

Search history

Search 1: FT=(sampling and subsoil and valve and handle) (Results 31)

1) Family number: 77875085 (US2020071191A)

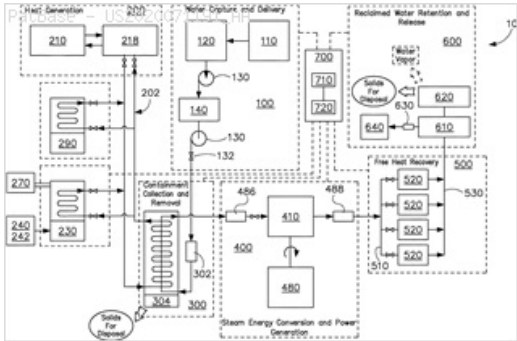
© PatBase

Title: SYSTEMS AND METHODS FOR WATER RECLAMATION

Abstract: A system for processing wastewater includes a wastewater source, a biomass burner, and a first heat exchanger. The biomass burner is configured to receive biomass from a biomass source, combust the biomass to produce heat and ash, receive a thermal transfer fluid, and heat the thermal transfer fluid using the heat produced from the combustion of the biomass. The first heat exchanger is configured to heat the wastewater to produce steam. The first heat exchanger includes a first inlet, a second inlet, a first outlet, a second outlet, and a third outlet. The first inlet is configured to receive the wastewater from the wastewater source. The second inlet is configured to receive the thermal transfer fluid from the biomass burner. The first outlet is configured to discharge the steam. The second outlet is configured to discharge the thermal transfer fluid.

Classifications:

International (IPC 8-9): C02F1/04 C02F1/10 C02F1/14 C02F1/16 (Advanced/Invention)
CPC: C02F1/043 C02F1/10 C02F2101/12 C02F1/16 C02F1/14 C02F2101/32 C02F2103/325 C02F2103/327 C02F2103/365 C02F11/06 C02F2103/20 C02F2303/10



Family:

Publication number	Publication date	Application number	Application date
US2020071191 AA	20200305	US20180115465	20180828

Priority:

US20180115465 20180828

Probable Assignee: MORNINGSIDE VENTURE INVESTMENTS LTD

Assignee(s): (std): MORNINGSIDE VENTURE INVESTMENTS LTD

Assignee(s): TRENEW LLC ; COMBINED SOLAR TECHNOLOGIES INC ; CONEFLOWER INC

Inventor(s): (std): SCHUBERT FRANK

2) Family number: 63918102 (US2018024271A)

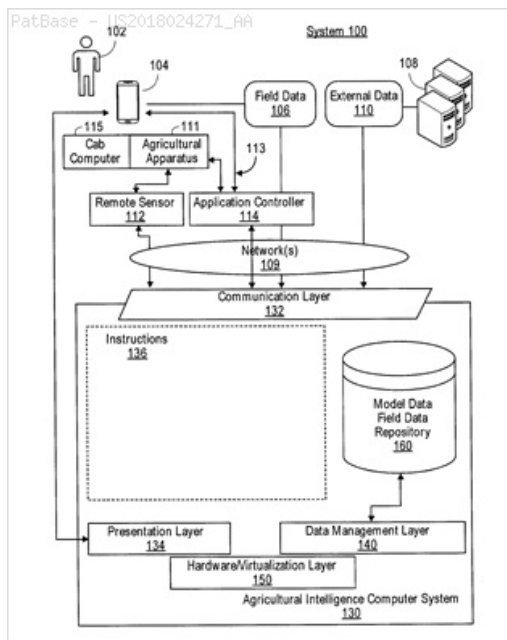
© PatBase

Title: SYSTEMS, METHODS, AND DEVICES FOR MONITORING WEATHER AND FIELD CONDITIONS

Abstract: Described herein are systems and method for monitoring weather conditions and controlling field operations based on the weather conditions. In one embodiment, a system for monitoring weather conditions for field operations includes a plurality of weather devices for monitoring weather conditions of fields with at least at one weather device in proximity to each field being monitored and at least one weather device having an electronics module for determining weather data including precipitation data. The system also includes an agricultural computer system having at least one processing unit for executing instructions for monitoring weather conditions. The at least one processing unit is configured to execute instructions to receive weather data from the plurality of weather devices for monitoring weather conditions of fields, to process the weather data, and to generate data including precipitation rate for monitoring weather conditions and operations of the plurality of weather devices.

Classifications:

International (IPC 8-9): G01F G01F1/00 G01N G01N33/24 G01W G01W1/02 G01W1/14 (Advanced/Invention)
CPC: G01F3/00 G01W1/02 G01W1/14
US: 1/1 702/3



Family:

Publication number	Publication date	Application number	Application date
AR104457 AA	20170719	AR2016P101231	20160429
AU2016255777 AA	20180215	AU20160255777	20160427
CA2984251 AA	20171027	CA20162984251	20160427
EP3295225 A1	20180321	EP20160787088	20160427
EP3295225 A4	20190417	EP20160787088	20160427
US2018024271 AA	20180125	US20160551582	20160427
WO16176355 A1	20161103	WO2016US29609	20160427
ZA201708019 A	20190529	ZA20170008019	20160427

Priority:

US20150154207P 20150429 US20150175160P 20150612 US20150198060P 20150728
US20150220852P 20150918 WO2016US29609 20160427 US20160551582 20160427

Probable Assignee: CLIMATE CORP

Assignee(s): (std): CLIMATE CORP ; PREC PLANTING LLC

Assignee(s): PRECISION PLANTING LLC ; SWANSON TODD ; KOCH DALE ; KOCH JUSTIN

Inventor(s): (std): DALE KOCH ; JUSTIN KOCH ; KOCH DALE ; KOCH JUSTIN ; SWANSON TODD ; TODD SWANSON

Agent(s): ELLIS TERRY; RIDOUT AND MAYBEE LLP; BOTTI MARIO

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

3) Family number: 11583102 (US5906454A)

© PatBase

Title: ENVIRONMENTAL POROUS OVERLAYER AND PROCESS OF MAKING THE SAME

Abstract: A solid state porous rubber overlayment friction course is formed from recycled rubber, plastic and/or other products, and facilitates drainage of standing water from the road surface. The overlayment may have holes running through its surface to expedite water drainage, and also may have grooves on its undersurface.

Classifications:

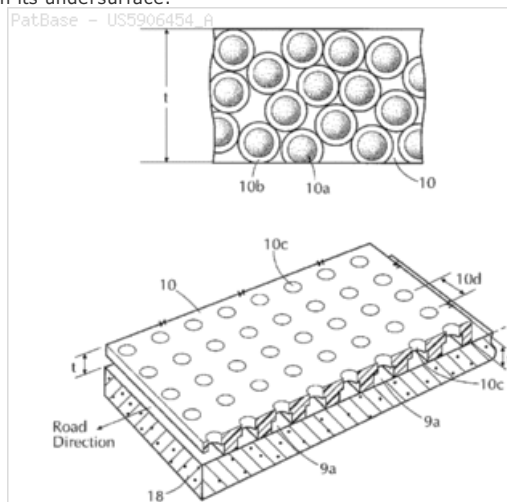
International (IPC 8-9): E01C11/22 E01C19/10 E01C19/17
E01C19/46 E01C7/30 E01C7/32 (Advanced/Invention);
E01C11/00 E01C19/00 E01C19/02 E01C7/00 (Core/Invention)

International (IPC 1-7): E01C5/18

CPC: E01C19/104 E01C11/226 E01C7/30 E01C7/32 E01C19/1004
E01C19/17 E01C19/46 E01C2201/207 Y02A30/32

European: E01C11/22C2B E01C19/10B E01C19/17 E01C19/46
E01C7/30 E01C7/32 P01C201/20H4

US: 404/2 404/32



Family:

Publication number	Publication date	Application number	Application date
US5906454 A	19990525	US19970798128	19970212

Priority:

US19970798128 19970212

Probable Assignee: JOHN J MEDICO JR PE AND CHRISTINE MEOLI MEDICO FAMILY TRUST

Assignee(s): (std): MEDICO CHRISTINE MEOLI ; MEDICO III JOHN C ; MEDICO JR JOHN J ; MEDICO PETER J

Assignee(s): JOHN J MEDICO JR ; JOHN J MEDICO JR PE AND CHRISTINE MEOLI MEDICO FAMILY TRUST

Inventor(s): (std): MEDICO JR JOHN J ; MEDICO CHRISTINE MEOLI ; MEDICO PETER J ; MEDICO III JOHN C

4) Family number: 60450158 (EP2923803A1)

© PatBase

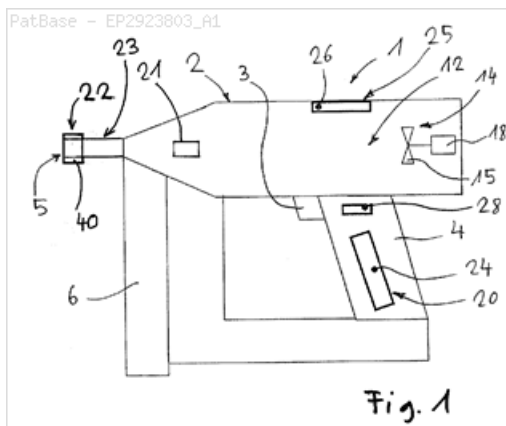
Title: METHOD AND IMPLEMENT FOR DRIVING IN FASTENERS PROCEDE ET APPAREIL DE TRAVAIL DESTINE A ENFONCER DES ELEMENTS DE FIXA

Abstract: Source: EP2923803A1 [DE] Die Erfindung betrifft ein Verfahren zum Eintreiben von Befestigungselementen in einen Untergrund mit Hilfe eines handgeführten Arbeitsgeraets (1), wobei nach einem Setzvorgang erfasst wird, ob und/oder wie weit ein gesetztes Befestigungselement aus dem Untergrund vorsteht. Um die Qualitaet von Setzvorgaengen weiter zu verbessern, wird der Befestigungselementvorstand von mindestens einem aktuellen oder vorangegangenen Setzvorgang kapazitiv oder induktiv erfasst. **Machine translation:** The invention relates to a method for driving fasteners into a substrate by means of a hand-held Arbeitsgeraets (1), is being recognized for a setting process, whether and / or how far a set fastener protrudes from the underground. In order to improve the quality of Setzvorgaengen further, the fastener board of at least one current or previous setting operation is detected capacitively or inductively.

Classifications:

International (IPC 8-9): B25C1/00 B25F5/00 (Advanced/Invention)

CPC: B25C1/08



Family:

Publication number	Publication date	Application number	Application date
EP2923803 A1	20150930	EP20140162069	20140327

Priority:

EP20140162069 20140327

Probable Assignee: HILTI AG

Assignee(s): (std): HILTI AG

Inventor(s): (std): GEROLD UWE ; WELTE NORBERT

Agent(s): HILTI CORPORATE INTELLECTUAL PROPERTY AG

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

5) Family number: 11753185 (US5971657A)

© PatBase

Title: PAVING MACHINE FOR FORMING POROUS PAVEMENT CONSTRUCTION

Abstract: A paving machine forms aqueduct channels using a screed assembly having elongated forming arms, and deposits pavement material onto these arms. As the machine advances, channels are formed in the pavement layer. This results in a porous pavement material having a number of aqueduct channels formed underneath the pavement surface, so that water can percolate downward into the pavement and enter the channels.

Classifications:

International (IPC 8-9): B28C5/08 B28C7/12 B28C9/04 E01C11/22

E01C19/10 E01C19/45 E01C19/46 E01C23/03 E01C3/00 E01C7/14

E01C7/30 (Advanced/Invention);

B28C5/00 B28C7/00 B28C9/00 E01C11/00 E01C19/00 E01C19/02

E01C23/00 E01C3/00 E01C7/00 (Core/Invention)

International (IPC 1-7): E01C19/18

CPC: Y02A30/32 B28C5/0875 B28C7/126 B28C9/04 E01C3/003

E01C7/142 E01C7/30 E01C11/226 E01C19/1004 E01C19/1045

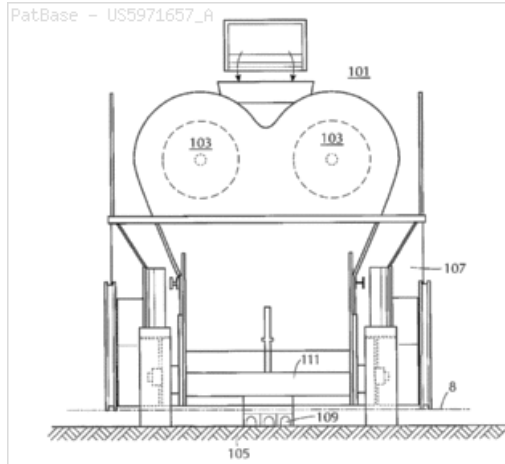
E01C19/1068 E01C19/45 E01C19/46 E01C23/03 E01C2201/207

European: B28C5/08F B28C7/12B B28C9/04 E01C11/22C2B

E01C19/10B E01C19/10D5B E01C19/10G3 E01C19/45 E01C19/46

E01C23/03 E01C3/00B E01C7/14B E01C7/30 P01C201/20H4

US: 404/101 404/92

**Family:**

Publication number	Publication date	Application number	Application date
US5971657 A	19991026	US19970798125	19970212

Priority:

US19970798125 19970212

Probable Assignee: MEDICO JOHN J JR PE AND CHRISTINE MEOLI MEDICO FAMILY TRUST**Assignee(s):** (std): MEDICO CHRISTINE MEOLI ; MEDICO III JOHN C ; MEDICO JR JOHN J ; MEDICO PETER J**Assignee(s):** MEDICO JOHN J ; MEDICO JOHN J JR PE AND CHRISTINE MEOLI MEDICO FAMILY TRUST**Inventor(s):** (std): MEDICO CHRISTINE MEOLI ; MEDICO III JOHN C ; MEDICO JR JOHN J ; MEDICO PETER J**6) Family number: 32610188 (US2010163226A)**

© PatBase

Title: SUPERCRITICAL FLUID RECOVERY AND REFINING OF HYDROCARBONS FROM HYDROCARBON-BEARING FORMATIONS APPLYING FUEL CELL GAS IN SITU

Abstract: A plume of combined gases are infused into hydrocarbon-bearing formations, "inert" as the major gas and "reactive" as the minor gas, where the minor gas reacts with hydrocarbons to fully saturate hydrocarbons with supercritical fluid, which migrate hydrocarbons out of formations, even at great distances from the regulated fuel cell source. Coal, tar sands, petroleum-contaminated soil, and/or oil wells that have lost gas pressure can also be desorbed by this in-situ method.

