTHUR

Inventor(s): (std): SKRINDE RICHARD ARTHUR ; SKRINDE RICHARD A

Agent(s): OSHA LIANG LLP; FOX ROTHSCHILD LLP; CAROL E; THORSTAD FORSYTH CAROL E; PEARSON LOREN DONALD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 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

44) Family number: 77053568 (WO19246455A1)

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Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH AN INTEGRIN INHIBITOR

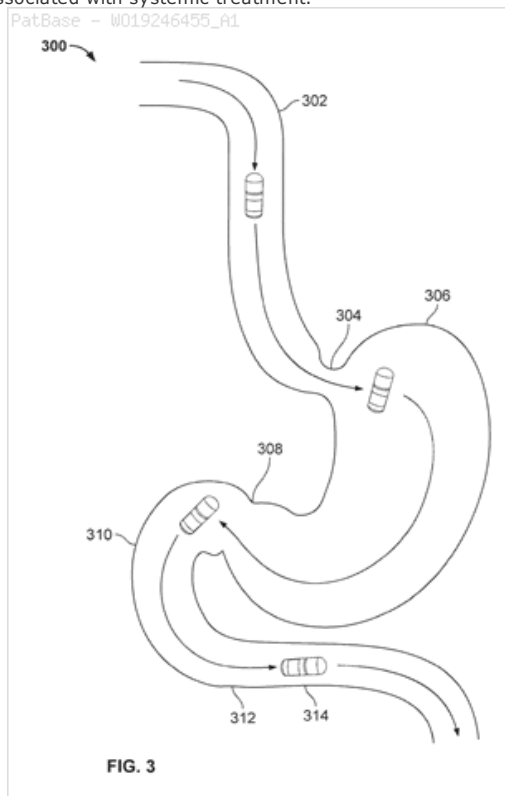
Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with an integrin inhibitor. In particular, the disclosure features the topical treatment of sections and subsections of the gastrointestinal tract by integrin inhibitors (like vedolizumab) using an ingestible device that can detect its whereabouts in the GI tract by

using reflectance and which is programmed to release the drugs at a given site or proximal thereto, to treat gastrointestinal inflammatory diseases. The device has hardware storage devices with instructions on board to determine the location and release the formulations. Combination therapies are claimed as well in which the integrin inhibitor is added systemically and another agent (e.g. JAK inhibitor, TNF-alpha inhibitor or IL-12/IL-23 inhibitor) is added topically by means of the ingestible device. The topical administration is said to reduce the side effects associated with systemic treatment.

Classifications:

International (IPC 8-9): A61K39/395 A61K9/00 C07K16/24 C07K16/28 (Advanced/Invention)

CPC: A61K9/0014 A61K9/0019 A61K9/0031 A61K9/0053 A61K9/0097 A61K9/08 A61K47/02 A61K47/10 A61K47/12 A61K47/183 A61K47/26 A61K2039/505 A61K2039/54 A61K2039/542 C07K16/241 C07K16/244 C07K16/2839 C07K2317/21 C07K2317/76 C07K2317/90



Family:

Publication number	Publication date	Application number	Application date
WO19246455 A1	20191226	WO2019US38330	20190620

Priority:

US20180687546P 20180620 US20180786275P 20181228 US20190805099P 20190213

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY ; HOWE KEVIN DAVID ; PERERA ARUNA ; POTTS BARBARA

Agent(s): CULHANE CRYSTAL L 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

45) Family number: 70171572 (WO18112235A1)

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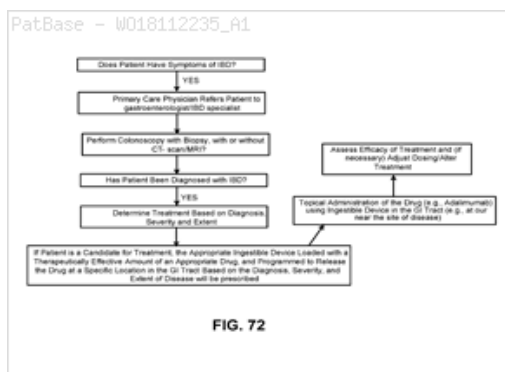
Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A SMAD7 INHIBITOR

Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with a SMAD7 inhibitor.

Classifications:

International (IPC 8-9): A61B5/00 A61K9/00 A61M31/00 (Advanced/Invention)

CPC: A61B5/061 A61B5/14539 A61B2562/162 A61P1/00 A61B5/073 A61B5/42 A61B5/4839 A61B5/6861 A61K9/0019 A61K9/0031 A61K9/0053 A61K9/08 A61K9/10 A61K31/7088 A61K45/06 A61K2039/505 A61K2039/54 A61M31/002 A61P9/00 A61P37/06 C07K16/241 C07K16/244 C07K16/2839 C07K16/2866 C07K16/2875 C07K2317/21 C12N15/113 C12N2310/11 C12N2310/3517



Family:

Publication number	Publication date	Application number	Application date
CA3045472 AA	20190529	CA20173045472	20171214
EP3554345 A1	20191023	EP20170832408	20171214

WO18111323 A1	20180621	WO2017US25082	20170330
WO18112235 A1	20180621	WO2017US66478	20171214

Priority:

US20160434371P 20161214 US20170478846P 20170330 US20170545311P 20170814
US20170583823P 20171109 WO2017US66478 20171214

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Assignee(s): SINGH SHARAT ; STYLLI HARRY ; WAHL CHRISTOPHER LOREN ; JONES MITCHELL LAWRENCE

Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY

Agent(s): SMART AND BIGGAR; MEWBURN ELLIS LLP; DORIGO ANDREA ET AL; REITER TIFFANY 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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

46) Family number: 70171573 (US2019321613A)

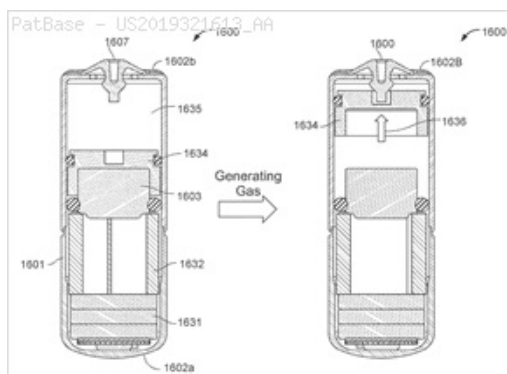
© PatBase

Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A TLR MODULATOR

Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with a TLR agonist.

Classifications:

International (IPC 8-9): A61B1/04 A61B1/273 A61B5/00 A61K31/519 A61K31/7088 A61K35/17 A61K9/00 A61M31/00 A61M5/30 A61P1/04 C07K16/24 C07K16/28 (Advanced/Invention)
CPC: A61B5/061 A61B5/073 A61B5/14539 A61B2562/162 A61K9/0019 A61K9/0056 A61K9/009 A61K9/0095 A61K9/02 A61K9/08 A61K9/10 A61K9/107 A61K9/2004 A61K9/48 C07K2317/24 A61M5/30 A61B1/273 A61K31/519 A61B5/4842 A61B5/42 C07K16/2818 C07K16/2827 A61K35/17 A61P1/04 A61B1/041 A61K9/0065 A61M2205/50 A61M2205/3327 A61M2210/1064 A61M2205/3317 A61M2205/3306 A61M2205/3337 A61M2205/3561 A61M2205/3303 A61M2205/3313 A61M2205/3523 A61K31/7088 A61B5/0084 A61B5/4839 A61B5/6861 A61K2039/505 A61K2039/54 A61K2039/542 A61M31/002 A61P1/00 A61P37/00 C07K16/241 C07K16/244 C07K16/2839 C07K2317/21 C07K2317/76



Family:

Publication number	Publication date	Application number	Application date
CA3046019 AA	20190603	CA20173046019	20171214
EP3554344 A1	20191023	EP20170832406	20171214
US2019321613 AA	20191024	US20170467784	20171214
WO18111324 A1	20180621	WO2017US25086	20170330
WO18112223 A1	20180621	WO2017US66459	20171214

Priority:

US20160434366P 20161214 US20170478840P 20170330 US20170545219P 20170814
US20170583800P 20171109 US20170467784 20171214 WO2017US66459 20171214

Probable Assignee: PROGENITY INC

Assignee(s): (std): PROGENITY INC

Assignee(s): SINGH SHARAT ; STYLLI HARRY ; WAHL CHRISTOPHER LOREN ; JONES MITCHELL LAWRENCE

Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY

Agent(s): SMART AND BIGGAR; MEWBURN ELLIS LLP; DORIGO ANDREA ET AL; REITER TIFFANY 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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

47) Family number: 70171574 (WO18112245A1)

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Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A JAK INHIBITOR AND DEVICES

Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with a JAK inhibitor.

Classifications:

International (IPC 8-9): A61B5/00 A61K31/00 A61K31/519 A61K31/546 A61K39/00 A61K39/395 A61K45/00 A61K45/06 A61K47/02 A61K47/34 A61K9/00 A61K9/08 A61K9/107 A61M31/00 A61P1/00 A61P1/04 A61P29/00 A61P35/00 A61P43/00 G01N33/68 (Advanced/Invention)
International (IPC 1-7): A61K31/00 A61K31/519 A61K9/00 A61P35/00
CPC: A61K31/546 A61K39/395 A61K45/06 A61K9/0009 A61K9/0053 A61K9/0056 A61K9/0097 A61P1/00 A61P1/04 A61B1/041 A61B5/01 A61B5/024 A61B5/053 A61B5/11 A61B5/14539 A61B5/4887 A61B5/6861 A61K9/0004 A61K31/541 A61K9/08 A61K9/10

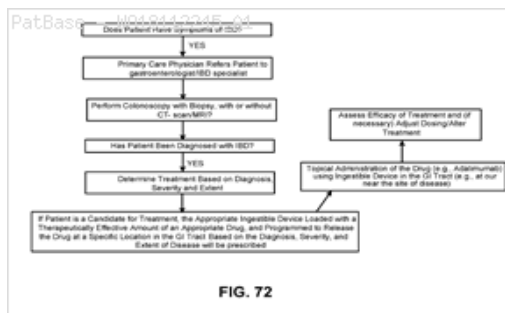


FIG. 72

Family:

Publication number	Publication date	Application number	Application date
AU2017378398 AA	20190613	AU20170378398	20171214
BR112019012062 A2	20191112	BR20191112062	20171214
CA3045666 AA	20190530	CA20173045666	20171214
CN110072519 A	20190730	CN201780077484	20171214
EP3554485 A1	20191023	EP20170826643	20171214
IN201917027736 A	20190913	IN201917027736	20190711
JP2020502126 T2	20200123	JP20190531761T	20171214
KR20190097107 A	20190820	KR20197019708	20171214
MX2019006821 A1	20191021	MX20190006821	20171214
WO18111327 A1	20180621	WO2017US25117	20170330
WO18112245 A1	20180621	WO2017US66492	20171214

Priority:

US20160434374P 20161214 US20170478919P 20170330 US20170545380P 20170814
 US20170583832P 20171109 WO2017US66492 20171214

Probable Assignee: PROGENITY INC**Assignee(s):** (std): PROGENITY INC**Assignee(s):** SINGH SHARAT ; STYLLI HARRY ; WAHL CHRISTOPHER LOREN ; JONES MITCHELL LAWRENCE**Inventor(s):** (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY ; MITCHELL LAWRENCE JONES ; SHARAT SINGH ; CHRISTOPHER LOREN WAHL ; HARRY STYLLI**Agent(s):** DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; MEWBURN ELLIS LLP; DORIGO ANDREA ET AL; REITER TIFFANY 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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

48) Family number: 43872583 (US2009260823A)

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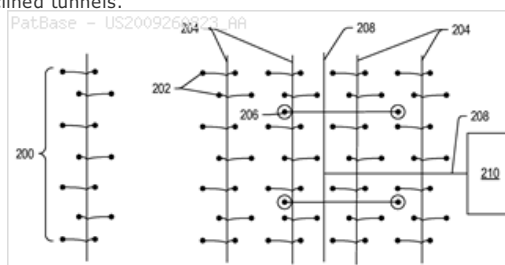
Title: MINES AND TUNNELS FOR USE IN TREATING SUBSURFACE HYDROCARBON CONTAINING FORMATIONS

Abstract: A system for treating a subsurface hydrocarbon containing formation includes one or more substantially horizontal or inclined tunnels extending from at least one shaft. One or more heater sources are located in one or more heater wellbores coupled to at least one of the substantially horizontal or inclined tunnels.

Classifications:**International (IPC 8-9):** E21B36/00 (Advanced/Invention);

E21B36/00 (Core/Invention)

CPC: E21B7/068 E21B3/00 E21B4/04 E21B47/06 C10G21/22 C10G21/28 C10G2300/207 C10G2300/301 C10G2300/302 C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42 C10G2300/807 C10G2400/02 E21B7/18 E21B10/003 E21B19/08 E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04 E21B43/119 E21B43/2401 E21B43/2403 E21B43/243 E21B43/281 E21B43/30 E21B43/305 E21B47/022
US: 166/302

**Family:**

Publication number	Publication date	Application number	Application date
US2009260823 AA	20091022	US20090422094	20090410

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422094 20090410

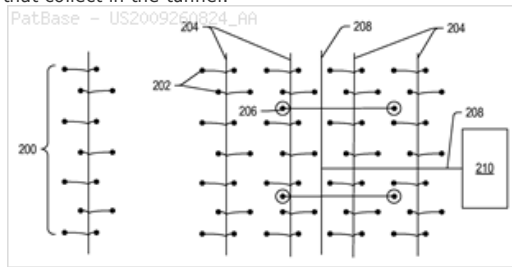
Probable Assignee: SHELL OIL CO**Assignee(s):** (std): BURNS DAVID BOOTH ; HWANG HORNG JAY ; MACDONALD DUNCAN CHARLES ; MARWEDE JOCHEN ; PRINCE WRIGHT ROBERT GEORGE**Assignee(s):** SHELL OIL CO**Inventor(s):** (std): PRINCE WRIGHT ROBERT GEORGE ; BURNS DAVID BOOTH ; MACDONALD DUNCAN CHARLES ; HWANG HORNG JAY ; MARWEDE JOCHEN**Agent(s):** SHELL OIL COMPANY; SHELL OIL CO

Title: HYDROCARBON PRODUCTION FROM MINES AND TUNNELS USED IN TREATING SUBSURFACE HYDROCARBON CONTAINING FORMATIONS

Abstract: A system for treating a subsurface hydrocarbon containing formation includes one or more substantially horizontal or inclined tunnels extending from one or more shafts. A production system is located in at least one of the tunnels. The production system is configured to produce fluids from the formation that collect in the tunnel.

Classifications:

International (IPC 8-9): E21B36/00 (Advanced/Invention);
E21B36/00 (Core/Invention)
CPC: E21B7/068 E21B3/00 E21B4/04 E21B47/06 C10G21/22
C10G21/28 C10G2300/207 C10G2300/301 C10G2300/302
C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42
C10G2300/807 C10G2400/02 E21B7/18 E21B10/003 E21B19/08
E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04
E21B43/119 E21B43/2401 E21B43/2403 E21B43/243 E21B43/281
E21B43/30 E21B43/305 E21B47/022
US: 166/302 166/57 166/575



Family:

Publication number	Publication date	Application number	Application date
US2009260824 AA	20091022	US20090422104	20090410

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422104 20090410

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; MACDONALD DUNCAN CHARLES ; MARWEDE JOCHEN ; PRINCE WRIGHT ROBERT GEORGE

Assignee(s): SHELL OIL CO

Inventor(s): (std): MARWEDE JOCHEN ; MACDONALD DUNCAN CHARLES ; BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; PRINCE WRIGHT ROBERT GEORGE

Inventor(s): HWANG HORNG JYE (JAY)

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

Title: HIGH DENSITY SEQUENCE DETECTION METHODS AND APPARATUS

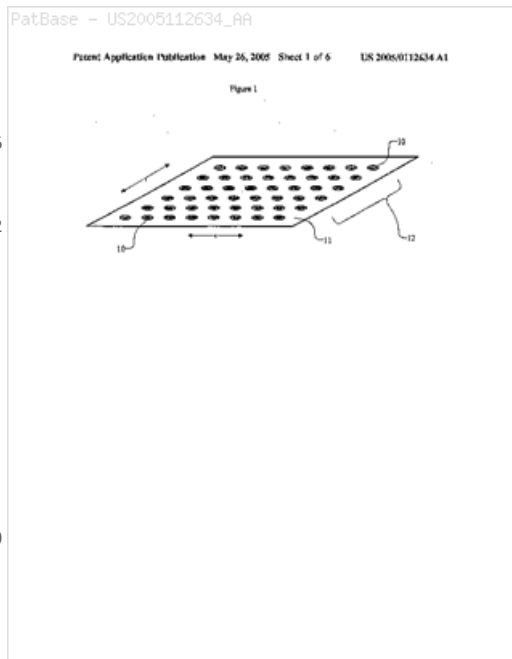
Abstract: Methods for amplifying polynucleotides, e.g., by PCR, in a sample comprising polynucleotide targets present at very low concentration, comprising: (a) applying amplification reactants to the surface of a substrate comprising reaction spots, wherein the reactants comprise the sample and an amplification reagent; (b) forming a sealed reaction chamber, having a volume less than about 120 nanoliters, preferably less than about 20 nanoliters, over each of said reaction spots; and (c) thermal cycling the substrate and reactants. In one embodiment, the forming step comprises loading a sealing fluid, e.g., mineral oil, on the surface so as to cover the reaction spots. The present invention also provides microplates, comprising: (a) a substrate having at least about 10,000 reaction spots, each comprising a primer and a droplet of reagent having a volume less than about 120 nanoliters, preferably less than about 20 nanoliters; and (b) a sealing liquid isolating each of the spots.

