

Search history

Search 1: FT=(CORIOLIS~ AND PUMP~ AND PERFORATION~ AND DRILL~ AND TUBES~ AND CONTROL~ AND MEASURE~) (Results 41)

Title: CENTRIFUGAL SEPARATOR AND METHOD

Priority: US19920896185 19920610 WO1993US05505 19930609 US19930149994 19931110
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Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee: INT SEPARATION TECHNOLOGY INC**Assignee(s):(std):** INT SEPARATION TECHNOLOGY INC ; TAGGART CHARLES W ; TAGGART ; ROGERS ERNEST E ; CHARL Z ; COLLIER KEVIN E ; INT SEPARATION TECHN INC ; V US**Assignee(s):** V ; TAGGART, CHARL'Z, V. ; ROGERS ERNEST ; INT SEPARATION TECHNOLOGY ; CHARLES W ; CHARLES W TAGGART ; MADSON AND METCALF SUITE ; MADSON AND METCALF ; INTERNATIONAL SEPARATION TECHNOLOGY INC ; INTERNATIONAL SEPARATION TECHNOLOGY**Inventor(s):(std):** ROGERS ERNST E ; ROGERS ERNEST E ; ROGERS ERNEST ; KEVIN E COLLIER ; ERNEST ROGERS ; ERNEST EMANUEL ROGERS ; ERNEST E ROGERS ; COLLIER KEVIN E ; RODZHERS EHRNEST**Inventor(s):** RODZHERS EHRNEST[US] ; KELVIN E COLLIER**Agent(s):** GRIFFITH HACK; CASSAN MACLEAN**Designated states:** AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NJ PL PT RO RU SD SE SG SI SK SN SZ TD TG TT TR UA UG US UZ VN**International class** B01D17/02 B01D17/038 B01D21/26 B04B1/02 B04B1/04 B04B1/10 B04B11/00 B04B5/04
(IPC 8-9): B04B7/08 (Advanced/Invention);

B04B7/04 (Advanced/Non-invention);
B01D17/02 B04B1/00 B04B7/00 (Core/Invention)

International class
(IPC 1-7):

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B04B5/04 B04B7/04 B04B7/08

CPC:

B01D21/262 B04B1/04 B04B1/02 B01D17/0217 B04B1/10

European class:

B01D17/02H B01D21/26 B04B1/02 B04B1/04 B04B1/10

US class:

210/221.2 210/360.1 210/380.1 210/512.1 210/512.3 210/787 494/43 494/50 494/60 55/459.1 55/459.4

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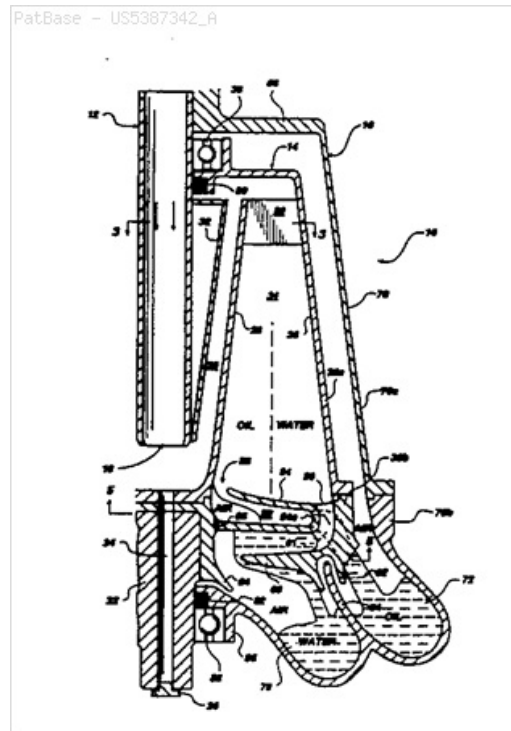
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Abstract:

A separator for separating a first fluid from a second fluid through rotation about an axis of rotation, the first fluid having a density less than the density of the second fluid. In one embodiment, the separator includes a separation chamber mounted for rotation about the axis of rotation. A first weir is positioned in fluid communication with the separation chamber. A second weir is positioned over which the second fluid may pass to exit the separation chamber through a collection chamber. A fluid pressure chamber is positioned radially outwardly from the crest of the second weir to receive the second fluid as it passes over the second weir. The fluid pressure chamber is partially defined by an exit weir over which the second fluid may pass. A gas chamber is positioned in the passageway between the second weir and the exit weir and includes a gas escape passageway through which excess gas may escape from the gas chamber such that a gas barrier is formed to maintain the fluid level between the gas chamber and the fluid pressure chamber at the radial level of the gas escape passageway. A gas introduction passageway is provided through which gas may be introduced into the gas chamber.



Title: Method and apparatus for well bore construction

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Probable Assignee: BAKER HUGHES INC**Assignee(s):(std):** BAKER HUGHES INC**Assignee(s):** DONOVAN JOSEPH F ; JOHNSON MICHAEL H ; TURICK DANIEL J ; WATKINS LARRY A**Inventor(s):(std):** MICHAEL H JOHNSON ; TURICK DANIEL J ; TURICK JR ; WATKINS LARRY A ; TURICK DANIEL ; TURICK ; SHAW CHRISTOPHER K ; LEUNG WALLACE W F ; LARRY A WATKINS ; DONOVAN JOSEPH F ; JOHNSON MICHAEL H ; JOSEPH F DONOVAN ; DANIEL J TURICK ; WATKINS LARRY ; TURICK JR DANIEL**Inventor(s):** DANIEL TURICK JR ; LARRY WATKINS**Agent(s):** FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; SIM AND MCBURNEY**Designated states:** AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GH

GN GR HU IE IL IS IT JP KE KG KP KR KZ 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 SN SZ TD TG TJ TM TR TT UA UG UZ VN

**International class
(IPC 8-9):**

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166/250.01 166/250.15 166/265 166/313 166/50 175/40

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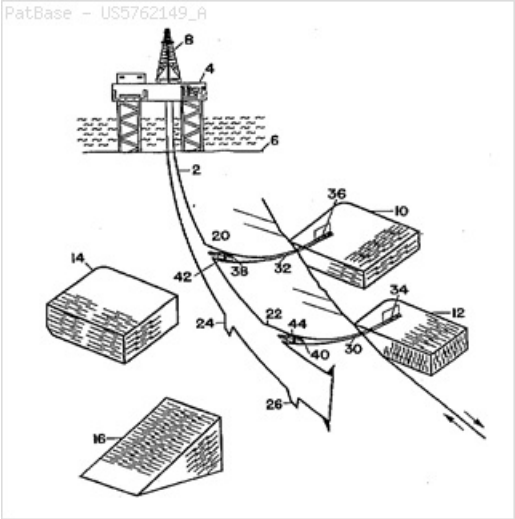
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CN103109040, CN103109040, CN102828736, CN102828736, CN102748003, CN102733779,
CN102619497, CN102619497, CN101275459, AU767007, AU2013315879, AU2012245644,
AU2010337437, AU2006213129, AU2003278716,

Abstract:

A system for producing a field is disclosed. The field includes a main access well with a first branch well extending therefrom. A separator for separating oil and water is placed in the first branch well. In an alternate embodiment, the separator may be contained within the main access well. A second branch well may also extend from the main access well and may contain a disposal assembly that is operatively associated with the separator. The first and second branch wells may intersect the same

reservoir or different reservoirs.



Title:Coriolis pump-off controller

Priority:US19960629805 19960410WO1997US05651 19970404

Family:

Publication number	Publication date	Application number	Application date
AU199726080 A1	19971029	AU19970026080	19970404
BRPI9709297 A	19990810	BR1997PI09297	19970404
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CN1221470 A	19990630	CN19971095421	19970404
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KR100382208 B1	20030821	KR19980708065	19970404
KR20000005345 A	20000125	KR19980708065	19981010
RU2165035 C2	20010410	RU19980120356	19970404
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WO9738207 A1	19971016	WO1997US05651	19970404

Probable Assignee:MICRO MOTION INC

Assignee(s):(std):MAJKRO MOUSHN INK ; MICRO MOTION INC

Assignee(s):MICRO MOTION INC BOULDER ; DUTTON ROBERT E

Inventor(s):(std):DUTTON E ; DUTTON R E ; DUTTON ROBERT E ; DATTON ROBERT E

Inventor(s):R E DUTTON ; RE DUTTON ; ROBERT E DUTTON

Agent(s):BORDEN LADNER GERVAIS LLP

Designated states:AL AM AT AU AZ BA BB BE BG BR BY CA 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 LI 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 TJ TM TR TT UA UG UZ VN

International class (IPC 8-9):E21B43/12 F04B47/02 F04B49/06 F04B49/10 (Advanced/Invention); E21B43/12 (Advanced/Non-invention); E21B43/12 F04B47/00 F04B49/06 F04B49/10 (Core/Invention)

International class (IPC 1-7):E21B43/12 E21B47/00 E21B47/10 F04B47/02 F04B49/06 F04B49/10

CPC:E21B43/127 E21B47/0008 F04B49/065 F04B49/106 F04B2201/0201 F04B2205/09

European class:E21B43/12B9C E21B47/00P2 F04B49/06C F04B49/10V R04B201/0201 R04B205/09

US class:166/250.15 166/369 166/53 166/68.5 166/91.1 417/36 73/152.61

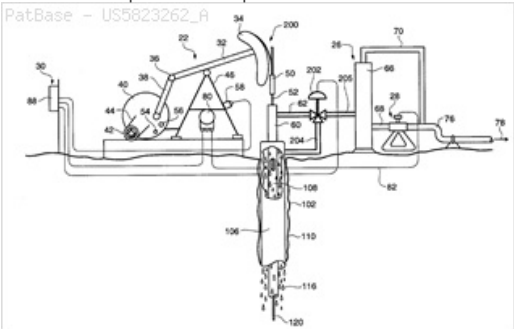
[Classification Explorer](#)

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Forward Citations:WO13126606, WO08118241, WO08050645, WO04005661, WO04005661, WO02060805, USRE40095, US9938805, US9790938, US9689251, US9353309, US9280517, US9200509, US9157308, US9033676, US8988237, US8988236, US8892372, US8844626, US8550690, US8444393, US8417483, US8403050, US8281853, US8261825, US8249826, US8180593, US8138127, US7953585, US7878250, US7869978, US7739089, US7708059, US7668694, US7558699, US7533730, US7360399, US7341100, US7168924, US6592332, US6327914, US6263730, US6209642, US6167965, US6119781, US2015275650, US2014083773, US2013327520, US2013080117, US2012025997, US2011106452, US2011014071, US2010319920, US2010276149, US2010224361, US2010152071, US2010150737, US2009120638, US2009044952, US2008308167, US2008240930, US2008190604, US2008067116, US2008048840, US2007215357, US2007119767, US2006289168, US2006276999, US2006251525, US2006032533, US2005284210, US2004149436, US2004064292, US2004062658, US2004062657, RU2616702, KR100751956, JP2014530719, JP2010540812, EA025383, DE102004018326, CN105937385, CN104246127, CN101835956, AU2013222343, AU2002243724,

Abstract:

The operation of an oil well **pumping** unit **control** system (20, 200) is governed by a computerized automated **control** unit (88) that receives flow rate measurements from a **Coriolis** flow meter (28). The **control** unit causes production from a beam **pumping** unit (22) to cease when measurements from the **Coriolis** flow meter indicate a decline in the **pump** efficiency. The decline in **pump** efficiency indicates that a production fluid level (136) in the production tubing (108) has fallen below the uppermost point of travel for the plunger (122). Production from the well is, accordingly, shut-in to afford the reservoir sufficient time to build the pressure and corresponding fluid level that is required to recommence production operations.



Title: CONCENTRIC TUBULAR CENTRIFUGE

Priority: US19960028556P 19961015 US19970950377 19971014 WO1997US18548 19971015
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Family:	Publication number	Publication date	Application number	Application date
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	US2008009401 AA	20080110	US20070775028	20070709
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	WO06116135 A1	20061102	WO2006US15171	20060421
	WO9816321 A1	19980423	WO1997US18548	19971015

Probable Assignee: EARTH INC**Assignee(s):(std):** BEGLEY PAUL V ; CORNAY PAUL J ; CORNAY PAUL JOSEPH ; GERVASI LOUIS R ; TOVANI ERNEST P ; MATZEN GARY ; EARTH TECHNOLOGIES INC ; EARTH LLC**Assignee(s):** TOVANI ERNEST PETER ; ADROP LLC ; EARTH INC ; PAUL J CORNAY**Inventor(s):(std):** CORNAY PAUL ; CORNAY PAUL J ; CORNAY PAUL JOSEPH ; TOVANI ERNEST ; TOVANI ERNEST PETER ; TOVANI ERNEST P ; GERVASI LOUIS R ; BEGLEY PAUL V ; MATZEN GARY**Inventor(s):** PAUL J CORNAY ; BEGLEY PAUL ; ERNEST PETER TOVANI ; GARY MATZEN ; GERVASI LOUIS**Agent(s):** GOWLING LAFLEUR HENDERSON LLP; NEEDLE JACQUELINE; DORSEY AND WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT; DORSEY AND WHITNEY LLP, INTELLECTUAL PROPERTY DEPARTMENT; DORSEY AND WHITNEY LLP**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

International class (IPC 8-9): A61K31/662 B01D11/02 B01D17/038 B01D21/26 B01J19/00 B01J19/18 B01J19/20 B01J19/28 B01J8/02 B04B1/00 B04B1/04 B04B11/00 B04B11/02 B04B5/02 B04B5/06 B04B7/08 C02F1/38 C02F1/72 (Advanced/Invention); B01J19/00 B01J19/18 B04B1/00 B04B11/00 B04B5/00 (Core/Invention); B01J B04B (Subclass/Invention)

International class (IPC 1-7): B01J8/10 B04B11/00 B04B5/02

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US class: 210/294 210/319 210/322 210/360.1 210/380.3 210/758 210/787 422/198 422/198S 422/209 422/209S 422/224 422/224P 422/228 422/228S 422/269 422/270 422/271 494/13 494/13S 494/14 494/14 494/14S 494/22 494/31 494/31P 494/33 494/33P 494/37 494/37P 494/37S 494/38 494/38S 494/43

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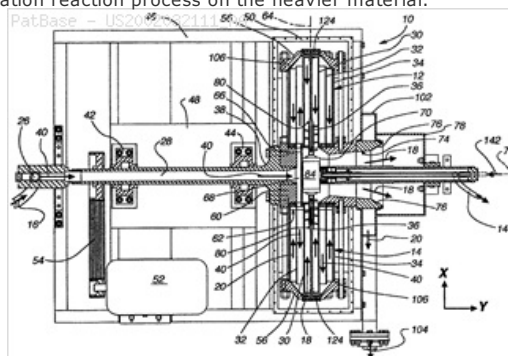
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Forward Citations:

WO10010972, WO08137557, WO08122026, WO06116135, US9821962, US9815636, US9611556, US9554742, US9523104, US9346624, US9233866, US9212005, US9114408, US8980143, US8978545, US8808155, US8778781, US8771499, US8636634, US8608911, US8414764, US8372272, US8268136, US8147681, US8147680, US8062512, US8057666, US8020498, US7955508, US7933680, US7867385, US7862709, US7810207, US7785462, US7758746, US7757866, US7754461, US7749379, US7708897, US7374529, US7241256, US7189196, US6508752, US2016107173, US2014302976, US2014273127, US2013056345, US2011028296, US2011003046, US2010329938, US2010200470, US2010200469, US2010193404, US2010193403, US2010175311, US2010063271, US2010038294, US2009321325, US2009263309, US2009200176, US2009159523, US2009159461, US2008272067, US2008271654, US2008217308, US2008085851, US2007254795, US2007201304, US2007184045, US2006258522, US2005054507, US2005054506, US2004142807, JP2017136376, GB2503233, EP2729784, EP2130487, EP1315571, DE102004016885, DE102004016885,

Abstract:

A two-**tube** centrifuge separates light material and heavy material from an input mixture. A hollow drive shaft rotates a central body member about an axis of rotation. Two hollow arm assemblies, each having circular cross-section, are mounted on diametrically opposite sides of the central body. Each arm assembly includes an outer housing **tube**, an intermediate **tube**, and an inner **tube** that is longer than the intermediate **tube**. An end cap having a removable plug is mounted on the outer end of the housing-**tube** of each arm assembly. The inner ends of all three **tubes** are mechanically interlocked in a manner to cantilever mount the inner and intermediate **tubes** to the central-body with their outer ends spaced from the internal surface of the end cap. An input-mixture path extends through the hollow drive shaft, through the central-body, and into a cylindrical space between the inner and intermediate **tubes** of each arm assembly. A heavy material exit path extends from the inner **tube**, through the central body, and into an exit cone that lies diametrically opposite the drive shaft and whose axis is coincident with the axis of rotation. A light material exit path extends from a cylindrical space between the inner and intermediate **tubes**, through the central-body, and through a wall of the exit cone. The inner **tube** of each arm assembly includes an auger. An electric motor drives the drive shaft. A hydraulic motor drives the auger. An oxidation reactor in a centrifuge for decanting lighter material from heavier material from a mixture of initial material and to perform an oxidation reaction process on the heavier material.