Classifications:

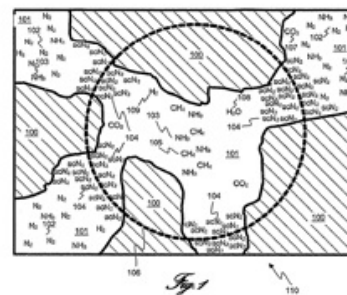
International (IPC 8-9): B64C1/40 C09K8/594 E21B33/10 E21B43/00 E21B43/08 E21B43/16 E21B43/22 E21B43/24 E21B43/243 E21B43/25 E21B47/00 F03D3/00 H01M8/18 (Advanced/Invention); B64C1/00 C09K8/58 E21B33/10 E21B43/16 E21B43/25 E21B47/00 F03D3/00 H01M8/18 (Core/Invention)

International (IPC 1-7): H01M8/18

CPC: H01M8/186 Y02E60/528 E21B36/02 E21B43/243 Y02B10/30 Y02B90/16 E21B43/2401 E21B41/0085 H01M8/04022 H01M8/0612 H01M8/0643 H01M2250/405 Y02P20/544 E21B43/168 B64C1/068 H01M8/244 H01M8/2425

European: B64C1/06S E21B36/02 E21B41/00R E21B43/16G2 E21B43/243 E21B43/24B H01M8/04B2C H01M8/06B2 H01M8/06B2G H01M8/18C2 H01M8/24B2H T01M250/40D Y02B10/30 Y02B90/18 Y02E60/52J

US: 166/227 166/227S 166/268 166/271 166/272.1 166/302 166/302S 166/307 166/307S 166/309 166/371 166/67 166/67S

**Family:**

Publication number	Publication date	Application number	Application date
CA2691392 AA	20070215	CA20062691392	20060703
CA2717880 AA	20071018	CA20062717880	20061012
CN101663787 A	20100303	CN200680056619	20061012
EP2186156 A2	20100519	EP20060849844	20061012
IN00938MN2009 A	20090522	IN2009MN00938	20090512
IN02777MN2008 A	20090717	IN2008MN02777	20081229
IN310840 B	20190412	IN2009MN00938	20090512
IN325619 B	20191129	IN2008MN02777	20081229
US2010163226 AA	20100701	US20090307585	20090105
US2011290483 AA	20111201	US20110115108	20110524
US7946346 BB	20110524	US20060307585	20060703

WO06014548 A2	20060209	WO2005US24107	20050705
WO06014548 A3	20060810	WO2005US24107	20050705
WO07018844 A2	20070215	WO2006US26184	20060703
WO07018844 A3	20070628	WO2006US26184	20060703
WO07018844 C1	20080821	WO2006US26184	20060703
WO07117274 A2	20071018	WO2006US40399	20061012
WO07117274 A3	20080731	WO2006US40399	20061012
WO08076147 A2	20080626	WO2007US14470	20070619
WO08076147 A3	20080925	WO2007US14470	20070619
WO08076147 B1	20081106	WO2007US14470	20070619
WO09017468 A1	20090205	WO2007US15468	20070703

Priority:

US20040585203P	20040702	WO2005US24107	20050705	US20050697393P	20050706
US20050698745P	20050712	US20050712031P	20050827	US20050712639P	20050830
US20050712756P	20050830	US20050721013P	20050926	US20050726103P	20051012
WO2006US24159	20060619	WO2006US26184	20060703	US20060307585	20060703
WO2006US26603	20060706	WO2006US40399	20061012	US20090307585	20090105
US20110115108	20110524				

Probable Assignee: CRITICAL POINT ENERGY LLC

Assignee(s): (std): CRITICAL POINT ENERGY LLC ; ZORNES DAVID A ; ZORNES DAVID ALLEN

Inventor(s): (std): ZORNES DAVID A ; ZORNES DAVID ALLEN

Agent(s): HARRISON IVOR STANLEY; DAVID A ZORNES

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 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 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 YU ZA ZM ZW

7) Family number: 65167198 (MX2015003938A)

© PatBase

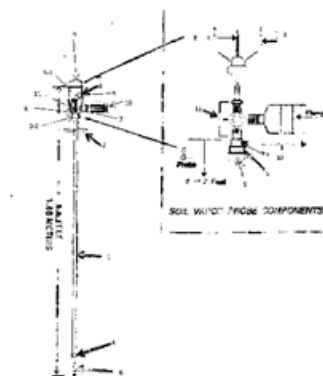
Title: PROBE SYSTEM FOR SAMPLING GASES FROM THE SUBSOIL AND SAMPLING PROCESS.

Abstract: Disclosed are a system and a probe for sampling gases in the ground, in which the sample can be slowly collected and the operator never comes into contact with the sample during the sampling or in the laboratory, thereby eliminating the possibility of contamination or altering the integrity of the sample. Furthermore, the sampling probe of gases in the subsoil is of low cost and easy access to areas with rugged topography and limited access ways, the probe being capable of being operated by small crews with two or three people, in which the groups of work can obtain a large number of samples during a working day and which use avoids, during the taking of samples, damages to the surface of the ground without alteration to the environment.

Classifications:

International (IPC 8-9): G01N1/02 G01N1/22 (Advanced/Invention)

PatBase - MX2015003938_A1



Family:

Publication number	Publication date	Application number	Application date
MX2015003938 A1	20160926	MX20150003938	20150326

Priority:

MX20150003938 20150326

Probable Assignee: EXPLOR TECH INC

Assignee(s): (std): EXPLOR TECH INC

Assignee(s): EXPLORATION TECHNOLOGIES INC

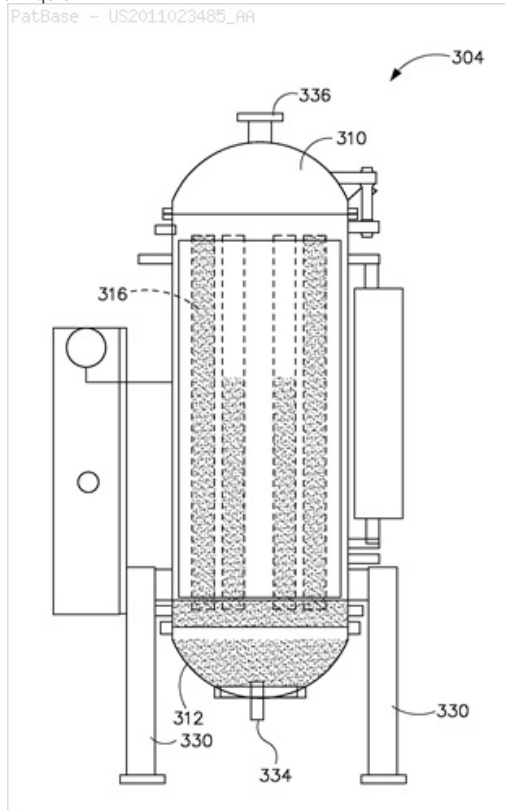
Inventor(s): (std): VICTOR THOMAS JONES III

Title: WATER RECLAMATION SYSTEM AND METHOD

Abstract: A system reclaiming contaminated water includes a heat exchanger that receives the contaminated water and converts at least a portion of the contaminated water into steam and collects at least a portion of the contaminants within the heat exchanger. A thermal transfer fluid is heated by a solar concentrator during daytime and by a biofuel combustion device during nighttime. The heated fluid is circulated through the heat exchanger to heat the contaminated water. A steam engine is coupled to a generator, the steam engine receives the steam from the heat exchanger to drive the generator to provide power for the system. Steam exhausted from the steam engine is supplied to supplemental heat loads. The collected contaminants are directed to an evaporation device to remove residual liquid.

Classifications:

International (IPC 8-9): B01D1/00 B01D3/02 B01D3/14 B63J4/00 C02F1/00 C02F1/04 C02F1/14 C02F103/10 C02F103/20 C02F103/32 C02F3/28 C02F9/00 C07C29/80 F01B31/00 F01K13/00 F01K17/00 F01K17/04 F01K23/10 F01K25/00 F01K25/06 F01K3/18 F01K7/34 F01K7/38 F01K9/00 F03G6/02 F22D1/02 F23B60/02 F23B80/02 F23B90/04 F24J2/04 F26B19/00 F28B5/00 F28D7/16 (Advanced/Invention); C02F1/14 C02F103/10 C02F103/20 C02F103/32 (Advanced/Non-invention); B01D1/00 C02F1/14 F03G6/00 F24J2/04 (Core/Invention)
CPC: F01K17/00 Y02E10/46 C02F3/28 C02F2103/10 C02F2103/32 C02F2103/322 C02F2103/325 C02F2103/327 C02F2201/009 C02F2303/10 F01K13/00 F23B60/02 F23B80/02 F23B90/04 F28B5/00 F28D7/16 Y02A20/212 Y02W10/30 C02F1/048 C02F1/14 C02F9/00 C02F2103/20 F01K3/18 F01K9/003 F01K23/10 Y02W10/37
European: C02F1/04Z C02F1/14 C02F9/00 C12N15/90B4 C12N9/22 F01K23/10 F01K3/18 F01K9/00B M02F1/04Z M02F1/14 M02F103/20 M12N799/02 M12N799/02A67 M12N800/80 Y02E10/46
US: 1/1 34/90 60/641.9 60/641.900P 60/648 60/648P 60/657 60/657S 60/670 60/670S 60/671 60/676 60/676S

**Family:**

Publication number	Publication date	Application number	Application date
■ CN102056847 A	20110511	CN200980121960	20090414
■ CN102056847 B	20130605	CN200980121960	20090414
■ DE602009026430 D1	20141016	DE200960026430T	20090414
■ DE602012040777 D1	20180118	DE201260040777T	20120710
■ EP2265550 A2	20101229	EP20090733547	20090414
■ EP2265550 B1	20140903	EP20090733547	20090414
■ EP2546478 A2	20130116	EP20120175670	20120710
■ EP2546478 A3	20140611	EP20120175670	20120710
■ EP2546478 B1	20171213	EP20120175670	20120710
■ ES2662357 T3	20180406	ES20120175670T	20120710
■ US2011023485 AA	20110203	US20090937173	20090414
■ US2011265474 AA	20111103	US20110182040	20110713
■ US2014283517 AA	20140925	US20140294939	20140603
■ US2018093902 AA	20180405	US20170833745	20171206
■ US2018201518 AA	20180719	US20180922099	20180315
■ US2018370815 AA	20181227	US20180114131	20180827
■ US8661819 BB	20140304	US20090937173	20090414
■ US8776522 BB	20140715	US20110182040	20110713
■ US9862620 BB	20180109	US20140294939	20140603
■ US9988283 BB	20180605	US20170833745	20171206
■ US10081556 BB	20180925	US20180922099	20180315
■ US10472256 BB	20191112	US20180114131	20180827
■ WO09129233 A2	20091022	WO2009US40516	20090414
■ WO09129233 A3	20091210	WO2009US40516	20090414

Priority:

US20080124247P	20080415	US20080192061P	20080912	US20090209765P	20090311
EP20090733547	20090414	US20090937173	20090414	WO2009US40516	20090414
US20100937173	20101008	US20110182040	20110713	EP20120175670	20120710
US20140294939	20140603	US20170833745	20171206	US20180922099	20180315
US20180114131	20180827				

Probable Assignee: MORNINGSIDE VENTURE INVESTMENTS LTD

Assignee(s): (std): COMBINED SOLAR TECH INC ; COMBINED SOLAR TECHNOLOGIES INC ; COMBINED SOLAR TECHNOLOGIES LL ; COMBINED SOLAR TECHNOLOGIES LLC ; MORNINGSIDE VENTURE INVESTMENTS LTD ; SCHUBERT FRANK ; MORNINGSIDE VENTURE INVEST LTD

Assignee(s): TRENEW LLC ; COMBINED SOLAR TECHNOLOGIES LLC PACIFIC GROVE ; CONEFLOWER INC ; COMBINED SOLAR TECHNOLOGIES INC TRACY

Inventor(s): (std): FRANK SCHUBERT ; SCHUBERT FRANK
Inventor(s): SCHUBERT FRANK TRACY
Agent(s): UEXKUELL AND STOLBERG; UEXKUELL AND STOLBERG PARTNERSCHAFT VON PATENT U RECHTSANWALTEN MBB; CARVAJAL Y ISABEL; FOLEY AND LARDNER LLP; LAZARUS JOHN M
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 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 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

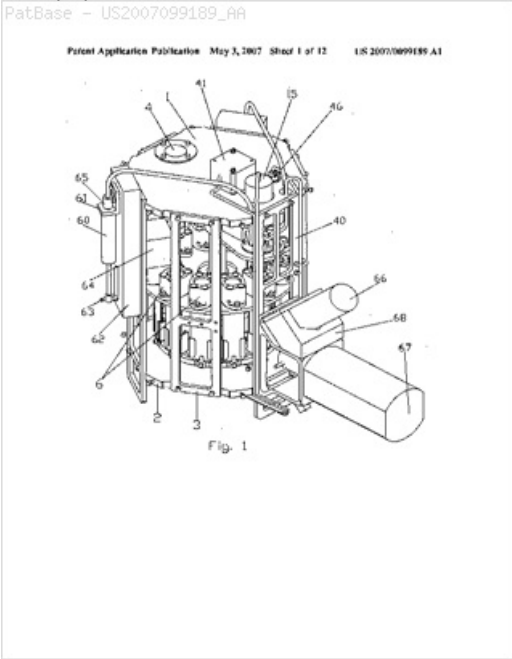
9) Family number: 31387262 (US2007099189A) © PatBase

Title: METHOD AND APPARATUS FOR DETECTING SUBSTANCES OR ANALYTES FROM THE ANALYSIS OF ONE OR MORE SAMPLES

Abstract: The invention relates to a method and apparatus for detecting substances or analytes from the analysis of one or several samples. The method comprises mixing the sample with a suitable liquid buffer, homogenizing said sample, adding reagents thereto, filtering it, injecting the sample into the incubation chamber, allowing the sample to react with a biosensor, washing the non-reacted sample excess and detecting the sample retained in the biosensor. The apparatus includes a sample homogenizer module with an ultrasonic piezoelectric device formed by a converter (49) and a horn (16); a sample processing module including a homogenization container (6) and a moving frame (17); a reagent and solution management module including a motorized syringe (60), a reaction module consisting of a support (50) forming a reaction chamber (51) and a data reading module including a laser diode (66) and a CCD camera (67).