Classifications:

International (IPC 8-9): B01J19/00 B01L11/00 B01L3/00 B01L3/02
B01L7/00 B01L9/00 B29C65/00 B29C65/02 B29C65/10 B32B1/08
B32B33/00 B32B37/00 B32B37/02 B65B3/04 B67C3/00 B81B1/00
C07H21/00 C12M1/00 C12M1/14 C12M1/22 C12M1/32 C12M1/34
C12M1/36 C12M1/38 C12M1/42 C12M3/00 C12N15/09 C12N15/10
C12P19/34 C12Q1/68 C40B30/00 C40B30/04 C40B30/10 C40B40/06
C40B60/12 G01J11/10 G01J11/42 G01J3/02 G01N1/10 G01N1/14
G01N15/06 G01N21/00 G01N21/03 G01N21/25 G01N21/63
G01N21/64 G01N31/00 G01N33/00 G01N33/48 G01N33/50
G01N33/68 G01N35/00 G01N35/02 G01N35/04 G01N37/00 G02B7/02
G06F15/16 G06F17/50 G06F19/00 G06F19/20 G06Q10/00
H01L27/146 H01L27/148 H04N5/217 H04N5/225 H04N5/357
H04N5/361 H04N5/367 H04N5/372 (Advanced/Invention);
B01L3/02 B01L7/00 B01L9/00 B01L99/00 C12Q1/68 G01N21/27
G01N35/00 G01N35/04 G01N35/10 (Advanced/Non-invention);
B01L3/00 B01L3/02 B29C65/00 B29C65/02 B29C65/10 B32B1/00
B32B33/00 B32B37/00 B32B37/02 B67C3/00 C12M1/00 C12M1/14
C12M1/26 C12M1/34 C12M1/36 C12M3/00 C12N15/09 C12P19/00
C12Q1/68 C40B30/10 G01J3/00 G01N15/06 G01N21/00 G01N21/25
G01N21/63 G01N21/64 G01N35/00 G01N37/00 G06F15/16
G06F17/50 H01L27/148 H04N5/217 (Core/Invention);
B01L7/00 (Core/Non-invention);
B01L C12N G01N G06F (Subclass/Invention)

International (IPC 1-7): B01L3/00 C12M1/34 C12P19/34 C12Q1/68
G01N1/10 G01N21/03 G01N21/25 G01N33/00 G01N33/48 G01N33/50
G01N35/00 G06F17/50 G06F19/00

CPC: G01N35/04 B01L2200/0621 B01L2300/0654 B01L2300/0874
B01L2300/0887 C12Q1/6806 B01L3/50857 B01L7/525 B01L2200/027
B01L2300/0819 C12Q1/6837 H04L51/28 H04L51/12 C12N15/1072
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B01L3/0262 B01L3/5085 B01L2200/026 B01L2200/0647 B01L3/0268
B01L3/5088 B01L2200/12 B01L2200/143 B01L2300/0816 B01L2400/0439 G01N35/1016 G01N2035/1034 Y10T436/10
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G01N2035/042 G01N21/6428 H04N5/361 H04N5/367 B01L2200/0684 B01L3/502707 B01L3/502715 G01N21/553 B32B38/10
B32B2038/047 C12Q1/6816 C12Q1/686 C12Q2600/166 G16H10/40 G16B25/00 G01N21/648 G01N21/253 B01L3/563
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B01L3/5027C B01L3/5085 B01L3/50851 B01L3/50853 B01L3/50857 B01L3/563 B01L7/52 B29C65/48 B29C66/534
B29C66/81267 B29C66/81455 B29C66/8266 C12Q1/68A4 C12Q1/68D2C C12Q1/68D2C+545/113+545/101 C40B30/04
D03C19/00 D03J1/10 D05C15/26 D06P5/00T D06Q1/00 D21F1/00E G01N21/25B2 G01N21/64H G01N21/64P2 G01N21/64P8
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S01N35/10F4 S01N35/10F4A S01N35/10F4B S01N35/10M5 S06F217/32
US: 1/1 141/1 141/130 141/1P 156/250 156/250S 156/499 156/499S 156/542 156/556 156/556S 250/208.1 250/208.100P
250/234 250/234P 250/252.1 250/370.08 250/453.11 250/453.110P 250/458.1 250/459.1 348/241 348/250 348/E05.081
348/E5.081 356/218 356/219 356/236 356/236P 356/243.1 356/243.100P 356/246 356/246P 356/307 356/317 356/318
356/414 356/414P 356/417 356/418 359/811 359/819 359/822 359/823 359/824 422/100 422/100P 422/100S 422/102
422/103 422/104 422/109 422/400 422/400P 422/400S 422/501 422/502 422/503 422/504 422/504P 422/507 422/509
422/509P 422/520 422/520S 422/521 422/521S 422/552 422/552P 422/63 422/63P 422/82.12 422/99 422/99P 422/99S
428/40.1 428/40.100 428/40.100P 428/41.8 428/41.800P 435/287.1 435/287.2 435/287.200 435/287.200S 435/287.9
435/288.4 435/288.7 435/289.1 435/294.1 435/303.1 435/303.100S 435/305.3 435/305.300P 435/6 435/6.1 435/6.100S
435/6.11 435/6.110P 435/6.110S 435/6.12 435/6.120P 435/6.14 435/6.140P 435/6.16 435/6.160P 435/6.18 435/6.180P
435/6.19 435/6.190P 435/6P 435/6S 435/91.1 435/91.100 435/91.100P 435/91.2 435/91.200 435/91.200P 435/91.200S
436/180 436/180P 436/180S 436/8 436/8P 506/12 506/12P 506/16 506/16S 506/37 506/38 506/39 506/39P 506/7 506/7P
506/9 506/9P 536/25.3 536/25.300 536/25.300S 702/19 702/19P 702/20 702/20P 702/20S 702/85 705/7.12 709/206

Family:

Publication number	Publication date	Application number	Application date
DE602005045904 D1	20150402	DE200560045904T	20050804
DE602006036558 D1	20130725	DE200660036558T	20060321
EP1670944 A2	20060621	EP20040788815	20040917
EP1670944 A4	20121205	EP20040788815	20040917
EP1670945 A2	20060621	EP20040788854	20040917
EP1779091 A2	20070502	EP20050783340	20050804
EP1779091 B1	20150225	EP20050783340	20050804
EP1869158 A2	20071226	EP20060739280	20060321
EP1869158 A4	20110119	EP20060739280	20060321
EP1869158 B1	20130529	EP20060739280	20060321
EP2010326 A2	20090107	EP20070754750	20070330
EP2010326 A4	20090506	EP20070754750	20070330
JP2008509399 T2	20080327	JP20070525063T	20050804
US2005112634 AA	20050526	US20040944686	20040917
US2005220675 AA	20051006	US20050087077	20050322
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US2005221358 AA	20051006	US20050087086	20050322
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US2005226780 AA	20051013	US20050087105	20050322
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US2014323358 AA	20141030	US20140326243	20140708
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US2017276609 AA	20170928	US20170480530	20170406
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US7429479 BB	20080930	US20070766119	20070621
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US7570443 BB	20090804	US20050086275	20050322
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US7715004 BB	20100511	US20080220763	20080728
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US9651495 BB	20170516	US20140271173	20140506
WO05026863 A2	20050324	WO2004CA01626	20040916
WO05026863 A3	20050609	WO2004CA01626	20040916
WO05028109 A2	20050331	WO2004US30489	20040917
WO05028109 A3	20050714	WO2004US30489	20040917
WO05028109 B1	20050901	WO2004US30489	20040917
WO05028110 A2	20050331	WO2004US30788	20040917
WO05028110 A3	20050818	WO2004US30788	20040917
WO05028110 B1	20051006	WO2004US30788	20040917
WO05028629 A2	20050331	WO2004US30520	20040917
WO05028629 A3	20060608	WO2004US30520	20040917
WO05029041 A2	20050331	WO2004US30805	20040917
WO05029041 A3	20060727	WO2004US30805	20040917
WO06017810 A2	20060216	WO2005US28066	20050804
WO06017810 A3	20060420	WO2005US28066	20050804
WO06017810 C1	20060615	WO2005US28066	20050804
WO06102296 A2	20060928	WO2006US10171	20060321
WO06102296 A3	20070222	WO2006US10171	20060321
WO06102297 A1	20060928	WO2006US10172	20060321
WO06102298 A1	20060928	WO2006US10173	20060321
WO06102352 A2	20060928	WO2006US10291	20060321
WO06102352 A3	20070719	WO2006US10291	20060321
WO06102396 A2	20060928	WO2006US10373	20060321
WO06102396 A3	20070329	WO2006US10373	20060321
WO06102401 A2	20060928	WO2006US10383	20060322
WO06102401 A3	20071018	WO2006US10383	20060322
WO06102414 A2	20060928	WO2006US10408	20060322
WO06102414 A3	20071122	WO2006US10408	20060322
WO06102415 A2	20060928	WO2006US10409	20060322
WO06102415 A3	20090416	WO2006US10409	20060322
WO06102421 A2	20060928	WO2006US10424	20060321

WO06102421 A3	20061130	WO2006US10424	20060321
WO06102421 C2	20070308	WO2006US10424	20060321
WO07117445 A2	20071018	WO2007US08275	20070330
WO07117445 A3	20081023	WO2007US08275	20070330

Priority:

CA20032441481	20030918	CA20032441481	20030918	US20030504052P	20030919
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Probable Assignee: APPLIED BIOSYSTEMS LLC

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Assignee(s): LIFE TECHNOLOGIES CARLSBAD CORP ; BANK OF AMERICA NA AS COLLATERAL AGENT ; BANK OF AMERICA NA COLLATERAL AGENT AS ; APPLIED BIOSYSTEMS INC ; KAO H ; LIFE TECHNOLOGIES CORP CARLSBAD

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM 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 MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VU YN YU ZA ZM ZW

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Title: CONTINUOUS PACKAGING IN ENCLOSED CONDUITS

Abstract: The invention relates to a package having a first web defining a cavity and a second web bonded to the first web, wherein the second web includes microperforations at a location that is specific to minimize the escape of liquids from the

cavity to the exterior of the package. In one particular embodiment, the first web defines a four sided cavity with walls and corresponding flaps attached to the walls that can be folded and bonded to the cavity walls. The second web is an overwrapping lidding web, wherein microperforations are provided on the web material so that the microperforations are aligned with a flap recess, which in turn is in communication with the interior of the tray cavity. In this manner, suitable gas exchange can occur with minimal to no escape of liquids from the tray cavity.

Classifications:

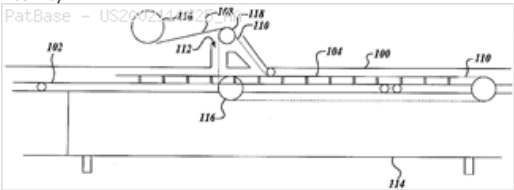
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CPC: A61L2/20 A61L2/22 B01D21/262 B04B1/20 A22C17/00 A23L3/3445 A23V2200/10 A23V2250/11 A23J1/02 B01D21/34 A23L5/20 A23L5/23 Y02E50/30 G06Q30/0621 G01N33/12 B01D21/245 A23L1/31 A23L3/3409 A23L13/60 B65D77/2008 A23B4/00 A23B4/12 A23L3/3418 A23L13/00 B65B31/028 B65B51/02 B65D81/261 B65D81/263 B29C65/4815 B29C65/4825 B29C65/7894 B29C66/1122 B29C66/24244 B29C66/344 B29C66/53461 B29C66/71 B29C66/83413 B29C66/83421 B29C66/83531 B29C2795/002 B29K2027/06 B29L2031/712 B65B7/162 A22B5/0029 A22B5/0041 A22C17/10 A23B4/10 A23B4/16 B65B7/164 B65B25/067 B65D21/062 B65D21/066 B65D77/2024 B65D81/2076 B65D81/264 B65D81/267 B65D81/268 B65D81/28 A23B4/20 A23B4/24 A23B4/26 A23L3/0155 A23V2002/00 A22C17/08 B01D21/02 B01D21/2405 B01D21/2433 B01D21/2444 B01D21/2461 B01D21/2494 B01D21/26 B01D2221/06

European: A22B5/00B2 A22B5/00B4 A22C17/00 A22C17/08 A22C17/10 A23B4/00 A23B4/10 A23B4/12 A23B4/16 A23B4/20 A23B4/24 A23B4/26 A23L1/015 A23L1/015C A23L1/31 A23L1/317 A23L3/015F A23L3/3409 A23L3/3418 A23L3/3445 A61L2/20C A61L2/22 B01D21/02 B01D21/24A B01D21/24D B01D21/24G B01D21/24N4 B01D21/24V B01D21/30 B29C65/48 B29C66/344 B29C66/534 B65B25/06D1 B65B31/02F2 B65B7/16B B65B7/16B1 B65D21/06B B65D21/06D B65D77/20B1 B65D77/20E B65D81/20F1 B65D81/26E B65D81/26F1 B65D81/26F2 B65D81/28 B65G47/61 G06Q30/0621 K23V2/00 L01D21/26 L01D221/06 L29C65/48B2F L29C65/48B4 L29C795/00B L29K27/06 L29L31/712 Y02E50/30

US: 1/1 123/44.00RS 123/44R 156/164 156/292 156/292S 156/494 156/494S 180/165 220/675 422/255 422/255S 422/261 422/268 422/269 422/273 422/274 422/275 426/108 426/118 426/127 426/127S 426/129 426/129P 426/2 426/231 426/231P 426/231S 426/232 426/235 426/235P 426/2P 426/312 426/312P 426/312S 426/315 426/315P 426/316 426/320 426/321 426/321P 426/326 426/326P 426/332 426/335 426/335S 426/35 426/35P 426/383 426/383P 426/392 426/392P 426/392S 426/393 426/393S 426/394 426/394S 426/395 426/398 426/398P 426/416 426/416S 426/417 426/417S 426/425 426/437 426/442 426/442P 426/478 426/478P 426/480 426/480P 426/480S 426/495 426/506 426/518 426/518S 426/519 426/524 426/574 426/641 426/646 426/656 44/307 44/307S 44/308 44/308S 44/589 44/605 44/628 452/150 452/150S 452/155 452/155S 452/173 452/173S 53/478 53/478P 705/1 705/1.1 705/1.100S 705/26 705/26.5



Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SAFEFRESH TECHNOLOGIES LLC

Assignee(s): (std): ATKINSON KEVAN J ; CASE READY SOLUTIONS LLC ; GARWOOD ANTHONY J ; GARWOOD ANTHONY J M ; STEPHENS ROBERT M ; SAFEFRESH TECHNOLOGIES LLC ; AGB LLC ; GARWOOD NICHOLAS J

Assignee(s): STONE MICHAEL ; TIMMERMAN SF LLC ; MILLER ANDREW W ; AMERICAN BEEF PROCESSING LLC ; ANTHONY J GARWOOD ; GARWOOD ANTHONY JM ; FEFRESH TECHNOLOGIES LLC SA

Inventor(s): (std): ANTHONY JM GARWOOD ; ANTHONY J GARWOOD ; ANTHONY J M GARWOOD ; ANTHONY J ; GARWOOD NICHOLAS J ; GARWOOD ANTHONY J ; GARWOOD ANTHONY J M ; ATKINSON KEVAN J ; STEPHENS ROBERT M

Inventor(s): GARWOOD ANTHONY ; GARWOOD ANTHONY JM ; ROBERT M STEPHENS ; KEVAN J ATKINSON

Agent(s): FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; SMART AND BIGGAR; CHRISTENSEN OCONNOR JOHNSON KINDNESS PLLC; FOLEY AND LARDNER; CHRISTENSEN O'CONNOR JOHNSON KINDNESS PLLC; FOLEY AND LARDNER LLP; CHRISTENSEN; JOHNSON KINDNESS PLLC

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

Title: CONTINUOUS SUBSURFACE HEATER TEMPERATURE MEASUREMENT

Abstract: A method for assessing one or more temperatures of an electrically powered subsurface heater includes accessing an impedance profile of the electrically powered subsurface heater while the heater is being operated in the subsurface. The impedance profile is analyzed with a frequency domain algorithm to assess one or more temperatures of the heater.