Title: Fluid flow straightening techniques

Priority:

US19990316318	19990521	US19990429815	19991029	WO2000US29664	20001027
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Family:

Publication number	Publication date	Application number	Application date
AU200115758 A1	20010514	AU20010015758	20001027
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US7143468 BB	20061205	US20030457112	20030609
WO0133084 A1	20010510	WO2000US29664	20001027

Probable Assignee: DMR HOLDING GROUP LLC**Assignee(s):(std):** VORTEX HOLDING COMPANY ; ILLINGWORTH LEWIS ; VORTEX HOLDING COMPANY A ; REINFELD DAVID ; VORTEX HOLDING CO A ; VORTEX HC LLC ; VORTEXHC LLC ; AVIONIC INSTR INC ; AVIONIC INSTRUMENTS INC ; VORTEX HOLDING CO**Assignee(s):** LLLINGWORTH LEWIS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH ; DMR HOLDING GROUP LLC ; A VORTEX HOLDING COMPANY ; ACU RITE INC**Inventor(s):(std):** ILLINGWORTH LEWIS ; LLLINGWORTH LEWIS ; REINFELD DAVID**Inventor(s):** LEWIS ILLINGWORTH ; DAVID REINFELD

Agent(s): SHAPIRO COHEN; WARD AND OLIVO; WARD AND OLIVIA

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 UZ VN YU ZA ZW

International class (IPC 8-9): A47L5/14 A47L9/02 A47L9/08 A47L9/10 B01D17/038 B29C47/00 B29C47/92 B64C11/00 B64C11/48 B64C27/20 E04H4/16 F04D1/14 F15D1/00 (Advanced/Invention); A47L5/12 A47L9/02 A47L9/10 B01D17/02 B29C47/00 B29C47/92 B64C11/00 B64C27/00 E04H4/00 F15D1/00 (Core/Invention)

International class (IPC 1-7): A47L5/14 A47L9/02 A47L9/08 B01D17/038 B01D45/00 B01D45/12 B01D45/14 B08B5/04 B60V1/11 B60V1/14 B60V1/15 B63H1/16 B63H7/02 B64C11/00 B64C11/48 B64C23/06 B64C27/00 B64C27/20 B64C29/00 E04H4/16 F01D1/02 F01D5/22 F01D9/00 F03B3/12 F04D1/14 F04D19/00 F04D29/26 F04D29/30 F04D29/38 F15C1/16 F24F9/00

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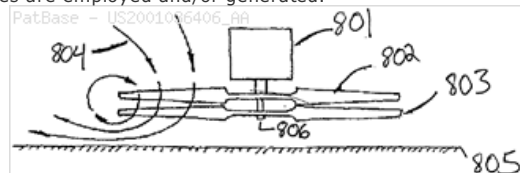
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Abstract:

Contra-rotating members are used for straightening a fluid flow. The members may take the form of propellers, fans or impellers. The contra-rotation eliminates tangential flow components, and most importantly, eliminates cylindrical vortices. The present invention finds specific use in applications in which toroidal vortices are employed and/or generated.



Title:

Multiphase metering method for multiphase flow

Priority:

US19980143035 19980828

Family:

Publication number	Publication date	Application number	Application date
US6234030 BA	20010522	US19980143035	19980828

Probable Assignee:

B27 LLC

Assignee(s):(std):

ROSEWOOD EQUIPMENT CO ; ROSEWOOD EQUIPMENT COMPANY

Assignee(s):

WELLS FARGO BANK NATIONAL ASSOCIATION ADMINISTRATIVE AGENT AS ; B27 LLC ; BANK OF AMERICA NA COLLATERAL AGENT AS ; GOLDMAN SACHS BANK USA ADMINISTRATIVE AGENT AS ; MADISON CAPITAL FUNDING LLC AGENT AS ; MADISON CAPITAL FUNDING LLC AS AGENT

Inventor(s):(std):

BUTLER BRYAN V

International class (IPC 8-9):

E21B21/01 E21B21/06 G01F1/74 G01F15/08 G01N33/28 (Advanced/Invention); E21B21/00 G01F1/74 G01F15/00 G01N33/26 (Core/Invention)

International class (IPC 1-7):

G01F1/74 G01F15/08 G01F7/00 G01N33/22

CPC:

E21B21/01 E21B21/06 G01F1/74 G01F15/08 G01N33/2823

European class:

E21B21/01 E21B21/06 G01F1/74 G01F15/08 G01N33/28E

US class:

73/195 73/200 73/61.44 73/861.04

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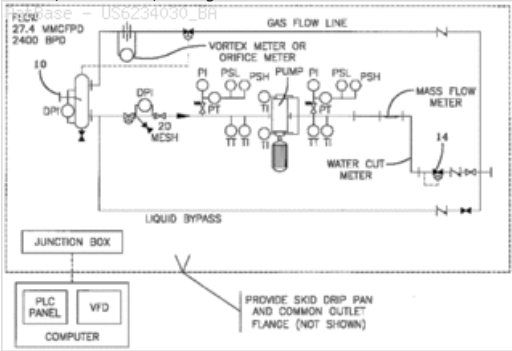
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WO18004713, WO15011369, WO14152976, WO13043995, WO13043995, WO12154971, WO12154971, WO11129974, WO10020435, WO07140151, WO07140151, WO03100555, WO03100555, WO0250398, US9958367, US9932800, US9915132, US9903190, US9879663, US9863860, US9664548, US9645130, US9631469, US9562427, US9518430, US9512700, US9255469, US9222345, US9114332, US9068450, US9057243, US9032815, US8978763, US8839867, US8739635, US8725457, US8646307, US8479571, US8269650, US8156800, US8104337, US8065110, US8024125, US7992434, US7775085, US7711488, US7654151, US7650950, US7599803, US7596996, US7591191, US7569097, US7523647, US7516794, US7474969, US7457714, US7434479, US7367411, US7347945, US7334450, US7311001, US7278496, US7240568, US7201068, US7134500, US7133786, US7093665, US7044237, US6945122, US6823271, US6802204, US6782339, US6564619, US6532826, US6427521, US2016216188, US2016131795, US2016054213, US2015114652, US2014136125, US2013327154, US2013174635, US2012216625, US2011297396, US2011185809, US2010212763, US2010154529, US2010104452, US2010059221, US2010011876, US2009308152, US2009308151, US2009150079, US2009107218, US2008288181, US2008257032, US2008156088, US2008000306, US2007295501, US2007274842, US2007240498, US2007239402, US2007204750, US2007157708, US2007095136, US2006248963, US2006247869, US2006236779, US2006212232, US2006124313, US2006113110, US2006106397, US2006089654, US2005216242, US2005133261, US2005044965, US2005002812, US2004112122, US2004011748, US2002065627, GB2474997, FR3009036, EP2225539, EP1595937, EP1595937, DE102006008661, DE102006008661, CN104114810, CN104114810, CN103015985, AU2006202948,

Abstract:

The present invention includes a method for multiphase metering of multiphase flow. the method begins with reducing gas volume to about 20 percent or less, then **pumping** the flow stream through two meters, a cut meter and a mass flow meter, arranged in series. Computations may be made on the flow stream to determine net oil rate, water cut, and gas fraction in the flow stream.



Title: DENSE FLUID CLEANING CENTRIFUGAL PHASE SHIFTING SEPARATION PROCESS AND APPARATUS

Priority: US20000189079P 20000313 US20000189079P 20000313 US20010221767 20010313
WO2001US08054 20010313 US20020221767 20020912 US20040897672 20040723
US20050271725 20051109

Family:

Publication number	Publication date	Application number	Application date
AU2001247407 AA	20010924	AU20010247407	20010313
AU200147407 A1	20010924	AU20010047407	20010313
AU200147407 A5	20010924	AU20010047407	20010313
US2003205510 AA	20031106	US20020221767	20020912
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US7601112 BB	20091013	US20050271725	20051109
WO0168279 A2	20010920	WO2001US08054	20010313
WO0168279 A3	20020321	WO2001US08054	20010313

Probable Assignee: DEFLEX LLC

Assignee(s):(std): DEFLEX LLC ; JACKSON DAVID P

Assignee(s): THE DEFLEX LLC

Inventor(s):(std): JACKSON DAVID P

Inventor(s): JACKSON DAVID ; DAVID P JACKSON

Agent(s): DUFAULT LAW FIRM PC; DUSTIN R

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 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 LK LR LS LT LU LV MA MC MD MG MK MN MR MW MX MZ NE NL NO NZ PL PT RO RU SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8-9): B01D11/04 B01D17/02 B04B3/00 B04B5/10 B04B9/00 B08B3/06 B08B7/00 (Advanced/Invention); B04B5/00 B04B9/00 B08B7/00 (Core/Invention)

International class (IPC 1-7): B01D33/00 B01D33/80 B04B5/00 B08B3/06 B08B7/00

CPC: B01D11/0407 B01D2011/007 B08B3/06 B08B7/0021 B01D17/0205 B01D11/0403 B01D11/048 B01D17/0217 B01D17/04 B01D17/044 B01D17/048 B01D11/0476

European class: B01D11/04B B01D17/02D B04B3/00 B08B3/06 B08B7/00L L01D11/00G

US class: 134/1.2 134/148 134/31 134/33 134/56R 210/149 210/360.1 210/360.100S 210/391 210/86 210/86P 210/89 210/9 210/90 210/90S 210/94 210/94S 494/1 494/10 494/10S 494/29 494/29S 494/36 494/36P 494/36S 494/37 494/83 494/83S 494/84 494/84S

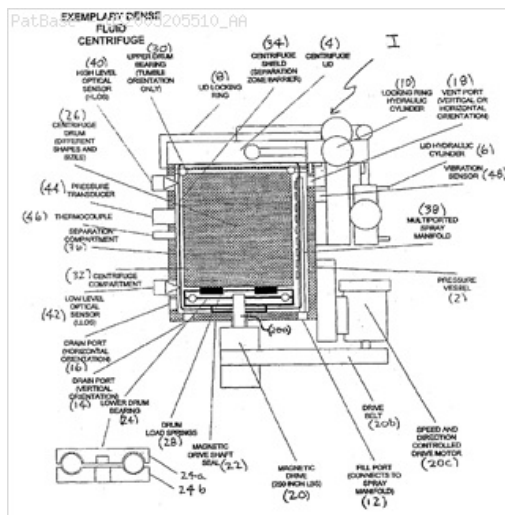
[Classification Explorer](#)

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Forward Citations: WO17155751, WO06008181, WO04101181, WO04101181, WO04082858, USRE41115, US9857268, US9691638, US9679788, US9527118, US9387511, US9381574, US9352355, US8096064, US8048830, US7867288, US7789971, US7767145, US7566347, US7550075, US7534308, US7524383, US7494107, US7491036, US7442636, US7435447, US7435265, US7434590, US7399708, US7387868, US7380984, US7327581, US7307019, US7291565, US7270941, US7270137, US7255772, US7250374, US7225820, US7208411, US7186093, US7163380, US7147670, US7140393, US7097715, US7077917, US7064070, US7060422, US7055333, US7044662, US7044143, US7021635, US7001468, US6926798, US6926012, US6924086, US6921456, US6874513, US6871656, US6748960, US6736149, US2015247783, US2013000144, US2013000140, US2009255061, US2009193594, US2008263781, US2007103878, US2007087955, US2007017036, US2006213820, US2006065189, US2005198971, US2004173246, US2003220219, US2003033676, US2002148492, EP3159063, EP1459812, CN103442778, CN102856234,

Abstract:

The present invention is an apparatus and process for cleaning substrates using dense fluids under the influence of a continuous centrifugal force. Dense fluid centrifugal separations resolve many problems associated with conventional dense fluid cleaning technology. These include elimination of pooling and supercooling of liquid carbon dioxide trapped within pores and cavities of a substrate-leading to formation of dry ice and recontamination of substrate, ability to precision clean using one unit volume of dense fluid per cleaning operation and ability to remove small insoluble particles from deep voids or cavities. The present invention can perform solvent-aided separation processes heretofore not possible using conventional dense fluid technology. These include liquid-liquid, liquid-supercritical-fluid, froth flotation and centrifugal phase-shift separations. Finally, the present invention embodies an alternative dense fluid centrifuge apparatus that can tilt from vertical to any angle of orientation to horizontal. This allows for a large variety of substrate cleaning and finishing applications using the dense fluid technology such as barrel finishing-deburring and cleaning in one single device and process.



Title:

FILTER ASSEMBLY, FILTER ELEMENT, AND METHOD OF UTILIZING THE SAME

Priority:

US20000225895P 20000817 US20010931510 20010816 WO2001US25731 20010816
US20040863798 20040608 US20060531986 20060914 US20070986667P 20071109
US20070942525 20071119 US20080186421 20080805 US20080208869 20080911
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Family:

Publication number	Publication date	Application number	Application date
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AU200185003 A1	20020225	AU20010085003	20010816
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US7513372 BB	20090407	US20070942525	20071119
US7674377 BB	20100309	US20080186421	20080805
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US9269976 BB	20160223	US20150722333	20150527
WO0213941 A1	20020221	WO2001US25731	20010816
WO09067195 A2	20090528	WO2008US12882	20081118
WO09067195 A3	20090903	WO2008US12882	20081118
WO09067195 A4	20091015	WO2008US12882	20081118
WO10065640 A1	20100610	WO2009US66415	20091202

Probable Assignee:

CAREW E BAYNE

Assignee(s):(std):

CAREW E B ; CAREW E BAYNE ; CAREW BAYNE

Assignee(s):

CAREW E ; E BAYNE CAREW

Inventor(s):(std):

CAREW E BAYNE ; CAREW BAYNE ; CAREW E B ; CAREW E

Inventor(s):

E BAYNE CAREW

Agent(s):

GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; HOWARD AND HOWARD ATTORNEYS PC; HOWARD AND HOWARD ATTORNEYS PLLC; WARNER NORCROSS AND JUDD LLP; DEGRAZIA GREGORY D ET AL; DEGRAZIA GERGORY D 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 YU ZA ZM ZW

International class (IPC 8-9):

A01K63/04 B01D24/00 B01D29/00 B01D29/13 B01D29/15 B01D29/23 B01D29/33 B01D29/48 B01D29/60 B01D29/64 B01D29/66 B01D29/68 B01D29/82 B01D29/90 B01D3/14 B01D33/06 B01D33/073 B01D33/27 B01D33/35 B01D33/76 B01D33/80 B01D35/30 B01D36/00 B01D37/02 B01D37/04 B01D53/02 B01D53/08 B01F15/02 B01F15/06 B01F7/00 B01J10/00 B01J19/18 B01J8/00 C02F1/32 C10J3/48 G05D7/00 H01M8/06 (Advanced/Invention); C02F1/00 C02F1/38 C02F1/40 (Advanced/Non-invention); A01K63/04 B01D29/00 B01D29/13 B01D29/44 B01D29/60 B01D29/62 B01D29/66 B01D29/88 B01D33/00 B01D33/06 B01D35/30 B01D36/00 B01D37/00 B01D53/02 B01D53/06 B01F15/00 B01F15/02 B01F7/00 B01J8/00 C10J3/48 (Core/Invention)

International class (IPC 1-7):

B01D27/00 B01D29/15 B01D29/23 B01D29/48 B01D29/66 B01D29/90 B01D37/02

CPC:

B01D29/90 B01D36/00 C10G2300/4093 B01J23/75 B01J29/40 B01J35/023 C10G2400/26 C02F1/28 C02F1/325 C02F1/444 C02F1/4691 C02F9/00 C02F2101/30 C02F2201/003 C02F2201/3223 C02F2201/3228 C02F2303/16 B01D3/141 C02F1/001 C02F1/385 C02F1/40 B01D29/23 B01D29/58 B01D29/606 B01D29/668 B01D29/902 B01D29/925 B01D29/906 B01D29/908 C02F1/32 H01M8/0643 B01D46/403 B01D53/08 B01D2251/404 B01D2251/602 B01D2253/112 B01D2256/16 B01D2256/20 B01D2257/302 B01D2257/404 B01D2257/504 B01D2259/40086 B01D2259/4009 B01D2275/302 C10K1/024 Y02C10/08 Y02P20/152 A01K63/045 B01D29/15 B01D29/48 B01D36/003 B01D37/025 B01D2201/0415 B01D2201/184

European class:

A01K63/04B B01D29/15 B01D29/48 B01D36/00L B01D37/02B B01D46/40H B01D53/08 C02F1/32D C10K1/02D L01D201/04C L01D201/18F L01D251/404 L01D251/602 L01D253/112 L01D256/16 L01D256/20 L01D257/302 L01D257/404 L01D257/504 L01D259/40T20 L01D259/40T30G L01D275/30C L01J23/75 L01J29/40 L01J35/02B M02F1/28 M02F1/44D M02F1/469B M02F101/30 M02F201/00D2

US class:

1/1 204/155 204/156 204/157.15 204/157.22 204/164 210/148 210/167.21 210/167.210P 210/179
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 210/493.400P 210/493.5 210/493.500S 210/497.01 210/497.1 210/497.100S 210/512.3 210/650
 210/670 210/741 210/748 210/748.01 210/748.1 210/748.13 210/748.130P 210/749 210/762 210/763
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 422/109 422/186 422/186.06 422/186.3 422/187 422/22 422/24 422/619 429/416 48/198.3 48/198.7
 48/61 48/62.00RP 48/62R 502/12 502/20 502/45 502/46 502/47 502/51 502/514 95/107 95/108
 95/108P 96/134 96/134S