Classifications:

International (IPC 8-9): B01L3/00 C12M1/34 C12Q1/68 G01N1/31 G01N33/50 G01N33/53 G01N33/566 G01N35/00 G01N35/04 G01N35/10 G01N37/00 (Advanced/Invention); G01N1/28 (Advanced/Non-invention); B01L3/00 C12M1/34 C12Q1/68 G01N1/30 G01N33/50 G01N33/53 G01N33/566 G01N35/00 G01N35/04 G01N35/10 G01N37/00 (Core/Invention); G01N1/28 (Core/Non-invention)
International (IPC 1-7): B01L3/00 C12Q1/68 G01N33/50
CPC: G01N1/31 G01N2001/2866
European: G01N1/31 S01N1/28M1
US: 422/50 435/287.2 435/287.200S 435/6 435/6.19 435/6.190P 435/6P 435/7.1 435/7.100S



Family:

Publication number	Publication date	Application number	Application date
AT542133 E	20120215	AT20040735244T	20040528
CN1833167 A	20060913	CN200480022382	20040528
DE602004036183 D1	20120322	DE200460036183T	20040528
EP1640718 A1	20060329	EP20040735244	20040528
EP1640718 B1	20120118	EP20040735244	20040528
ES2220227 AA	20041201	ES20030001292	20030530
ES2220227 BA	20060216	ES20030001292	20030530
JP2007501405 T2	20070125	JP20060530299T	20040528
JP4486964 B2	20100623	JP20060530299T	20040528
US2007099189 AA	20070503	US20040558936	20040528
US8097209 BB	20120117	US20040558936	20040528
WO04106922 A1	20041209	WO2004ES00244	20040528

Priority:

ES20030001292 20030530 EP20040735244 20040528 WO2004ES00244 20040528

Probable Assignee: CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS

Assignee(s): (std): CONSEJO SUPERIOR INVESTIGACION ; GOMEZ ELVIRA RODRIGUEZ JAVIER ; HERRERO GONZALO PEDRO LUIS ; INST NAC DE TECNICA AEROSPAIAL AND LDQUO EASTEBAN TERRADAS AND RDQUO ; INST NAC DE TECNICA AEROSPAI ; INST NAC DE TECNICA AEROSPAIAL ESTEBAN TERRADAS ; INST NAC DE TECNICA AEROSPAIAL SESTEBAN TERRADASS ; INST NAC TECNICA AEROSPAIAL S ESTEBAN TERRADASS ; LIGHTSMYTH TECHNOLOGIES INC ; PARRO GARCIA VICTOR ; PEREZ MERCADER JUAN ; RODRIGUEZ MANFREDI JOSE ANTONI ; RODRIGUEZ MANFREDI JOSE ANTONIO ; SEBASTIAN MARTINEZ EDUARDO ; SENER ING AND SIST ; SENER INGENIERIA SIST S S A ; INSTITUTO NACIONAL DE TECNICA AEROSPAIAL ESTEBA ; BRIONES LLORENTE CARLOS ; COMPOSTIZO SANUDO CARLOS ; SENER INGENIERIA Y SISTEMAS S A ; INST NAC DE TECNICA AEROSPAIAL EASTEBAN TERRADAS

Assignee(s): SENER INGENIERIA Y SISTEMAS SA ; CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS ; INSTITUTO NACIONAL DE TECNICA AEROSPAIAL ESTEBAN ; INSTITUTO NACIONAL DE TECNICA AEROSPAIAL ESTEBAN TERRADAS ; INSTITUTO NACIONAL DE TECNICA AEROSPAIAL ESTEBAN TERRADAS TORREJON DE ARDOZ ; INSTITUTO NACIONAL DE TECNICA AEROSPAIAL SESTEBAN TERRADASS ; SENER INGENIERIA SISTEMAS S A ; SENER INGENIERIA SISTEMAS SA ; SENER

INGENIERIA Y SISTEMAS LAS ARENAS SA ; INSTITUTIO NACIONAL DE TECNICA AEROESPACIAL ; INSTITUTO NACIONAL DE TECHNICA AEROESPACIAL EASTEB ; INSTITUTO NACIONAL DE TECHNICA AEROESPACIAL EASTEBAN TERRADAS ; INSTITUTO NACIONAL DE TECHNICA AEROSPACIAL EASTEBAN TERRADAS ; INSTITUTO NACIONAL DE TECNICA AEROESPACIAL ; INSTITUTO NACIONAL DE TECNICA AEROESPACIAL AND

Inventor(s): (std): HERRERO GONZALO PEDRO ; HERRERO GONZALO PEDRO LUIS ; PARRO GARCIA VICTOR ; PEREZ MERCADER JUAN ; RODRIGUEZ MANFREDI JOSE ; RODRIGUEZ MANFREDI JOSE ANTONI ; RODRIGUEZ MANFREDI JOSE ANTONIO ; SEBASTIAN MARTINEZ EDUARDO ; VICTO GOMEZ ELVIRA RODRIGUEZ J ; BRIONES LLORENTE CARLOS ; COMPOSTIZO SANUDO CARLOS ; GOMEZ ELVIRA RODRIGUEZ JAVIER

Inventor(s): GOMEZ ELVIRA RODRIGUEZ JAVIER SEBASTIAN ; GOMEZ ELVIRA RODRIGUEZ JAVIER SEBASTIAN MARTINEZ E ; GOMEZ ELVIRA RODRIGUEZ JAVIER SEBASTIAN MARTINEZ EDUARDO BRIONES LLORENTE CARLOS PARRO GARCIA VICTOR RODRIGUEZ MANFREDI JOSE ANTONI COMPOSTIZO SANUDOCARLOS HERRERO GONZALO PEDRO LUIS PEREZ MERCADER J

Agent(s): GHSKE GROSSE KLUPEL KROSS BUEROGEMEINSCHAFT VON PATENTANWALTEN; CARVAJAL Y URQUIJO ISABEL; MERCHANT AND GOULD PC

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 KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

10) Family number: 12580294 (US5524716A)

© PatBase

Title: Bi-directionally extensible tool driving apparatus

Abstract: A tool driving apparatus having an elongated mast which is collapsibly mounted on a transportable supporting base therefor, wherein the mast has a movable carriage slidably mounted thereon for movement along the length thereof. A first piston is mounted to the supporting base and is drivingly connected to the carriage mounted on the mast for providing slidable movement thereof, and a second piston is carried by the carriage and is drivingly connected to a separate tool, such as a soil probe. The first piston is disposed opposite relative to the second piston, such that extension of the first piston is in a direction opposite to that of the second, and whereby retraction of the first piston and extension of the second piston will cause the tool to be driven in one direction, and extension of the first piston and retraction of the second piston will cause the tool to be retracted in the opposite direction. For transportation of the tool driving apparatus, the mast collapses on the supporting base, which is equipped with wheels for transporting the same.

Classifications:

International (IPC 8-9): E21B15/00 E21B19/086 (Advanced/Invention);

E21B15/00 E21B19/00 (Core/Invention)

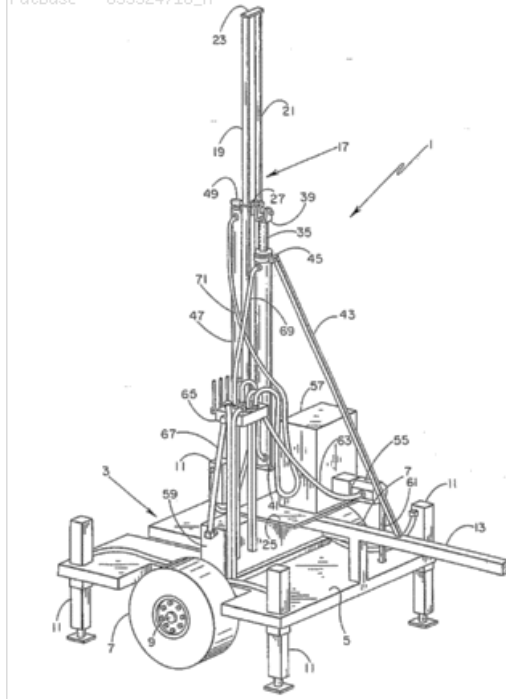
International (IPC 1-7): E21B19/14

CPC: E21B15/00 E21B19/086

European: E21B15/00 E21B19/086

US: 173/147 175/122 175/162 175/203 175/52

PatBase - US5524716_A



Family:

Publication number	Publication date	Application number	Application date
US5524716 A	19960611	US19950398607	19950306

Priority:

US19950398607 19950306

Probable Assignee:

WACHHOLZ INC

Assignee(s): (std):

WACHHOLZ INC

Inventor(s): (std):

WACHHOLZ WAYNE W

11) Family number: 20503330 (GB693363A)

© PatBase

Title: Improvements in or relating to earth boring apparatus

Abstract: 693,363. Core takers. CONSOLIDATED AFRICAN SELECTION TRUST, Ltd., and BROWN, H. F. April 2, 1951 [April 20, 1950], No. 9790/50. Class 85 An earth boring tool for core sampling comprises a drill tube 14 to the lower end of which is secured a drill bit 18 and a coaxially disposed cylindrical bucket 11 the lower end of which extends below its base 12 to a level below that of the drill bit 18 and is provided with cutters 19. The displaced soil enters the cutter toothed mouth 21 of a

riser pipe 20 which conveys it upwards through the base of said cylinder to dump it therein. The soil is carried up the riser pipe by being entrained in water which fills the bottom of the borehole and which is urged up said riser pipe by air under pressure emerging from nozzles 31. This air pressure is supplied down the tube 14 and passes to the nozzles through a separator 26. When the borehole is dry, a quantity of water is also supplied down the pipe 14, passing into the borehole by a passage 32 in the bit. During the operation the water is recirculated, either escaping from the cylinder 11 by spilling over the upper edge thereof, or through a valve 40, 41, 42. If a casing is used simultaneously with the boring tool, both are rotated from a common rotary table at differing speeds, whilst brake shoes are provided in the table for gripping the lower section whilst the table makes or breaks the joint with the section above.

Classifications:

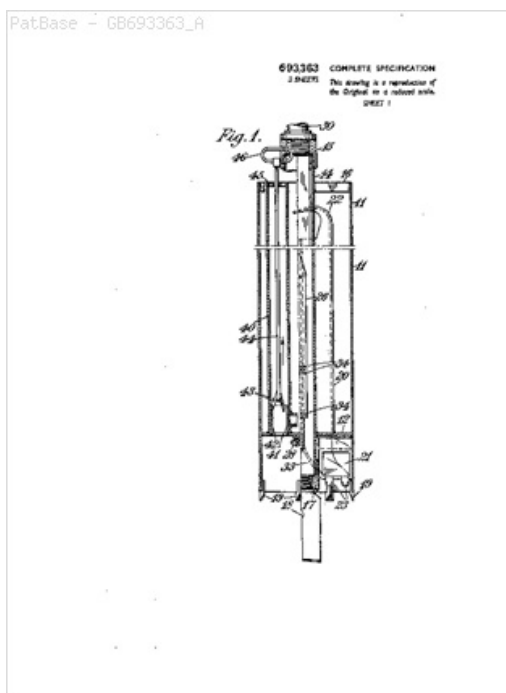
International (IPC 8-9): E21B49/02 E21B7/00 (Advanced/Invention); E21B49/00 E21B7/00 (Core/Invention)

International (IPC 1-7): E02F5/20 E21B7/02

CPC: E21B7/003 E21B49/02

European: E21B49/02 E21B7/00K

PatBase - GB693363_A



Family:

Publication number	Publication date	Application number	Application date
GB693363 A	19530701	GB19500009790	19500420

Priority:

GB19500009790 19500420

Probable Assignee: HAROLD FRANKLIN BROWN

Assignee(s): (std): CONS AFRICAN SELECTION TRUST L ; HAROLD FRANKLIN BROWN

Assignee(s): CONSOLIDATED AFRICAN SELECTION TRUST LIMITED ; CONSOLIDATED AFRICAN SELECTION TRUST LTD

12) Family number: 12448355 (US6102613A)

© PatBase

Title: ENVIRONMENTAL POROUS PAVING MATERIAL AND PAVEMENT CONSTRUCTION, ENVIRONMENTAL POROUS PAVEMENT MIXING MACHINE FOR MIXING ENVIRONMENTAL POROUS PAVEMENT AND METHODS FOR MANUFACTURING POROUS MATERIAL AND CONSTRUCTIONS

Abstract: Environmental porous pavement materials are formed by encapsulating inner aggregates with cementitious material, adhesive admixture and sealant compounds. Recycled asphalt and recycled concrete products can be used. A mixing machine produces a homogeneous mix of the paving material by surrounding at least part of an aggregate with a coating liquid.