Classifications:

International (IPC 8-9): G01R27/00 (Advanced/Invention);

G01R27/00 (Core/Invention)

CPC: E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04

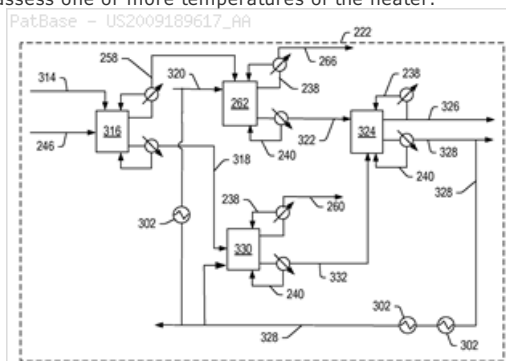
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E21B44/00 E21B47/02216 F25J1/00 E21B36/00

European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4

T01F27/38

US: 324/649 324/649P

**Family:**

Publication number	Publication date	Application number	Application date
US2009189617 AA	20090730	US20080250303	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 US20080250303 20081013

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BURNS DAVID ; SANDBERG CHESTER LEDLIE

Assignee(s): SHELL OIL CO

Inventor(s): (std): BURNS DAVID ; SANDBERG CHESTER LEDLIE

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

Title: INTEGRATED SYSTEMS AND METHODS FOR DIVERSITY GENERATION AND SCREENING

Abstract: Integrated systems and methods for diversity generation and screening are provided. The systems use common fluid and array handling components to provide nucleic acid diversification, transcription, translation, product screening and subsequent diversification reactions.

Classifications:

International (IPC 8-9): C12M1/00 C12N15/09 C12N15/10

C12P19/34 C12Q1/68 C40B60/04 G01N33/48 G01N33/53 G01N35/00

G01N37/00 G06F19/00 (Advanced/Invention);

C12M1/00 C12N15/09 G01N33/53 G01N37/00 (Advanced/Non-

invention)

International (IPC 1-7): C12M1/00 C12M1/34 C12N15/09 C12N15/10

C12Q1/68 G01N33/48 G01N33/50 G01N33/53 G01N35/00

G01N37/00 G06F19/00

CPC: Y02A90/22 C12N15/1031 B01J19/0046 B01J2219/00378

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B01J2219/00695 B01J2219/007 B01J2219/00722 B82Y30/00

C12N15/1027 C40B60/04 G16B20/00

European: B01J19/00C B82Y30/00 C12N15/10B2 C12N15/10B4

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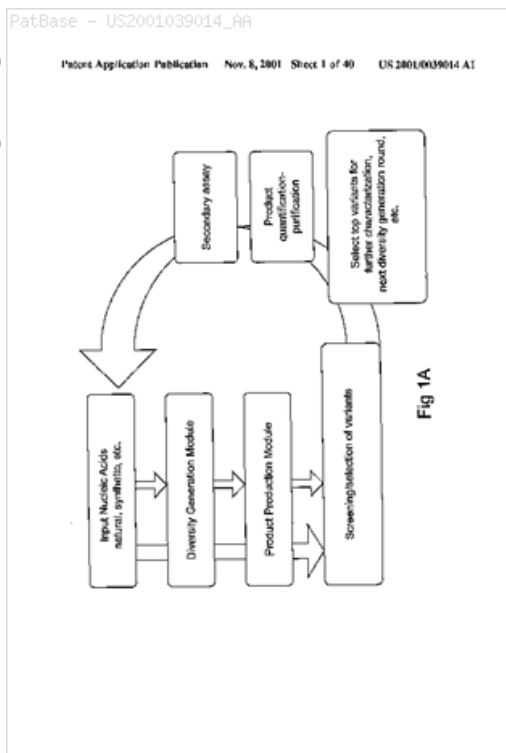
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US: 435/287.2 435/287.200S 435/5 435/6 435/6.11 435/6.110P

435/6.13 435/6.18 435/6.180S 435/6P 435/91.1 435/91.2 506/35

506/35P 702/2 702/20 702/20S

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: CODEXIS MAYFLOWER HOLDINGS LLC

Assignee(s): (std): DAVIS S CHRISTOPHER ; EMIG ROBIN ; MAXYGEN INC ; PATTEN PHILLIP A ; TOBIN MATTHEW ; MINSHULL JEREMY ; WELCH MARK ; GUSTAFSSON CLAES ; JENNE STEPHANE ; RAILLARD SUN AI ; STEMMER WILLEM P C ; LONGCHAMP PASCAL ; GOLDMAN STANLEY ; GIVER LORRAINE J ; AFFHOLTER JOSEPH A ; BASS STEVEN H ; CARR BRIAN ; CODEXIS MAYFLOWER HOLDINGS LLC ; CRAMERI ANDREAS

Assignee(s): DAVIS S ; STEMMER WILLEM P

Inventor(s): (std): TOBIN MATTHEW ; MINSHULL JEREMY ; WELCH MARK ; GUSTAFSSON CLAES ; CARR BRIAN ; JENNE STEPHANE ; RAILLARD SUN AI ; CRAMERI ANDREAS ; EMIG ROBIN ; LONGCHAMP PASCAL ; GOLDMAN STANLEY ; BASS STEVEN H ; DAVIS S CHRISTOPHER ; PATTEN PHILLIP A ; STEMMER WILLEM P C ; GIVER LORRAINE J ; AFFHOLTER JOSEPH A ; LONGSCHAMP PASCAL ; GUSTAFSSON CLAUS ; STEMMER WILLEM P ; RAILLARD SUN A ; DAVIS S C ; MINSHULL JEREMY S ; JENNE STEPHAN J ; DAVIS SIMON CHRISTOPHER

Inventor(s): BASS STEVEN ; STEMMER WILLEM ; AFFHOLTER JOSEPH ; RAILLARD SUN ; GIVER LORRAINE ; PATTEN PHILLIP ; DAVIS S ; STEPHANE JENNE ; LORRAINE J GIVER ; CLAES GUSTAFSSON ; PASCAL LONGCHAMP ; STANLEY GOLDMAN ; JOSEPH A AFFHOLTER ; MARK WELCH ; WILLEM P C STEMMER ; SUN AI RAILLARD ; STEVEN H BASS ; ANDREAS CRAMERI ; MATTHEW TOBIN ; PHILLIP A PATTEN ; BRIAN CARR ; S CHRISTOPHER DAVIS ; ROBIN EMIG ; JEREMY MINSHULL ; STEMMER WILLEM PC

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO; MAXYGEN INC INTELLECTUAL PROPERTY DEPARTMENT; FUJITA SHARON M; QUINE JONATHAN A; KRUSE NORMAN J; JONATHAN A; NORMAN J; SHARON M; WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

54) Family number: 58337684 (US2015021094A)

© PatBase

Title: DUAL MOTOR SYSTEMS AND NON-ROTATING SENSORS FOR USE IN DEVELOPING WELLBORES IN SUBSURFACE FORMATIONS

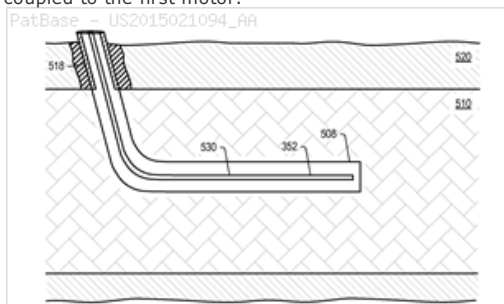
Abstract: A method for forming a subsurface wellbore is disclosed. The method includes operating a drilling string in a first direction of rotation. A first motor located near the end of the drilling string is operated in a direction of rotation opposite that of the drilling string. A drill bit is rotated using a second motor that is coupled to the first motor.

Classifications:

International (IPC 8-9): C10G21/22 C10G21/28 E21B10/00 E21B19/08 E21B21/00 E21B21/08 E21B3/00 E21B36/00 E21B36/02 E21B36/04 E21B4/04 E21B4/16 E21B43/119 E21B43/24 E21B43/243 E21B43/28 E21B43/30 E21B47/022 E21B47/06 E21B7/06 E21B7/18 (Advanced/Invention)

CPC: E21B7/068 E21B4/04 E21B3/00 E21B47/06 C10G21/22 C10G21/28 C10G2300/207 C10G2300/301 C10G2300/302 C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42 C10G2300/807 C10G2400/02 E21B7/18 E21B10/003 E21B19/08 E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04 E21B43/119 E21B43/2401 E21B43/2403 E21B43/243 E21B43/281 E21B43/30 E21B43/305 E21B47/022

US: 175/104 175/48 175/57 175/61



Family:

Publication number	Publication date	Application number	Application date
US2015021094 AA	20150122	US20140305621	20140616
US9528322 BB	20161227	US20140305621	20140616

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422110 20090410
US20140305621 20140616

Probable Assignee: SHELL OIL CO

Assignee(s): (std): SHELL OIL CO

Inventor(s): (std): MACDONALD DUNCAN CHARLES

55) Family number: 34618710 (US2007149098A)

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Title: ROBOT SYSTEM AND METHOD FOR BALL LOADING FOR LOADING INTO SAG AND/OR BALL MILLS IN ORE CONCENTRATION PROCESSES

Abstract: At present, ball loading into SAG mills should be carried out as part of the maintenance procedure that SAG mills should be subjected to. The disadvantage of this procedure is that the automatic dosing unit regularly clogs, and it must be loaded manually. Similarly, the low storage capacity requires the continuous use of the crane. Due to the above, a robot system and method have been developed which are able to carry out this task automatically, in order to automate the ball loading operation in SAG mills by reducing the time used for maintenance. The robotic system is composed mainly of a robotic manipulator (1) of at least 5 degrees of freedom, and a grip mechanism (2) which allows, in a sequential and programmed way, to take, manipulate and release, from a ball holder rack (3) located at one of its sides, a certain number of grinding balls to be defined later (4), which are moved through a defined path to the inside of the SAG mill (5) in which they are deposited.

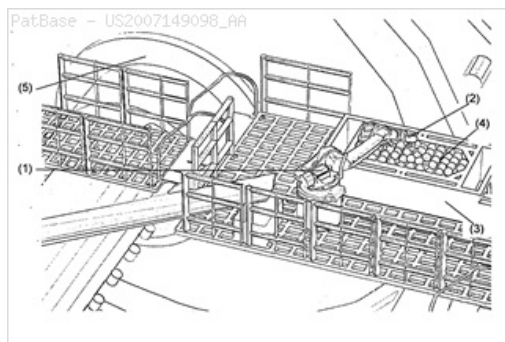
Classifications:

International (IPC 8-9): A47J17/18 B02C23/00 B08B9/027 B22D11/20 B23P19/02 B24B1/00 B25J11/00 B66C1/00 G05B15/00 G06F19/00 (Advanced/Invention); A47J17/00 B02C23/00 B08B9/02 B22D11/20 B23P19/02 B24B1/00 B66C1/00 G05B15/00 G06F19/00 (Core/Invention)

CPC: B02C17/205 B25J11/00 Y10S901/41 Y10S901/44 Y10S901/46 Y10S901/47 B22D25/04 B22D29/04 B22D5/02 B25J9/1697 G05B2219/37208 G05B2219/45063 B02C23/00 B25J9/0018 B25J9/1669 G05B2219/39423 G05B2219/45004 B02C17/00 Y10T29/49821 B08B3/024 B08B1/00 B08B1/04 B08B3/02 B23P19/06 B60B29/001

European: B02C17/00 B02C23/00 B08B1/00 B08B1/04 B08B3/02 B08B3/02C B22D29/04 B22D5/02 B25J11/00 B25J9/00H5 B25J9/16P4 B25J9/16V1 S05B219/37208 S05B219/39423 S05B219/45004 S05B219/45063

US: 134/172 134/172S 134/24 134/24P 164/413 164/413S 241/166 241/166P 241/33 241/33S 29/426.4 29/426.400P 318/568.11 348/114 348/118 414/730 414/730S 414/737 414/804 451/57 700/245 700/245P 700/246 700/247 700/248 700/250 700/253 700/258 700/258S 700/259 700/260 700/260P 700/262 901/1 901/15 901/15S 901/2 901/2S 901/31 901/31S 901/41 901/44 901/46 901/47 901/47S 901/9 901/9S



Family:

Publication number	Publication date	Application number	Application date
US2007149098 AA	20070628	US20060595959	20061113
US2007180678 AA	20070809	US20060598096	20061113
US2009099688 AA	20090416	US20060595962	20061113
US2009101179 AA	20090423	US20060595951	20061113
US2009121061 AA	20090514	US20060598138	20061113
US2009177324 AA	20090709	US20060595964	20061113
US2010057254 AA	20100304	US20090509701	20090727
US2012102703 AA	20120503	US20110311109	20111205
US2013231777 AA	20130905	US20130860302	20130410
US2014288702 AA	20140925	US20060595960	20061113
US7567855 BB	20090728	US20060595959	20061113
US8880220 BB	20141104	US20130860302	20130410

Priority:

US20050734968P 20051101	US20050734965P 20051110	US20050734966P 20051110
US20050734967P 20051110	US20050734970P 20051110	US20050734973P 20051110
US20050734971P 20051110	US20050734972P 20051110	US20050734969P 20051110
US20050734985P 20051110	US20050734979P 20051110	US20050734980P 20051110
US20050734977P 20051110	US20050734975P 20051110	US20050734978P 20051110
US20050734976P 20051110	US20050734974P 20051110	US20050734981P 20051110
US20050734982P 20051110	US20050734983P 20051110	US20050734986P 20051110
US20050734989P 20051110	US20050734988P 20051110	US20050734987P 20051110
US20050734990P 20051110	US20060595959 20061113	US20060595951 20061113
US20060595952 20061113	US20060595953 20061113	US20060595954 20061113
US20060595957 20061113	US20060595958 20061113	US20060595960 20061113
US20060595961 20061113	US20060595962 20061113	US20060595963 20061113
US20060595964 20061113	US20060598096 20061113	US20060598119 20061113
US20060598120 20061113	US20060598121 20061113	US20060598122 20061113
US20060598123 20061113	US20060598137 20061113	US20060598138 20061113
US20060598143 20061113	US20060598145 20061113	US20060598146 20061113
US20060598147 20061113	US20060598173 20061113	US20090509701 20090727
US20110311109 20111205	US20130860302 20130410	

Probable Assignee: MI ROBOTIC SOLUTIONS MIRS

Assignee(s): (std): MI ROBOTIC SOLUTIONS MIRS ; MI ROBOTICS SOLUTIONS ; SALAMANCA HUGO ; SALAMANCA HUGO P

Assignee(s): INT SCIENTIFIC PTY LTD ; MI ROBOTIC SOLUTIONS ; MI ROBOTIC SOLUTIONS (MIRS)

Inventor(s): (std): SALAMANCA HUGO P ; SALAMANCA HUGO

Agent(s): HUGO SALAMANCA P ; GOTTLIEB RACKMAN AND REISMAN PC

56) Family number: 73258738 (WO19037804A1)

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Title: CONVEYING SYSTEM FOR DEEP HOLES

Abstract: For holes, during part one of the conveyance, rock is generally cut in blocks section by section, for example, but not exclusively, having a rectangular hole cross section; the edges are generally vertical or very steep having, for example, but not exclusively, one, two or more meters of vertical depth per section. The steepness of the cut edges generally prevents the clamping of the cutting device (fig. 60.5). It is possible, for example, but not exclusively, for cuts to be made mechanically (many small mini drills along the cut edge, and the like) by means of heat (including intermittent heat such as arcs, flashes, etc). In part two of the conveyance, the blocks float or travel upward in the hole, for example in containers, for example, but not exclusively, pushed by means of ion drives, air blowers. The power arrives via a cable/bus bar or in a wire-free manner. Anything expensive (piping, etc.) is largely omitted. The conveying elements generally come to the surface: failures of the technology as a result of computer infections are thus very improbable.