[Classification Explorer](#)

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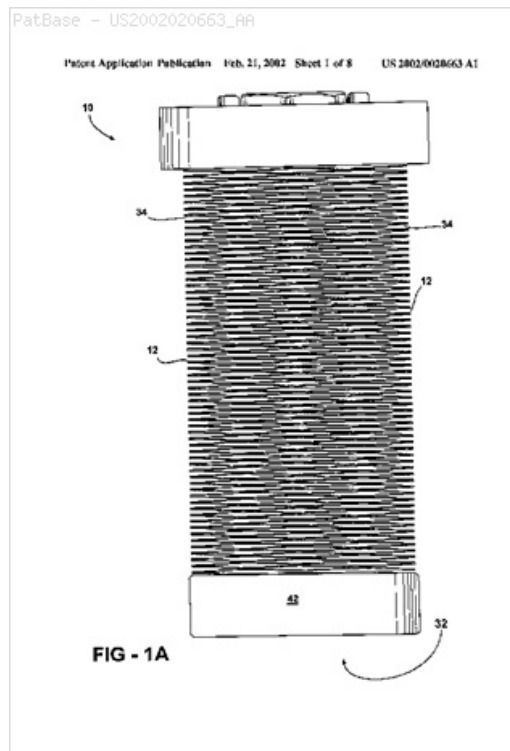
WO9307944 A2, WO9102578 A1, WO08030805 A1, US99315 A, US823527 A, US8147590 BB,
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 US4277261 A, US4276062 A, US4255166 A, US4227576 A, US4220478 A, US4214878 A, US4199454 A,
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 US2007124997 AA, US2005133459 AA, US2004213710 AA, US2002074292 AA, US1940585 A,
 US1768465 A, US1414132 A, US1036123 A, SU2077925 C, RU2077925 C1, GB945614 A, GB527259 A,
 EP0995475 A1, EP0774288 A1, EP0159961 A1, EP0057670 A2,

Forward Citations:

WO14174309, WO14059539, WO13029122, WO13029122, WO13000807, WO11071873, WO11071873,
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 EP2906322, EP2719798, EP2386341, CN105601080, CN105452174, CN103081851, CN103081851,
 CN102989597, CN102421497,

Abstract:

A filter assembly and a method of filtering a fluid using the filter assembly are disclosed. The filter assembly includes wave coils arranged axially to define a filter element. The filter element includes bottom and top ends and an inner cavity. The filter assembly also includes a base plate that engages one, or both, ends to support the wave coils. The fluid flows toward the base plate, and the base plate diverts the fluid inside or outside the inner cavity. The wave coils include crests and troughs engaging one another on adjacent wave coils to define filtration apertures. The diverted fluid is filtered through the filtration apertures such that a filtrate of the fluid passes through the inside or outside of the inner cavity, and a retentate of the fluid is retained on the other of the inside or outside of the inner cavity relative to the filtrate.



Title:DEIONIZERS WITH ENERGY RECOVERY

Priority:

TW20010102023 20010201US20010784718 20010215US20010948852 20010709US20010948852 20010907EP20010122951 20010925US20020109825 20020327EP20020008947 20020422EP20020008947 20020422US20020273747 20021018US20020065501 20021025EP20020025340 20021113

Family:	Publication number	Publication date	Application number	Application date
	AU2002302116 AA	20031023	AU20020302116	20021122
	AU2002302116 BB	20040219	AU20020302116	20021122
	AU200252742 A1	20031002	AU20020052742	20020701
	AU200252742 A5	20031002	AU20020052742	20020701
	AU5274202 A1	20031002	AU20020052742	20020701
	AU772718 B2	20040506	AU20020052742	20020701
	DE60125941 D1	20070222	DE20016025941	20010925
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	EP1296337 B1	20070110	EP20010122951	20010925
	EP1348670 A1	20031001	EP20020025340	20021113
	JP2003285066 A2	20031007	JP20020173189	20020613
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Probable Assignee:GAINIA INTELLECTUAL ASSET SERVICES INC

Assignee(s):(std):HSIEH FEI CHEN ; HSIEH YU HIS ; SHIUE LIH REN ; SUN ABEL ; SHIUE CHIA CHANN ; LAI YING JEN ; LIH REN SHIUE ; LUXON ENERGY DEVICES CORP ; YUKIN KAGI KOFUN YUGENKOSHI ; CHIU MING LIANG ; CHUNG HSING CHEN ; WU DIEN SHI

Assignee(s):GAINIA INTELLECTUAL ASSET SERVICES INC ; SHIUE LIH REN NO ; JOU JIUNG JAU ; CHAO CHING WEN

Inventor(s):(std):ABEL SUN ; CHAO CHING WEN ; CHIA CHANN SHIUE ; CHIU MING LIANG ; CHUNG HSING CHEN ; FEI CHEN HSIEH ; HSIEH FEI CHEN ; HSIEH YU HIS ; HSING CHEN CHUNG ; JAU JIUNG JOU ; JIUNG JAU JOU ; JOU JIUNG JAU ; LAI YING JEN ; LEE CHIN HUI ; LIH REN SHIUE ; LIN REN SHIUE ; LO WAN TING ; MING LIANG CHIU ; SETSU RITSUJIN ; SHA GYOKUKA ; SHA HICHIN ; SHIUE CHIA CHANN ; SHIUE LIH REN ; SHIUE LIN REN ; SHO KOSHIN ; SHU SHUNCHO ; SON HOKET ; SON JITSUKEI ; SUN ABEL ; WANG S YEN ; WU DIEN SHI ; YING JEN LAI ; YU HIS HSIEH

Agent(s):GRIFFITH HACK

Designated states:AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

International class (IPC 8-9):C02F1/28 C02F1/46 C02F1/461 C02F1/469 C23C14/06 C23C16/30 C23C18/31 C23C18/34 C25B11/04 C25B11/10 C25B11/12 C25D5/48 C25D7/00 H01G11/02 H01G11/08 H01G11/22 H01G11/24 H01G11/26 H01G11/46 H01G11/66 H01G11/70 H01G9/00 H01G9/016 H01G9/058 H01G9/155 H01M14/00 H02J1/14 (Advanced/Invention); C02F1/00 C02F1/461 (Advanced/Non-invention); C02F1/28 C02F1/46 C02F1/461 C02F1/469 C25B11/00 H01M14/00 H02J1/14 (Core/Invention); C02F1/00 C02F1/461 (Core/Non-invention)

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CPC:Y10S977/742 Y10S977/788 Y10S977/842 C02F2001/46157 C02F2101/20 C02F2201/46125 C02F2201/46145 C02F2201/4615 C02F2201/4617 C02F2209/006 C02F2303/16 H01G11/08 H01G11/30 H01G11/72 H01G9/155 Y02E60/13 Y02T10/7022 Y02W10/37 B82Y30/00 C02F1/46104 C02F1/4691 C02F2001/46133 C02F2001/46138 C02F2001/46152 C02F2103/08 C02F2201/4611 C02F2201/46165 C02F2209/005 H02J1/14 Y02A20/141

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[Classification Explorer](#)

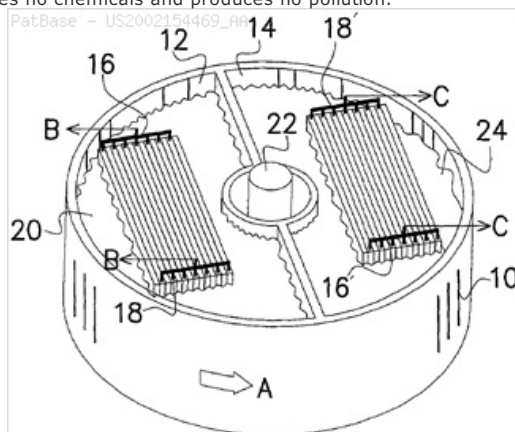
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Forward Citations:WO17079709, WO13183911, WO13072687, WO13040450, WO12148709, WO12148709, WO12017297, WO11041013, WO10150534, WO10104387, WO10062175, WO10048065, WO10030384, WO10030383, WO10030376, WO10014580, WO10014580, WO09022351, WO08094367, WO08024078, WO07125282, WO07125282, WO07087274, WO07070594, WO07070594, WO06050079, WO05049504, WO05015584,

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Abstract:

Deionizers using the electrode configurations of electrochemical capacitors are described, wherein the deionizing process is called capacitive deionization (CDI). During deionization, a DC electric field is applied to the cells and ions are adsorbed on the electrodes with a potential being developed across the electrodes. As electrosorption reaches a maximum or the cell voltage is built up to the applied voltage, the CDI electrodes are regenerated quickly and quantitatively by energy discharge to storage devices such as supercapacitors. In conjunction with a carousel or Ferris wheel design, the CDI electrodes can simultaneously and continuously undergo deionization and regeneration. By the responsive regeneration, the CDI electrodes can perform direct purification on solutions with salt content higher than seawater. More importantly, electrodes are restored, energy is recovered and contaminants are retained at regeneration, while regeneration requires no chemicals and produces no pollution.



Title: REPLACEABLE FLOW-THROUGH CAPACITORS FOR REMOVING CHARGED SPECIES FROM LIQUIDS

Priority: EP20010121572 20010910

Family:	Publication number	Publication date	Application number	Application date
	DE60121444 D1	20060824	DE20016021444	20010910
	DE60121444 T2	20061221	DE20016021444T	20010910
	EP1291323 A1	20030312	EP20010121572	20010910
	EP1291323 B1	20060712	EP20010121572	20010910

Probable Assignee: LIH REN SHIUE

Assignee(s):(std): LIH REN SHIUE

Inventor(s):(std): HSIEH FEI CHEN ; HSIEH YU HIS ; LEE CHIN HUI ; LO WAN TING ; SHIUE CHIA CHANN ; SHIUE LIH REN ; WANG S YEN

Designated states: DE FR GB IT

International class (IPC 8-9): C02F1/46 C02F1/469 H01M4/48 H01M4/52 (Advanced/Invention);
C02F1/461 H01M4/36 (Advanced/Non-invention);
C02F1/46 C02F1/469 H01M4/48 H01M4/52 (Core/Invention);
C02F1/461 H01M4/36 (Core/Non-invention)

International class (IPC 1-7): C02F1/46

CPC: H01M4/52 C02F1/4691 C02F2001/46133 H01M4/0404 H01M4/364 H01M4/48 Y02W10/37

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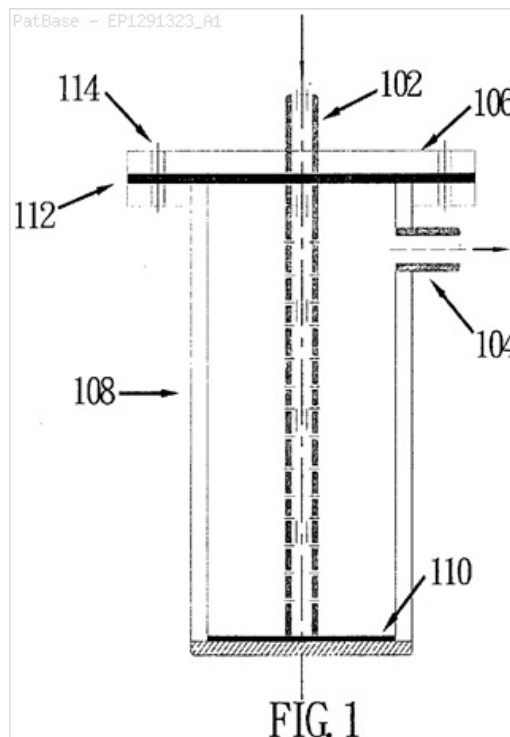
[Classification Explorer](#)

Cited documents: US5779891 A, US5192432 A, EP0863520 A2,

Forward Citations: WO11072400, GB2488739,

Abstract:

A free-standing flow-through capacitor (FTC) is constructed by concentrically winding two electrodes and two dividers into a hollow-center roll. A liquid-feeding pipe is inserted to the central opening for delivering fluids to the FTC. Nanoparticles of hydrated iron compound with Fe_3O_4 as the main component or its composite powders are used as the active materials for the electrodes. With channels created by the dividers assembled in the roll, fluids injected from the feed pipe are confined inside the FTC, and flow outwardly and transversely through the entire length of the electrodes. Under an application of a low DC voltage to the electrodes, charged species are adsorbed and removed from the treated liquids as soon as they are in contact with the electrodes. Capacitive deionization using FTC of the present invention is applicable to waste-streams reduction, water purification and desalination at low costs and easy operation.



Title:	DISCHARGE VALVES FOR AIRBAGS AND AIRBAGS INCLUDING THE SAME					
Priority:	US19910727756	19910709	US19930024076	19930301	US19930104246	19930809
	US19930101017	19930916	US19940247763	19940523	US19940358976	19941219
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Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee: AMERICAN VEHICULAR SCIENCES LLC

Assignee(s):(std): AUTOMOTIVE TECH INT ; BREED DAVID S ; DUVALL WILBUR E ; JOHNSON WENDELL C

Assignee(s): AUTOMOTIVE TECHNOLOGIES INTIONAL ; AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC ; AUTOMOTIVE TECHNOLOGIES INT ; AUTOMOTIVE TECHNOLOGIES INT INC ; AMERICAN VEHICULAR SCIENCES LLC ; ATI 2 ; ATI 295

Inventor(s):(std): BREED DAVID S ; CHEN TIE QI ; DU VALL WILBUR E ; DUVALL WILBUR E ; JOHNSON WENDELL C ; KHVASTUKHIN MYKHAILO ; MORIN JEFFREY L ; SANDERS DECEASED THOMAS ; SANDERS THOMAS ; SANDERS SYLVIA

Inventor(s): BREED DAVID ; MORIN JEFFREY ; JOHNSON WENDELL ; DUVALL WILBUR

Agent(s): BRIAN ROFFE ESQ; ROFFE BRIAN; BRIAN

International class (IPC 8-9): B60C11/24 B60C23/00 B60C23/04 B60K28/00 B60K28/02 B60K28/14 B60L1/00 B60N2/02 B60N2/28 B60Q1/00 B60R21/01 B60R21/0136 B60R21/015 B60R21/016 B60R21/16 B60R21/20 B60R21/205 B60R21/213 B60R21/23 B60R21/232 B60R21/233 B60R21/235 B60R21/239 B60R21/26 B60R21/276 B60R21/30 B60R21/33 B60R22/00 B60R25/10 B62D1/11 E05F15/00 G01G19/10 G01G19/52 G01H11/00 G01M17/00 G01M17/02 G05D27/00 G06F17/00 G06F19/00 G06F7/00 G06K9/00 G07C5/00 G07C5/08 G08B21/00 G08C19/00 G09G5/00 H01H13/70 H01L43/06 H02B1/24 H03K17/97 H03K17/975 H04Q5/22 (Advanced/Invention); B60R21/00 B60R21/01 B60R21/013 B60R21/0132 B60R21/0134 B60R21/21 (Advanced/Non-invention); B60C23/00 B60K28/00 B60K28/10 B60L1/00 B60N2/02 B60R21/01 B60R21/015 B60R21/16 B60R21/20 B60R21/23 B60R21/26 B60R21/33 B60R22/00 B60R25/10 E05F15/00 G01G19/08 G01G19/52 G01H11/00 G01M17/00 G01M17/02 G05D27/00 G06F17/00 G06F19/00 G06F7/00 G06K9/00 G08B21/00 G08C19/00 G09G5/00 H01H13/70 H02B1/00 H03K17/94 (Core/Invention); B60R21/01 (Core/Non-invention)

International class (IPC 1-7): F16K3/00

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European class: B60C23/04C B60C23/04C3 B60C23/04C6B B60C23/04C6D B60J10/00 B60K28/06D B60N2/00C B60N2/015 B60N2/02B4 B60N2/02B6 B60N2/02B6B B60N2/02B6C B60N2/02B6W B60N2/02C B60N2/06S B60N2/28 B60N2/28B2 B60N2/28P4 B60N2/48C2C B60N2/48C3C B60N2/48W B60N2/66 B60Q1/14C1 B60Q1/14C1B B60R16/037 B60R19/48D B60R21/013 B60R21/0132 B60R21/0136 B60R21/015 B60R21/16B6 B60R21/20 B60R21/203F B60R21/205 B60R21/206 B60R21/20G2 B60R21/214 B60R21/232 B60R21/233 B60R21/2338 B60R21/235 B60R21/239 B60R21/264 B60R21/276 B60R21/28 B60R21/30 B60R21/33 B60R22/20 B60R25/20R B60R25/24 B60R25/25 B60W40/08 B60W50/02A B62D21/15 E05F15/00B1 E05F15/00B6B E05F15/00B6B2 G01D5/00 G01F23/00G1A G01F23/20 G01F23/296D G01F23/296F G01G19/414A G01G23/37W G01S15/52B G01S15/87 G01S15/88

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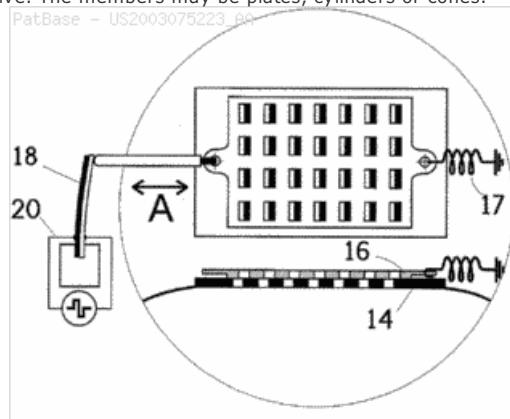
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Abstract:

Discharge valve for an airbag including a fixed member adapted to be arranged in connection with or associated with the airbag and having a pattern of openings and a movable member having a pattern of openings substantially identical to the pattern of openings of the fixed member. The movable member is movable relative to and alongside the fixed member to vary the correspondence between the openings on the movable member and the openings in the fixed member to thereby vary valve openings defined by the fixed member and the movable member. Variation in the valve openings results in **control** and/or regulation of the outflow of gas from the airbag through the discharge valve. The members may be plates, cylinders or cones.