Classifications:

International (IPC 8-9): E01C11/22 E01C19/02 E01C19/10 E01C19/46 E01C19/48 E01C5/18 E01C7/26 (Advanced/Invention);

E01C11/00 E01C19/00 E01C19/02 E01C5/00

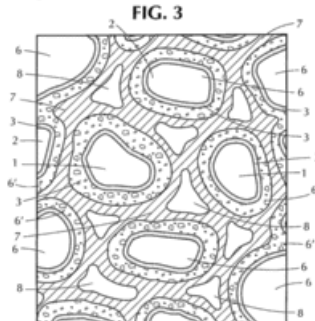
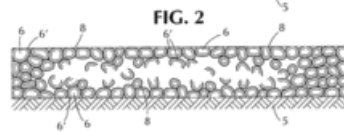
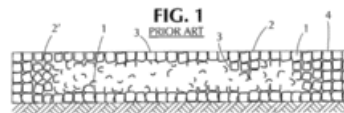
E01C7/00 (Core/Invention)

International (IPC 1-7): E01C7/00

CPC: E01C19/104 E01C19/463 E01C5/18 E01C7/26 E01C11/226 E01C19/025 E01C19/1004 E01C19/48 E01C19/4826 E01C2201/207 Y02A30/32

European: E01C11/22C2B E01C19/02B E01C19/10B E01C19/46B E01C19/48 E01C19/48B4 E01C5/18 E01C7/26 P01C201/20H4

US: 404/17 404/36 404/71 404/75

**Family:**

Publication number	Publication date	Application number	Application date
US6102613 A	20000815	US19970797058	19970212

Priority:

US19970797058 19970212

Probable Assignee: CHRISTINE MEOLI MEDICO FAMILY TRUST**Assignee(s):** (std): MEDICO CHRISTINE MEOLI ; MEDICO III JOHN C ; MEDICO JR JOHN J ; MEDICO PETER J**Assignee(s):** CHRISTINE MEOLI MEDICO FAMILY TRUST ; JOHN J MEDICO JR ; JOHN J MEDICO JR PE**Inventor(s):** (std): MEDICO JR JOHN J ; MEDICO CHRISTINE MEOLI ; MEDICO PETER J ; MEDICO III JOHN C**13) Family number: 7672360 (US3797576A)**

© PatBase

Title: METHOD AND APPARATUS FOR BREAKING UP ROCKS CONTAINING LIQUID OR GASEOUS HYDROCARBONS BY MEANS OF EXPLOSIVES

Abstract: Oblique holes are drilled into a formation from a well bore hole, packed with explosive charges, and simultaneously detonated. The holes are drilled at the same level and angle with respect to the bore hole, and are evenly spaced around its periphery. An implementing apparatus includes a tool carrier that is lowered into the bore hole and anchored in place, a flexible shaft drilling tool that is lowered into the carrier, and a packing tool for placing the charges.

Classifications:**International (IPC 8-9):** E21B4/00 E21B41/00 E21B43/00 E21B43/26

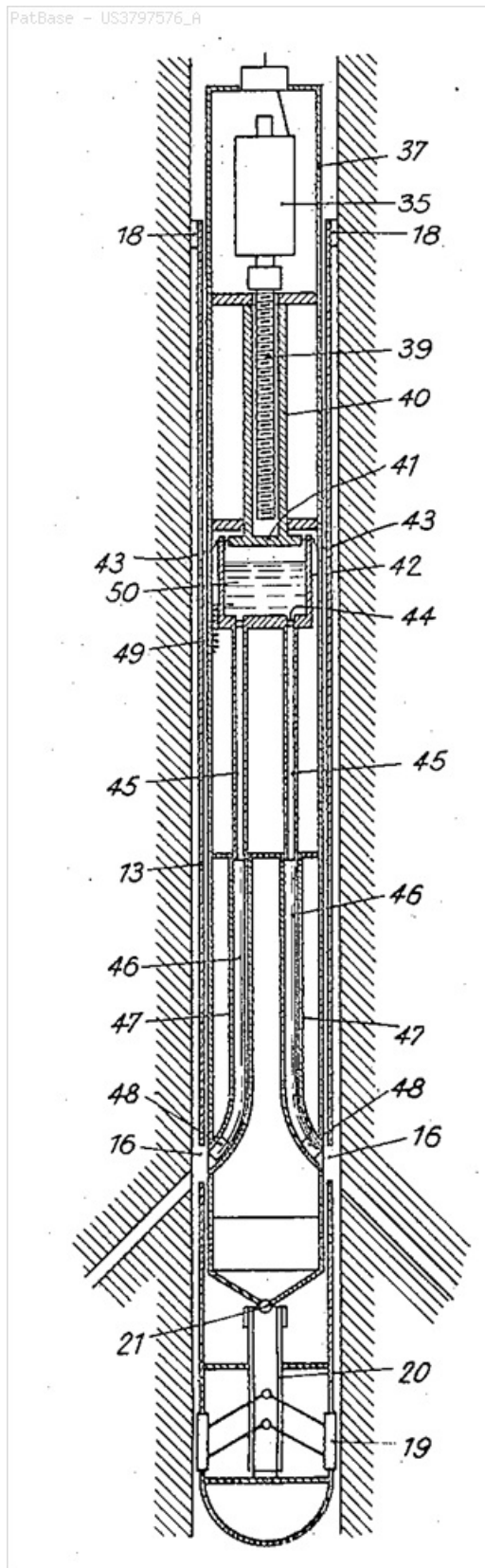
E21B43/263 E21B7/06 (Advanced/Invention);

E21B4/00 E21B41/00 E21B43/00 E21B43/25

E21B7/04 (Core/Invention)

International (IPC 1-7): E21B3/08 E21B43/00 E21B43/26**CPC:** E21B4/00 E21B7/061 E21B41/00 E21B43/263 E21B49/06**European:** E21B4/00 E21B41/00 E21B43/263 E21B49/06 E21B7/06B**US:** 166/169 166/29.9 166/299 166/63 175/4.51 175/61 175/75

175/78

**Family:**

Publication number	Publication date	Application number	Application date
CA958979 A1	19741210	CA19710113088	19710514
FR2091931 A1	19710121	FR19700017814	19700515
FR2091931 B1	19730810	FR19700017814	19700515
GB1342954 A	19740110	GB19710011287	19710426
NO137514 B	19771128	NO19710001841	19710514
NO137514 C	19780308	NO19710001841	19710514
US3797576 A	19740319	US19710145666	19710521

Priority:

FR19700017814 19700515 US19710145666 19710521

Probable Assignee: PETROLES CIE FRANCAISE**Assignee(s):** (std): P TROLES COMP FRANC DES ; PETROLES CIE FRANCAISE**Assignee(s):** PETROLES CIE FSE ; AZALBERT JEAN P ; CIE FRANCAISE DES PETROLES FR ; COMPAGNIE FRANCAISE

DES PETROLES ; COMPAGNIE FRANCAISE DES PETROLES S A ; FRANCAISE DES PETROLES COMP ;
GIRAUD ADRIEN

Inventor(s): (std): AZALBERT JEAN P ; AZALBERT JEAN PAUL ; GIRAUD A ; AZALBERT J ; GIRAUD ADRIEN

Inventor(s): AZALBERT J FR ; GIRAUD A FR

14) Family number: 9491389 (US4898092A)

© PatBase

Title: FEED GRAIN CONDITIONING APPARATUS

Abstract: This invention is an apparatus and method for automatically adjusting the moisture content of feed grains to a relatively constant target level. As the grain is transported into, or within the feed manufacturing process, a sample is diverted through a continuous flow moisture sensor. The sensor generates an electronic signal proportional to the moisture content of the grain. This signal is used to control the application rate of a surfactant-water mixture, or of water alone. The water may be either in the form of steam or, as a hot or cold liquid. The grain then enters a mixing or contact chamber, into which the water is metered at a rate that is proportional to the moisture content of the incoming grain. The treated grain will have a relatively constant moisture content, eliminating one of the largest variables in the manufacturing of livestock feeds.

Classifications:

International (IPC 8-9): A23N17/00 B02B1/04 (Advanced/Invention);
A23N17/00 B02B1/00 (Core/Invention)

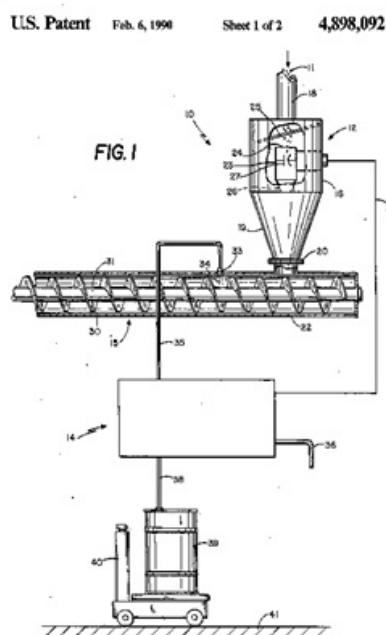
International (IPC 1-7): A23K3/00 A23N17/0 A23N17/00 G01N33/00

CPC: A01C1/02 A23N17/00 B02B1/04

European: A01C1/02 A23N17/00 B02B1/04

US: 426/231 426/507 73/73 99/487 99/516 99/536

PatBase - US4898092_A



Family:

Publication number	Publication date	Application number	Application date
CA1318301 A1	19930525	CA19890598825	19890505
DE68912311 D1	19940224	DE19896012311	19890518
DE68912311 T2	19940505	DE19896012311T	19890518
EP0397950 A1	19901122	EP19890630094	19890518
EP0397950 B1	19940112	EP19890630094	19890518
ES2048316 T3	19940316	ES19890630094T	19890518
JP2027974 A2	19900130	JP19890115923	19890509
KR19890016912 A	19891214	KR19890006165	19890509
KR960014858 B1	19961021	KR19890006165	19890509
US4898092 A	19900206	US19880191378	19880509
US4898092 B1	19931026	US19880191378	19880509
US4993316 A	19910219	US19900461305	19900105
US4994286 A	19910219	US19900461339	19900105

Priority:

US19880191378 19880509 CA19890598825 19890505 KR19890006165 19890509
EP19890630094 19890518 US19900461339 19900105 US19900461305 19900105

Probable Assignee: AGRICHEM INC A CORP OF MINNESOTA

Assignee(s): (std): AGRICHEM INC ; AGURIKEMU INC

Assignee(s): GREER DAVID G ; MARYLAND NATIONAL BANK ; AGRICHEM INC A CORP OF MINNESOTA ; AGRICHEM INC ANOKA MINN US

Inventor(s): (std): DAVID G GREER ; DEIBITSUDO JII GURIAA ; GREER DAVID G

Inventor(s): GREER DAVID G ANOKA MINNESOTA 55304 US

Agent(s): SEABY AND ASSOCIATES

Designated states: DE ES FR GB IT SE

15) Family number: 29049399 (US2003167919A)

© PatBase

Title: CONDUIT NETWORK SYSTEM

Abstract: A conduit network system includes at least one, and typically multiple, node elements in communication with an inner area of a conduit, which is used to transfer material therein. The node element can receive, process and communicate data signals that are representative of user-desired information. A system control mechanism is in communication with the node elements and receives the data signals from these node elements. A method for communicating data in a conduit system is also disclosed.

Classifications:

International (IPC 8-9): F17D3/01 G06F17/00 G06F17/40 G06F19/00 G08C17/00 (Advanced/Invention)

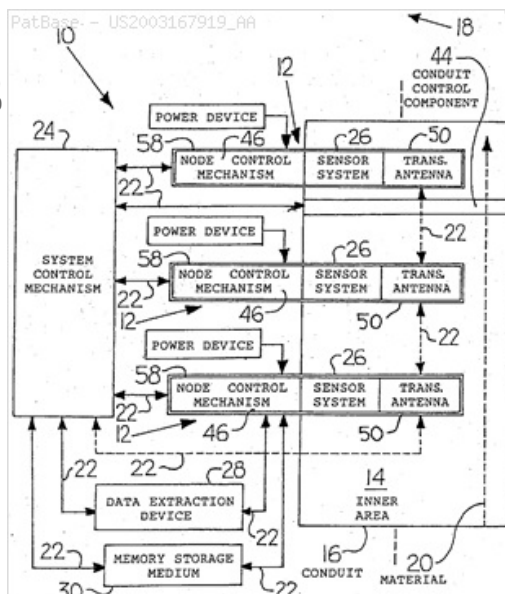
International (IPC 1-7): B01D46/46 F17D1/18 G01F15/00 G01F25/00 G06F17/00 G06F17/40 G06F17/60 G06F19/00 G08B21/00 G08C17/00 G08C19/00 H04B H04Q9/00

CPC: F17D3/01

European: F17D3/01

US: 340/870.07 340/870.11 7/386.123 7/386.177 73/861.23

73/861.77 95/15 95/15P



Family:

Publication number	Publication date	Application number	Application date
AU2003230599 AA	20030922	AU20030230599	20030306
AU2003230599 AH	20030922	AU20030230599	20030306
CA2478644 AA	20040903	CA20032478644	20030306
EP1500061 A2	20050126	EP20030723684	20030306
EP1500061 A4	20110427	EP20030723684	20030306
US2003167919 AA	20030911	US20030383114	20030306
US6778100 BB	20040817	US20030383114	20030306
WO03077431 A2	20030918	WO2003US06841	20030306
WO03077431 A3	20041104	WO2003US06841	20030306

Priority:

US20020362131P 20020306 US20030383114 20030306 WO2003US06841 20030306

Probable Assignee: AUTMATIKA INC

Assignee(s): (std): AUTMATIKA INC ; SCHEMPF HAGEN

Inventor(s): (std): SCHEMPF HAGEN ; SCHEMPF HAGEN

Inventor(s): HAGEN SCHEMPF

Agent(s): DIMOCK STRATTON 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 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 NI 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

16) Family number: 73841403 (US2019101505A)

© PatBase

Title: FIELD MEASUREMENT OF SOIL ELEMENT CONCENTRATION

Abstract: In an embodiment, a system for measuring soil element concentration in a field in real time is disclosed. The system comprises an extraction apparatus coupled to a mobility component configured to move the system in the agricultural field. The extraction apparatus configured to receive a plurality of soil samples successively from a soil probe coupled to the mobility component, when the mobility component is operating. The extraction apparatus containing an extractant solution that is a solvent of the soil samples. In addition, the extraction apparatus comprising a mixer that is configured to mix the soil samples with the extractant solution, thereby forming a solution mix. The system also comprises a chemical sensor coupled to the extraction apparatus, the chemical sensor configured to measure a concentration level of a soil element in the solution mix. Furthermore, the system comprises a processor coupled to the chemical sensor, the processor configured to calculate a concentration level of the soil element in each of the plurality of soil samples after the soil sample is received by the extraction apparatus and before a successive soil sample is received by the extraction apparatus.