Classifications:

International (IPC 8-9): B64G1/40 B64G5/00 E21B25/00 E21B25/02 E21B27/00 E21B41/00 E21B7/14 (Advanced/Invention)

CPC: E21B7/14 E21B41/00

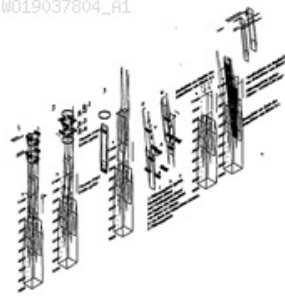


Abb. 60.5. Synops. Auf die Vergrößerungsfunktion von Word wird hingewiesen.
Fig. 60.5 Synopsis. Users are advised to use the zoom function in Word

Family:

Publication number	Publication date	Application number	Application date
DE102017008090 A1	20190221	DE201710008090	20170821
WO19037804 A1	20190228	WO2018DE000223	20180723

Priority:

DE201710008090 20170821

Probable Assignee: SMOLKA PETER**Assignee(s):** (std): SMOLKA PETER ; SMOLKA PETER PAUL**Inventor(s):** (std): SMOLKA PETER PAUL

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

57) Family number: 72076751 (US2018339456A)

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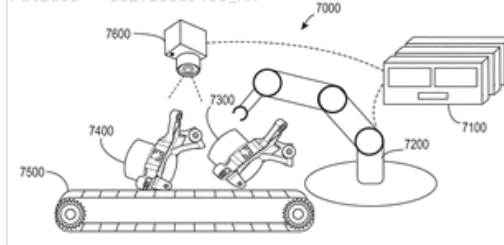
Title: ROBOTIC ASSEMBLY OF TRANSPORT STRUCTURES USING ON-SITE ADDITIVE MANUFACTURING

Abstract: Techniques for flexible, on-site additive manufacturing of components or portions thereof for transport structures are disclosed. An automated assembly system for a transport structure may include a plurality of automated constructors to assemble the transport structure. In one aspect, the assembly system may span the full vertically integrated production process, from powder production to recycling. At least some of the automated constructors are able to move in an automated fashion between the station under the guidance of a control system. A first of the automated constructors may include a 3-D printer to print at least a portion of a component and to transfer the component to a second one of the automated constructors for installation during the assembly of the transport structure. The automated constructors may also be adapted to perform a variety of different tasks utilizing sensors for enabling machine-learning.

Classifications:

International (IPC 8-9): B22F3/105 B23P19/00 B25J11/00 B29C64/10 B29C64/20 B29C64/379 B29C70/20 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/02 B33Y70/00 G06N99/00 (Advanced/Invention); B29K105/06 (Advanced/Non-invention)
CPC: B23P19/00 B29C64/10 B29C64/20 G05B19/4189 G05B2219/45055 G05B2219/49007 B33Y10/00 B33Y30/00 B23P21/004 B29C64/379 B33Y40/00 G05B19/418 B29C70/205 B29K2105/06 B22F3/1055 B25J11/005 B33Y50/02 B33Y70/00 B22F2003/1057 B22F2003/1059
US: 1/1 264/129

PatBase - US2018339456_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN108927988 A	20181204	CN201810509371	20180524
CN209971544 U	20200121	CN201820781707U	20180524
KR20200000847 A	20200103	KR20197037203	20180523
US2018339456 AA	20181129	US20170604037	20170524
WO18217890 A1	20181129	WO2018US34127	20180523

Priority:

US20170604037 20170524 WO2018US34127 20180523

Probable Assignee: DIVERGENT TECHNOLOGIES INC**Assignee(s):** (std): DIVERGENT TECH INC**Assignee(s):** DIVERGENT TECHNOLOGIES INC

Inventor(s): (std): CZINGER KEVIN ROBERT ; TENHOUTEN BROCK WILLIAM ; O CONNELL DAVID CHARLES ; GUNNER JON PAUL ; BUCKNELL JOHN RUSSELL ; HAMADE ALEX JAMES ; TENHOUTEN DAVID BRIAN ; BROCK WILLIAM TENHOUTEN ; JOHN RUSSELL BUCKNELL ; DAVID BRIAN TENHOUTEN ; KEVIN ROBERT CZINGER ; DAVID CHARLES O CONNELL ; JON PAUL GUNNER ; ALEX JAMES HAMADE ; GUNNER JOHN PAUL

Agent(s): GELFOUND CRAIG A ET AL

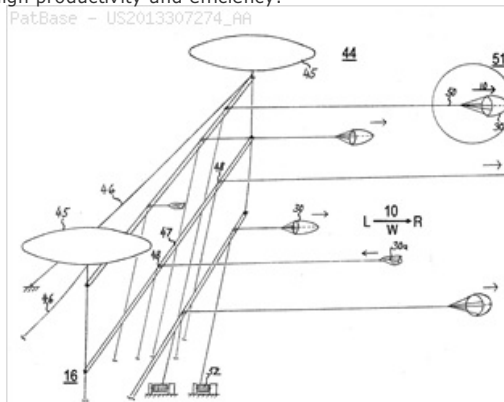
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN 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: POWER GENERATING WINDBAGS AND WATERBAGS

Abstract: A method of using a bagged power generation system comprising windbags and water-bags for harnessing wind and water power to produce electricity to meet the escalating energy needs of mankind. Windbags integrated with aerodynamically shaped inflatable bodies filled with lighter-than-air gas: HAV, UAV, airplanes; enabling the apparatus to attain high altitude to capture and entrap high velocity wind. Water-bags integrated with hydrodynamic shaped bodies HUV, UUV, Submarine-boats; enabling the apparatus to dive, capture and entrap swift moving tidal-currents. Attached tether-lines pulling on the rotating reel-drums and generators to produce electricity. Active control surfaces, turbo-fans, propellers provide precision control of the apparatus. A system configured to maximize fluids capture, retention and optimized extraction of its kinetic energy. An extremely scalable and environmentally friendly method, system, apparatus, equipment and techniques configured to produce renewable green energy with high productivity and efficiency.

Classifications:

International (IPC 8-9): B64C39/02 F03B13/00 F03B17/06 F03D15/10 F03D5/00 F03D5/02 F03D7/06 F03D9/00 F03D9/25 F03D9/30 H02K7/06 H02K7/18 H02P9/04 (Advanced/Invention); F03B13/00 (Advanced/Non-invention)
CPC: F03B17/06 F03D5/00 F03D9/008 F03D9/25 F03D9/30 F03D15/10 F05B2220/70 F05B2240/922 F05B2240/923 F05B2270/18 F05B2270/20 H02K7/1853 Y02E10/28 Y02E10/70 Y02E10/725 Y02E10/728 B64C39/022 B64C39/024 B64C2201/12 F03D5/02 F03D7/06 H02K7/06
US: 1/1 290/44 290/54 290/55 701/3

**Family:**

Publication number	Publication date	Application number	Application date
SG194257 A1	20131129	SG20120030672	20120426
SG2013029871 A1	20141127	SG20130029871	20130419
US2013307274 AA	20131121	US20130870413	20130425
US2015137523 AA	20150521	US20150608511	20150129
US2016108894 AA	20160421	US20150976855	20151221
US2017012496 AA	20170112	US20160270500	20160920
US2017292499 AA	20171012	US20170630670	20170622
US2018163702 AA	20180614	US20180889937	20180206
US2019257290 AA	20190822	US20190298043	20190311
US8963362 BB	20150224	US20130870413	20130425
US9234501 BB	20160112	US20150608511	20150129
US9447775 BB	20160920	US20150976855	20151221
US9698652 BB	20170704	US20160270500	20160920
US10113534 BB	20181030	US20170630670	20170622
US10233902 BB	20190319	US20180889937	20180206

Priority:

SG20120003067	20120426	SG20120030672	20120426	SG20130029871	20130419
SG20130002987	20130419	US20130870413	20130425	US20150608511	20150129
US20150976855	20151221	US20160270500	20160920	US20170630670	20170622
US20180889937	20180206	US20190298043	20190311		

Probable Assignee: SIA YIK HEI**Assignee(s):** (std): SIA YIK HEI**Inventor(s):** (std): SIA YIK HEI**Agent(s):** SIA YIK HEI; K DAVDA; CROCKETT AND CROCKETT PC; NIKY ECONOMY; K DAVID; CROCKETT ESQ K DAVID; SYRENGELAS ESQ NIKY ECONOMY; NIKY ECONOMY SYRENGELAS ESQ

Title: CAJA, RECIPIENTE, CONTENEDOR, BAUL, CAJON, TERMINAL AUTOMATIZADO LOGISTICO, DE ADQUISICIONES, ALMACENAMIENTO, REPARTO Y ENTREGAS DE DEPOSITO, CON MEDIDAS PROTECTORAS Y DE SEGURIDAD CLIMATOLOGICAS, TELEMATICAS.

Abstract: Source: ES1135418U [ES] 1. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, caracterizada porque presenta: - Una estructura con un tejido nanotecnologico especial con unas propiedades de proteccion fisica con al menos una capa no tejida que comprende fibras cortas de para-aramida, nanotextiles, polimeros. - Un cuerpo principal dotado de un mueble modular de varios apartados de almacenaje, depositos de bienes, compras, adquisiciones, retornos, devoluciones de paqueteria, mensajeria, postales, tipo buzones, cajetines. - Una carcasa con sistema de control para apertura, cierre, almacenaje, control de uso de la zona de guardado, proteccion, ubicacion, deposito del bien, paqueteria. Con sensores, analizadores, controladores. - Unas secciones, zonas, capsulas, sectores, divisiones, con controlador de temperaturas, positivas y negativas, refrigeradas, congeladoras, identificadoras de documentos, cajero, con controles de seguridad. - Un sistema operativo dotado de unos sistemas de software informaticos y con medios de encriptacion algoritmica de alta seguridad, medios telematicos, de comunicacion, operatividad, emision, recepcion, retransmision, verificacion, validacion y control. - Unas frecuencias propias y/o alternativas, via satelite, via analogicos, digitales, GPS, GMS. - Unos microprocesadores para el control y operatividad del sistema de apertura y cierre. - Unos sistemas de comunicacion por cables, sistemas analogicos, digitales, wifi, GMS, GPS, via satelite integrados en sistemas operativos encriptados de codigos para la operatividad. 2. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun la reivindicacion 1, caracterizada por tener una estructura con un peso desde unos 250 grams per square metre hasta 2.500 grams per square metre. 3. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logistico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener una estructura donde la

primera capa protectora es de unos 2 cm ancho x 3 cm de largo y uniendo la siguiente quedando expuesto una superficie de unos 2 cm x 2 cm estando el 1 cm sobrante de largo debajo de la "pieza, escama, diseño de escudo" en la parte inferior/anterior creando un tipo de malla protectora. 4. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener una estructura que puede amortiguar en todas las direcciones y en especial de forma exponencial/exterior/hacia afuera un golpe, penetracion, impacto de bala y dicho impacto siendo reducido a un golpe de poco impacto fisico, reduccion y frenado expansivo permitiendo que el usuario no pueda sufrir danos internos por dicho golpe, penetracion, impacto de armas de fuego de gran calibre incluso el de 0,50 calibre y/o el de AK47, balas penetradoras, incendiarias, etc. 5. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque la estructura tiene un espesor desde unos 0,200 cm hasta unos 7,25 cm, preferentemente 0,0500 cm a unos 5,03 cm. 6. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque la estructura esta compuesta de una fibra resistente a las balas con una tenacidad de al menos unos 10-20 gramos por denier (13,5 g/denitex) y un modulo de traccion de al menos unos 200-400 gramos por denier (360 g/denitex). 7. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque la estructura esta conformada por un tejido, material con una capa no tejida esta entrecruzada con la capa tejida mediante perforacion por agujas, soldaduras, cosidos, uniones con adhesivos, por calentamiento, etc. 8. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque la estructura esta conformada por un tejido, material con una capa tejida que comprende fibras de calidad unidireccionales. 9. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque la estructura esta conformada por un tejido, material y al menos una capa no tejida comprende fibras de calidad antibalas. 10. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque la estructura esta conformada por un tejido, material que comprende una serie de capas de cables, textiles, tejidos nanotecnologicos de origen organico y/o inorganico unidireccionales y/o direccionales, combinados, entre cosidos, mezclado de fibras de calidad antibalas colocadas transversalmente en angulos de 44 degrees - 90 degrees grados. 11. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque esta conformada por un tejido, material de proteccion que comprende ademas un revestimiento hidrofugo. 12. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada porque esta conformada por un tejido, material de proteccion que posee un espesor reducido por calandrado. 13. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en la estructura un lector que comprende una primera unidad de tecnologia configurada para analizar un primer tipo de credenciales de acceso, estando configurada la primera unidad de tecnologia para leer automaticamente los datos de una tarjeta. 14. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en la estructura un lector que comprende una primera unidad de tecnologia configurada para analizar un primer tipo de credenciales de acceso, estando configurada una segunda unidad de tecnologia configurada para analizar un segundo tipo de credenciales de acceso; que presenta un soporte de montaje configurado para recibir la primera y segunda unidades de tecnologia en una pluralidad de orientaciones, de tal forma que cuando la segunda unidad de tecnologia este montada en una primera orientacion, la primera unidad de tecnologia sea adyacente a un primer lado de la segunda unidad de tecnologia, y cuando la segunda unidad de tecnologia este montada en una segunda orientacion, la primera unidad de tecnologia sea adyacente a un segundo lado de la segunda unidad de tecnologia. 15. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en la estructura un lector en el que la segunda unidad de tecnologia esta configurada para recibir por lo menos una de entre unas credenciales legibles por maquina y unas credenciales facilitadas por el usuario. 16. Caja, recipiente, contenedor, baul, cajon, terminal automatizado logístico, de adquisiciones, almacenamiento, reparto y entregas de deposito, con medidas protectoras y de seguridad climatologicas, telematicas, segun reivindicaciones anteriores, caracterizada por tener en la estructura un lector en el que la tecnologia utilizada por la primera unidad de tecnologia es diferente de la tecnologia utilizada por la segunda unidad de tecnologia, en el que la primera unidad de tecnologia esta configurada para analizar por lo menos una de entre unas credenciales de banda magnetica, unas credenciales incluso mediante su incorporacion en tejidos, sistemas de seguridad alfa-numericos, por holograma, telefono, telefono inteligente, iris, aliento, huellas digitales, por voz, tatuajes, codigos de barras, marcas, codigos en tejidos organicos y/o inorganicos, pulseras con sistemas incluso de deteccion de medios de confirmacion de uso mediante wifi, conexon inalambrica, unas credenciales RF, unas credenciales de contacto, unas credenciales sin contacto, unas credenciales de proximidad, unas credenciales **Machine translation:** 1. Box, container, container, baul, cajon, automated terminal logistics, procurement, storage, distribution and delivery of deposit, with climatological protective and safety measures, telematic, characterized by: - A structure with a special nano fabric with properties physical protection with at least one nonwoven layer comprising short para-aramid fibers, nanotextiles, polymers. - A main body equipped with a modular furniture from various sections of storage, storage of goods, purchases, acquisitions, returns, refunds parcel, courier, post office boxes type boxes. - A housing with control system for opening, closing, storage, use control area saving, protection, location, storage of the goods, parcels. With sensors, analyzers, controllers. - Some sections, areas, capsules, sectors, divisions, with temperature controller, positive and negative, chilled, freezers, identifying documents, cash, security controls. - A gifted software of computer systems and algorithmic means high security encryption, telematic media, communication, operation, broadcasting, reception, retransmission, verification, validation and control operating system. - Some own and / or alternative frequencies, satellite, via analog, digital, GPS, GMS. - Some microprocessors for control and operation of the system of opening and closing. - A communication systems for cables, analog systems, digital, wifi, GSM, GPS, satellite integrated into operating systems encrypted codes for the operation. 2. Box, container, container, baul, cajon, automated logistics terminal, procurement, storage, distribution and delivery of deposit, with protective and security measures climatological, telematic according to claim 1, characterized by having a structure with a weight from about 250 grams per square meter to 2,500 grams per square meter. 3. Box, container, container, baul, cajon, automated logistics terminal, procurement, storage, distribution and delivery of deposit, with protective and security measures climatological, telematic, according to previous claims, characterized by having a structure wherein the first layer protective is about 2 cm wide x 3 cm long and joining the next being exposed an area of about 2 cm x 2 cm excess being 1 cm long under the "piece, flake, design shield" at the bottom / previous creating a kind of protective mesh. 4. Safety, container, container, baul, cajon, automated logistics terminal, procurement, storage, distribution and delivery of deposit, with protective and security measures climatological, telematic, according to previous claims, characterized by having a structure that can dampen all directions and especially exponential form / outdoor / out a coup, penetration, bullet and this impact being reduced to a coup little physical impact, reducing braking and expansive allowing the user can not suffer internal damage by such blow, penetration, impact of firearms including high caliber 0.50 caliber and / or AK47, penetrator bullets, incendiary, etc. 5. Box, container, container, baul, cajon, automated logistics terminal, procurement, storage, distribution and delivery of deposit, with protective and security measures climatological, telematic, according to previous claims, characterized in that the structure has a thickness from a 0.200 cm to about 7.25 cm, preferably about 0.0500 cm to 5.03 cm. 6. box, container, container, baul, cajon, automated logistics terminal, procurement, storage, distribution and delivery of deposit, with protective and security measures climatological, telematic, according to previous claims, characterized in that the structure consists of a fiber bullet resistant with a tenacity of at least about 10-20 grams per denier (13.5 g / dtex) and a tensile modulus of at least about 200-400 grams per denier (360 g / denitex). 7. box, container, container, baul, cajon, automated logistics terminal, procurement, storage, distribution and delivery of deposit, with protective and security measures climatological, telematic, according to previous claims, characterized in that the structure is formed by a fabric material with a nonwoven layer is crosslinked with the woven layer by needle punching, welding, stitching, adhesive bonding, by heating, etc. 8.Box, container, container, baul, cajon, automated terminal logistics, procurement, storage, distribution and delivery of deposit, with climatological protective and safety measures, telematic, according to