Title: POLYOLEFIN ADHESIVE COMPOSITIONS AND ARTICLES MADE THEREFROM

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Family:

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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 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
International class (IPC 8-9):	B32B27/32 C08F10/00 C08F10/02 C08F10/04 C08F10/06 C08F10/14 C08F110/06 C08F110/14 C08F2/00 C08F2/38 C08F210/00 C08F210/04 C08F210/06 C08F210/14 C08F210/16 C08F210/18 C08F255/00 C08F255/02 C08F297/08 C08F4/44 C08F4/6392 C08F4/64 C08F4/642 C08F4/643 C08F4/646 C08F4/6592 C08F8/00 C08F8/46 C08G63/91 C08J3/00 C08K5/00 C08K5/01 C08K5/17 C08L101/00 C08L23/00 C08L23/04 C08L23/06 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/18 C08L23/20 C08L23/26 C08L25/06 C08L27/06 C08L27/08 C08L45/00 C08L51/00 C08L67/06 C08L73/02 C08L77/00 C08L83/00 C08L91/00 C08L91/06 C08L91/08 C08L93/04 C09D123/14 C09J11/00 C09J11/06 C09J11/08 C09J123/00 C09J123/02 C09J123/04 C09J123/10 C09J123/12 C09J123/14 C09J123/16 C09J123/20 C09J123/24 C09J123/26 C09J133/00 C09J145/00 C09J147/00 C09J151/06 C09J157/02 C09J191/06 C09J193/04 C09J201/00 C09J5/00 C09J7/02 C09J7/04 D01F6/30 D01F6/46 (Advanced/Invention); C08F10/00 C08F10/06 C08F110/06 C08F210/04 C08F210/06 C08F297/08 C08F4/64 C08F4/642 C08F4/646 C08F4/659 C08F4/6592 C08L51/06 C08L57/02 (Advanced/Non-invention); B32B27/32 C08F10/00 C08F210/00 C08F8/00 C08K5/00 C08L23/00 C08L51/00 C08L91/00 C09D123/00 C09J123/00 C09J151/00 D01F6/28 D01F6/46 (Core/Invention); C08F110/00 C08F210/00 (Core/Non-invention)
International class (IPC 1-7):	C08F10/06 C08F2/00 C08F2/38 C08F210/04 C08F210/06 C08F297/08 C08F4/44 C08F4/64 C08F4/642 C08F4/643 C08G63/91 C08J3/00 C08K5/01 C08L23/10 C08L51/00 C09J123/10 C09J123/12
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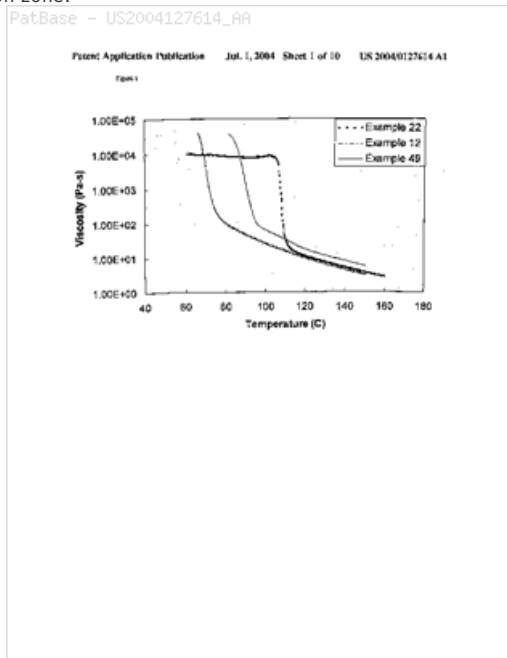
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Abstract:

Embodiments of the present invention relate to article comprising a polymer comprising one or more C3 to C40 olefins, optionally one or more diolefins, and less than 5 mole percent of ethylene having a Dot T-Peel of 1 Newton or more, a branching index (g') of 0.95 or less **measured** at the M_z of the polymer; and an Mw of 100,000 or less. This invention further relates to a process to produce an olefin polymer comprising: 1) selecting a first catalyst component capable of producing a polymer having an Mw of 100,000 or less and a crystallinity of 20 percent or less; 2) selecting a second catalyst component capable of producing polymer having an Mw of 100,000 or less and a crystallinity of 40 percent or more; 3) contacting the catalyst components in the presence of one or more activators with one or more C3 to C40 olefins, in a reaction zone.



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Inventor(s):(std):	BART ZUCCHELLI PIERO VAN DE VY ; VAN DE VYVER BART ; VYVER BART V D ; ZUCCHELLI PIERO ; VYVER BART VAN DE ; VYVER BART VAN D ; PIERO ZUCCHELLI ; BART DE VYVER VAN ; VAN DER VYVER BART																																																																																																																																																
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Agent(s):	RIDOUT AND MAYBEE LLP; TOMLINSON EDWARD JAMES; TOMLINSON EDWARD JAMES ET AL; BROWN RUDNICK BERLACK AND ISRAELS LLP; JOHN C SERIO BROWN RUDNICK BERLACK ISRAELS LLP; SEYFARTH SHAW LLP; JOHN C; BROWN RUDNICK BERLACK ISRAELS LLP																																																																																																																																																
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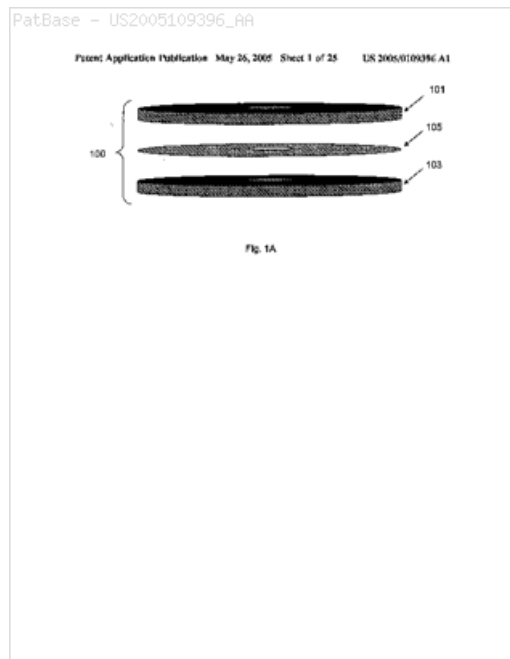
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Abstract:

The present invention is directed generally to devices and methods for **controlling** fluid flow in meso-scale fluidic components in a programmable manner. Specifically, the present invention is directed to an apparatus and method for placing two microfluidic components in fluid communication at an arbitrary position and time, both of which are externally defined. The inventive apparatus uses electromagnetic radiation to **perforate** a material layer having selected adsorptive properties. The **perforation** of the material layer allows the fluid communication between microfluidic components. Other aspects of this invention include an apparatus and method to perform volumetric quantitation of fluids, an apparatus to program arbitrary connections between a set of input capillaries and a set of output capillaries, and a method to transport fluid in centripetal device from a larger to a smaller radius. In addition, the present invention also is directed to a method to determine the radial and polar position of a pickup in the reference frame of a rotating device.



Title:	WASTE WATER TREATMENT SYSTEM AND PROCESS																																				
Priority:	US20030507956P 20031003		US20040956041 20041004		WO2004US32572 20041004																																
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Probable Assignee:	OK TECHNOLOGIES LLC																																				
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Assignee(s):	OK TECHNOLOGIES LLC ; AQUATIC EVOLUTION INTERNATIONAL																																				
Inventor(s):(std):	OLIVIER LAURENT																																				
Agent(s):	BORDEN LADNER GERVAIS LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER, LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP																																				
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International class (IPC 1-7):	C02F3/00 C02F3/30																																				
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Abstract:

The present invention describes improved methods and systems for treating waste water and solid waste, which may include the addition of catholyte and anolyte. The methods and systems of the present invention may be used to treat waste water and solid waste from animal farms, such as for example, hog farms, dairy farms, and cattle and sheep ranches. The methods and systems of the present invention may also be used to treat waste water from other sources, such as human waste or farm runoff from irrigation.



Title: POLYMERIZATION PROCESS

Priority:

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Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; PHILLIPS ORMONDE FITZPATRICK; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; SILVA Y CIA; KILBURN AND STRODE LLP; MURGITROYD AND CO; HAYES ADRIAN CHETWYND; BOULT WADE TENNANT; CARPINTERO MARIO; SAUD M A SHAWWAF LAW OFFICE; EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; UNIVATION TECHNOLOGIES LLC; CATHERINE L; LEANDRO; BELL CATHERINE L; ARECHEDERRA III LEANDRO; FRANK E; ARECHEDERRA LEANDRO III ET AL

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
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**International class
(IPC 8-9):**

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C08F4/76 C08F4/80 C08F6/00 C08F6/06 G01D1/16 G05B17/00 G05D24/00 G06F17/10 G08F10/00
G08F2/00 (Advanced/Invention);
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B08J3/00 C08F10/00 C08F110/00 C08F2/00 C08F2/01 C08F2/02 C08F2/04 C08F2/12 C08F2/34
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C08F (Subclass/Invention)

**International class
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CPC:

C08F4/6592 C08F2400/02 C08F6/003 C08F110/06 C08F4/65908 C08F4/65912 C08F10/06 C08F210/06
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European class:

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US class:

525/53 526/106 526/106S 526/124.3 526/124.300S 526/126 526/127 526/134 526/135 526/135S
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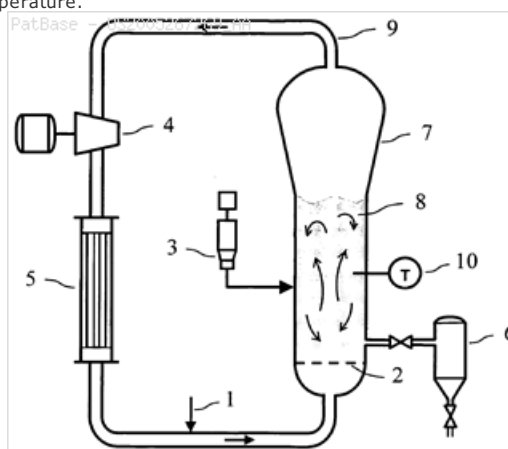
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Abstract:

The present invention relates to a continuous gas phase process comprising polymerizing one or more hydrocarbon monomer(s) in a fluidized bed reactor in the presence of catalyst system or polymerization catalyst and a condensable fluid for a period of at least 12 hours where the bed temperature is less than the Critical Temperature and the dew point temperature of the gas composition in the reactor is within 25 degrees centigrade of the bed temperature.



Title: SEPARATION OF FATTY MATERIALS TO PRODUCE LEAN MEAT PRODUCTS

Priority: US20040561128P 20040409 US20040651128P 20040409 US20040868394 20040615
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US20120422740 20120316 US20120452526 20120420 US20120493733 20120611
US20120546836 20120711

Family:	Publication number	Publication date	Application number	Application date
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	US2013142928 AA	20130606	US20120493733	20120611
	US2013177685 AA	20130711	US20120546836	20120711
	US8137722 BB	20120320	US20060911338	20060413
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	WO06113543 A2	20061026	WO2006US14261	20060413
	WO06113543 A3	20070125	WO2006US14261	20060413
	WO06113543 B1	20070308	WO2006US14261	20060413

Probable Assignee: SAFEFRESH TECHNOLOGIES LLC

Assignee(s):(std): GARWOOD ANTHONY J M ; SAFEFRESH TECHNOLOGIES LLC ; GARWOOD NICHOLAS JAMES

Assignee(s): STONE MICHAEL ; GARWOOD ANTHONY J ; MILLER ANDREW W ; GARWOOD ANTHONY JM

Inventor(s):(std): GARWOOD ANTHONY J M ; GARWOOD NICHOLAS JAMES

Inventor(s): GARWOOD ANTHONY J ; GARWOOD ANTHONY JM

Agent(s): CHRISTENSEN OCONNOR JOHNSON KINDNESS PLLC; CHRISTENSEN O'CONNOR 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 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

International class (IPC 8-9): A22C17/00 A23B4/18 A23C17/00 A23L1/317 A23L13/00 A23L13/60 B02C23/20 C11B1/10 (Advanced/Invention); A22C17/00 A23C17/00 B02C23/18 C11B1/00 (Core/Invention)

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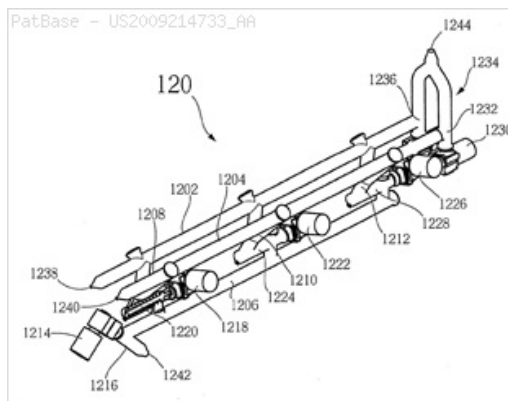
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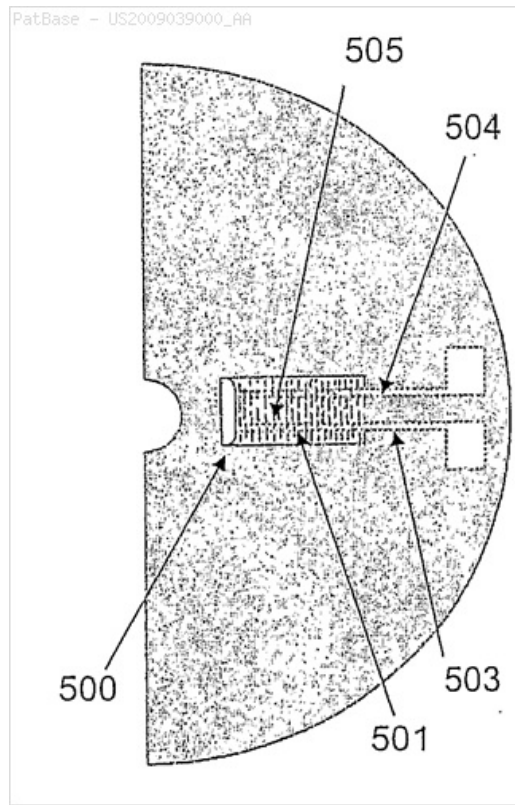
A method and apparatus for separating lean meat and/or fat from lean meat-containing material, including combining a particulate material with fluid carbon dioxide. The material and fluid is introduced into a vessel and is separated into low density and high density fractions. The material from the low density fraction is removed via an outlet and has a higher percentage of fat than the material introduced into the vessel. The material from the high density fraction is removed via an outlet and has a higher percentage of lean meat than the material introduced into the vessel. The vessel can include a centrifuge bowl or an inclined vessel. Separation is achieved via gravity or the application of an artificial force field, such as centrifugal force, to separate particulates high in density from those low in density.