Classifications:

International (IPC 8-9): A01B79/00 A01C23/00 G01N1/04 G01N1/08 G01N1/40 G01N21/25 G01N27/333 G01N33/24 (Advanced/Invention);

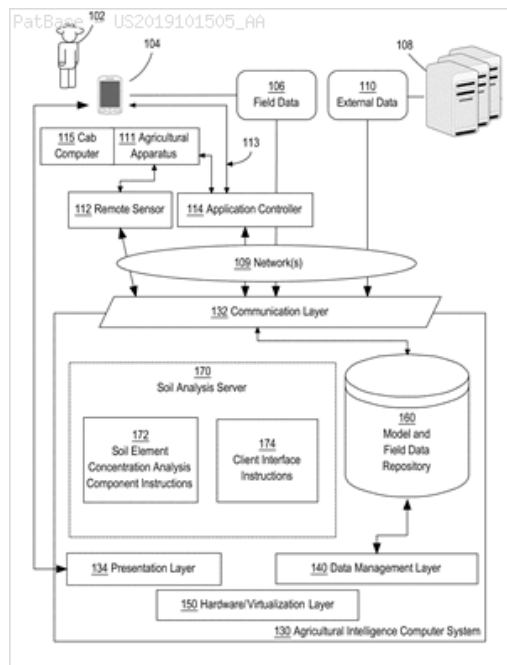
G01N1/02 G01N1/28 G01N21/25 H04L29/08 (Advanced/Non-invention)

CPC: G01N1/08 G01N33/24 G01N2001/021 G01N2001/2866

G01N2001/4061 G01N2001/4088 G01N2033/245 H04L67/12

G01N1/04 G01N1/4044 G01N21/25 G01N27/333 H04L67/18

US: 1/1



Family:

Publication number	Publication date	Application number	Application date
AR113305 AA	20200408	AR2018P102855	20181003
AU2018345774 AA	20200430	AU20180345774	20181002
CA3077795 AA	20200331	CA20183077795	20181002
CA3077795 AA	20190411	CA20183077795	20181002
US2019101505 AA	20190404	US20170723177	20171003
US10488363 BB	20191126	US20170723177	20171003
WO19070743 A1	20190411	WO2018US54007	20181002

Priority:

US20170723177 20171003 WO2018US54007 20181002

Probable Assignee: CLIMATE CORP

Assignee(s): (std): CLIMATE CORP

Assignee(s): JURADO LUIS ; LIU MIAO

Inventor(s): (std): JURADO LUIS ; LIU MIAO

Agent(s): ELLIS TERRY; MOFFAT AND CO; HICKMAN PALERMO BECKER BINGHAM LLP; LIU AGATHA H 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

17) Family number: 61602407 (WO16015168A1)

© PatBase

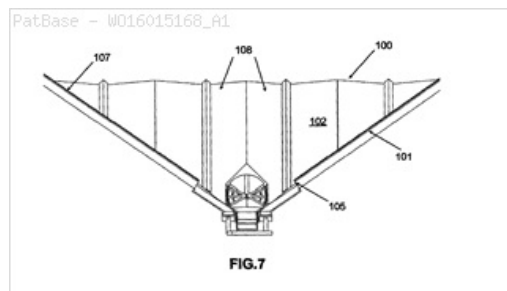
Title: SYSTEM OF LEACHING CELLS WITH CHANNELLED DISCHARGE OF THE ENRICHED SOLUTION AND SELF-DISCHARGE OF THE LEACHED SOLID MATERIAL

Abstract: The invention relates to a system of leaching cells which includes a group of units of cells that make it possible to perform therein both the leaching process as such, the individual, channelled discharge of the enriched solution, and the self-discharge of the leached solid material from each cell, in which each one of the cells is made up of a primary filtering container, a secondary filtering component and a device for self-discharging the leached solid material; in which the primary filtering container consists of angled perimeter walls which have longitudinal channels for primary filtration; the secondary filtering component consists of a three-layer filter and a lower collector for the enriched solution; while the device for self-discharging the leached solid material consists of a lower discharge outlet having angled walls with gates that can move sideways, located at the bottom of the cell.

Classifications:

International (IPC 8-9): C22B3/02 C22B3/04 (Advanced/Invention)

CPC: C22B3/02 C22B3/04 Y02P10/234



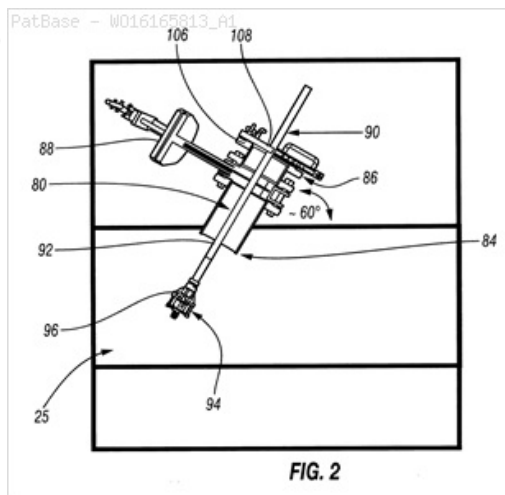
Family:

Publication number	Publication date	Application number	Application date
WO16015168 A1	20160204	WO2014CL00035	20140801

Priority:

Probable Assignee: LEIVA GUZMAN JUAN CRISTOBAL**Assignee(s):** (std): LEIVA GUZMAN JUAN CRISTOBAL**Inventor(s):** (std): LEIVA GUZMAN JUAN CRISTOBAL**Agent(s):** DIAZ NARANJO CAROLINA DEL CARMEN**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**18) Family number: 63832460** (WO16165813A1)

© PatBase

Title: SYSTEM AND METHOD FOR SAMPLING A DRILLING FLUID EXITING A WELLBORE**Abstract:** A system for sampling a drilling fluid exiting the wellbore in a portion of a flowline (25) having a substantially closed section, comprising: - a first portion (80) connected in the closed-section portion of the flowline, comprising a closing device (88) movable between an open position in which the first portion defines a fluid passage between the outside and the closed-section portion of the flowline and a closed position in which the device closes the fluid passage; - a second portion (90) configured to be inserted in the first portion, with the closing device in open position, defining a fluid passage between the outside and the closed-section portion of the flowline; - a retaining device (106, 104) for fixing the second portion relative to the first portion.**Classifications:****International (IPC 8-9):** E21B21/00 E21B49/00 E21B49/08 G01N1/20 G01N33/28 (Advanced/Invention)**CPC:** E21B21/015 E21B49/005 G01N1/2035 G01N33/2823 G01N33/2841**Family:**

Publication number	Publication date	Application number	Application date
EP3081740 A1	20161019	EP20150290096	20150413
WO16165813 A1	20161020	WO2016EP00529	20160324

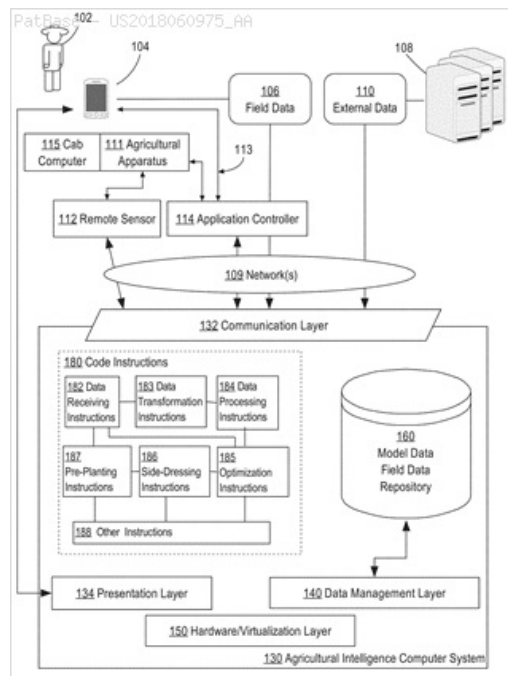
Priority:

EP20150290096 20150413

Probable Assignee: GEOSERVICES EQUIPEMENTS**Assignee(s):** (std): GEOSERVICES EQUIPEMENTS**Inventor(s):** (std): COSTE CLEMENT ; LEDUCQ PAUL**Agent(s):** LEONORI CELINE**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**19) Family number: 68721507** (US2018060975A)

© PatBase

Title: OPTIMIZING SPLIT FERTILIZER APPLICATION**Abstract:** In an embodiment, a method comprises: receiving pre-planting data representing a lower bound date value and an upper bound date value of dates for a pre-planting application of fertilizer to an agricultural field; side-dressing data representing a lower bound date value and an upper bound date value of dates for a side-dressing application; fertilizer cost data representing a cost of a fertilizer application; labor cost data representing a cost of applying fertilizer to the field; and expected profit data. Based on the received data, one or more penalty constraints are determined. Based on the received data, a fertilizing schedule is generated. The schedule comprises the one or more valid calendar dates on which fertilizing the agricultural field is recommended and the one or more valid fertilizer amounts to be applied to the agricultural field on the one or more valid calendar dates to maximize a yield from the agricultural field.**Classifications:****International (IPC 8-9):** A01C15/00 A01C21/00 A01G1/00 A01G2/00 A01G7/00 G01J3/51 G01N21/27 G06F15/00 G06Q10/06 G06Q40/00 G06Q50/00 G06Q50/02 (Advanced/Invention)**International (IPC 1-7):** A01C15/00 A01C21/00 A01G1/00 A01G7/00 G01J3/51 G01N21/27 G06F15/00**CPC:** G06Q10/06314 G06Q40/12 G06Q50/02 A01C21/007 A01G7/00**US:** 1/1 705/7.24



Family:

Publication number	Publication date	Application number	Application date
AR109222 AA	20181107	AR2017P102181	20170731
AU2017316292 AA	20190314	AU20170316292	20170726
BR112019003795 A2	20190521	BR20191103795	20170726
CA3033952 AA	20190214	CA20173033952	20170726
EP3503709 A1	20190703	EP20170844094	20170726
EP3503709 A4	20200108	EP20170844094	20170726
US2018060975 AA	20180301	US20160246101	20160824
US2020005402 AA	20200102	US20190565225	20190909
US10410299 BB	20190910	US20160246101	20160824
WO18038866 A1	20180301	WO2017US44042	20170726

Priority:

US20160246101 20160824 WO2017US44042 20170726 US20190565225 20190909

Probable Assignee: CLIMATE CORP

Assignee(s): (std): CLIMATE CORP

Assignee(s): HASSANZADEH ANAHITA

Inventor(s): (std): HASSANZADEH ANAHITA ; ANAHITA HASSANZADEH

Agent(s): ELLIS TERRY; RIDOUT AND MAYBEE LLP; HARDEN HENRY SIMON; HICKMAN PALERMO BECKER BINGHAM LLP; KULCZYCKA MALGORZATA A; KULCZYCKA MALGORZATA 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 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

20) Family number: 43749524 (US2009232603A)

© PatBase

Title: IN SITU REMEDIATION METHODS USING ELECTRON DONORS AND DISPERSANT GAS

Abstract: The present invention provides methods and systems for the in situ remediation of contaminated sites. In some embodiments, the methods and systems include one or more conduits for injection or coinjection of liquid electron donor compositions and dispersant gas compositions.

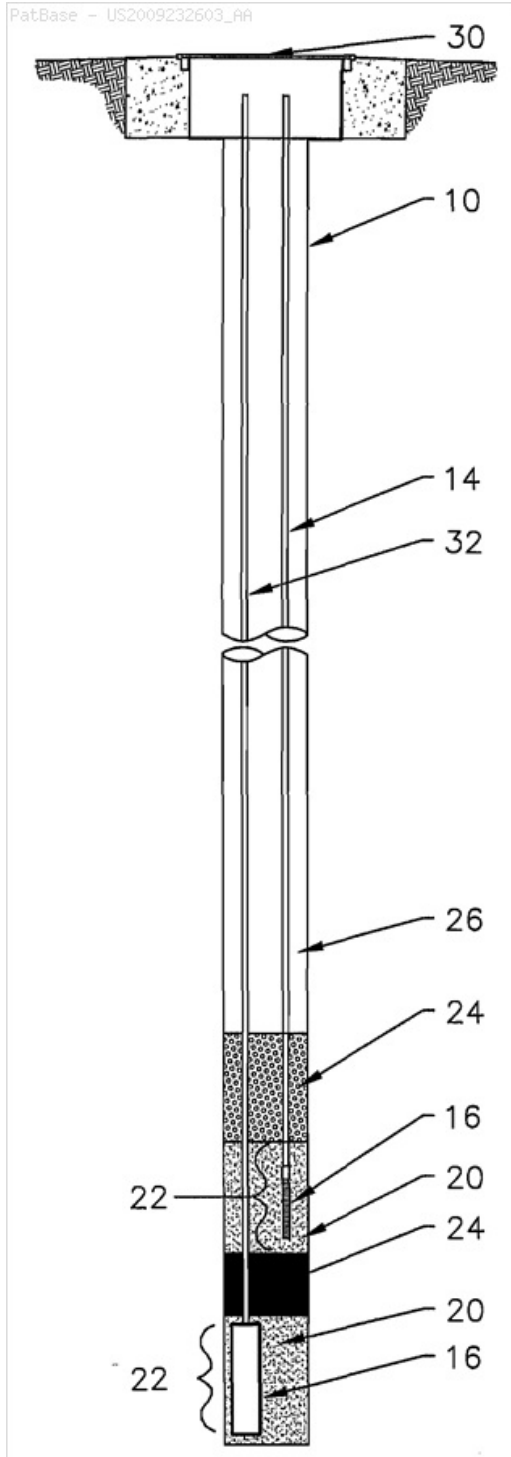
Classifications:

International (IPC 8-9): B09C1/00 B09C1/08 (Advanced/Invention); B09C1/00 (Core/Invention)

CPC: B09C1/002 B09C1/08

European: B09C1/00B B09C1/08

US: 405/128.15 405/128.150S 405/128.75 405/128.750P



Family:

Publication number	Publication date	Application number	Application date
US2009232603 AA	20090917	US20090402953	20090312

Priority:

US20080035878P 20080312 US20090402953 20090312

Probable Assignee: GROUNDWATER AND ENVIRONMENTAL SE

Assignee(s): (std): GROUNDWATER AND ENVIRONMENTAL SE

Assignee(s): GROUNDWATER AND ENVIRONMENTAL SERVICES INC

Inventor(s): (std): BLANCHARD CHARLES E ; WHISMAN CHARLES B ; GOOD DENISE N

Agent(s): FOX ROTHSCHILD LLP

21) Family number: 78657532 (US2020132658A)