provides cytochrome p450 genotyping methods and reagents for genotyping assays and a genomic DNA copy number assays.

Classifications:

International (IPC 8-9): C07H21/04 C12N9/02

C12Q1/68 (Advanced/Invention);

C07H21/00 C12N9/02 C12Q1/68 (Core/Invention)

International (IPC 1-7): C12P19/34 C12Q1/68 G01N33/48 G01N33/50 G06F19/00

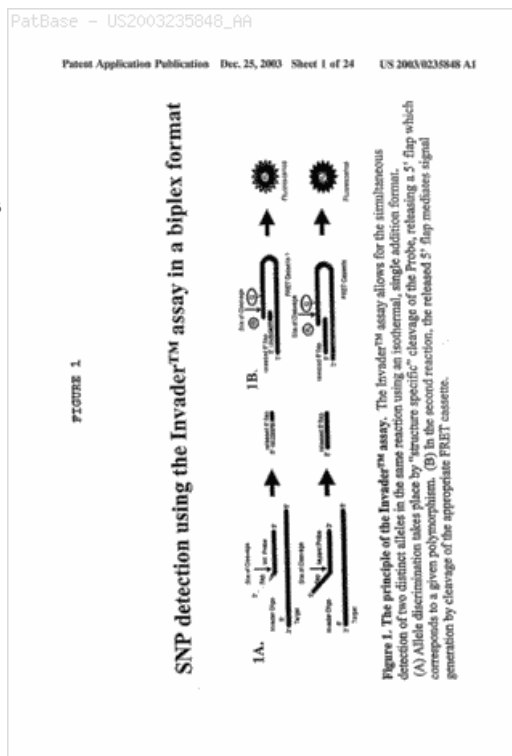
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European: C12N9/00P30E C12Q1/68M C12Q1/68M10 C12Q1/68M6B M12Q1/68B2F M12Q600/106

US: 435/6 435/6.1 435/6.100S 435/6.11 435/6.110P 435/6.18

435/6.180P 435/6.180S 435/6P 435/91.2 435/91.200S 536/24.3

536/24.300S 702/20 702/20S



Family:

Publication number	Publication date	Application number	Application date
US2003235848 AA	20031225	US20030411954	20030411
US2004096874 AA	20040520	US20030617070	20030710
US2005196771 AA	20050908	US20040956507	20041001
US2006160074 AA	20060720	US20030354953	20030130
US2008032305 AA	20080207	US20070799765	20070501

Priority:

US20010035833	20011227	US20020352940P	20020130	US20020353166P	20020131
US20020353167P	20020131	US20020353444P	20020131	US20020353165P	20020131
US20020356326P	20020213	US20020366984P	20020322	US20020371819P	20020411
US20020372475P	20020415	US20020424578P	20021107	US20030354953	20030130
US20030411954	20030411	US20030617070	20030710	US20030508220P	20031002
US20040956507	20041001	US20070799765	20070501		

Probable Assignee: THIRD WAVE TECHNOLOGIES INC

Assignee(s): (std): THIRD WAVE TECH INC

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Inventor(s): (std): NEVILLE MATT ; INDIG MONIKA DE ARRUDA ; DORN ERIN ; RASMUSSEN ERIC ; RASMUSSEN ERIC B ; DAVEY KEITH ; AIZENSTEIN BRIAN D ; KOELBL JAMES A ; OLDENBURG MARY C ; CAO FENG ; INDIG MONIKA D A

Inventor(s): INDIG MONIKA DA ; INDIG MONIKA ; OLDENBURG MARY ; KOELBL JAMES ; AIZENSTEIN BRIAN

Agent(s): MARY ANN D BROW MEDLEN AND CARROLL LLP; MEDLEN AND CARROLL LLP

61) Family number: 30143789 (US2005187718A)

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Title: NOVEL PURIFIED POLYPEPTIDES FROM STREPTOCOCCUS PNEUMONIAE

Abstract: The present invention relates to novel drug targets for pathogenic bacteria. Accordingly, the invention provides purified protein comprising the amino acid sequence set forth in SEQ ID NO: 4. The invention also provides biochemical and biophysical characteristics of the polypeptides of the invention.

Classifications:

International (IPC 8-9): C07K14/205 C07K14/21 C07K14/245

C07K14/31 C07K14/315 C12N1/21 C12N15/54 C12N9/00 C12N9/04

C12N9/10 C12N9/12 C12N9/80 C12Q1/48 C30B29/58 G01N23/20

G01N24/08 G01N33/48 G01N33/53 G01N33/569 G01N33/573

G06F17/50 G06F19/00 G06F19/16 G16B15/20

G16B15/30 (Advanced/Invention);

A61K38/00 C30B29/58 G01N23/20 G01N23/20008 G01N23/2055

G01N24/08 (Advanced/Non-invention);

C07K14/195 C12N1/21 C12N15/54 C12N9/00 C12N9/04 C12N9/10

C12N9/12 C12N9/78 C30B29/54 G01N23/20 G01N24/00 G01N33/53

G01N33/569 G06F17/50 G06F19/00 (Core/Invention);

A61K38/00 (Core/Non-invention)

International (IPC 1-7): A61K38/00 C07H21/04 C07K1/30 C07K103/00 C07K14/195 C07K14/205 C07K14/21 C07K14/245 C07K14/31 C07K14/315 C07K17/02 C07K19/00 C12N1/21 C12N11/02 C12N15/54 C12N15/74 C12N9/00 C12N9/02 C12N9/04 C12N9/10 C12N9/12 C12N9/80 C12N9/96 C12Q1/25 C12Q1/26 C12Q1/48 C12Q1/68 C30B29/58 G01N23/20 G01N24/08 G01N33/48 G01N33/50 G01N33/53 G01N33/569 G06F17/50 G06F19/00

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European: C07K14/205 C07K14/21 C07K14/245 C07K14/31 C07K14/315B C12N9/00P2 C12N9/10D2 C12N9/10E C12N9/12C C12N9/12D C12N9/12F C12N9/12J C12N9/80 C12N9/93 C12Y207/01026 C12Y207/01069 C12Y207/02003 C12Y207/07003 C12Y601/01001 C12Y601/01010 C12Y601/01021 G01N33/569D G01N33/569D10 G01N33/569D12 K61K38/00 M07K203/02 M07K205/00 M07K207/00 M07K299/00 M07K319/00 M07K319/00E M12N203/02 M12N207/00

US: 435/183 435/183S 435/193 435/193S 435/252.3 435/252.300S 435/320.1 435/320.100S 435/6 435/6.13 435/6.130P 435/69.1 435/69.100S 435/6P 536/23.2 536/23.200S 702/19 702/19P



Family:

Publication number	Publication date	Application number	Application date
AU2002328224 AA	20030401	AU20020328224	20020920
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AU2002333143 AA	20030506	AU20020333143	20021025
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AU2002364783 AA	20030610	AU20020364783	20021121
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US2005187718 AA	20050825	US20040922802	20040820
US2005214773 AA	20050929	US20040806062	20040322
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WO03025008 A2	20030327	WO2002CA01429	20020920
WO03025008 A3	20050414	WO2002CA01429	20020920
WO03035858 A2	20030501	WO2002CA01613	20021025
WO03035858 A3	20050811	WO2002CA01613	20021025
WO03044185 A2	20030530	WO2002CA01768	20021121
WO03044185 A3	20040805	WO2002CA01768	20021121
WO03045985 A2	20030605	WO2002CA01784	20021126
WO03045985 A3	20040311	WO2002CA01784	20021126

Priority:

US20010323992P 20010921	US20010324152P 20010921	US20010324176P 20010921
US20010324439P 20010924	US20010324713P 20010925	US20010324690P 20010925
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US20010342004P 20011219	US20010341950P 20011219	US20010342003P 20011219
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US20040806062 20040322	US20040992802 20040820	US20040922802 20040820
CA20042476028 20040826		

Probable Assignee: AFFINIUM PHARMACEUTICALS INC

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Inventor(s): (std): SHARMA VIVEK ; KIMBER MATTHEW ; CLARKE TERESA ; WREZEL OLGA ; VALLEE FRANCOIS ; SHELDRIK BAY ; PINDER BENJAMIN ; NG IVY ; NETHERY KATHLEEN ; NECAKOV SASHA ; MANSOURY KAMRAN ; HOUSTON SIMON ; DOMAGALA MEGAN ; CANADIEN VERONICA ; BEATTIE BRYAN ; AWREY DONALD ; ALAM MUHAMMAD ZAHOR ; VEDADI MASOUD ; DHARAMSI AKIL ; EDWARDS ALED ; MCDONALD MERRY LYNN ; NECAKOV SASHA A ; KANAGARAJAH DHUSHY ; VIOLA CRISTINA ; NETHERY BROKX KATHLEEN ; LI QIN ; LAM ROBERT ; ALAM MUHAMMAD Z

Inventor(s): NECAKOV SASHA ALEKSANDAR ; ALAM MUHAMMAD ; QIN LI ; DHUSHY KANAGARAJAH ; MERRY LYNN

MCDONALD ; CRISTINA VIOLA ; VERONICA CANADIEN ; BRYAN BEATTIE ; DONALD AWREY ; MUHAMMAD ZAHOUR ALAM ; MASOUD VEDADI ; AKIL DHARAMSI ; ALED EDWARDS ; OLGA WREZEL ; FRANCOIS VALLEE ; BAY SHELDRICK ; BENJAMIN PINDER ; IVY NG ; KATHLEEN NETHERY ; SASHA NECAKOV ; KAMRAN MANSOURY ; SIMON HOUSTON ; MEGAN DOMAGALA

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; FOLEY HOAG LLP, PATENT GROUP WORLD TRADE CENTER WEST; FOLEY HOAG LLP PATENT GROUP WORLD TRADE CENTER WEST

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

62) Family number: 44662815 (US2010071903A)

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Title: MINES AND TUNNELS FOR USE IN TREATING SUBSURFACE HYDROCARBON CONTAINING FORMATIONS

Abstract: A system for treating a subsurface hydrocarbon containing formation includes one or more substantially horizontal or inclined tunnels extending from at least one shaft. One or more heater sources are located in one or more heater wellbores coupled to at least one of the substantially horizontal or inclined tunnels.

Classifications:

International (IPC 8-9): E21B36/00 E21B36/04 E21B43/00

E21B43/24 (Advanced/Invention);

E21B36/00 E21B43/16 (Core/Invention)

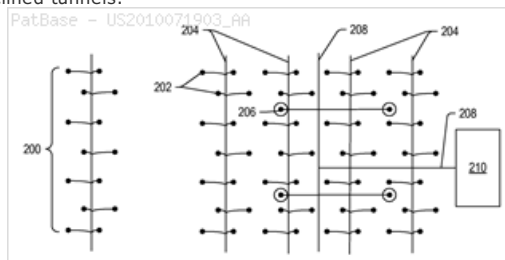
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European: C10G21/22 C10G21/28 E21B10/00C E21B19/08

E21B21/00 E21B21/08 E21B36/00B E21B36/02 E21B36/04

E21B43/119 E21B43/243 E21B43/24B E21B43/24F E21B43/28B E21B43/30 E21B43/30B E21B47/022 E21B7/18

US: 166/302 166/50 166/50S 299/2



Family:

Publication number	Publication date	Application number	Application date
US2010071903 AA	20100325	US20090626420	20091125
US8636323 BB	20140128	US20090626420	20091125

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422094 20090410
US20090626420 20091125

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; MACDONALD DUNCAN CHARLES ; MARWEDE JOCHEN ; PRINCE WRIGHT ROBERT GEORGE ; SHELL OIL CO

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): MARWEDE JOCHEN ; MACDONALD DUNCAN CHARLES ; BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; PRINCE WRIGHT ROBERT GEORGE

Inventor(s): HWANG HORNG JYE (JAY)

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

63) Family number: 44662818 (US2010071904A)

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Title: HYDROCARBON PRODUCTION FROM MINES AND TUNNELS USED IN TREATING SUBSURFACE HYDROCARBON CONTAINING FORMATIONS

Abstract: A system for treating a subsurface hydrocarbon containing formation includes one or more substantially horizontal or inclined tunnels extending from one or more shafts. A production system is located in at least one of the tunnels. The production system is configured to produce fluids from the formation that collect in the tunnel.

Classifications:

International (IPC 8-9): E21B36/00 E21B43/00 E21B43/24

E21B43/30 (Advanced/Invention);

E21B36/00 E21B43/00 E21B43/16 (Core/Invention)

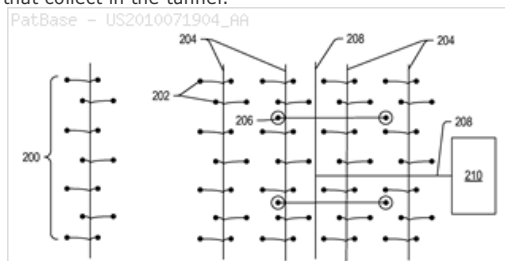
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European: C10G21/22 C10G21/28 E21B10/00C E21B19/08

E21B21/00 E21B21/08 E21B36/00B E21B36/02 E21B36/04

E21B43/119 E21B43/243 E21B43/24B E21B43/24F E21B43/28B E21B43/30 E21B43/30B E21B47/022 E21B7/18

US: 166/302 166/369 166/369S 166/50 166/50S 299/2



Family:

Publication number	Publication date	Application number	Application date
US2010071904 AA	20100325	US20090626434	20091125
US8562078 BB	20131022	US20090626434	20091125

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422104 20090410
US20090626434 20091125

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; MACDONALD DUNCAN CHARLES ; MARWEDE JOCHEN ; PRINCE WRIGHT ROBERT GEORGE ; SHELL OIL CO

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): MARWEDE JOCHEN ; MACDONALD DUNCAN CHARLES ; HWANG HORNG JYE JAY ; PRINCE WRIGHT ROBERT GEORGE ; BURNS DAVID BOOTH

Inventor(s): HWANG HORNG JYE (JAY)

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

64) Family number: 9604818 (US5380978A)

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Title: METHOD AND APPARATUS FOR ASSEMBLY OF CAR BODIES AND OTHER 3-DIMENSIONAL OBJECTS

Abstract: In the manufacture of car bodies-particularly what is called the "body-in-white" (BIW), the as-welded body without the doors, engine, transmission, etc., and major sub-assemblies thereof. or other "3-D" structures, such as planes, ships, trucks, buildings and the like there is used optically visible datums (in UV, visible, and IR wavelengths) on the part which are either functional (that is used for assembly or other purposes, such as a hole) or simply for the purpose of optically guided positioning, either manually or automatically. These datums, typically holes, painted, engraved, or retroreflective targets, either by themselves, or in combination with other features of the part such as edges, are observed by optical sensor/camera systems in and/or surrounding the work area. One or more positioning means either automatic, semi-auto, or manual, are guided by the signals from the cameras to cause the requisite parts to be positioned in the proper location. The parts are then joined, such as by laser welders. Adaptive control of position can include many variables such as forces, previous history ("learning"), etc.