Title:	DOSIMETER FOR PROGRAMMABLE MICROSCALE MANIPULATION OF FLUIDS																																															
Priority:	US20050687032 20050603 WO20061B04006 20060605		US20050687032P 20050603 US20060915805 20060605																																													
Family:	<table><tr><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr><tr><td>CA2610697 AA</td><td>20071130</td><td>CA20062610697</td><td>20060605</td></tr><tr><td>CN101291736 A</td><td>20081022</td><td>CN200680026501</td><td>20060605</td></tr><tr><td>CN101291736 B</td><td>20111123</td><td>CN200680026501</td><td>20060605</td></tr><tr><td>EP1899064 A2</td><td>20080319</td><td>EP20060842396</td><td>20060605</td></tr><tr><td>IN04678KN2007 A</td><td>20080718</td><td>IN2007KN04678</td><td>20071203</td></tr><tr><td>JP2008542743 T2</td><td>20081127</td><td>JP20080514233T</td><td>20060605</td></tr><tr><td>US2009039000 AA</td><td>20090212</td><td>US20060915805</td><td>20060605</td></tr><tr><td>US8226908 BB</td><td>20120724</td><td>US20060915805</td><td>20060605</td></tr><tr><td>WO07057788 A2</td><td>20070524</td><td>WO20061B04006</td><td>20060605</td></tr><tr><td>WO07057788 A3</td><td>20071122</td><td>WO20061B04006</td><td>20060605</td></tr></table>				Publication number	Publication date	Application number	Application date	CA2610697 AA	20071130	CA20062610697	20060605	CN101291736 A	20081022	CN200680026501	20060605	CN101291736 B	20111123	CN200680026501	20060605	EP1899064 A2	20080319	EP20060842396	20060605	IN04678KN2007 A	20080718	IN2007KN04678	20071203	JP2008542743 T2	20081127	JP20080514233T	20060605	US2009039000 AA	20090212	US20060915805	20060605	US8226908 BB	20120724	US20060915805	20060605	WO07057788 A2	20070524	WO20061B04006	20060605	WO07057788 A3	20071122	WO20061B04006	20060605
Publication number	Publication date	Application number	Application date																																													
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Probable Assignee:	NOBLE VENTURE FINANCE II SA																																															
Assignee(s):(std):	SPINX INC ; VAN DE VYVER BART ; ZUCCHELLI PIERO ; VYVER BART VAN D ; VAN DER VYVER BART																																															
Assignee(s):	NOBLE VENTURE FINANCE II SA																																															
Inventor(s):(std):	BART DER VYVER VAN ; PIERO ZUCCHELLI ; VAN DE VYVER BART ; VAN DER VYVER BART ; VYVER BART VAN D ; ZUCCHELLI PIERO																																															
Agent(s):	RIDOUT AND MAYBEE LLP; ESSELIN SOPHIE ET AL; SEYFARTH SHAW LLP; JOHN C																																															
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 RS 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																																															
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Cited documents:	WO07057788 A2, WO04050242 A2, US6302134 BA, US5869002 A,																																															
Forward Citations:	WO10121144, USD677395, USD672467, US9725762, US9494920, US9223319, US9168523, US9165097, US9067205, US8931331, US8226908, US8151482, US2014160899, US2010126037, US2009039000, JP2011145110, CN104931393, CN104931393, CN102439692,																																															

Abstract:

The present invention is directed generally to devices and methods for **controlling** fluid flow in meso-scale fluidic components in a programmable manner. Specifically, the present invention is directed to an apparatus and method for placing two microfluidic components in fluid communication at an arbitrary position and time, both of which are externally defined. The inventive apparatus uses electromagnetic radiation to **perforate** a material layer having selected adsorptive properties. The **perforation** of the material layer allows the fluid communication between microfluidic components allowing volumetric quantitation of fluids. Using the **perforation** of the material functionality such as metering and multiplexing are achieved on a microscale. This functionality is achieved through basic operations, like dosimeters filling, dosimeters purging, dosimeters extraction, dosimeters ventilation and channels routing. Accordingly, these operations are performed in microfluidic platforms and are characterized extensively, allowing the realization of complex assays in a miniaturized format, where dilutions of proteins and assay readout can be performed in an extremely small footprint.



Title: HARVESTING OIL FROM FATTY MEAT MATERIALS TO PRODUCE LEAN MEAT PRODUCTS AND OIL FOR USE IN BIO-DIESEL PRODUCTION

Priority: US20060871413P 20061221 US20070520802 20071221 WO2007US88719 20071221

Family:

Publication number	Publication date	Application number	Application date
US2010112168 AA	20100506	US20070520802	20071221
WO08085715 A2	20080717	WO2007US88719	20071221
WO08085715 A3	20081009	WO2007US88719	20071221

Probable Assignee: SAFEFRESH TECHNOLOGIES LLC

Assignee(s):(std): GARWOOD ANTHONY J M ; GARWOOD NICHOLAS JAMES ; SAFEFRESH TECHNOLOGIES LLC

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

Inventor(s):(std): GARWOOD NICHOLAS JAMES ; GARWOOD ANTHONY J M

Inventor(s): GARWOOD ANTHONY J ; GARWOOD ANTHONY JM

Agent(s): CHRISTENSEN OCONNOR JOHNSON KINDNESS PLLC; CRUZ LAURA A

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

International class (IPC 8-9): A22C7/00 A23B4/03 A23L1/317 A23L13/60 (Advanced/Invention); A22C7/00 A23B4/03 A23L1/317 (Core/Invention)

CPC: A23L1/317 A22C17/00 A23B4/033 A23B4/09 C10G2300/1011 C11B1/104 C11C3/003 Y02E50/13 Y02P30/20 A23L13/60

European class: A22C17/00 A23B4/033 A23B4/09 C11B1/10C C11C3/00B M10G300/10B Y02E50/13

US class: 426/480 426/480P

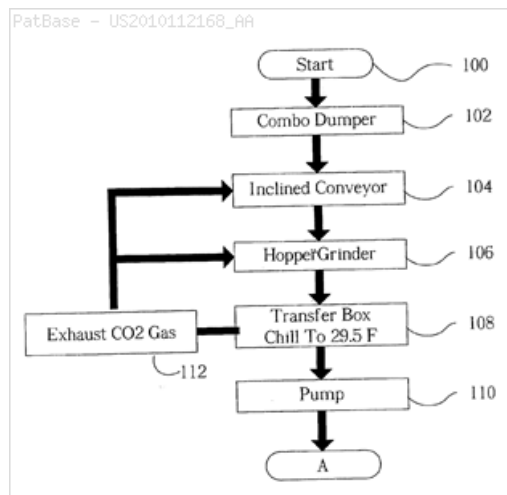
[Classification Explorer](#)

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Forward Citations: WO13147926, WO13089829, US9949494, US9872505, US9497985, US9462824, US9167843, US8911809, US8859025, US8178144, US2013337130, US2012231148, US2009214730,

Abstract:

A method and apparatus for separating lean meat and/or fat from lean meat-containing material, including combining a particulate material with fluid carbon dioxide. The material and fluid is introduced into a vessel and is separated into low density and high density fractions. The material from the low density fraction is removed via an outlet and has a higher percentage of fat than the material introduced into the vessel. The material from the high density fraction is removed via an outlet and has a higher percentage of lean meat than the material introduced into the vessel. The vessel can include a centrifuge bowl or an inclined vessel. Separation is achieved via gravity or the application of an artificial force field, such as centrifugal force, to separate particulates high in density from those low in density.



Title: DENSE GAS MEANS FOR EXTRACTION OF A SOLUTE FROM SOLIDS
Priority: US20070923487P 20070412 US20080046233 20080311 WO2008US57741 20080320
Family:

Publication number	Publication date	Application number	Application date
AU2008239456 AA	20081023	AU20080239456	20080320
AU2008239456 BB	20130718	AU20080239456	20080320
BRPI0810724 A2	20141014	BR2008PI10724	20080320
CA2682404 AA	20081023	CA20082682404	20080320
CA2682404 C	20160531	CA20082682404	20080320
EP2146807 A1	20100127	EP20080744153	20080320
EP2146807 A4	20110511	EP20080744153	20080320
IL201149 A0	20100517	IL20080201149	20080320
IL201149 A1	20140731	IL20080201149	20080320
US2008251454 AA	20081016	US20080046233	20080311
US7897050 BB	20110301	US20080046233	20080311
WO08127842 A1	20081023	WO2008US57741	20080320

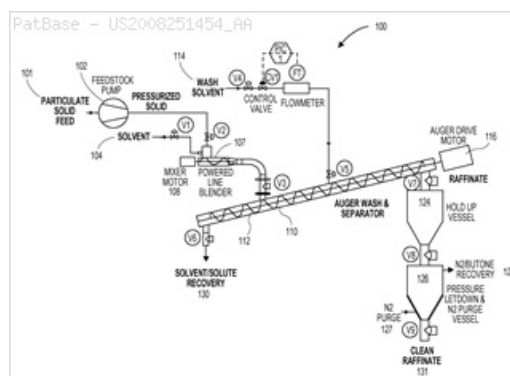
Probable Assignee: DYNASEP INC
Assignee(s):(std): ACCUDYNE SYSTEMS INC ; COPE SANDRA M ; DYNASEP INC ; MORTON WAYNE C ; WAIBEL BRIAN J
Assignee(s): DYNASEP LLC ; DJLL HOLDINGS LLC
Inventor(s):(std): COPE SANDRA M ; MORTON WAYNE C ; WAIBEL BRIAN J ; WAIBEL BRIAN JEFFREY
Inventor(s): WAYNE C MORTON ; SANDRA M COPE ; BRIAN J WAIBEL
Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; MANITZ FINSTERWALD AND PARTNER GBR;
SANFORD TCOLB AND CO; TOWNSEND AND TOWNSEND AND CREW LLP; WEAVER AUSTIN VILLENEUVE
AND SAMPSON LLP; WAHLSTEN JENNIFER L 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 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 ZA ZM ZW
International class
(IPC 8-9): B01D11/00 B01D11/02 B01D57/00 B01F1/00 B08B B08B7/00 C23G1/00 (Advanced/Invention);
B01D11/02 B01D57/00 B01F1/00 B08B7/00 C23G1/00 (Core/Invention);
B01D B08B H04M (Subclass/Invention)
CPC: B01D11/0226 B01D11/028 B01D11/0203
European class: B01D11/02B
US class: 196/14.52 210/103 210/137 210/137S 210/149 210/173 210/175 210/206 210/511 210/634 210/739
210/741 210/742 210/773 210/773S 210/774 210/97

[Classification Explorer](#)

Cited documents: WO05042792 A1, US7008528 BB, US6934472 BB, US6932855 BB, US6932475 BB, US6610343 BB,
US6569480 BB, US6551642 BB, US6361814 BB, US6106720 A, US6066350 A, US5932101 A, US5904855
A, US5707673 A, US5454878 A, US5364475 A, US5344493 A, US5316029 A, US5286386 A, US5199997
A, US5154831 A, US5107874 A, US5080721 A, US5053082 A, US4749552 A, US4749522 A, US4606774
A, US4443321 A, US4434028 A, US4390506 A, US4311561 A, US4120775 A, US3941679 A, US3878232
A, US3565634 A, US3390963 A, US3226202 A, US2973312 A, US2873312 A, US2778717 A,
US2005236015 AA, US2004065353 AA, US2004035804 AA, US2004014084 AA, US1862945 A,
US1447296 A, US1024230 A,
Forward Citations: WO15006618, WO12037336, WO11060170, WO10114184, US9872509, US9784121, US9702372,
US9651304, US9500052, US8960286, US8820438, US8096064, US8048304, US2017021528,
US2014202266, US2014151271, US2014150288, US2012090898, US2010108600, US2009166175,
ITTO20080797,

Abstract:

The present invention provides methods and systems for the extraction of solutes from solid matter using dense gases in a mechanical auger separation system.

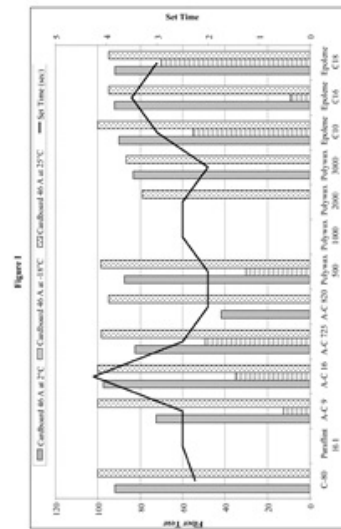


Title:	POLYOLEFIN ADHESIVE COMPOSITIONS AND ARTICLES MADE THEREFROM			
Priority:	US20080060014P 20080609	US20090472022 20090526	US20090616637 20091111	
	US20090634222 20091209	WO2009US67328 20091209		
Family:	Publication number	Publication date	Application number	Application date
	CN102439106 A	20120502	CN200980159447	20091209
	CN102439106 B	20150325	CN200980159447	20091209
	EP2435525 A1	20120404	EP20090771633	20091209
	EP2435525 B1	20170315	EP20090771633	20091209
	US2009306281 AA	20091210	US20090472022	20090526
	US2010059178 AA	20100311	US20090616637	20091111
	US2010132886 AA	20100603	US20090634222	20091209
	US8242198 BB	20120814	US20090616637	20091111
	US8283400 BB	20121009	US20090634222	20091209
	US8431642 BB	20130430	US20090472022	20090526
	WO10138142 A1	20101202	WO2009US67328	20091209
Probable Assignee:	EXXONMOBIL CHEMICAL PATENTS INC			
Assignee(s):(std):	CURRY CHRISTOPHER L ; EXXONMOBIL CHEM PATENTS INC ; EXXONMOBIL CHEMICAL PATENTS INC ; JIANG PEIJUN ; JOHNSRUD DAVID R ; MEHTA ASPY K ; TANCREDE JEAN M ; SHIPLEY FRAN A ; RODRIGUEZ GEORGE			
Inventor(s):(std):	JIANG PEIJUN ; MEHTA ASPY K ; TANCREDE JEAN M ; SHIPLEY FRAN A ; RODRIGUEZ GEORGE ; JOHNSRUD DAVID R ; CURRY CHRISTOPHER L ; PEIJUN JIANG ; GEORGE RODRIGUEZ			
Agent(s):	GERSTBERGER GISELA; EXXONMOBIL CHEMICAL EUROPE INC; EXXONMOBIL CHEMICAL COMPANY; EXXONMOBIL CHEMICAL CO; BOONE ANTHONY G 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 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW			
International class (IPC 8-9):	B32B27/32 C08K5/01 C08L23/02 C08L23/06 C08L23/12 C08L51/00 C08L51/06 C08L91/06 C09J123/02 C09J123/14 C09J5/06 D21H19/18 (Advanced/Invention); B32B27/32 C08K5/00 C08L23/00 C09J5/06 (Core/Invention)			
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US class:	156/311 156/334 524/477 524/477S 524/487 524/489 524/490 524/491 524/583 524/583S 525/240 525/240S			

[Classification Explorer](#)

Cited documents:	WO9846694 A1, WO9843983 A1, WO9748777 A1, WO9722639 A1, WO9633227 A1, WO9426816 A1, WO9403506 A1, WO9200333 A2, WO9109882 A1, WO9107472 A1, WO08042037 A1, WO06044149 A1, WO05100501 A1, WO0234856 A1, WO0130862 A1, WO0005306 A1, USRE39307 E, US7750078 BB, US7700707 BB, US7550528 BB, US7541402 BB, US7524910 BB, US7488777 BB, US7476710 BB, US7396782 BB, US7344775 BB, US7319077 BB, US7297681 BB, US7294681 BB, US7250470 BB, US7241493 BB, US7238759 BB, US7223822 BB, US7220801 BB, US7210339 BB, US7199203 BB, US7109269 BB, US7060754 BB, US6943215 BB, US6927256 BB, US6906160 BB, US6887941 BB, US6747114 BB, US6399722 BA, US63422209, US6235818 BA, US6117962 A, US6107430 A, US6034159 A, US5942459 A, US5571867 A, US5548014 A, US5530054 A, US5507475 A, US5502124 A, US54118506, US5384299 A, US5324800 A, US52983906, US5264405 A, US5241025 A, US5240894 A, US5206197 A, US5198401 A, US5171793 A, US5153157 A, US5096867 A, US5066741 A, US5055438 A, US5026756 A, US5017714 A, US5001205 A, US4960295 A, US4540753 A, US4345349 A, US4078132 A, US2009306281 AA, US2009069475 AA, US2008262148 AA, US2008081878 AA, US2008081868 AA, US2007021566 AA, US2004249046 AA, US2004220336 AA, US2004220320 AA, US2004138392 AA, US2004127614 AA, US2004045666 AA, US2002193474 AA, EP1243248 A2, EP1125980 A1, EP0886656 A1, EP0573403 A2, EP0570982 A1, EP0520732 A1, EP0500944 A1, EP0495375 A2, EP0426637 A2, EP0277004 A1, EP0277003 A1, EP0129368 A1, CA2338221 AA, CA1268753 A1,
Forward Citations:	WO16073868, WO16062797, WO14058521, WO12149391, WO12128723, WO12068576, WO11142949, WO11142946, US9783703, US9611341, US9593235, US9593179, US9505957, US9469791, US9428598, US9399686, US9382351, US9376597, US9267060, US8765851, US8623480, US8614271, US8431643, US8431642, US8283400, US8242198, US2016319166, US2016130480, US2015225611, US2014272219, US2013210304, US2013202902, US2013059165, US2013059164, US2013059163, US2013059149, US2013005884, US2012178333, US2010305259, US2010132886, US2010124607, US2010059178, RU2584536, JP6033836, JP2014514390, DE102015204468, CN105754520, CN104736653, CN104736653, CN103221500, CN103221500, CN102985480, CN102933391,

Abstract:
Provided are adhesive compositions composed of a polyolefin composition comprising at least about 50 weight percent polypropylene and at least one wax. The polymer compositions have a Dot T-Peel of about 1 Newton or more, a branching index (g') of 0.95 or less **measured** at the Mz of the polymer, a molecular weight of 100,000 or less, and the adhesive compositions has a fast set time. The packaging industry desires adhesive compositions having a fast set time, such as those setting in less than five seconds from a molten state at conventional packaging operating temperatures to a solid or quasi solid having favorable Dot T-Peel, set time, and or fiber tear adhesion properties. Polymer based adhesives performing within this window are a favorable alternative to conventional formulated adhesives. The provided adhesive compositions exhibit a favorable balance of properties such as high adhesive strength, wide temperature operating window, and fast set time.