© PatBase

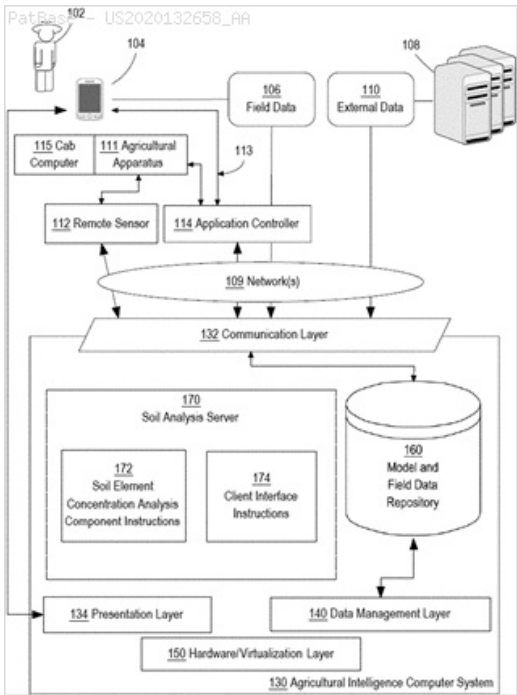
Title: IN-GROUND SENSOR SYSTEMS WITH MODULAR SENSORS AND WIRELESS CONNECTIVITY COMPONENTS

Abstract: In an embodiment, an integrated sensor system with modular sensors and wireless connectivity components for monitoring properties of field soil is described. In an embodiment, an integrated sensor system comprises one or more sensors that are configured to determine one or more measures of at least one property of soil. The integrated sensor system also includes one or more processing units that are configured to receive, from the sensors, the measures of at least one property of soil and calculate soil property data based on the measures. The system further includes a transmitter that is

configured to receive the soil property data from the processing units, establish a communications connection with at least one computer device, and automatically transmit the soil property data to the at least one computer device via the communications connection. In an embodiment, the communications connection is a wireless connection established between the transmitter and a smart hub or a LoRA-enabled device. In an embodiment, the computer sensors, the processors, and the transmitter are installed inside a portable probe.

Classifications:

International (IPC 8-9): A01B79/00 A01C21/00 A01G25/16
G01N33/24 G01W1/14 H04W4/80 H04W76/10 (Advanced/Invention)
CPC: G01N33/246 H04W76/10 H04W4/80 H04W84/14 A01G25/167
A01B79/005 G01W1/14 G01N2033/245



Family:

Publication number	Publication date	Application number	Application date
US2020132658 AA	20200430	US20190660402	20191022
WO20086601 A1	20200430	WO2019US57464	20191022

Priority:

US20180750129P 20181024 US20190660402 20191022

Probable Assignee: CLIMATE CORP

Assignee(s): (std): CLIMATE CORP

Inventor(s): (std): BAURER PHIL ; BAURER PHIL DAVID ; BORROWMAN ERIC ; BORROWMAN ERIC L ; GALL MICHAEL ; GUPTA NALINI ; KOCH JUSTIN ; KOHNE JEFFREY LAWRENCE ; KUSIEK JORDAN ; MALONE MICHAEL ; MALONE MICHAEL H ; STIMPSON CALDEN NATHANIEL CARROLL ; WENZEL ANDREAS ; WENZEL ANDREAS MARKUS

Agent(s): KULCZYCKA MALGORZATA 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

22) Family number: 3313542 (US5010776A) © PatBase

Title: ENVIRONMENTAL CONTAMINATION DETECTION AND ANALYZING SYSTEM AND METHOD

Abstract: A method and system for detecting environmental contamination, such as subsurface contamination, include a test probe located in a medium. The probe is adapted to collect a fluid sample from the medium for determining the presence of a contaminant having a vapor pressure. Pneumatic communication lines extend from a test point and connect to the probe. A detector/analyzer is connected to the distal end of the communication lines of the probe. While connected, a fluid sample is taken into the probe and transported in the pneumatic communication lines by a carrier gas to the detector/analyzer for analysis of the contaminant. The general principle is applicable for contaminant detection and/or analysis in soil masses, liquid masses and gases.

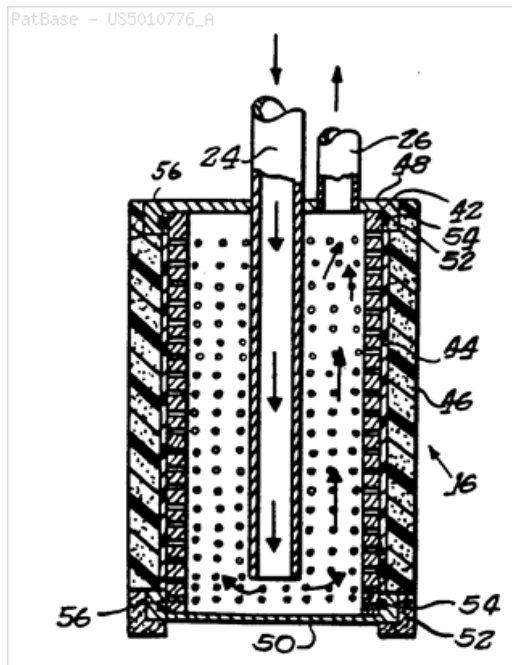
Classifications:

International (IPC 8-9): B09B1/00 B09C1/00 G01M3/22 G01N1/22
G01N1/40 G01N33/00 G01V9/00 (Advanced/Invention);
G01N1/40 (Advanced/Non-invention);
B09B1/00 B09C1/00 G01M3/20 G01N1/22 G01N33/00
G01V9/00 (Core/Invention);
G01N1/40 (Core/Non-invention)

International (IPC 1-7): G01M3/02 G01N1/22 G01V9/00

CPC: Y02W30/35 Y02W30/38 B09B1/00 B09C1/00 G01M3/226
G01N1/2214 G01N1/2247 G01N1/2294 G01N1/4005 G01N33/0011
G01V9/007

European: B09B1/00 B09C1/00 G01M3/22G G01N1/22 G01N1/22S
G01N33/00D2A G01V9/00C S01N1/22B7 S01N1/22F S01N1/22S
S01N1/40A S01N1/40D
US: 73/863.23

**Family:**

Publication number	Publication date	Application number	Application date
AU199056602 A1	19901129	AU19900056602	19900503
US5010776 A	19910430	US19890347424	19890504
WO9013803 A1	19901115	WO1990US02454	19900503

Priority:

US19890347424 19890504 US19900502130 19900329 WO1990US02454 19900503

Probable Assignee: IIT RES INST

Assignee(s): (std): IIT RES INST

Assignee(s): IIT RESEARCH INST ; IIT RESEARCH INST A NOT FOR PROFIT IL CORP ; IIT RESEARCH INSTITUTE

Inventor(s): (std): LUCERO DANIEL P ; HENDRICKSON SUSAN K

Inventor(s): SUSAN K HENDRICKSON ; DANIEL P LUCERO

Designated states: AT AU BE BG BR CA CH DE DK ES FI FR GB HU IT JP KP KR LU MC NL NO RO SE SU

23) Family number: 17752542 (DE29619831U1)

© PatBase

Title: VORRICHTUNG ZUM STEUERN DER EINBAUHOEHE EINES STRASSENFERTIGERS Apparatus FOR CONTROLLING THE INSTALLATION HEIGHT OF A PAVING MACHINE (Machine translation)

Abstract: Source: DE29619831U1 [DE] (Claim 1) 1. Steuervorrichtung zu m Steuern des mittels eines Strassenfertigersauf einen Untergrund aufbringbaren Materialeinbaus (230), wobei der Strassenfertiger einen Traktor(210) und eine mittels zumindest eines Zugarms (100) an dem Traktor (210) derart angebrachte, schwimmende Bohle(102), dass die Bohle (102) in Betrieb sf ahrtrichtung hinter dem Traktor (210) angeordnet ist, aufweist, wobeiein erstes Ende des zumindest einen Zugarms (100) mittels einer hoehenverstellbaren Koppelvorrichtung (104) andem Traktor befestigt ist, und ein zweites Ende des zumindest einen Zugarms (100) starr an der schwimmendenBohle (102) befestigt ist, wobei die Steuervorrichtung folgende Merkmale aufweist:eine Vorrichtung (110) zum Erfassen der Hoehe im Bereich der in Bewegungsrichtung hinteren Bohlenunte r k antebezuglich einer Referenzhoehe;eine Vorrichtung (112) zum Erfassen der Neigung des zumindest einen Zugarms (100) bezueglich einer Bezugsebene;undeine Vorrichtung (106, 120, 122) zum Steuern der Hoehe der hoehenverstellbaren Kopp e ! vorrichtung aufgrund dererfassten Neigung und der erfassten Hoehe der hinteren Bohlenunterkant e.

Machine translation: (Claim 1) 1 Control device to m controlling the means of a Strassenfertigersauf a background be applied material installation (230), where the pavers a tractor (210) and one by at least one arms (100) to the tractor (210) so mounted, floating screed (102), that the Bohle (102) in operating sf ahrtrichtung behind the tractor (210) is arranged exhibits, wobeiein first end of the at least one arms (100) secured by a height-adjustable coupling device (104) andem tractor, and a second end of said at least one arms (100) rigidly attached to the floating screed (102), wherein the control device has the following characteristics: a device (110) for detecting the height in the posterior direction of motion Bohlenunte rk antebezuglich a reference height; a device (112) for detecting the inclination of the at least one arms (100) in respect of a reference plane, anda device (106, 120, 122) for controlling the height of the height-adjustable couplers e! device because of those preconceived inclination and the recorded height of the rear lower edge e. Bohlen

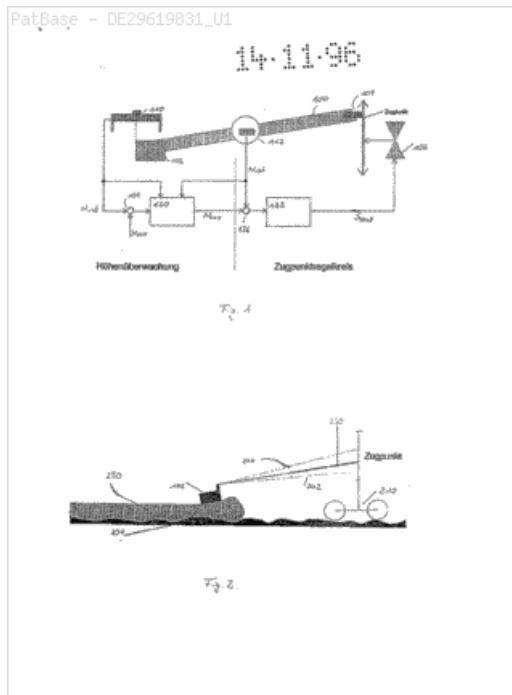
Classifications:

International (IPC 8-9): E01C19/48 G05D9/12 (Advanced/Invention); E01C19/00 G05D9/00 (Core/Invention)

International (IPC 1-7): E01C19/48 G01C5/00 G01C9/00 G05D9/00

CPC: E01C19/48 G05D9/12

European: E01C19/48 G05D9/12



Family:

Publication number	Publication date	Application number	Application date
DE29619831 U1	19970220	DE19962019831U	19961114

Priority:

DE19962019831U 19961114

Probable Assignee: MOBA ELECTRONIC MOBIL AUTOMAT

Assignee(s): (std): MOBA ELECTRONIC MOBIL AUTOMAT

Assignee(s): MOBA ELECTRONIC GES F MOBIL AUTOMATION MBH 65604 ELZ DE ; MOBA ELECTRONIC GESELLSCHAFT FUER MOBIL AUTOMATION ; MOBA ELECTRONIC GESELLSCHAFT FUER MOBIL AUTOMATION MBH 65604 ELZ DE

24) Family number: 14998639 (US6206607B)

© PatBase

Title: ENVIRONMENTAL POROUS PAVEMENT CONSTRUCTION, AND METHOD FOR MANUFACTURING PAVEMENT CONSTRUCTION

Abstract: A porous pavement construction formed from environmental porous pavement materials is formed with a number of aqueduct channels located underneath the pavement surface, so that water can percolate downward into the pavement and enter the channels. Methods of forming this pavement structure are also discussed.

Classifications:

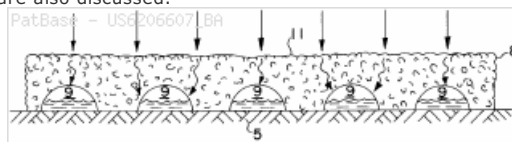
International (ipc 8-9): E01C11/00 E01C11/22 E01C19/10 E01C19/46 E01C19/47 E01C19/48 E01C5/18 (Advanced/Invention); E01C11/00 E01C19/00 E01C19/02 E01C5/00 (Core/Invention)

International (ipc 1-7): E01C1/100 E01C11/00

CPC: E01C19/104 E01C19/48 E01C5/18 E01C11/005 E01C11/225 E01C11/226 E01C19/1004 E01C19/463 E01C19/47 E01C2201/207 Y02A30/32

European: E01C11/00B E01C11/22C2 E01C11/22C2B E01C19/10B E01C19/46B E01C19/47 E01C19/48 E01C5/18 P01C201/20H4

US: 404/17 404/2 404/36 404/44 404/71



Family:

Publication number	Publication date	Application number	Application date
US6206607 BA	20010327	US19970797059	19970210

Priority:

US19970797059 19970210

Probable Assignee: JOHN J MEDICO JR CHRISTINE MEO

Assignee(s): (std): JOHN J MEDICO JR CHRISTINE MEO

Assignee(s): JOHN J MEDICO JR CHRISTINE MEOLI MEDICO FAMILY TRU ; JOHN J MEDICO JR CHRISTINE MEOLI MEDICO FAMILY TRUST

Inventor(s): (std): MEDICO CHRISTINE MEOLI ; MEDICO III JOHN C ; MEDICO PETER J ; MEDICO JR JOHN J

Inventor(s): JOHN C MEDICO III ; PETER J MEDICO ; CHRISTINE MEOLI MEDICO ; JOHN J MEDICO JR

Agent(s): FITZPATRICK CELLA HARPER AND SCINTO

25) Family number: 8336734 (WO9221849A1)

© PatBase

Title: DRILLING APPARATUS

Abstract: Drilling apparatus, in particular for drilling of holes preferably in soil consisting essentially of glacier deposits or comparatively soft rocks, said drilling apparatus comprising a drilling pipe with a cutter head, the drilling pipe consisting of two coaxial pipes forming an interspace, through which a drilling medium such as water or air can be introduced, and in which drilling pipe the cutter head is placed on the end, which is in front during the drilling, the cutter head comprising a number of hard metal bits and nozzles in between, through which the drilling medium can flow under pressure. To obtain an effective conveyance of the material removed during the drilling through the inner of the drilling apparatus, through which it should also be possible to introduce for instance liners, the drilling apparatus is constructed in such a way that the clear of the inner one of the coaxial pipes is unobstructed, that in addition to the nozzles in the cutter head a number of radially inwards directed nozzles is provided at a short distance from the cutter head and a number of ejector nozzles, which is directed obliquely inwards in a direction away from the cutter head.