Classifications:

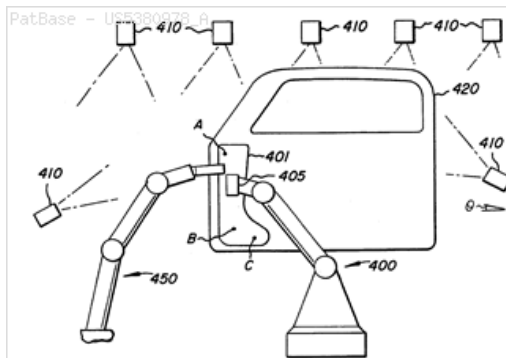
International (ipc 8-9): B23K26/04 B62D65/02 (Advanced/Invention); B23K26/04 B62D65/00 (Core/Invention)

International (ipc 1-7): B23K26/00 B62D65/00

CPC: B23K26/04 B23K26/032 B23K26/0846 B23K26/10 B23K26/22 B25J9/1687 B25J9/1697 B62D65/02 G05B19/4015 B23K26/0622 B23K26/361 B23K26/382 B23K26/40 B23K2103/50

European: B23K26/03B B23K26/04 B23K26/06B4 B23K26/08E2B B23K26/10 B23K26/22 B23K26/36B B23K26/38B B25J9/16T3 B25J9/16V1 B62D65/00D B62D65/02 G05B19/401C

US: 219/121.64 219/121.79 219/121.83



Family:

Publication number	Publication date	Application number	Application date
EP0592585 A1	19940420	EP19920915236	19920713
US5380978 A	19950110	US19910728682	19910712
WO9301080 A1	19930121	WO1992CA00296	19920713

Priority:

US19910728682 19910712 WO1992CA00296 19920713

Probable Assignee: SENSOR ADAPTIVE MACH

Assignee(s): (std): SENSOR ADAPTIVE MACH ; SENSOR ADAPTIVE MACHINES INC

Assignee(s): LASER MEASUREMENT INT ; LASER MEASUREMENT INT INC ; PRYOR TIMOTHY R

Inventor(s): (std): PRYOR TIMOTHY R

Inventor(s): SENSOR ADAPTIVE MACHINES INC

Designated states: AT BE CA CH DE DK ES FR GB GR IT JP LI LU MC NL SE US

65) Family number: 43868844 (WO09129143A1)

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Title: SYSTEMS, METHODS, AND PROCESSES UTILIZED FOR TREATING HYDROCARBON CONTAINING SUBSURFACE FORMATIONS

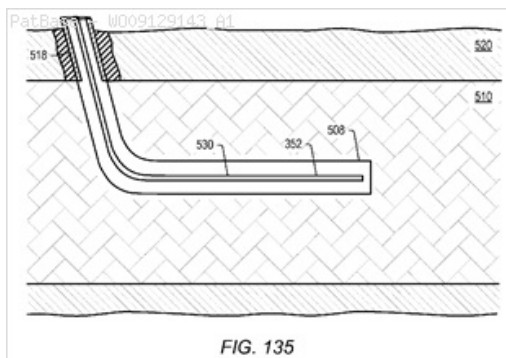
Abstract: Systems, methods, processes, and/or heaters for treating a subsurface formation are described herein. Some embodiments also generally relate to heaters that have novel components therein. Such heaters may be obtained by using the systems and methods described. Some embodiments also generally relate to systems, methods, and/or processes for treating fluid produced from the subsurface formation.

Classifications:

International (ipc 8-9): C10G1/00 E21B43/00 (Advanced/Invention); C10G1/00 E21B43/00 (Core/Invention)

CPC: E21B7/068 E21B3/00 E21B4/04 E21B47/06 C10G21/22 C10G21/28 C10G2300/207 C10G2300/301 C10G2300/302

C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42 C10G2300/807 C10G2400/02 E21B7/18 E21B10/003 E21B19/08 E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04 E21B43/119 E21B43/2401 E21B43/2403 E21B43/243 E21B43/281 E21B43/30 E21B43/305 E21B47/022



Family:

Publication number	Publication date	Application number	Application date
WO09129143 A1	20091022	WO2009US40217	20090410
WO09146158 A1	20091203	WO2009US40139	20090410

Priority:

US20080046329P 20080418 US20080104974P 20081013

Probable Assignee: SHELL OIL CO

Assignee(s): (std): ARORA DHRUV ; AYODELE OLUROPO RUFUS ; BASS RONALD J ; BROS ROBERT ; BROUWER ROALD ; EDBURG DAVID ALSTON ; DE ST REMEY ED ; CAO RENFANG RICHARD ; DEN BOESTERT JOHANNES LEENDERT WILLEM CORNELIS ; DINDORUK DENIZ ; CRUZ ANTONIO MARIA GUIMARAES LEITE ; COLOMENARES TULIO ; DE ROUFFINGNAC ERIC PIERRE ; FONSECA OCAMPOS ERNESTO RAPHAEL ; BURNS DAVID BOOTH ; JAISWAL NAMIT ; GINESTRA JEAN CHARLES ; MASON STANLEY LEROY ; MCNEIL BOB ; MARWEDE JOCHEN ; KIM DONG SUB ; FOWLER THOMAS DAVID ; MACDONALD DUNCAN CHARLES ; KARANIKAS JOHN MICHAEL ; HARLEY GUY ; MCKINZIE BILLY JOHN II ; LI ZHEN ; KOENDERS BURGARD ; HARRIS CHRISTOPHER KELVIN ; HWANG HORNG JYE JAY ; HARVEY ALBERT DESTREHAN III ; LO KING HIM ; KILGORE JAMES ; MCDONALD DUNCAN CHARLES ; HWANG HORNG JYE ; SHELL OIL CO ; ZHENG JANE Q ; RYAN ROBERT CHARLES ; SANDBERG CHESTER LEDLIE ; ROES AUGUSTINUS WILHELMUS MARIA ; NGUYEN SCOTT VINH ; VINEGAR HAROLD J ; XIE XUEYING ; SON JAIME SANTOS ; NAIR VIJAY ; PRINCE WRIGHT ROBERT GEORGE ; MUYLLE MICHEL SERGE MARIE ; MO WEIJAN ; STANECKI JOHN ANDREW ; RAGHU DAMODARAN ; SYIHAB ZUHER ; POLLARD RICHARD ; VENDITTO JAMES JOSEPH ; PINO HENRY ; PATNI SANDEEP ; RENKEMA DUURT ; SHELL INT RESEARCH

Assignee(s): SHELL INT RESEARCH MIJ BV ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V ; SHELL OIL COMPANY

Inventor(s): (std): RENKEMA DUURT ; MCDONALD DUNCAN CHARLES ; HWANG HORNG JYE ; BURNS DAVID BOOTH ; PATNI SANDEEP ; KILGORE JAMES ; PINO HENRY ; LO KING HIM ; VENDITTO JAMES JOSEPH ; FONSECA OCAMPOS ERNESTO RAPHAEL ; POLLARD RICHARD ; SYIHAB ZUHER ; HARVEY ALBERT DESTREHAN III ; RAGHU DAMODARAN ; DE ROUFFINGNAC ERIC PIERRE ; COLOMENARES TULIO ; CRUZ ANTONIO MARIA GUIMARAES LEITE ; DINDORUK DENIZ ; DEN BOESTERT JOHANNES LEENDERT WILLEM CORNELIS ; STANECKI JOHN ANDREW ; MO WEIJAN ; HWANG HORNG JYE JAY ; HARRIS CHRISTOPHER KELVIN ; KOENDERS BURGARD ; BASS RONALD J ; MUYLLE MICHEL SERGE MARIE ; PRINCE WRIGHT ROBERT GEORGE ; LI ZHEN ; CAO RENFANG RICHARD ; NAIR VIJAY ; SON JAIME SANTOS ; MCKINZIE BILLY JOHN II ; HARLEY GUY ; KARANIKAS JOHN MICHAEL ; DE ST REMEY ED ; MACDONALD DUNCAN CHARLES ; EDBURG DAVID ALSTON ; XIE XUEYING ; VINEGAR HAROLD J ; NGUYEN SCOTT VINH ; FOWLER THOMAS DAVID ; ROES AUGUSTINUS WILHELMUS MARIA ; KIM DONG SUB ; AYODELE OLUROPO RUFUS ; MARWEDE JOCHEN ; ARORA DHRUV ; SANDBERG CHESTER LEDLIE ; MCNEIL BOB ; RYAN ROBERT CHARLES ; MASON STANLEY LEROY ; BROS ROBERT ; BROUWER ROALD ; ZHENG JANE Q ; GINESTRA JEAN CHARLES ; JAISWAL NAMIT

Agent(s): CHRISTENSEN DEL S ET AL ; CHRISTENSEN DEL S

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

66) Family number: 71411856 (WO18183932A1)

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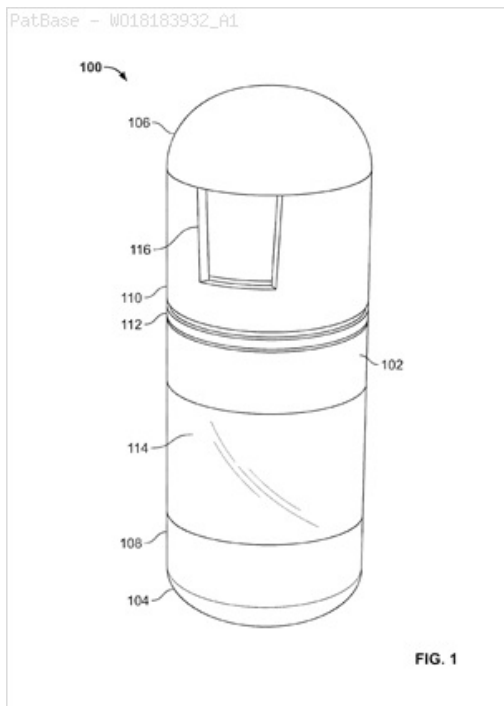
Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A IL-13 INHIBITOR

Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with an IL-13 inhibitor.

Classifications:

International (IPC 8-9): A61B5/00 A61K9/50 C07K16/24 C12N15/113 (Advanced/Invention)

CPC: C12N15/1136 A61B5/0031 A61B5/0084 A61B5/065 A61B5/073 A61B5/4839 A61K39/39591 C07K16/241 C07K16/244 C07K16/2845 A61K31/436 A61K31/519 A61K31/7088 A61K38/13 A61K45/06 A61K2039/505 A61K2039/54 A61K2039/542 C07K2317/94 G01N33/6893 G01N2333/5437 G01N2800/065 A61P1/04



Family:

Publication number	Publication date	Application number	Application date
WO18183932 A1	20181004	WO2018US25526	20180330

Priority:

Probable Assignee: PROGENITY INC
Assignee(s): (std): PROGENITY INC
Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY
Agent(s): DORIGO ANDREA 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

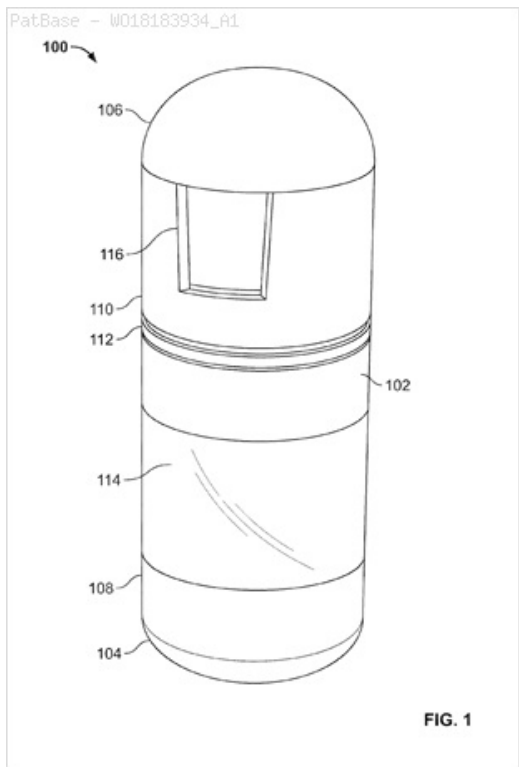
67) Family number: 71411869 (WO18183934A1) © PatBase

Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A CHST15 INHIBITOR

Abstract: This disclosure features methods and compositions for treating diseases of the gastrointestinal tract with a CHST15 inhibitor, to be administered via an ingestible device.

Classifications:

International (IPC 8-9): A61K31/7105 A61K9/00
C12N15/113 (Advanced/Invention)
CPC: A61K9/00 A61K9/0097 A61K31/7105 C12N15/111
C12N15/1137 C12N2310/14 C12N2320/32 C12Y208/02033



Family:

Publication number	Publication date	Application number	Application date
CA3054159 AA	20190820	CA20183054159	20180330
EP3600249 A1	20200205	EP20180719372	20180330
WO18183934 A1	20181004	WO2018US25528	20180330

Priority:

US20170479127P 20170330 US20170545258P 20170814 US20170583886P 20171109
US20170598964P 20171214 WO2018US25528 20180330

Probable Assignee: PROGENITY INC
Assignee(s): (std): PROGENITY INC
Assignee(s): SINGH SHARAT ; STYLLI HARRY ; WAHL CHRISTOPHER LOREN ; JONES MITCHELL LAWRENCE
Inventor(s): (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY
Agent(s): SMART AND BIGGAR; SMART AND BIGGAR LLP; MEWBURN ELLIS LLP; DORIGO ANDREA 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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

68) Family number: 71411909 (WO18183941A2) © PatBase

Title: TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH LIVE BIOTHERAPEUTICS

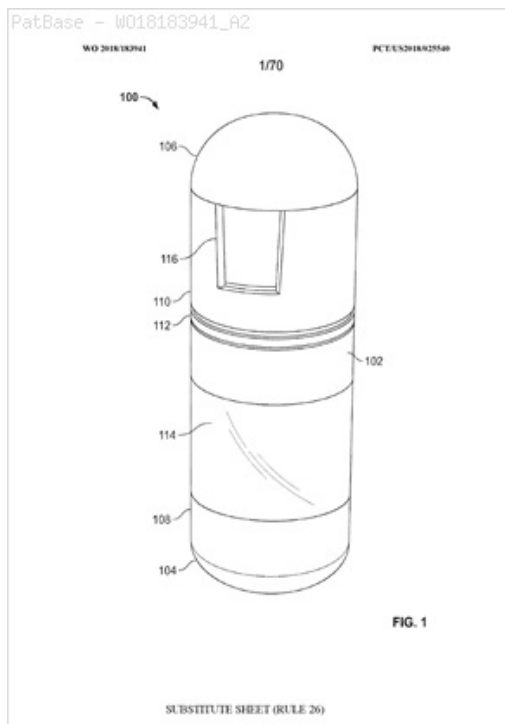
Abstract: [Source: Claim 1] 1. A method of treating a disease of the gastrointestinal tract in a subject, comprising: administering to the subject a pharmaceutical formulation that comprises a live biotherapeutic such as a stem cell, wherein the pharmaceutical formulation is released at a location in the gastrointestinal tract of the subject that is proximate to one or more sites of disease.