Title: SYSTEMS AND METHODS FOR SUSTAINABLE ECONOMIC DEVELOPMENT THROUGH INTEGRATED FULL SPECTRUM PRODUCTION OR RENEWABLE MATERIAL RESOURCES USING SOLAR THERMAL

Priority: US20090153253P 20090217 US20090237476P 20090827 US20100304403P 20100213
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Family:

Publication number	Publication date	Application number	Application date
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CA2770510 AA	20110310	CA20102770510	20100816
EP2470787 A2	20120704	EP20100814156	20100816
EP2470787 A4	20140416	EP20100814156	20100816
IL217860 A0	20120329	IL20100217860	20100816
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WO11028233 A2	20110310	WO2010US02260	20100816
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WO11102851 A1	20110825	WO2010US45668	20100816
WO12047187 A2	20120412	WO2010US45629	20100816
WO12047187 A3	20130328	WO2010US45629	20100816
WO12047188 A1	20120412	WO2010US45669	20100816

Probable Assignee: MCALISTER TECHNOLOGIES LLC

Assignee(s):(std): MCALISTER ROY E ; MCALISTER TECHNOLOGIES LLC

Inventor(s):(std): MCALISTER ROY E

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP; BEATTIE ALEX THOMAS STEWART; REINHOLD COHN AND PARTNERS; BETCHER SUSAN D ET AL; ARNETT STEPHEN E ET AL; ANCHELL SCOTT J 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 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

International class (IPC 8-9): B05D1/12 B09B3/00 B32B1/02 B32B3/10 B32B37/00 C01B31/04 C25B1/00 C25B1/02 C25B1/04 C25B13/02 C25B15/00 C25B3/00 C25B9/00 C25B9/06 E21B43/22 E21B43/25 E21B43/34 F01B11/00 F01B23/10 F01N5/02 F02G5/04 F03D9/00 F03G F03G6/00 F03G7/00 F03G7/04 F03G7/05 F03G7/08 F17C11/00 F22B33/18 F24D11/00 F24H8/00 F24J2/00 F24J2/07 F24J2/12 F24J2/42 F24J3/08 F28D7/10 (Advanced/Invention); F03G (Subclass/Invention)

CPC: C02F1/46104 C02F2303/10 F03B13/1885 Y02E10/38 Y02E70/10 C01B3/22 C01B2203/0283 C01B3/34 C01B2203/0216 C01B2203/043 C01B2203/1241 C01B2203/84 C10L3/108 F02G5/04 F24D11/005 F24D2200/26 F24D2200/29 F24D2200/30 C25B9/00 Y02T10/166 C02F2001/46171 C25B9/08 C25B11/02 C25B11/03 Y02E60/366 H01M8/0656 H01M8/186 Y10T137/0391 C25B3/00 Y02W10/30 Y02W10/33 Y02W10/37 C25B15/02 C25B15/08 C25B1/04 C25B1/12 Y02P20/129 Y02E60/528 C01B2203/061 E21C50/00 Y02E10/34 Y02E10/46 C04B35/536 F02B43/08 Y02T10/32 F01N5/02 C25B1/00 C25B1/02 C25B9/06 C25B13/02 C25B15/00 F24J2/07 F24J2/12 F28D7/103 Y02E10/41 Y02T10/16 Y02B30/52 Y02E20/14 Y02E70/20 Y02P70/56 Y02P80/24 F03G7/05 Y02P20/124 F24J2/05 F24J2/08 Y02B10/22 Y02E10/44 C01B32/225 C01B31/0423 Y02P20/133 Y02P20/134

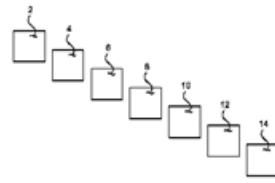
European class: C25B1/00 C25B1/02 C25B13/02 C25B9/06 F24J2/07 R24J2/12 R28D7/10E Y02B10/20 Y02E10/34 Y02E10/41

[Classification Explorer](#)

Cited documents: WO9423993 A1, WO08115933 A1, WO04086585 A2, WO0156938 A1, US96986001, US92113497, US84706306 P, US7364810 BB, US7254944 BA, US7233079 BA, US70057796, US6984305 BB, US6669919 BA, US6503584 BA, US6432176 BA, US62602104 P, US6126726 A, US5950732 A, US5779866 A, US4437963 A, US4091313 A, US37043199, US2008303348 AA, US2008245672 AA, US2008142377 AA, US2007220887 AA, US2006011491 AA, US2005109394 AA, US2005092482 AA, US2005072301 AA, US2004224193 AA, US2004149634 AA, US2004131858 AA, US2004118447 AA, US15325309 P, US12867398, KR20060096413 A, JP8016475 B2, JP7113567 A2, JP5223268 A2, JP4076211 A2, JP2271080 A2, JP2009511415 T2, JP2005291112 A2, JP2004268022 A2, JP2001295995 A2, JP2001254897 A2, JP2000297700 A2, JP2000205044 A2, JP11093826 A2, GB2387641 A1, DE3044666 A1, DE3016410 A1, DE3014357 A1, DE2934647 A1,

Forward Citations: WO13050500, US9534296, US9518488, US9409126, US9366238, JP2015168971, JP2013040606, FR3006681, EP2578379, CZ304079,

Abstract:
In one embodiment of the present invention, a system for providing a renewable source of material resources is provided comprising: a first source of renewable energy; first stream of materials from a first materials source; an electrolyzer coupled to the first source of renewable energy and the first stream of materials, wherein the electrolyzer is configured to produce a first material resource by electrolysis; a processor for further processing or use or the material resource to produce a second material resource, wherein the processor comprises a solar collector and where the solar collector is configured to provide heat to the first materials resource for disassociation; and a material resource storage coupled to the electrolyzer for receiving the material resource from the electrolyzer or providing the material resource to the processor for further processing or use.

**FIG. 1**

SUBSTITUTE SHEET (RULE 26)

Title: POLYOLEFIN ADHESIVE COMPOSITIONS

Priority: WO2009US64035 20091111

Family:

Publication number	Publication date	Application number	Application date
WO11059431 A1	20110519	WO2009US64035	20091111

Probable Assignee: EXXONMOBIL CHEM PATENTS INC

Assignee(s):(std): JIANG PEIJUN ; MEHTA ASPY K ; RODRIGUEZ GEORGE ; SHIPLEY FRAN A ; EXXONMOBIL CHEM PATENTS INC

Assignee(s): EXXONMOBIL CHEMICAL PATENTS INC

Inventor(s):(std): JIANG PEIJUN ; MEHTA ASPY K ; RODRIGUEZ GEORGE ; SHIPLEY FRAN A

Agent(s): BELL CATHERINE L 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

International class (IPC 8-9): C08L23/14 C09J123/14 (Advanced/Invention)

CPC: C08L2666/02 C08L2666/24 C08L23/142 C08L51/003 C08L91/06 C09J123/142

European class: C08L23/14A C09J123/14A M08L51/00B M08L91/06

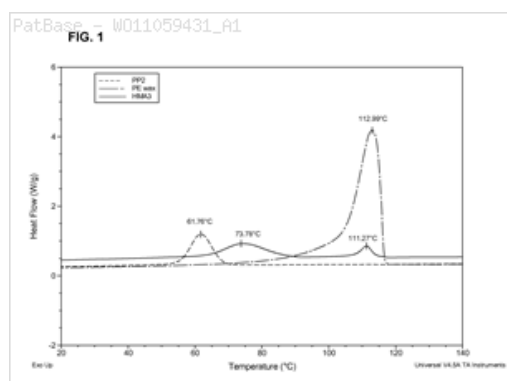
[Classification Explorer](#)

Cited documents: WO9846694 A1, US2008262148 AA, US2008081878 AA, US2004127614 AA, EP1125980 A1,

Forward Citations: WO14205336, WO13003198, WO13003196, US9593235, US9267060, US8765851, US8614271, EP3159388, EP3159387,

Abstract:

An adhesive and method for hot melt application. The adhesive comprises polyolefin base polymer, from 1 to 10 wt percent of at least one functionalized polyolefin, and from 1 to 15 wt percent of a wax, based on the total weight of the polyolefin base polymer, functionalized polyolefin and wax, wherein the wax has a weight average molecular weight at least 8 percent of the weight average molecular weight of the polyolefin base polymer, viscosity at 190 degrees centigrade of 60 mPa degrees s or more, and a crystallization temperature greater than the polyolefin base polymer and greater than 100 degrees centigrade, and wherein the adhesive has at least 5 percent fiber tear at 2 degrees centigrade, at least 50 percent fiber tear at 25 degrees centigrade, and a characteristic set time of less than 3 seconds.



Title:
Priority:
Family:

METHODS, DEVICES AND SYSTEMS FOR EXTRACTION OF THERMAL ENERGY FROM A HEAT CONDUCTING METAL CONDUIT
US20100397759P 20100615 US20100399746P 20100716 US20110517070P 20110412
CN201180039493 20110615 US20110161411 20110615 WO2011US01083 20110615
US20140208325 20140313 US20150638177 20150304

Publication number	Publication date	Application number	Application date
BR112012031923 A2	20161108	BR20121131923	20110615
CA2802346 AA	20121211	CA20112802346	20110615
CA2802346 C	20160322	CA20112802346	20110615
CN103238019 A	20130807	CN201180039493	20110615
CN103238019 B	20160302	CN201180039493	20110615
CN105627015 A	20160601	CN201610089792	20110615
EA026872 B1	20170531	EA20130000018	20110615
EA201300018 A1	20130830	EA20130000018	20110615
EP2583014 A2	20130424	EP20110740742	20110615
MX2012014339 A1	20130429	MX20120014339	20110615
MX336949 B	20160203	MX20140011963	20121207
TW2012111435 A	20120316	TW20110120333	20110610
TW201533366 A	20150901	TW20150116416	20110610
TW201604465 A	20160201	TW20150134511	20110610
TWI537509 B	20160611	TW20110120333	20110610
TWI551803 B	20161001	TW20150116416	20110610
US2011308259 AA	20111222	US20110161411	20110615
US2014190663 AA	20140710	US20140208325	20140313
US2015176929 AA	20150625	US20150638177	20150304
US8763411 BB	20140701	US20110161411	20110615
US9010132 BB	20150421	US20140208325	20140313
US9528780 BB	20161227	US20150638177	20150304
WO11159355 A2	20111222	WO2011US01083	20110615
WO11159355 A3	20120816	WO2011US01083	20110615
WO11159355 A9	20120322	WO2011US01083	20110615

Probable Assignee:
Assignee(s):(std):
Inventor(s):(std):
Inventor(s):
Agent(s):
Designated states:
International class (IPC 8-9):
CPC:
European class:
US class:

BIOFILM IP LLC
BIOFILM IP LLC ; CUTBIRTH HENRY ; WRAY DANIEL X ; WRAY ROBERT J
CUTBIRTH HENRY ; WRAY DANIEL X ; WRAY ROBERT J
DANIEL X WRAY ; HENRY CUTBIRTH ; ROBERT J WRAY
SMART AND BIGGAR; BALDOCK SHARON CLAIRE; STEPHANIE; MCKENNA LONG AND ALDRIDGE LLP; FRANK J; DENTONS US LLP; SEIDMAN STEPHANIE L ET AL
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
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H05B3/02 (Advanced/Invention);
F25D15/00 (Core/Invention)
Y02B30/66 Y02B30/765 F16L55/103 G05D23/192 F28F13/06 F28D7/10 F25B21/02 F25B2321/002 F25D3/10 F25D15/00 Y10T137/0391
F16L55/103 G05D23/19E2
137/13 137/13S 165/104.11 165/104.110S 165/109.1 165/109.100S 165/154 165/154S 165/168 165/168S 165/287 165/287S 165/61 165/61S 165/96 219/538 219/538S 62/293 62/3.1 62/3.100S 62/3.2 62/3.200S 62/3.3 62/3.300P 62/66 62/66S 62/67

[Classification Explorer](#)

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WO9711326 A1, WO8201408, WO11159355, USRE36244 E, USRE31450 E, US9010132 BB, US8763411 BB, US8104293 BB, US8099964 BB, US7921657 BB, US7783384 BB, US7740287 BB, US7730777 BB, US7727463 BB, US7707898 BB, US7648597 BB, US7603865 BB, US7596955 BB, US7562831 BB, US7546873 BB, US7497086 BB, US7481064 BB, US7461691 BB, US7441412 BB, US7415830 BB, US7407600 BB, US7378065 BB, US7273479 BB, US7272951 BB, US7263852 BB, US7235212 BB, US7234310 BB, US7218523 BB, US7185501 BB, US7121344 BB, US7114340 BB, US7111467 BB, US7083800 BA, US7076959 BB, US7069981 BB, US7069729 BB, US7066730 BB, US7063754 BB, US7062926 BB, US7036598 BB, US7028768 BB, US7013668 BB, US6962164 BB, US6843065 BB, US6826915 BB, US6739137 BB, US6722145 BB, US6710020 BB, US6708511 BB, US6684112 BA, US6676772 BB, US6658864 BB, US6598803 BA, US6598412 BA, US6589366 BA, US6568429 BB, US6526759 BB, US6485577 BA, US6467274 BB, US6464148 BA, US6450775 BA, US6446441 BA, US6363729 BA, US6301923 BA, US6212891 BA, US6185953 BA, US6183573 BA, US6164078 A, US6148619 A, US6141972 A, US6129290 A, US6105388 A, US6070416 A, US6041811 A, US6041621 A, US5993167 A, US5944686 A, US5836167 A, US5787722 A, US5778919 A, US5743637 A, US5743095 A, US5738772 A, US5680770 A, US5608159 A, US5582239 A, US5548965 A, US5527330 A, US5522419 A, US5403089 A, US5385025 A, US5357756 A, US5352304 A, US5324159 A, US5205135 A, US5125427 A, US5124466 A, US5105843 A, US5099650 A, US5076930 A, US5019761 A, US4956976 A, US4951474 A, US4934196 A, US4849611 A, US4829770 A, US4789104 A, US4729664 A, US4724676 A, US4642994 A, US4634050 A, US4597699 A, US4597267 A, US4593529 A, US4535597 A, US4533123 A, US4509343 A, US4492095 A, US4441328 A, US4428204 A, US4422338 A, US4422 A, US4421656 A, US4416118 A, US4370862 A, US4350027 A, US4283935 A, US4267699 A, US4238640 A, US4220012 A, US4219224 A, US4165571 A, US4112706 A, US4095747 A, US4026329 A, US4013097 A, US3971416 A, US3926006 A, US3905424 A, US3872682 A, US3865145 A, US3857255 A, US3815377 A, US3814574 A, US3793716 A, US3768273 A, US3760598 A, US3742723 A, US3738424 A, US3695301 A, US3693665 A, US3660784 A, US3631870 A, US3623337 A, US3530680 A, US3516935 A, US3498071 A, US338 A, US3293877 A, US3041850 A, US2701452 A, US2257727 A, US2015075632 AA, US2014190663 AA, US2013152608 AA, US2012064022 AA, US2011308259 AA, US2010071383 AA, US2009281671 AA, US2009217675 AA, US2009158749 AA, US2009040716 AA, US2009019860 AA, US2008093582 AA, US2008048047 AA,

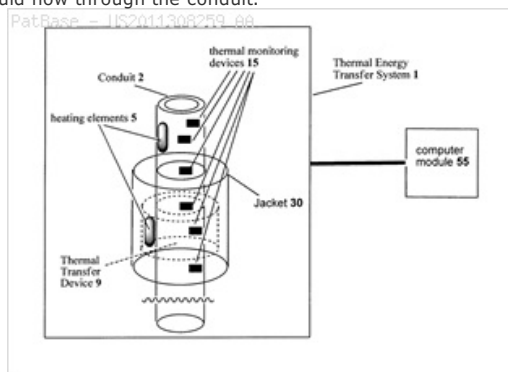
US2007191990 AA, US2007144181 AA, US2005288873 AA, US2005092483 AA, US2004244498 AA, US2004104022 AA, US2004020642 AA, US2002139125 AA, US19799 A, TWI289192, TW200413686 A, JP2002523216 T2, JP2002523216, GB1584189 A, DE3903009 A1, DE19509712 A1, CN201561673 U, CN1044327 A,

Forward Citations:

WO15038961, WO13090828, WO13090828, US9928942, US9874390, US9845423, US9784509, US9780236, US9696065, US9677714, US9605789, US9593870, US9528780, US9276190, US9261313, US9212485, US9209598, US9175888, US9175141, US9097378, US9040339, US9010132, US8967450, US8763411, US2016313068, US2016223775, US2015075632, US2014309793, US2014305507, US2014284042, US2014216708, US2014166232, US2014131422, US2013192269, US2013186107, US2013140008, GB2527025, GB2527025, CN105865070, CN105786045, CN105526461, CN105159358, CN104155749, CN103711059, CN103216968, CN103216968,

Abstract:

Provided are methods, devices and systems for **controlled** removal of thermal energy from a fluid within a thermally conducting metal conduit. The system allows for the in situ formation of a reversible plug that can stop the flow of fluid through the conduit, particularly without inducing thermally induced stress fractures or breaches in the conduit. The devices and systems include a thermal transfer device that can be adapted to be in thermal communication with a thermal conducting metal conduit containing a fluid, particularly a flowing fluid. The devices and systems allows for **controlled** re-heating of the conduit without inducing thermally induced stress fractures or breaches in the conduit to restore fluid flow through the conduit.