Classifications:

International (IPC 8-9): E21B10/02 E21B10/38 E21B10/60

E21B17/046 E21B17/18 E21B21/12 (Advanced/Invention);

E21B10/00 E21B10/36 E21B17/00 E21B17/02

E21B21/00 (Core/Invention)

International (IPC 1-7): E21B10/38 E21B10/60 E21B21/12 E21B7/18

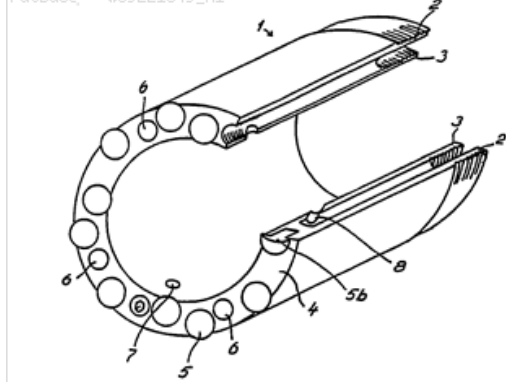
CPC: E21B10/02 E21B10/38 E21B10/605 E21B17/046 E21B17/18

E21B21/12

European: E21B10/02 E21B10/38 E21B10/60C E21B17/046

E21B17/18 E21B21/12

PatBase - W09221849_A1



Family:

Publication number	Publication date	Application number	Application date
AT152211 E	19970515	AT19920911558T	19920529
AU199219212 A1	19930108	AU19920019212	19920529
DE69219368 D1	19970528	DE19926019368	19920529
DE69219368 T2	19971120	DE19926019368T	19920529
DK0682738 T3	19971027	DK19920911558T	19920529
DK102891 A	19921201	DK19910001028	19910530
DK102891 A0	19910530	DK19910001028	19910530
DK169043 B1	19940801	DK19910001028	19910530
EP0682738 A1	19951122	EP19920911558	19920529
EP0682738 B1	19970423	EP19920911558	19920529
WO9221849 A1	19921210	WO1992DK00172	19920529

Priority:

DK19910001028 19910530 WO1992DK00172 19920529

Probable Assignee: BENZON ERNST BENZONI

Assignee(s): (std): BENZON ERNST BENZONI ; BENZON ERNST BENZONI VON ; VON BENZON ERNST BENZONI

Assignee(s): BENZON ERNST BENZONI VON SKAEVINGE DK ; ERNST BENZONI VON BENZON

Inventor(s): (std): BENZON ERNST BENZONI VON ; VON BENZON ERNST BENZONI

Inventor(s): BENZON ERNST BENZONI VON SKAEVINGE DK ; ERNST BENZONI VON BENZON

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG US

26) Family number: 68496739 (US2018035605A)

© PatBase

Title: ESTIMATING NITROGEN CONTENT USING HYPERSPECTRAL AND MULTISPECTRAL IMAGES

Abstract: In an approach, hyperspectral and/or multispectral remote sensing images are automatically analyzed by a nitrogen analysis subsystem to estimate the value of nitrogen variables of crops or other plant life located within the images. For example, the nitrogen analysis subsystem may contain a data collector module, a function generator module, and a nitrogen estimator module. The data collector module prepares training data which is used by the function generator module to train a mapping function. The mapping function is then used by the nitrogen estimator module to estimate the values of nitrogen variables for a new remote sensing image that is not included in the training set. The values may then be reported and/or used to determine an optimal amount of fertilizer to add to a field of crops to promote plant growth.

Classifications:

International (IPC 8-9): A01C21/00 A01G1/00 A01G22/00 A01G7/00

G01J3/28 G06K9/00 G06K9/62 G06T7/00

G06T7/40 (Advanced/Invention);

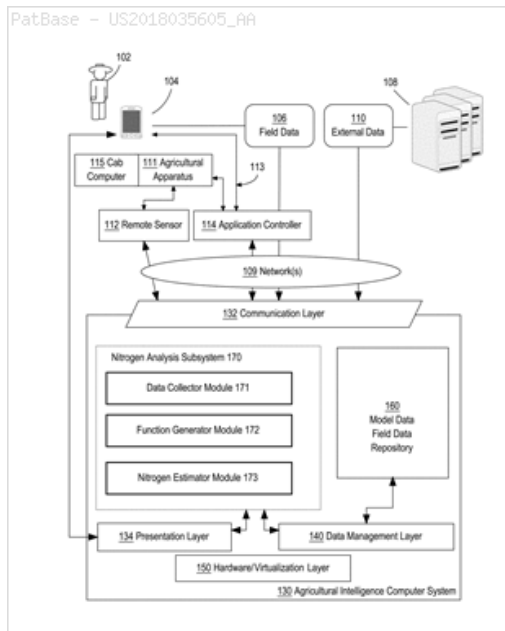
A01G7/00 (Advanced/Non-invention)

International (IPC 1-7): G01J3/28 G06K9/00 G06T7/00 G06T7/40

CPC: A01C21/007 G06K9/00657 A01G22/00 G06K9/6247

G06K9/6249 A01G7/00

US: 1/1 382/110

**Family:**

Publication number	Publication date	Application number	Application date
AR109223 AA	20181107	AR2017P102182	20170731
AU2017308573 AA	20190307	AU20170308573	20170726
BR112019002436 A2	20190604	BR20191102436	20170726
CA3033488 AA	20190208	CA20173033488	20170726
EP3497414 A1	20190619	EP20170840005	20170726
EP3497414 A4	20200429	EP20170840005	20170726
US2018035605 AA	20180208	US20160231505	20160808
US10154624 BB	20181218	US20160231505	20160808
US10609860 BA	20200407	US20180222910	20181217
WO18031238 A1	20180215	WO2017US44040	20170726

Priority:

US20160231505 20160808 WO2017US44040 20170726 US20180222910 20181217

Probable Assignee: CLIMATE CORP

Assignee(s): (std): CLIMATE CORP

Assignee(s): GUAN WEI ; XU YING

Inventor(s): (std): GUAN WEI ; XU YING ; YING XU ; WEI GUAN

Agent(s): ELLIS TERRY; RIDOUT AND MAYBEE LLP; HARDEN HENRY SIMON; HICKMAN PALERMO BECKER BINGHAM LLP; KULCZYCKA MALGORZATA A; KULCZYCKA MALGORZATA 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 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

27) Family number: 15067757 (WO9708935A2)

© PatBase

Title: METHOD, SAMPLING DEVICE AND TUBE FOR TAKING A SOIL SAMPLE

Abstract: The invention relates to a method for taking a soil sample. A flexible cover is fitted around a cutting head of a sampling device before the sampling device is introduced into a borehole. When a sample is being taken, the flexible cover is pierced and soil, for example, can enter the cutting head. The cutting head is thereby prevented from being contaminated with material from the walls of the borehole. The invention also relates to a sampling device provided with a flexible non-return valve, for example in the form of a pointed pouch, which is partly connected to the inner wall of the hollow cutting head of the sampling device, and to a tube for use in such a sampling device.

Classifications:

International (IPC 8-9): A01D33/06 E21B25/00

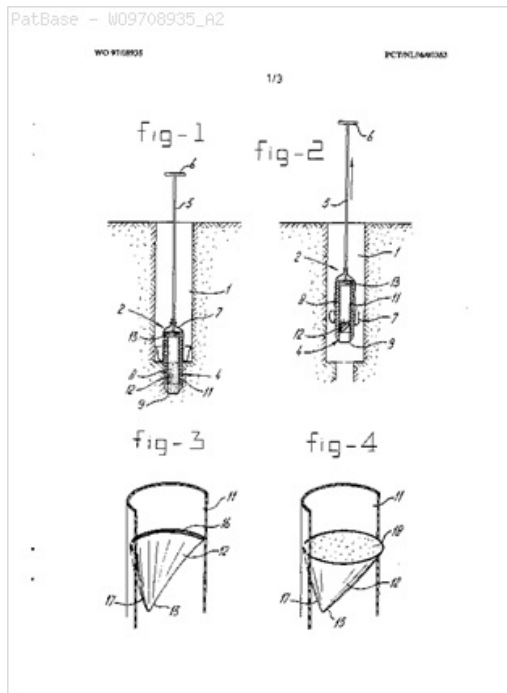
E21B25/10 (Advanced/Invention);

E21B25/00 (Core/Invention)

International (IPC 1-7): A01D33/06 A01D57/10

CPC: E21B25/00 E21B25/10

European: E21B25/00 E21B25/10

**Family:**

Publication number	Publication date	Application number	Application date
AU199670987 A1	19970327	AU19960070987	19960909
WO9708935 A2	19970313	WO1996NL00353	19960909
WO9708935 A3	19970522	WO1996NL00353	19960909

Priority:

NL19951001151 19950907 WO1996NL00353 19960909

Probable Assignee: INST MILIEU AND AGRITECH

Assignee(s): (std): EERKENS CORNELIS ; INST MILIEU AND AGRITECH ; INSTITUUT VOOR MILIEU EN AGRIT

Assignee(s): INSTITUUT VOOR MILIEU EN AGRITECHNIEK IMAG DLO

Inventor(s): (std): EERKENS CORNELIS ; CORNELIS EERKENS

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CN CU CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

28) Family number: 54086767 (US2014361466A)

© PatBase

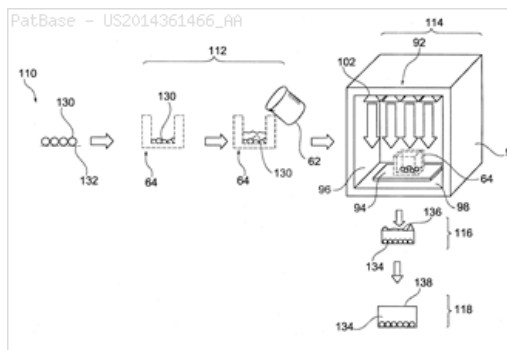
Title: METHOD FOR PREPARING A SAMPLE OF ROCK CUTTINGS EXTRACTED FROM A SUBSOIL AND ASSOCIATED ANALYSIS ASSEMBLY

Abstract: The method comprises placing a sample of rock on a mold surface (90), forming a solid plug (134) containing the rock sample embedded in a hardened resin matrix. The method further comprises pouring a UV polymerizable liquid resin on the sample of rock to embed the sample of rock in liquid resin and passing the rock sample embedded in the UV polymerizable liquid resin in a polymerization device (66) comprising a UV source (92) to harden the liquid resin and form the plug (134).

Classifications:

International (IPC 8-9): B29C35/08 B29C39/00 B29C39/10 E21B25/00 E21B49/02 G01N1/36 G01N33/24 (Advanced/Invention)
CPC: G01N33/24 G01N2001/364 E21B21/066 B29C39/006 B29C39/10 B29C35/0805 B29C2035/0827 B29K2105/0058 B29K2105/0002 B29K2105/0005 B29K2709/14 B29L2031/40 G01N1/36

US: 264/496 425/174.4

**Family:**

Publication number	Publication date	Application number	Application date
AU2012354104 AA	20130620	AU20120354104	20121214
AU2015271966 AA	20160121	AU20150271966	20151218
BR112014014541 A2	20170613	BR20141114541	20121214
BR112014014541 A8	20170613	BR20141114541	20121214
BR112014014541 A8	20170704	BR20141114541	20121214
BR112014014541 A8	20170704	BR20141114541	20121214
EP2604996 A1	20130619	EP20110306662	20111214
US2014361466 AA	20141211	US20120362598	20121214

Priority:

EP20110306662 20111214 AU20120354104 20121214 WO2012IB57351 20121214
AU20150271966 20151218

Probable Assignee: GEOSERVICES EQUIPEMENTS

Assignee(s): (std): GEOSERVICES EQUIPEMENTS

Inventor(s): (std): BONDABOU KARIM ; KIMOUR FAROUK ; FAROUK KIMOUR ; KARIN BONDABOU

Agent(s): GRIFFITH HACK; RZANIAK MARTIN; RZANIAK MARCIN ET AL

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

29) Family number: 73340830 (US2019066234A)

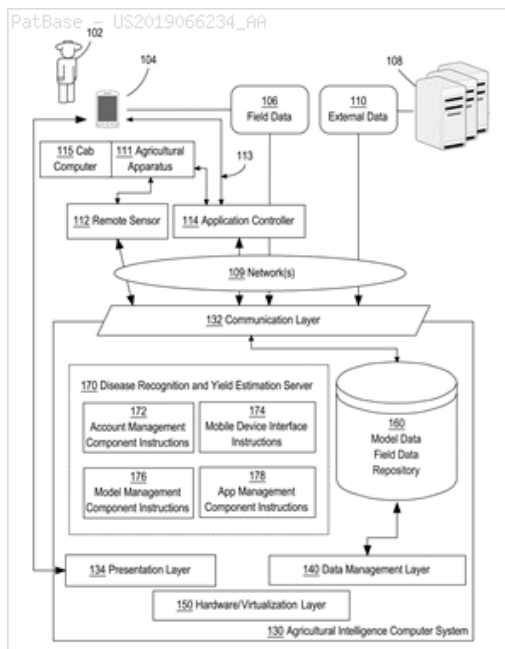
© PatBase

Title: CROP DISEASE RECOGNITION AND YIELD ESTIMATION

Abstract: In an embodiment, a method of real-time disease recognition in a crop field is disclosed. The method comprises causing a camera to continuously capture surroundings to generate multiple images. The method further comprises causing a display device to continuously display the multiple images as the multiple images are generated. In addition, the method comprises processing each of one or more of the multiple images. The processing comprises identifying at least one of a plurality of diseases and calculating at least one disease score associated with the at least one disease for a particular image; causing the display device to display information regarding the at least one disease and the at least one disease score in association with a currently displayed image; receiving input specifying one or more of the at least one disease; and causing the display device to show additional data regarding the one or more diseases, including a remedial measure for the one or more diseases.