Classifications:**International (IPC 8-9):** A61K35/12 A61K9/00 C12N5/074

C12N5/12 (Advanced/Invention)

CPC: A61K9/0053 A61K9/0097 A61K35/28 A61K2035/124

A61K2035/128 C12N5/0607 C12N5/12

**Family:**

Publication number	Publication date	Application number	Application date
AU2018244922 AA	20190912	AU20180244922	20180330
CA3054947 AA	20190828	CA20183054947	20180330
EP3601531 A2	20200205	EP20180722771	20180330
WO18183941 A2	20181004	WO2018US25540	20180330

Priority:

US20170479027P 20170330

US20170545297P 20170814

US20170583932P 20171109

US20170596040P 20171207

US20170598948P 20171214

WO2018US25540 20180330

Probable Assignee: PROGENITY INC**Assignee(s):** (std): PROGENITY INC**Assignee(s):** SINGH SHARAT ; STYLLI HARRY ; WAHL CHRISTOPHER LOREN ; JONES MITCHELL LAWRENCE**Inventor(s):** (std): JONES MITCHELL LAWRENCE ; SINGH SHARAT ; WAHL CHRISTOPHER LOREN ; STYLLI HARRY**Agent(s):** DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; SMART AND BIGGAR LLP; MEWBURN ELLIS LLP; REITER TIFFANY 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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**69) Family number: 43588937** (US2009194333A)

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Title: RANGING METHODS FOR DEVELOPING WELLBORES IN SUBSURFACE FORMATIONS

Abstract: A method for forming two or more wellbores in a subsurface formation includes forming a first wellbore in the formation. A second wellbore is directionally drilled in a selected relationship relative to the first wellbore. At least one magnetic field is provided in the second wellbore using one or more magnets in the second wellbore located on a drilling string used to drill the second wellbore. At least one magnetic field is sensed in the first wellbore using at least two sensors in the first wellbore as the magnetic field passes by the at least two sensors while the second wellbore is being drilled. A position of the second wellbore is continuously assessed relative to the first wellbore using the sensed magnetic field. The direction of drilling of the second wellbore is adjusted so that the second wellbore remains in the selected relationship relative to the first wellbore.

Classifications:**International (IPC 8-9):** E21B47/02 E21B7/04 (Advanced/Invention);

E21B47/02 E21B7/04 (Core/Invention)

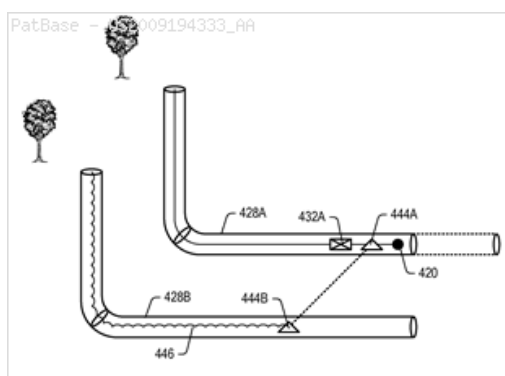
CPC: E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F2511/00

E21B36/00 E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04

H01J37/32926 H01J37/32935 Y10T29/49083

European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4

T01F27/38

US: 175/45 175/45P 175/61 175/62**Family:**

Publication number	Publication date	Application number	Application date
US2009194333 AA	20090806	US20080250273	20081013
US8011451 BB	20110906	US20080250273	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 US20080250273 20081013

Probable Assignee:

SHELL OIL CO

Assignee(s): (std):

MACDONALD DUNCAN ; SHELL OIL CO

Assignee(s):

SHELL OIL COMPANY

Inventor(s): (std):

MACDONALD DUNCAN

Agent(s):

SHELL OIL COMPANY; SHELL OIL CO

70) Family number: 30045938 (US2003222981A)

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Title: LOCOMOTIVE WIRELESS VIDEO RECORDER AND RECORDING SYSTEM

Abstract: A video recorder system carried on-board a railroad locomotive for recording images relating to events of interest in a vicinity of the locomotive and transmitting the images to a location off-board of the locomotive, the system comprising: an audio/video system with a camera mounted on the locomotive for imaging an environment in a vicinity of the locomotive, the camera transmitting imaging data indicative of images acquired; and data storage on-board the locomotive in communication with the camera for storing the imaging data. The system also includes a processor on-board the locomotive in communication with the data storage for identifying and retrieving selected imaging data of interest from the data storage. Optionally the system may further include a wireless communication system on-board the locomotive in communication with said processor for transmitting signals associated with the selected imaging data of interest to a location off-board of the locomotive and receiving commands and information from off board the locomotive.

Classifications:

International (ipc 8-9): A41D19/00 A63H17/395 A63H19/24 A63H30/04 B60K31/00 B60M B60Q9/00 B60R1/00 B60W10/04 B60W10/20 B60W30/00 B60W30/18 B60W40/12 B60W50/04 B61K B61K9/00 B61K9/08 B61L B61L15/00 B61L23/00 B61L23/04 B61L25/00 B61L25/02 B61L27/00 B62D15/02 B64C1/36 B64C29/02 B64C39/02 B64D47/08 G01B7/14 G01M17/08 G01N21/84 G01R19/155 G01R29/08 G05D1/00 G05D1/02 G06F16/29 G06K9/00 G06K9/46 G06K9/62 G06T7/00 G06T7/20 G06T7/55 G08B13/196 G08B21/02 G08B21/18 G08C17/00 G08G1/00 G11B27/031 G11B27/28 H01Q1/22 H01Q1/27 H01Q9/04 H04L29/08 H04N21/2187 H04N21/8549 H04N5/225 H04N5/232 H04N5/77 H04N7/00 H04N7/18 H04N9/47 (Advanced/Invention); B61L23/04 H04N5/33 H04N7/18 (Advanced/Non-invention); B61L15/00 B61L23/00 B61L25/00 B61L27/00 G05D1/02 H04N5/77 H04N7/00 H04N7/18 H04N9/44 (Core/Invention)

International (ipc 1-7): B61L23/04 B61L25/00 G08C17/00 H04N5/225 H04N5/76 H04N5/77 H04N7/18

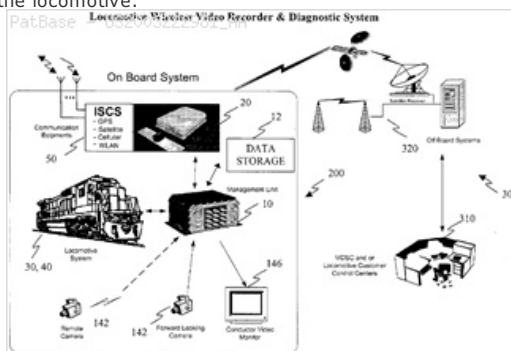
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European: B61L15/00B1 B61L15/00H B61L15/00K B61L23/04 B61L23/04B1 B61L23/04B3 B61L23/04B4 B61L25/02A B61L25/02B B61L25/02C B61L25/02D B61L27/00G B61L27/00H1 B61L27/00H2 G05D1/02E6V G06T7/00P1 G06T7/00P1E G06T7/20C G07C5/00T G07C5/08R4C H04N5/76 H04N7/18 H04N7/18D L61L205/04 S05D1/02E14B S05D1/02E14D S05D1/02E16B S05D1/02E6B S06T207/10016 S06T207/30252 S08G1/20 T04N5/765 T04N5/77 T04N5/775 T04N5/907 T04N9/79M T04N9/804B T04N9/806S T04N9/82N

US: 1/1 343/872 348/116 348/116P 348/129 348/144 348/148 348/148P 348/149 348/150 348/158 348/E7.085 348/E7.087 348/E70.85S 348/E70.87S 382/104 382/108 382/190 386/E5.001 386/E50.01S 701/28

Family:

Publication number	Publication date	Application number	Application date
AU2013315497 AA	20150402	AU20130315497	20130912
AU2015217470 AA	20160922	AU20150217470	20150204
AU2015217535 AA	20161006	AU20150217535	20150130
AU2015217535 AA	20150820	AU20150217535	20150130
AU2015217535 AA	20161006	AU20150217535	20150130
AU2015217536 AA	20160922	AU20150217536	20150130
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AU2015218266 AA	20161006	AU20150218266	20150217
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AU2017206244 AA	20170810	AU20170206244	20170720
AU2018202825 AA	20180510	AU20180202825	20180424
AU2019205977 AA	20190801	AU20190205977	20190715
AU2019213309 AA	20190822	AU20190213309	20190805
BR112015005543 A2	20171003	BR20151105543	20130912
BR112015011644 A2	20171003	BR20151111644	20131121
CA2429324 AA	20031204	CA20032429324	20030522
CA2587272 AA	20070510	CA20052587272	20051103
CA2884670 AA	20150312	CA20132884670	20130912
CN101484346 A	20090715	CN200780024969	20070511



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CN106061822 A	20161026	CN201580014352	20150130
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CN106462729 A	20170222	CN201580020135	20150204
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CN106537900 A	20170322	CN201580020130	20150130
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DE112016001257 T5	20171130	DE201611001257T	20160311
DE602015006293 D1	20180104	DE201560006293T	20150907
EP2038159 A2	20090325	EP20070783663	20070511
EP2896199 A2	20150722	EP20130770576	20130912
EP2896199 A4	20160824	EP20130770576	20130912
EP2993105 A2	20160309	EP20150184083	20150907
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WO08005620 A3	20080228	WO2007US68780	20070511
WO08144163 A1	20081127	WO2008US61478	20080425
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WO19173197 A1	20190912	WO2019US20517	20190304
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Priority:

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Probable Assignee: GE GLOBAL SOURCING LLC

Assignee(s): (std): GE GLOBAL SOURCING LLC ; GEN ELECTRIC ; KISAK JEFFREY JAMES ; SHAFFER GLENN R ; GENERAL ELECTRIC CO ; SHAFFER GLENN ROBERT ; MENDONCA PAULO R ; GENERAL ELECTRIC COMPANY ; KUMAR AJITH K ; KUMAR AJITH KUTTANNAIR ; MENDONCA PAULO RICARDO ; BALLESTY DANIEL MALACHI ; BHOTIKA RAHUL ; CHUNG WING YEUNG ; DAVENPORT DAVID M ; DAVENPORT DAVID MICHAEL

Assignee(s): GAO DASHAN ; BALLESTY DANIEL ; CITIBANK NA COLLATERAL AGENT AS ; GENERAL ELECTRIC CO SCHENECTADY ; YU TING ; TU PETER HENRY ; YAO YI ; WAYNE FUELING SYSTEMS LLC

Inventor(s): (std): KISAK JEFFREY JAMES ; SHAFFER GLENN R ; BALLESTY DANIEL ; CHUNG WING YEUNG ; CHUNG WING Y ; BALLESTY DANIEL M ; KISAK JEFFREY J ; WING YEUNG CHUNG ; BALLESTY DANIEL MALACHI ; SHAFFER GLENN ROBERT ; BHOTIKA RAHUL ; DAVENPORT DAVID M ; MENDONCA PAULO R ; KUMAR AJITH K ; KUMAR AJITH KUTTANNAIR ; YU TING ; GAO DASHAN ; YAO YI ; MARIMUTHU PRABHU ; SRIDHARAN ARUNACHALA KARTHIK ; MADHAVAN SETHU ; PIPPALLA MANIBABU ; GOVINDAPPA SURESH ; TU PETER HENRY ; CLIFTON STEVEN ; LAMBDIN THOMAS ELDRED ; SBIHLI SCOTT LEO ; SOORIANARAYANAN SEKHAR ; DOMKE MICHAEL CHRISTOPHER ; WARD ROBERT CARROLL ; MESSINGER JASON HOWARD ; OLSON DANIEL L ; VIRGEN JOSE LUIS R ; SMITH WYATT ; STOFFEL NANCY CECELIA ; CHEN CHENG PO ; MAYTON JEFFREY ; GUSHEE CHRISTOPHER ; BROOKSBY GLEN WILLIAM ; ANDARAWIS EMAD ANDARAWIS ; FRIES JEFFREY MICHAEL ; PLOTNIKOV YURI ALEXEYEVICH ; BOYANAPALLY SRILATHA ; EHRET STEVEN JOSEPH ; FAHMY SAMEH ; DAUM WOLFGANG ; COOPER JARED KLINEMAN ; HOUPPT PAUL KENNETH ; MCKAY DAVID LOWELL ; NOFFSINGER JOSEPH FORREST ; RUSH DANIEL ; PAGET MARTIN ; NIKHIL UDAY NAPHADE ; SCOTT DANIEL NELSON ; NARRA KRISHNA CHAITANYA ; BHAGWATKAR ADEESH SHIVKANT ; DSOUZA SHARON ; ANJU BIND ; SREYASHI DEY CHAKI ; DATTARAJ JAGDISH RAO ; NIDHI NAITHANI ; BLAIR MATHEW LAWRENCE ; RAO DATTARAJ JAGDISH ; DIDOMENICO DALE MARTIN ; COSTA BRAD THOMAS ; DUNCAN JERRY ; SNYDER SENECA ; BLAIR MATTHEW LAWRENCE ; BIND ANJU ; CHAKI SREYASHI DEY ; NAITHANI NIDHI ; MINER MICHAEL SCOTT ; CLOUSE SHANNON JOSEPH ; RAO DATTARAJ JAGDISH ; AZAM ANWARUL ; NAPHADE NIKHIL UDAY ; NELSON SCOTT DANIEL ; KRAELING MARK BRADSHAW ; DAVENPORT DAVID MICHAEL ; MENDONCA PAULO RICARDO ; RAHUL BHOTIKA ; VROMAN DOUG ; BICALHO LIVIA ; BERGER CHRIS ; JOHNSON DEBRA ; OLSON DANIEL LEROY ; SMITH WYATT BEALE ; MAYTON JEFFREY ROSS ; VIRGEN JOSE LUIS ; GUSHEE CHRISTOPHER BRUCE ; SHAFFER GLEN ROBERT

Inventor(s): MENDONCA PAULO ; DAVENPORT DAVID ; SHAFFER GLENN ; NELSON SCOTT DANIEL MELBOURNE ; MITTI AARON RICHARD ; PETER HENRY TU ; DASHAN GAO ; TING YU ; YI YAO ; KISAK JEFFREY ; CHUNG WING ; YURI ALEXEYEVICH PLOTNIKOV ; STEVEN JOSEPH EHRET ; SRILATHA BOYANAPALLY ; JEFFREY MICHAEL FRIES ; AJITH KUTTANNAIR KUMAR ; JOSEPH FORREST NOFFSINGER ; JEFFREY JAMES KISAK ; DANIEL MALACHI BALLESTY ; GLEN ROBERT SHAFFER

Agent(s): PHILLIPS ORMONDE FITZPATRICK; CRAIG WILSON AND CO; ILLINGWORTH LAW WILLIAM ILLINGWORTH; BEUSSE BROWNLEE WOLTER MORA AND MAIRE PA; GENERAL ELECTRIC COMPANY, GLOBAL RESEARCH; GENERAL ELECTRIC CO GLOBAL RESEARCH; BEUSSE WOLTER SANKS MORA AND MAIRE PA; ROBERT; TERRY M; JOHN A; GE GLOBAL PATENT OPERATION; GLOBAL PATENT OPERATION; KRAMER JOHN A; DARLING JOHN; BUTSCHER JOSEPH M; SMALL PATENT LAW GROUP LLC; ZIOLKOWSKI PATENT SOLUTIONS GROUP SC; GNIBUS MICHAEL ET AL; KRAMER JOHN A ET AL; DOMBROWSKI JOANNA M ET AL; STANLEY SCOTT R

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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 YU ZA ZM ZW

71) Family number: 43588954 (US2009194269A)

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Title: THREE-PHASE HEATERS WITH COMMON OVERBURDEN SECTIONS FOR HEATING SUBSURFACE FORMATIONS

Abstract: A heating system for a subsurface formation is described. The heating system includes three substantially u-shaped heaters with first end portions of the heaters being electrically coupled to a single, three-phase wye transformer and second end portions of the heaters being electrically coupled to each other and/or to ground. The three heaters may enter the formation through a first common wellbore and exit the formation through a second common wellbore so that the magnetic fields of the three heaters at least partially cancel out in the common wellbores.