Title: REAL-TIME FIELD FRICTION REDUCTION METER AND METHOD OF USE

Priority: US20100841543 20100722 WO2011GB01112 20110722

Family:

Publication number	Publication date	Application number	Application date
AU2011281391 AA	20120126	AU20110281391	20110722
CA2805703 AA	20130116	CA20112805703	20110722
EP2596076 A2	20130529	EP20110740701	20110722
US2012018148 AA	20120126	US20100841543	20100722
WO12010853 A2	20120126	WO2011GB01112	20110722
WO12010853 A3	20130516	WO2011GB01112	20110722

Probable Assignee: HALLIBURTON CO

Assignee(s):(std): BRYANT JASON E ; COTTRILL EMILY ELIZABETH HELEN ; HAGGSTROM JOHANNA A ; HAGGSTROM JOHANNA ANNA ; HALLIBURTON ENERGY SERV INC

Assignee(s): HALLIBURTON ENERGY SERVICES INC ; HALLIBURTON CO

Inventor(s):(std): HAGGSTROM JOHANNA ANNA ; HAGGSTROM JOHANNA A ; BRYANT JASON E

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; NORTON ROSE CANADA SENCRL SRL LLP; COTTRILL EMILY ELIZABETH HELEN

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

International class (IPC 8-9): C09K8/62 C09K8/68 C09K8/74 E21B43/22 E21B43/26 E21B47/00 E21B47/10 (Advanced/Invention)

CPC: E21B43/26 C09K8/62 C09K8/74 C09K2208/28 E21B43/114 E21B47/10

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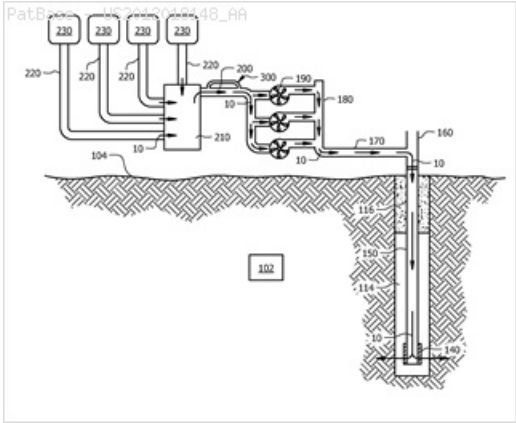
US class: 166/250.01 166/250.010P

[Classification Explorer](#)

Cited documents: US7004254 BA, US6935424 BB, US6543538 BB, US4821564 A, US4700567 A, US3161203 A, US27419308, US2010046316 AA, US2009090504 AA, US2008051301 AA, US2004206495 AA,

Forward Citations: US9256701, CN103820099, CN103755868,

Abstract:
A method of servicing a subterranean formation comprising communicating a servicing fluid comprising a hydratable friction reducer and a base fluid to the subterranean formation via a route of fluid communication, determining an actual percent by which the friction reducer reduces a pipe friction pressure, comparing the actual percent by which the friction reducer reduces the pipe friction pressure to an ideal percent by which the friction reducer should reduce pipe friction pressure to determine an effectiveness of the friction reducer, and determining if the effectiveness of the friction reducer is within an acceptable range. A method of servicing a subterranean formation comprising communicating a servicing fluid comprising a hydratable friction reducer and a base fluid to the subterranean formation via a route of fluid communication, **measuring** a wellhead pressure, determining a pipe friction pressure independent from the wellhead pressure, calculating a formation response pressure, and monitoring the formation response pressure.



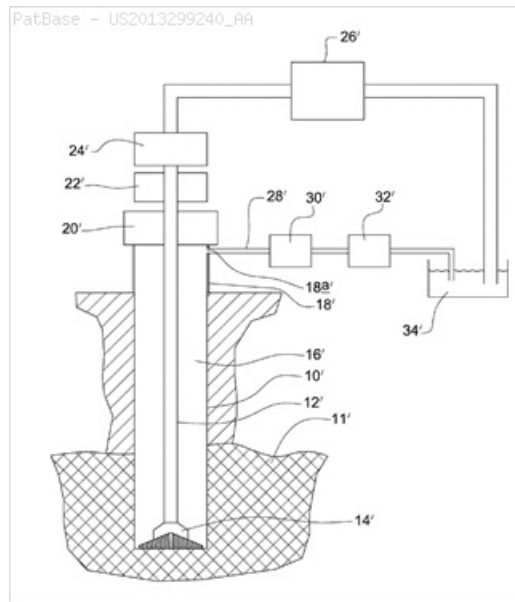
Title: DRILLING APPARATUS
Priority: GB20100015408 20100915 WO2011EP65834 20110913
Family:

Publication number	Publication date	Application number	Application date
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AU2011303956 BB	20151126	AU20110303956	20110913
BR112013005910 A2	20171114	BR20131105910	20110913
CA2811237 AA	20130313	CA20112811237	20110913
CN103180541 A	20130626	CN201180044432	20110913
EP2616629 A2	20130724	EP20110778537	20110913
EP2616629 B1	20170201	EP20110778537	20110913
EP2616629 B8	20170412	EP20110778537	20110913
GB201015408 A0	20101027	GB20100015408	20100915
GB2483671 A1	20120321	GB20100015408	20100915
GB2483671 B2	20160413	GB20100015408	20100915
MX2013002970 A1	20130509	MX20130002970	20110913
SA4003 B1	20150421	SA20110320753	20110914
SG188961 A1	20130531	SG20130018130	20110913
US2013299240 AA	20131114	US20110822914	20110913
US9388650 BB	20160712	US20110822914	20110913
WO12035001 A2	20120322	WO2011EP65834	20110913
WO12035001 A3	20120614	WO2011EP65834	20110913

Probable Assignee: MANAGED PRESSURE OPERATIONS PTE LTD
Assignee(s):(std): LEUCHTENBERG CHRISTIAN ; MANAGED PRESSURE OPERATIONS ; MANAGED PRESSURE OPERATIONS PTE ; MANAGED PRESSURE OPERATIONS PTE LTD
Assignee(s): MANAGED PRESSURE OPERATIONS PTE LIMITED
Inventor(s):(std): CHRISTIAN LEUCHTENBERG ; LEUCHTENBERG CHRISTIAN
Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; BORDEN LADNER GERVAIS LLP; LAWSON ALISON CHRISTINA; NORMAN B; FORRESTERS
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 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
International class (IPC 8-9): E21B21/00 E21B21/01 E21B21/06 E21B21/08 E21B21/10 E21B47/10 F15B15/06 F16K5/12 G01F1/84 G01F15/12 (Advanced/Invention); F15B15/06 (Advanced/Non-invention)
International class (IPC 1-7): E21B21/08 E21B21/10 E21B47/10 F15B15/06 F16K5/12 G01F1/84 G01F15/12
CPC: E21B21/01 E21B21/106 E21B21/08 E21B47/10 F15B15/065
European class: E21B21/08 E21B21/10S E21B47/10 R15B15/06D
US class: 1/1 175/206 175/209 175/48
[Classification Explorer](#)
Cited documents: WO11058031 A2, WO10115834 A2, WO08051978 A1, WO07081711 A2, WO07034152 A1, WO05017308 A1, WO03071091 A1, WO0003144 A1, US8061186 BB, US7603916 BB, US7395878 BB, US7185719 BB, US7044237 BB, US6575244 BB, US6413297 BA, US6263981 BA, US4953618 A, US3563511 A, US3338319 A, US2010305882 AA, US2007246263 AA, US2007151763 AA, US2007151762 AA, US2006162792 AA, US2004065477 AA, EP2551648 A1, EP2075403 A1, EP0022644 A1, CN85100330 A, CN1513110 A, CN1213431 A,
Forward Citations: WO16118150, WO15142819, WO13184866, WO13184866, US9664003, US9534604, US9528362, US9476271, US9328575, US9163736, US2014277772, US2014102697, US2014014191, GB2530572, CN104405316, CN104196473, CN104196473,

Abstract:

A **drilling** system including a **drill** string (12) which extends into a borehole (10), and a well closure system which contains fluid in the annular space (16) in the borehole around the **drill** string, the well closure system having a side bore whereby **controlled** flow of fluid out of the annular space in the borehole around the **drill** string is permitted, the side bore being connected to fluid return line (28) which extends from the side bore to a fluid reservoir (34), there being provided in the fluid return line a valve (30a) which is operable to restrict flow of fluid along the fluid return line to variable extent, and a flow meter (32) operable to **measure** the rate of flow of fluid along the fluid return line, the flow meter being located between the valve and the side bore, wherein a filter (40) is provided between the flow meter and the side bore, the filter including a plurality of apertures which have a smaller cross-sectional area than the smallest fluid flow lines in the flow meter.



Title:

CRYOGENIC INJECTION COMPOSITIONS, SYSTEMS AND METHODS FOR CRYOGENICALLY MODULATING FLOW IN A CONDUIT

Priority:

US20110576362P 20111216 US20120600577P 20120217 US20120617536P 20120329

US20120715909 20121214

Family:

Publication number	Publication date	Application number	Application date
TW201331352 A	20130801	TW20120145569	20121205
TW201614038 A	20160416	TW20160100260	20121205
TWI525184 B	20160311	TW20120145569	20121205
TWI575062 B	20170321	TW20160100260	20121205
US2013152608 AA	20130620	US20120715909	20121214
US9677714 BB	20170613	US20120715909	20121214
WO13090828 A2	20130620	WO2012US69925	20121214
WO13090828 A3	20131031	WO2012US69925	20121214

Probable Assignee:

BIOFILM IP LLC

Assignee(s):(std):

BIOFILM IP LLC ; WRAY DANIEL X

Inventor(s):(std):

WRAY DANIEL X

Agent(s):

FRANK J; DENTONS US LLP; STEPHANIE; SEIDMAN STEPHANIE 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 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 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

International class (IPC 8-9):

C09K5/00 C09K5/00 C09K5/02 C09K5/04 C09K5/14 F16L55/10 F16L55/103 F17C13/04 F25B9/00 F25D3/10 F28C3/12 F28F27/00 (Advanced/Invention)

CPC:

F17C13/04 C09K5/04 F16L55/1003 F16L55/103

US class:

252/70 62/50.7

[Classification Explorer](#)

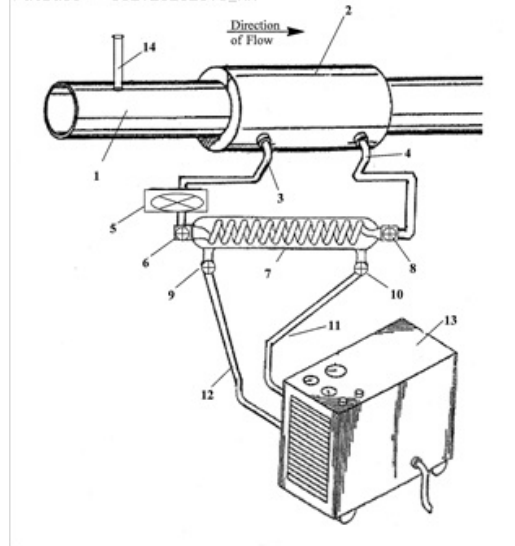
Cited documents:

WO9947588 A1, WO9711326 A1, WO8201408 A1, WO82001408, WO13090828 A2, WO11159355 A2, USRE36244 E, USRE31450 E, US9010132 BB, US8763411 BB, US8104293 BB, US8099964 BB, US8052958 BB, US8048236 BB, US7972437 BB, US7921657 BB, US7883606 BB, US7834468 BB, US7807112 BB, US7785998 BB, US7783384 BB, US7781060 BB, US7740287 BB, US7730777 BB, US7727463 BB, US7707898 BB, US7683098 BB, US7648597 BB, US7621976 BB, US7603865 BB, US7596955 BB, US7585349 BB, US7562831 BB, US7546873 BB, US7524481 BB, US7521394 BB, US7498005 BB, US7497086 BB, US7481064 BB, US7461691 BB, US7441412 BB, US7415830 BB, US7413725 BB, US7407600 BB, US7378065 BB, US7332351 BB, US7273479 BB, US7272951 BB, US7263852 BB, US7259101 BB, US7235212 BB, US7234310 BB, US7218523 BB, US7185501 BB, US7160525 BA, US7121344 BB, US7114340 BB, US7111467 BB, US7083800 BA, US7069981 BB, US7066730 BB, US7062926 BB, US7036598 BB, US7028768 BB, US7013668 BB, US6962164 BB, US6870047 BB, US6843065 BB, US6826915 BB, US6739137 BB, US6726934 BA, US6722145 BB, US6710020 BB, US6708511 BB, US6684112 BA, US6658864 BB, US6623761 BB, US6589366 BA, US6568429 BB, US6548264 BA, US6526759 BB, US6467274 BB, US6464148 BA, US6450775 BA, US6446441 BA, US6363729 BA, US6354091 BA, US6348431 BA, US6301923 BA, US6212891 BA, US6185953 BA, US6183573 BA, US6164078 A, US6148619 A, US6143211 A, US6141972 A, US6129290 A, US6105388 A, US6070416 A, US6041811 A, US6041621 A, US5993167 A, US5944686 A, US5836167 A, US5787722 A, US5778919 A, US5743637 A, US5743095 A, US5738772 A, US5665277 A, US5618475 A, US5582239 A, US5550044 A, US5527330 A, US5522419 A, US5403089 A, US5385025 A, US5357756 A, US5352304 A, US5324159 A, US5125427 A, US5124466 A, US5105843 A, US5099650 A, US5076930 A, US5019761 A, US4975415 A, US4951474 A, US4934196 A, US4849611 A, US4829770 A, US4789104 A, US4729664 A, US4642994 A, US4634050 A, US4597699 A, US4597267 A, US4535597 A, US4533123 A, US4441328 A, US4422338 A, US4421656 A, US4370862 A, US4350027 A, US4283935 A, US4267699 A, US4238640 A, US4220012 A, US4219224 A, US4165571 A, US4112706 A, US4095747 A, US4020265 A, US4013097 A, US3971416 A, US3933722 A, US3928516 A, US3905424 A, US3872682 A, US3865145 A, US3857255 A, US3852235 A, US3816374 A, US3815377 A, US3814574 A, US3793716 A, US3768273 A, US3760598 A, US3760398 A, US3742723 A, US3738424 A, US3730931 A, US3709863 A, US3695301 A, US3693665 A, US3631870 A, US3623337 A, US3530680 A, US3516935 A, US3498071 A, US3041850 A, US3, US2015176929 AA, US2015075632 AA, US2014190663 AA, US2013062555 AA, US2012290051 AA, US2012064022 AA, US2012017614 AA, US2011308259 AA, US2011287262 AA, US2011229576 AA, US2011218364 AA, US2011165086 AA, US2011091560 AA, US2011085229 AA, US2011060062 AA, US2011056240 AA, US2011052496 AA, US2010311859 AA, US2010267549 AA, US2010139455 AA, US2010087337 AA, US2010071383 AA, US2010055170 AA, US2010005517 AA, US2009282948 AA, US2009281671 AA, US2009217675 AA, US2009215255 AA, US2009203196 AA, US2009158890 AA, US2009158749 AA, US2009104269 AA, US2009040716 AA, US2009029064 AA, US2009019860 AA, US2008286374 AA, US2008145641 AA, US2008048047 AA, US2007144181 AA, US2007080054 AA, US2006269463 AA, US2006228554 AA, US2005288873 AA, US2005092483 AA, US2004244498 AA, US2004020642 AA, US2002139125 AA, GB1584189 A, EP2141188 A1, DE3903009 A1, CN101525530 A, WO18034863, WO17196184, US9780236, US9677714, US9605789, US9528780, US9175141, US9010132, US8763411, US2017027834, US2016195013, US2012137707, GB2554030, CN105542646, CN103939190, CN103357192,

Forward Citations:

Abstract:

Provided are cryogenic injection compositions, methods and systems to introduce a cryogenic injection composition into a fluid within a conduit such that at least a portion of the temperature of the fluid is reduced to a temperature below which at least a portion of the fluid becomes a solid thereby reversibly plugging the conduit. Also provided are methods and systems for cooling or freezing a conduit and a fluid therein using a pressurized fluid cryogen as a thermal transfer fluid for **controlled** removal of thermal energy from a thermal conducting metal conduit and a fluid contained therein.