Classifications:

International (IPC 8-9): A01B79/00 A01D41/127 A01G7/06 G01D21/02 G06K9/00 G06K9/46 G06K9/68 G06Q50/02 G06T7/11 G06T7/136 (Advanced/Invention); A01D91/00 A01G22/00 (Advanced/Non-invention)
CPC: A01G1/001 G06K9/00657 A01B79/005 A01G7/06 G06Q50/02 A01D41/1273 A01D91/00 A01G22/00 G01D21/02 G06K9/46 G06K9/68
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
AR112881 AA	20191226	AR2018P102439	20180828
CA3074217 AA	20200227	CA20183074217	20180827
US2019066234 AA	20190228	US20170688567	20170828
US2020051180 AA	20200213	US20190595420	20191007
US10438302 BB	20191008	US20170688567	20170828
WO19046203 A1	20190307	WO2018US48169	20180827

Priority:

US20170688567 20170828 WO2018US48169 20180827 US20190595420 20191007

Probable Assignee: CLIMATE CORP

Assignee(s): (std): CLIMATE CORP

Assignee(s): FARAH MARIAN ; STUBER VICTOR ; GUILLEMETTE GERARD ; KEMINK JOOST ; WILLIAMS DANIEL ; SHE YING ; GUAN WEI ; BEDOYA JUAN PABLO ; BOSHARD JULIAN ; CHEN YAQI

Inventor(s): (std): BEDOYA JUAN PABLO ; STUBER VICTOR ; GUILLEMETTE GERARD ; KEMINK JOOST ; CHEN YAQI ; WILLIAMS DANIEL ; SHE YING ; FARAH MARIAN ; BOSHARD JULIAN ; GUAN WEI

Agent(s): RIDOUT AND MAYBEE LLP; HICKMAN PALERMO BECKER BINGHAM LLP; LIU AGATHA H 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: DEVICE FOR MICROENFRACTIONATING CONTAMINATED SOIL AND A METHOD FOR USING THE DEVICE IN THE MICROENFRACTIONATION OF CONTAMINATED MATERIAL

Abstract: This invention relates to a method of using a paddle in the accelerated remediation of a contaminated material. The method which comprises the steps of providing the paddle which is connectable to, and extendable outwardly from the periphery of, an elongate cylindrical drum having a longitudinal axis, for generating an air stream at a velocity sufficient for entraining the contaminated material therein, and for microenfractionating the contaminated material so that the contaminated material is capable of being treated with at least one chemical amendment prior to, and/or during, and/or subsequent to, microenfractionating the contaminated material, the paddle comprising a body having a first planar portion having a leading edge and a second planar portion connected at a first angle to the first planar portion, the second planar portion being oriented so as to generate a first material-entraining air stream when the drum is rotated, and a base portion connected to the body for mounting the paddle onto the drum.

Classifications:

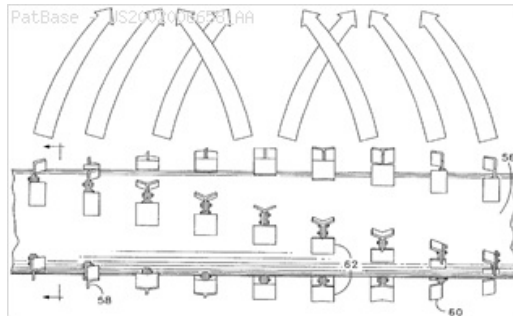
International (IPC 8-9): A01C3/00 A23K1/10 A62D3/00 A62D3/02 A62D3/38 B01F13/00 B01F3/06 B01F5/00 B01F7/00 B01F7/04 B02C13/02 B02C13/06 B02C13/26 B02C13/28 B09B3/00 B09C1/00 B09C1/08 B09C1/10 C02F11/00 C02F11/14 C05F17/00 C05F17/02 C05F3/00 C05F3/06 C12S13/00 C12S9/00 C12S99/00 C22B61/00 C22B7/00 (Advanced/Invention); A62D3/00 B01F5/00 B01F7/00 C12S99/00 (Advanced/Non-invention); A01C3/00 A23K1/10 B01F13/00 B01F3/06 B01F7/02 B02C13/00 B09B3/00 B09C1/00 B09C1/10 C02F11/14 C05F17/00 C05F17/02 C12S9/00 C12S99/00 C22B61/00 C22B7/00 (Core/Invention); B01F5/00 B01F7/00 (Core/Non-invention)

International (IPC 1-7): A01B9/00 A01C3/00 A01D55/00 A23K1/10 A62D3/00 B01F15/00 B01F15/02 B01F15/04 B01F5/00 B01F7/00 B01F7/04 B02C1/00 B02C13/00 B02C13/02 B02C13/06 B02C13/26 B02C13/28 B02C19/00 B02C19/02 B02C19/12 B02C21/02 B07B13/00 B09B3/00 B09C1/00 B09C1/08 B09C1/10 C02F11/14 C05F17/02 C05F3/00 C12M1/00 C12M1/14 C12M3/04 C12N1/00 C12N1/20 C12S1/00 C12S13/00 C22B61/00

CPC: Y02A40/205 Y02A40/208 C05F17/10 C05F17/80 C05F17/943 C05F17/979 C05F17/986 Y10S241/38 B01F7/00125 B01F7/00158 B01F7/04 B01F13/0035 B01F13/0037 B01F15/025 B01F2005/0017 B01F2215/0054 Y02P10/212 B01F13/00 B09C1/00 Y02P10/238 B09B3/00 B09C1/08 B09C1/10 B09C1/105 C22B7/005 Y02E50/343 Y02P20/145 Y02W30/43 Y02W30/47 C22B7/001 Y02P10/214 B01F3/06

European: B01F13/00 B01F13/00K4 B01F13/00K4B B01F15/02B40N B01F3/06 B01F7/04 B09B3/00 B09C1/00 B09C1/08 B09C1/10 B09C1/10P C05F17/00K C05F17/00V C05F17/02F8 C05F17/02K2C C05F17/02K2E C22B7/00B C22B7/00C L01F215/00A64 L01F5/00A6 L01F7/00B12B2 L01F7/00B12B6 L01F7/00Y8K12 L01F7/00Y8K4

US: 172/119 172/540 172/540S 241/1.3 241/11.5 241/119.5 241/18.3 241/1 241/101.74 241/101.742 241/101.76 241/15 241/18 241/189.1 241/191 241/195 241/26 241/277 241/3 241/5 241/56 241/83 241/DIG.38 366/131 366/189 366/325.1 366/327.1 366/331 366/345 405/128.7 405/128.75 405/128.750S 435/243 435/262 435/262.5 435/262.500P 435/262P 435/283.1 435/299.1 435/299.100S 588/203 588/316 588/320 588/405 588/406 71/21 71/21S



Family:

Publication number	Publication date	Application number	Application date
AT222815 E	20020915	AT19940914074T	19940406
AU199347778 A1	19940214	AU19930047778	19930720
AU199466283 A1	19941121	AU19940066283	19940406
AU199737376 A1	19980210	AU19970037376	19970723
AU200019160 A1	20010131	AU20000019160	19991117
AU200019160 A5	20010131	AU20000019160	19991117
AU200072210 A1	20010322	AU20000072210	20001213
AU200072210 A5	20010322	AU20000072210D	20001213
AU697852 B2	19981015	AU19940066283	19940406
AU724279 B2	20000914	AU19970037376	19970723
AU751152 B2	20020808	AU20000019160	19991117
AU768175 B2	20031204	AU20000072210	20001213
BRPI9405960 A	19960130	BR1994PI05960	19940406
CA2159619 AA	19950929	CA19942159619	19940406
CA2159619 C	20020611	CA19942159619	19940406
CA2257157 AA	19981202	CA19972257157	19970723
CA2257157 C	20021119	CA19972257157	19970723
CA2351082 AA	20010511	CA19992351082	19991117
CA2351082 C	20050322	CA19992351082	19991117
CA2372565 AA	19941110	CA19942372565	19940406
CA2372565 C	20030722	CA19942372565	19940406
CA2397427 AA	20030606	CA20022397427	20020812
CL1994000482 A1	19951212	CL19940000482	19940406
CZ259795 A3	19961113	CZ19950002597	19940406
CZ289901 B6	20020417	CZ19950002597	19940406
CZ9502597 A3	19961113	CZ19950002597	19940406
DE69431245 D1	20021002	DE19946031245	19940406
DE69431245 T2	20030430	DE19946031245T	19940406
EP0695369 A1	19960207	EP19940914074	19940406
EP0695369 A4	19981216	EP19940914074	19940406
EP0695369 B1	20020828	EP19940914074	19940406
EP0923405 A1	19990623	EP19970934276	19970723
EP0923405 A4	20020206	EP19970934276	19970723
EP1140382 A1	20011010	EP19990962795	19991117
EP1140382 A4	20020206	EP19990962795	19991117
JP8508198 T2	19960903	JP19940521419T	19940406
KR19960702009 A	19960328	KR19950704364	19951006
KR19967002009 A	19960328	KR19957004364	19940406
KR960702009 A	19960328	KR19950704364	19951006
NZ265501 A	19980527	NZ19940265501	19940406
NZ333130 A	20000623	NZ19970333130	19970723
NZ511288 A	20030530	NZ19990511288	19991117
US2002006658 AA	20020117	US20010943725	20010830

US2002182710 AA	20021205	US20010008590	20011206
US5586731 A	19961224	US19940273566	19940711
US5593888 A	19970114	US19940223523	19940405
US5803379 A	19980908	US19960688491	19960730
US5824541 A	19981020	US19960685116	19960723
US5854061 A	19981229	US19970782410	19970114
US6306641 BA	20011023	US19980197079	20011023
US6541241 BB	20030401	US20010943725	20010830
US6764848 BB	20040720	US20010008590	20011206
US6893862 BA	20050517	US20020310426	20021204
WO0100343 A1	20010104	WO1999US27351	19991117
WO9401995 A1	19940203	WO1993US06813	19930720
WO9425628 A1	19941110	WO1994US03829	19940406
WO9803229 A1	19980129	WO1997US12940	19970723

Priority:

US19920918528	19920721	US19930043666	19930406	WO1993US06813	19930720
US19940223523	19940405	CA19942159619	19940406	CA19942159619	19940406
CA19942372565	19940406	WO1994US03829	19940406	US19940273566	19940711
US19960685116	19960723	US19960688491	19960730	US19970782410	19970114
AU19970037376	19970723	WO1997US12940	19970723	US19980197079	19981120
WO1999US27351	19991117	AU20000072210	20001213	US20010943725	20010830
US19980197079	20011023	US20010008590	20011206	CA20022397427	20020812
US20020310426	20021204				

Probable Assignee: H AND H ECO SYSTEMS INC

Assignee(s): (std): H AND H ECO SYSTEMS INC ; HORN TERRY DEAN ; HORN RONALD DEAN ; H AND H ECO SYSTEM INC ; H AND H ECO SYSTEMS INC GLAZE BR ; HANDH ECO SYSTEMS INC ; FRONTIER MFG CO ; GLAZE BRADLEY S ; BRADLEY S GLAZE ; STOUT ROY CALVIN ; WARNER KENNETH R

Assignee(s): TERRY DEAN HORN RONALD DEAN HORN BRADLEY S GLAZE KENNETH R WARNER ; HORN RONALD D ; FRONTIER MFG ; H AMP AMP ; H AND H ECO SYSTEMS INC GLAZE BRADLEY S ; H ECO SYSTEM INC ; H ECO SYSTEMS INC

Inventor(s): (std): BRADLEY S GLAZE ; KENNETH R WARNER ; RONALD DEAN HORN ; TERRY DEAN HORN ; HORN RONALD D ; HORN TERRY D ; STOUT ROY CALVIN ; WARNER KENNETH R ; GLAZE BRADLEY S ; HORN RONALD DEAN ; HORN TERRY DEAN

Inventor(s): RONALD D HORN ; ROY CALVIN STOUT

Agent(s): FB RICE; FB RICE PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP; CLARO Y CIA; MARGER JOHNSON AND MCCOLLOM PC

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM 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 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 UZ VN YU ZA ZW

31) Family number: 8455941 (AU199454998A)

© PatBase

Title: BIOREMEDIATION OF XENOBIOTIC COMPOUNDS

Abstract: This invention relates to methods, materials, and compositions which are useful in degrading and eliminating xenobiotics (man-made chemicals), in particular, halogenated organic compounds such as the polychlorinated biphenyls, dioxins, DDT, chlordane, pentachlorophenol, dieldrin, lindane and other halogenated aromatic compounds, as well as non-halogenated aromatic compounds that are not readily biodegradable, such as coal-tar residues and explosives such as trinitrotoluene, from contaminated materials such as soils, sediments, sludges, manufactured materials, or feedstuffs of plant origin. soss# CCss C a)

Classifications:

International (IPC 8-9): B09B3/00 B09B5/00 (Advanced/Invention);

B09B3/00 B09B5/00 (Core/Invention)

International (IPC 1-7): B09B3/00 B09B5/00

Family:

Publication number	Publication date	Application number	Application date
■ AU199454998 A1	19940901	AU19940054998	19940209

Priority:

AU1993PL07480	19930225	AU19940054998	19940209
---------------	----------	---------------	----------

Probable Assignee: JOHN SAVILLE WAID

Assignee(s): (std): JOHN SAVILLE WAID

Assignee(s): WAID JOHN SAVILLE

Inventor(s): (std): WAID JOHN SAVILLE

Inventor(s): JOHN SAVILLE WAID

Agent(s): GRIFFITH HACK