Classifications:

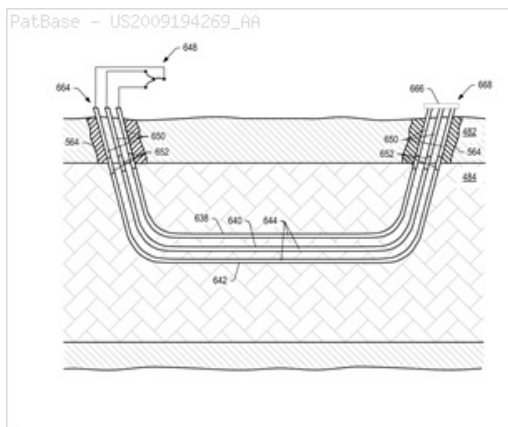
International (IPC 8-9): E21B36/00 E21B36/04

E21B43/24 (Advanced/Invention);

E21B36/00 E21B43/16 (Core/Invention)

CPC: E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F2511/00

E21B36/00 E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04
H01J37/32926 H01J37/32935 Y10T29/49083
European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4
T01F27/38
US: 166/302 166/302S 166/50 166/60 166/60P



Family:

Publication number	Publication date	Application number	Application date
US2009194269 AA	20090806	US20080250352	20081013
US8113272 BB	20120214	US20080250352	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 US20080250352 20081013

Probable Assignee:

SHELL OIL CO

Assignee(s): (std):

SHELL OIL CO ; VINEGAR HAROLD J

Assignee(s):

SHELL OIL COMPANY

Inventor(s): (std):

VINEGAR HAROLD J

Agent(s):

SHELL OIL COMPANY; SHELL OIL CO

72) Family number: 43623983 (US2009200031A)

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Title: IRREGULAR SPACING OF HEAT SOURCES FOR TREATING HYDROCARBON CONTAINING FORMATIONS

Abstract: A method for treating a hydrocarbon containing formation includes providing heat input to a first section of the formation from one or more heat sources located in the first section. Fluids are produced from the first section through a production well located at or near the center of the first section. The heat sources are configured such that the average heat input per volume of formation in the first section increases with distance from the production well.

Classifications:

International (IPC 8-9): E21B36/00 E21B36/04

E21B43/24 (Advanced/Invention);

E21B36/00 E21B43/16 (Core/Invention)

CPC: E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F25J1/00

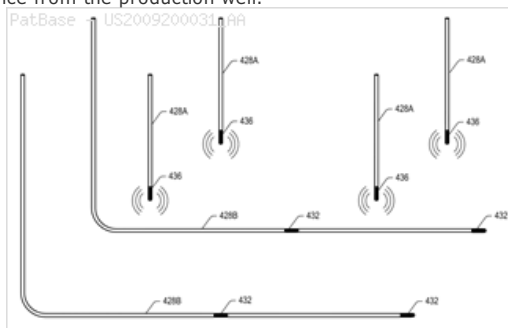
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European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4

T01F27/38

US: 166/272.1 166/279 166/302



Family:

Publication number	Publication date	Application number	Application date
US2009200031 AA	20090813	US20080250364	20081013
US8196658 BB	20120612	US20080250364	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 US20080250364 20081013

Probable Assignee:

SHELL OIL CO

Assignee(s): (std):

MILLER DAVID SCOTT ; SHELL OIL CO ; UWECHUE UZO PHILIP

Assignee(s):

SHELL OIL COMPANY

Inventor(s): (std):

UWECHUE UZO PHILIP ; MILLER DAVID SCOTT

Agent(s):

SHELL OIL COMPANY; SHELL OIL CO

73) Family number: 43623984 (US2009200022A)

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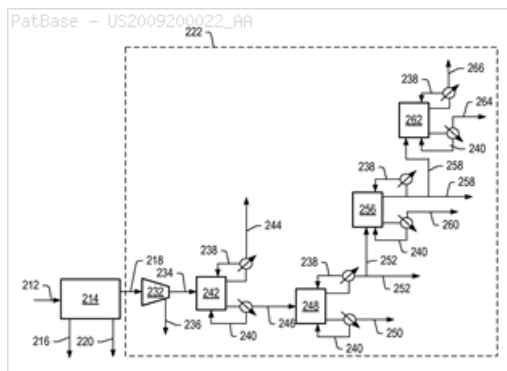
Title: CRYOGENIC TREATMENT OF GAS

Abstract: Systems and methods of treating a gas stream are described. A method of treating a gas stream includes cryogenically separating a first gas stream to form a second gas stream and a third stream. The third stream is cryogenically contacted with a carbon dioxide stream to form a fourth and fifth stream. A majority of the second gas stream includes methane and/or molecular hydrogen. A majority of the third stream includes one or more carbon oxides, hydrocarbons having a carbon number of at least 2, one or more sulfur compounds, or mixtures thereof. A majority of the fourth stream includes one or more of the carbon oxides and hydrocarbons having a carbon number of at least 2. A majority of the fifth stream includes hydrocarbons having a carbon number of at least 3 and one or more of the sulfur compounds.

Classifications:**International (IPC 8-9):** E21B43/22 E21B43/24 E21B43/243

E21B43/34 F25J3/02 (Advanced/Invention);

E21B43/16 F25J3/02 (Core/Invention)

CPC: E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F25J1/00
E21B36/00 E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04
H01J37/32926 H01J37/32935 Y10T29/49083**European:** E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4
T01F27/38**US:** 166/256 166/265 166/267 166/267S 166/310 62/620 62/620S**Family:**

Publication number	Publication date	Application number	Application date
US2009200022 AA	20090813	US20080250378	20081013
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Priority:

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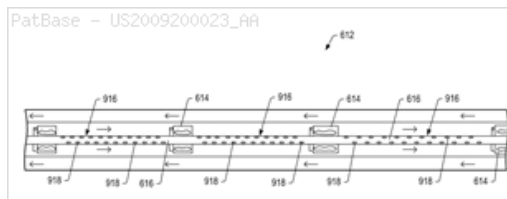
Probable Assignee: SHELL OIL CO**Assignee(s):** (std): BRAVO JOSE LUIS ; HARVEY III ALBERT DESTREHAN ; SHELL OIL CO ; VINEGAR HAROLD J**Assignee(s):** SHELL OIL COMPANY**Inventor(s):** (std): VINEGAR HAROLD J ; HARVEY III ALBERT DESTREHAN ; BRAVO JOSE LUIS**Agent(s):** SHELL OIL COMPANY; SHELL OIL CO**74) Family number: 43623989 (US2009200023A)**

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Title: HEATING SUBSURFACE FORMATIONS BY OXIDIZING FUEL ON A FUEL CARRIER**Abstract:** A method of heating a portion of a subsurface formation includes drawing fuel on a fuel carrier through an opening formed in the formation. Oxidant is supplied to the fuel at one or more locations in the opening. The fuel is combusted with the oxidant to provide heat to the formation.**Classifications:****International (IPC 8-9):** E21B36/00 E21B36/02 E21B43/24

E21B43/243 (Advanced/Invention);

E21B36/00 E21B43/16 (Core/Invention)

CPC: E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F25J1/00
E21B36/00 E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04
H01J37/32926 H01J37/32935 Y10T29/49083**European:** E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4
T01F27/38**US:** 166/256 166/256S 166/257 166/260 166/302 166/58 166/58S**Family:**

Publication number	Publication date	Application number	Application date
US2009200023 AA	20090813	US20080250393	20081013
US8276661 BB	20121002	US20080250393	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 US20080250393 20081013

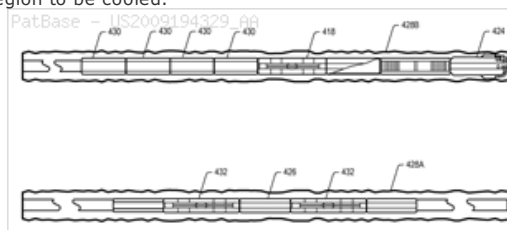
Probable Assignee: SHELL OIL CO**Assignee(s):** (std): COSTELLO MICHAEL ; SHELL OIL CO ; VINEGAR HAROLD J**Assignee(s):** SHELL OIL COMPANY**Inventor(s):** (std): COSTELLO MICHAEL ; VINEGAR HAROLD J**Agent(s):** SHELL OIL COMPANY; SHELL OIL CO**75) Family number: 43588990 (US2009194329A)**

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Title: METHODS FOR FORMING WELLBORES IN HEATED FORMATIONS**Abstract:** A method for forming a wellbore in a heated formation includes flowing liquid cooling fluid to a bottom hole assembly in a wellbore in a heated formation. At least a portion of the liquid cooling fluid is vaporized at or near a region to be cooled. Vaporizing the liquid cooling fluid absorbs heat from the region to be cooled.**Classifications:****International (IPC 8-9):** E21B21/12 E21B36/00

E21B7/00 (Advanced/Invention);

E21B36/00 E21B7/00 (Core/Invention)

CPC: E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F25J1/00
E21B36/00 E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04
H01J37/32926 H01J37/32935 Y10T29/49083**European:** E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4
T01F27/38**US:** 175/17 175/17P 175/209 175/65**Family:**

Publication number	Publication date	Application number	Application date
US2009194329 AA	20090806	US20080250288	20081013
US8272455 BB	20120925	US20080250288	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 US20080250288 20081013

Probable Assignee: SHELL OIL CO

Assignee(s): (std): GUIMERANS ROSALVINA RAMONA ; MANSURE ARTHUR JAMES ; SHELL OIL CO

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): GUIMERANS ROSALVINA RAMONA ; MANSURE ARTHUR JAMES

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

76) Family number: 43953995 (US2009272533A)

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Title: HEATED FLUID FLOW IN MINES AND TUNNELS USED IN HEATING SUBSURFACE HYDROCARBON CONTAINING FORMATIONS

Abstract: A system for treating a subsurface hydrocarbon containing formation includes one or more shafts. A first substantially horizontal or inclined tunnel extends from one or more of the shafts. A second substantially horizontal or inclined tunnel extends from one or more of the shafts. Two or more heat source wellbores extend from the first tunnel to the second tunnel. The heat source wellbores are configured to allow heated fluid to flow through the wellbores from the first tunnel to the second tunnel.

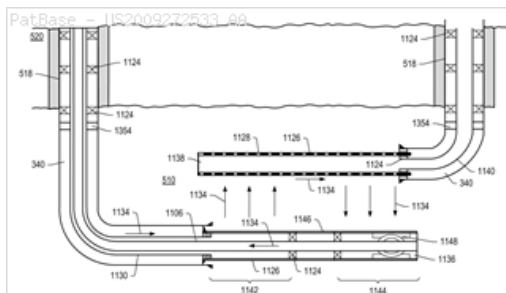
Classifications:

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E21B36/00 E21B43/16 (Core/Invention)

CPC: E21B7/068 E21B3/00 E21B4/04 E21B47/06 C10G21/22 C10G21/28 C10G2300/207 C10G2300/301 C10G2300/302 C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42 C10G2300/807 C10G2400/02 E21B7/18 E21B10/003 E21B19/08 E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04 E21B43/119 E21B43/2401 E21B43/2403 E21B43/243 E21B43/281 E21B43/30 E21B43/305 E21B47/022

US: 166/272.1 166/272.100S 166/272.7 166/272.700P 166/57 166/57S 166/62 166/62S 299/2



Publication number	Publication date	Application number	Application date
US2009272535 AA	20091105	US20090422088	20090410
US8162405 BB	20120424	US20090422088	20090410

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422088 20090410

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; MACDONALD DUNCAN CHARLES ; MARWEDE JOCHEN ; PRINCE WRIGHT ROBERT GEORGE ; SHELL OIL CO

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): MARWEDE JOCHEN ; MACDONALD DUNCAN CHARLES ; BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; PRINCE WRIGHT ROBERT GEORGE

Inventor(s): HWANG HORNG JYE (JAY)

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

78) Family number: 43623998 (US2009200025A)

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Title: HIGH TEMPERATURE METHODS FOR FORMING OXIDIZER FUEL

Abstract: A method of treating a formation fluid includes providing formation fluid from a subsurface in situ heat treatment process. The formation fluid is separated to produce a liquid stream and a first gas stream. The first gas stream includes carbon dioxide, hydrogen sulfide, hydrocarbons, hydrogen or mixtures thereof. Molecular oxygen is separated from air to form a molecular oxygen stream comprising molecular oxygen. The first gas stream is combined with the molecular oxygen stream to form a combined stream comprising molecular oxygen and the first gas stream. The combined stream is provided to one or more downhole burners.

Classifications:

International (IPC 8-9): E21B36/02 E21B43/24 E21B43/34

E21B43/40 (Advanced/Invention);

E21B36/00 E21B43/16 E21B43/34 (Core/Invention)

CPC: E21B7/04 E21B43/243 E21B44/00 E21B47/02216 F2511/00

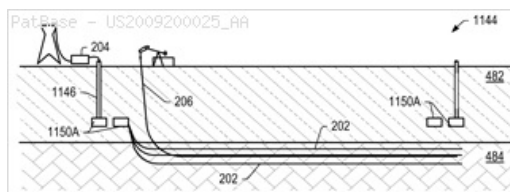
E21B36/00 E21B36/04 E21B43/24 E21B43/30 H01F27/38 H01F29/04

H01J37/32926 H01J37/32935 Y10T29/49083

European: E21B43/24 H01F29/04 H01J37/32S2 H01J37/32S4

T01F27/38

US: 166/265 166/267 166/302 166/59 166/59S 166/75.12



Family:

Publication number	Publication date	Application number	Application date
US2009200025 AA	20090813	US20080250360	20081013
US7866388 BB	20110111	US20080250360	20081013

Priority:

US20070999839P 20071019 US20080046329P 20080418 US20080250360 20081013

Probable Assignee: SHELL OIL CO

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Inventor(s): (std): BRAVO JOSE LUIS

Agent(s): SHELL OIL COMPANY; SHELL OIL CO

79) Family number: 43953999 (US2009272536A)

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Title: HEATER CONNECTIONS IN MINES AND TUNNELS FOR USE IN TREATING SUBSURFACE HYDROCARBON CONTAINING FORMATIONS

Abstract: A system for treating a subsurface hydrocarbon containing formation includes one or more shafts. At least two substantially horizontal or inclined tunnels extend from one or more of the shafts. A plurality of heat sources are located in at least one heat source wellbore extending between at least two of the substantially horizontal tunnels. Electrical connections for the heat sources are located in at least one of the substantially horizontal tunnels.

Classifications:

International (IPC 8-9): E21B36/00 E21B36/04 E21B43/00

E21B43/24 (Advanced/Invention);

E21B36/00 E21B43/16 (Core/Invention)

CPC: E21B7/068 E21B3/00 E21B4/04 E21B47/06 C10G21/22

C10G21/28 C10G2300/207 C10G2300/301 C10G2300/302

C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42

C10G2300/807 C10G2400/02 E21B7/18 E21B10/003 E21B19/08

E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04

E21B43/119 E21B43/2401 E21B43/2403 E21B43/243 E21B43/281

E21B43/30 E21B43/305 E21B47/022

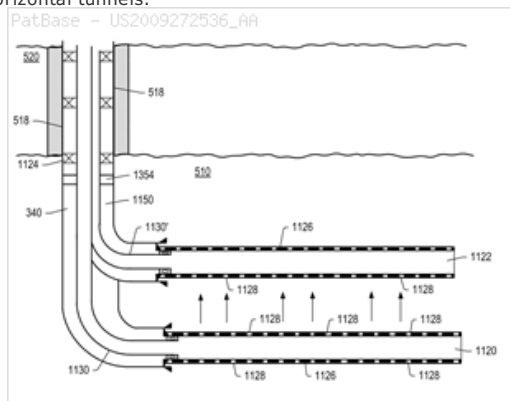
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E21B43/30 E21B43/30B E21B47/022 E21B7/18

US: 166/302 166/381 166/381S 166/50 166/50S 166/60 166/60S 299/2



Family:

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US2009272536 AA	20091105	US20090422098	20090410
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US20080046329P 20080418

US20080104974P 20081013

US20090422098 20090410

Probable Assignee: SHELL OIL CO**Assignee(s):** (std): BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; MACDONALD DUNCAN CHARLES ; MARWEDE JOCHEN ; PRINCE WRIGHT ROBERT GEORGE ; SHELL OIL CO**Assignee(s):** SHELL OIL COMPANY**Inventor(s):** (std): MARWEDE JOCHEN ; MACDONALD DUNCAN CHARLES ; BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; PRINCE WRIGHT ROBERT GEORGE**Inventor(s):** HWANG HORNG JYE (JAY)**Agent(s):** SHELL OIL COMPANY; SHELL OIL CO