Title: METHOD AND APPARATUS FOR MIXING, TRANSPORTING, STORING, AND TRANSFERRING THIXOTROPIC FLUIDS IN ONE CONTAINER

Priority: US20120416767 20120309 WO2013US28236 20130228 US20130887849 20130506
WO2014US35140 20140423

Family:	Publication number	Publication date	Application number	Application date
	AR096176 AA	20151209	AR2014P101823	20140505
	AU2013230568 AA	20130912	AU20130230568	20130228
	AU2013230568 BB	20170202	AU20130230568	20130228
	AU2014263071 AA	20141113	AU20140263071	20140423
	AU2014263071 BB	20170216	AU20140263071	20140423
	BR112014022133 A2	20170620	BR20141122133	20130228
	BR112014022133 A8	20170718	BR20141122133	20130228
	CA2866488 AA	20140905	CA20132866488	20130228
	CA2866488 C	20170110	CA20132866488	20130228
	CA2906225 AA	20150911	CA20142906225	20140423
	EA028203 B1	20171031	EA20140091665	20130228
	EA201491665 A1	20150227	EA20140091665	20130228
	EP2822677 A2	20150114	EP20130710684	20130228
	GB201516467 A0	20151104	GB20150016467	20140423
	GB2530417 A1	20160323	GB20150016467	20140423
	GB2530417 B2	20171227	GB20150016467	20140423
	GC5947 A	20170716	GC2013P023780	20130306
	MX2014010771 A1	20150617	MX20140010771	20130228
	MX2015013967 A1	20160210	MX20150013967	20140423
	US2013233393 AA	20130912	US20120416767	20120309
	US2013242688 AA	20130919	US20130887849	20130506
	US9643138 BB	20170509	US20120416767	20120309
	WO13134037 A2	20130912	WO2013US28236	20130228
	WO13134037 A3	20131107	WO2013US28236	20130228
	WO14182456 A1	20141113	WO2014US35140	20140423

Probable Assignee: HALLIBURTON CO

Assignee(s):(std): HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; KAGELER PAUL ; HALLIBURTON ENERGY SERVICES INC ; KAGELER PAUL LEON

Assignee(s): HALLIBURTON ENERGY SERVICES INC10200 BELLAIRE BOULEVARDHOUSTONTX77072US

Inventor(s):(std): KAGELER PAUL ; KAGELER PAUL LEON ; PAUL LEON KAGELER

Inventor(s): KAGELER PAULUS ; PAUL KAGELER

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; FB RICE; FB RICE PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; HOFFMANN EITL; SULEIMAN I AL AMMAR LAW OFFICE; BAKER BOTTS LLP; TENLEY; EBER MICHELLE J; EBER MICHELLE 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

International class (IPC 8-9): B01F13/00 B01F15/00 B01F3/12 B01F7/00 B01F7/16 B01F7/18 E21B21/01 E21B21/06 E21B43/00 E21B43/25 F15B13/00 F17D3/00 (Advanced/Invention)

CPC: B01F7/00233 B01F3/1221 B01F7/00166 B01F7/00633 B01F7/00975 B01F7/164 B01F7/18 B01F13/0032 B01F15/00253 B01F2003/125 B01F2013/1052 E21B21/062 E21B43/25 E21B21/06 B01F7/1695 B01F7/002 B01F15/00681 E21B21/01 Y10T137/0324 Y10T137/8376 Y02P80/156

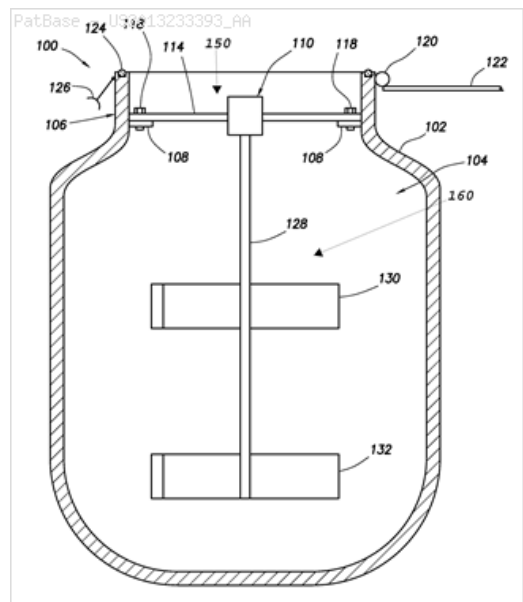
US class: 137/2 137/560 366/139 366/144 366/182.2 366/292

[Classification Explorer](#)

Cited documents: US7614451 BB, US6727096 BA, US6336739 BA, US6063737 A, US5676463 A, US5538342 A, US5259509 A, US5203574 A, US5055180 A, US5046856 A, US4814376 A, US4813786 A, US4606648 A, US4594883 A, US4560572 A, US4422770 A, US4385999 A, US4185923 A, US4148101 A, US4091463 A, US2469649 A, US2010319921 AA, US2010202247 AA, US2010102463 AA, US2007030322 AA, US2005105388 AA, US2004228209 AA, US1120534 A, KR20100019884 A, KR20000019884 A, DE9216123 U1, DE202008010171 U1

Forward Citations: EP3020469, CN104275110, CN103920443, CN103920443,

Abstract:
A method for mixing, transporting, storing, and transferring a thixotropic fluid is disclosed. The method includes mixing a thixotropic fluid. The thixotropic fluid may be built within a fluid container that includes an agitation unit. Once it has gelled, the thixotropic fluid can be sheared using the agitation unit, which may be mounted within the fluid container. The thixotropic fluid can then be **pumped** out of the fluid container.



Title: SYSTEM AND METHOD FOR COOLING A GAS TURBINE WITH AN EXHAUST GAS PROVIDED BY THE GAS TURBINE

Priority: US20120456575 20120426 US20120066579 20121029 US20120722118P 20121102
 US20120722115P 20121102 US20120722114P 20121102 US20120722111P 20121102
 US20120747194P 20121228 US20120747192P 20121228 US20120747195P 20121228
 US20120747198P 20121228 US20120747206P 20121228 US20120747210P 20121228
 US20120747201P 20121228 US20120747203P 20121228 US20120747205P 20121228
 US20120747209P 20121228 US20120747207P 20121228 WO2013US37466 20130419
 US20130396891 20130419 US20130066579 20131029 US20130066551 20131029
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 US20130067537 20131030 US20130067486 20131030 US20130067679 20131030
 US20130067563 20131030 US20130067844 20131030 US20130067714 20131030
 US20130067726 20131030 US20130067731 20131030 US20130067797 20131030
 US20130067739 20131030 AU20130337790 20131031 AU20130337830 20131031
 WO2013US67803 20131031 WO2013US67824 20131031 WO2013US67902 20131031
 WO2013US67901 20131031 WO2013US68113 20131101 WO2013US67995 20131101
 WO2013US68019 20131101 WO2013US68035 20131101 US20170456957 20170313
 AU20170248415 20171016 AU20170261468 20171113

Family:

Publication number	Publication date	Application number	Application date
AR090864 AA	20141210	AR2013P101423	20130426
AR093322 AA	20150527	AR2013P103995	20131101
AR093323 AA	20150527	AR2013P103996	20131101
AR093324 AA	20150527	AR2013P103997	20131101
AR093325 AA	20150527	AR2013P103999	20131101
AR093326 AA	20150603	AR2013P104000	20131101
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AU2013337647 AA	20140508	AU20130337647	20131101
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WO14071037 A2	20140508	WO2013US67803	20131031
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WO14071063 A1	20140508	WO2013US67855	20131031
WO14071065 A2	20140508	WO2013US67857	20131031
WO14071065 A3	20160623	WO2013US67857	20131031
WO14071088 A1	20140508	WO2013US67901	20131031
WO14071089 A1	20140508	WO2013US67902	20131031
WO14071118 A1	20140508	WO2013US67946	20131101
WO14071120 A2	20140508	WO2013US67948	20131101
WO14071120 A3	20141127	WO2013US67948	20131101
WO14071121 A1	20140508	WO2013US67951	20131101
WO14071123 A2	20140508	WO2013US67953	20131101
WO14071123 A3	20141120	WO2013US67953	20131101
WO14071136 A2	20140508	WO2013US67977	20131101
WO14071136 A3	20140626	WO2013US67977	20131101
WO14071148 A1	20140508	WO2013US67995	20131101
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Probable Assignee: EXXONMOBIL UPSTREAM RESEARCH CO

Assignee(s):(std): EXXONMOBIL UPSTREAM RES CO ; EXXONMOBIL UPSTREAM RES COMPNAY ; GEN ELECTRIC ; GENERAL ELECTRIC CO LTD ; EXXONMOBILE UPSTREAM RES CO ; GENERAL ELECTRC CO ; EXXONMOBL UPSTREAM RES CO ; KOLVICK SANDRA BEVERLY

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WAYNE ; MORGAN REX ALLEN ; EXXONMOBIL UPSTREAM RESEARCH COP.O. BOX
2189HOUSTONTX77252-2189US ; EXXONMOBIL UPSTREAM RESEARCH COMPNAY ; EXXONMOBILE
UPSTREAM RESEARCH CO ; GENERAL ELECTRIC CO ; EXXONMOBIL UPSTREAM RESEARCH CO ;
DENMAN TODD ; DHANUKA SULABH K ; DRAPER SAMUEL D

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ACIARB; INO SARI; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; KUMAKURA
YOSHIO; FLETCHER YODER PC; SWANSON TAIT R 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
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**International class
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F02C3/13 (Advanced/Non-invention)

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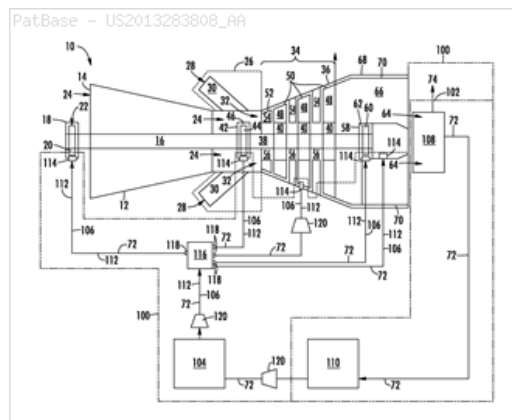
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Forward Citations:

Abstract:

A system for cooling a gas turbine with an exhaust gas provided by the gas turbine generally includes an exhaust gas recirculation system including an exhaust gas scrubber. The exhaust gas recirculation system is disposed downstream from the gas turbine and may receive at least a portion of the exhaust gas provided by the gas turbine. The system may also include a moisture separator located downstream from the exhaust gas recirculation system, and a cooling circuit configured to connect to one or more cooling circuit inlets. The one or more cooling circuit inlets may provide fluid communication between the cooling circuit and the gas turbine.



Title:	SYSTEM FOR PUMPING HYDRAULIC FRACTURING FLUID USING ELECTRIC PUMPS			
Priority:	US20120679689 20121116	US20140190982 20140226	US20140487694 20140414	
	US20150622532 20150213	US20150156303P 20150503	US20150156301P 20150503	
	US20150156306P 20150503	US20150156307P 20150503	US20150180289P 20150616	
	US20150180140P 20150616	US20150204331P 20150812	US20150204842P 20150813	
	US20150242173P 20151015	US20150884363 20151015	US20150242657P 20151016	
	US20150242566P 20151016	US20160323236P 20160415	US20160323168P 20160415	
	US20160323303P 20160415	US20160145491 20160503	US20160145440 20160503	
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	US20160235716 20160812	US20160291842 20161012	US20160294349 20161014	
	US20160293681 20161014	US20170486970 20170413	US20170487656 20170414	
	US20170487694 20170414	US20170581625 20170428	US20170653028 20170718	
	US20170838033 20171211			

Family:	Publication number	Publication date	Application number	Application date
	CA2833711 AA	20140516	CA20132833711	20131115
	CA2886697 AA	20160813	CA20152886697	20150330
	CA2928704 AA	20161103	CA20162928704	20160503
	CA2928707 AA	20161103	CA20162928707	20160503
	CA2928711 AA	20161103	CA20162928711	20160503
	CA2928717 AA	20161103	CA20162928717	20160503
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	US9745840 BB	20170829	US20160291842	20161012
	US9840901 BB	20171212	US20160293681	20161014
	US9893500 BB	20180213	US20170487694	20170414

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International class (IPC 8-9): B01F15/00 B01F15/02 E21B17/20 E21B23/08 E21B29/00 E21B33/12 E21B41/00 E21B43/116 E21B43/117 E21B43/12 E21B43/26 E21B43/267 E21B47/00 F01D15/08 F01D15/10 F01D25/12 F02B43/08 F02B43/10 F02B63/04 F02C3/22 F02C7/143 F02C7/16 F02C7/22 F02C7/36 F02M21/00 F02M25/00 F02M33/00 F02M37/22 F04B15/02 F04B17/00 F04B17/03 F04B19/22 F04B23/04 F04B35/04 F04B47/00 F04B47/02 F04B49/06 F04B49/20 F04B51/00 F04B9/02 F04D13/02 F04D13/06 F04D29/044 F04D29/66 F16D3/02 F16D3/18 F16D3/64 F16F15/067 F16L55/04 F23R3/28 F24F13/30 G05B19/042 G05B19/46 H02B13/00 H02B7/06 H02J11/00 H02K7/14 H02K7/18 H02P1/30 H02P21/00 H02P23/00 H02P27/04 H02P29/02 H02P29/024 H02P5/74 H04N7/18 (Advanced/Invention); E21B7/02 (Advanced/Non-invention)

CPC: H02P29/02 F04B47/06 G05B19/0428 G05B19/46 G05B2219/45004 G05B2219/37303 H02P1/30 B01F15/0235 B01F15/00538 B01F15/00519 F16F15/067 F16L55/041 F16F3/04 B01F2215/0081 F04B17/06 F04B23/00 F04B9/02 F04D29/044 H04N7/185 E21B43/26 E21B23/08 F04B49/065 F04B53/003 F04B47/00 F04B15/02 F04B49/06 F04B51/00 F02B43/08 F02B43/10 F02M37/22 F02B63/04

H02P21/00 H02P29/024 H02K7/1815 F02B2043/103 F02C7/143 F02C7/16 F05D2220/76 F05D2260/213
H02B7/06 E21B41/00 F04D29/66 E21B43/267 F04B37/12 F05D2220/32 F04B9/10 F04B2203/0209
F01D15/08 F01D15/10 H02K7/1823 E21B41/0085 H02P23/00 F02C3/22 F04B17/03 F04B23/04
F04B35/04 F04B47/02 F04B49/20 F04B19/22

US class: 1/1 166/177.5 166/250.01 166/308.1 166/53 166/65.1 166/66.4 175/4.57 366/183.1 417/423.1 700/283

[Classification Explorer](#)

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Abstract:

A system for hydraulically fracturing an underground formation in an oil or gas well to extract oil or gas from the formation, the oil or gas well having a wellbore that permits passage of fluid from the wellbore into the formation. The system includes a plurality of electric **pumps** fluidly connected to the well, and configured to **pump** fluid into the wellbore at high pressure so that the fluid passes from the wellbore into the and fractures the formation. The system can also include a plurality of natural gas powered generators electrically connected to the plurality of electric **pumps** to provide electrical power to the **pumps**.



Title:

SUCTION PRESSURE MONITORING SYSTEM

Priority:

US20120720729 20121219

Family:

Publication number	Publication date	Application number	Application date
US2014166267 AA	20140619	US20120720729	20121219
US9341055 BB	20160517	US20120720729	20121219
WO14099551 A2	20140626	WO2013US74407	20131211
WO14099551 A3	20141016	WO2013US74407	20131211

Probable Assignee:

HALLIBURTON CO

Assignee(s):(std):

HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC

Inventor(s):(std):

BEISEL JOSEPH A ; WEIGHTMAN GLENN H

Agent(s):

JOHN W; BAKER BOTTS LLP; CONLEY ROSE PC 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 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

International class (IPC 8-9):

E21B21/08 E21B33/13 E21B43/26 E21B47/06 F04B23/04 F04B47/00 (Advanced/Invention)

CPC:

E21B47/06 E21B33/13 E21B43/26 F04B47/00

US class:

1/1 166/250.01 166/66

Classification Explorer

Cited documents:

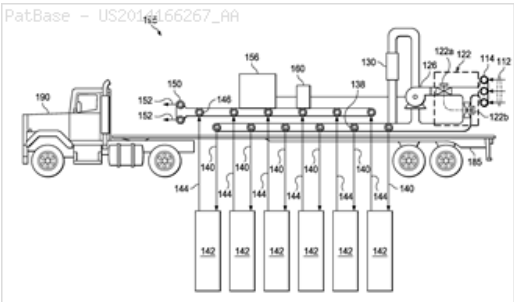
WO14099551 A2, US8807960 BB, US8543245 BB, US8122759 BB, US7832257 BB, US7819024 BA, US6904982 BB, US6859740 BB, US6325159 BA, US5846056 A, US5720598 A, US4302157 A, US2014166268 AA, US2011202275 AA, US2010027371 AA, US2004167738 AA, GB2419671 A1,

Forward Citations:

WO18052398, WO17058161, US9341056, US9341055, US2016305223,

Abstract:

A wellbore servicing system comprising a **pump**, a fluid supply flow path configured to supply fluid to the **pump**, and a suction pressure monitoring system comprising a transducer in pressure communication with the fluid supply flow path, and an electronic circuit in electrical communication with the transducer and a monitoring system, wherein the electronic circuit is configured to generate a lower pressure envelope signal, wherein the lower pressure envelope signal is representative of a low pressure within the fluid supply flow path over a predetermined duration of time.



Title: DISCHARGE PRESSURE MONITORING SYSTEM

Priority: US20120720749 20121219

Family:

Publication number	Publication date	Application number	Application date
US2014166268 AA	20140619	US20120720749	20121219
US9341056 BB	20160517	US20120720749	20121219
WO14099545 A2	20140626	WO2013US74396	20131211
WO14099545 A3	20141106	WO2013US74396	20131211

Probable Assignee: HALLIBURTON CO

Assignee(s):(std): HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC

Inventor(s):(std): BEISEL JOSEPH A ; WEIGHTMAN GLENN H

Agent(s): JOHN W; BAKER BOTTS LLP; CONLEY ROSE PC 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 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

International class (IPC 8-9): E21B33/13 E21B43/26 E21B47/06 F04B23/04 F04B47/00 F04B49/06 (Advanced/Invention)

CPC: E21B47/06 E21B33/13 E21B43/26 F04B47/00

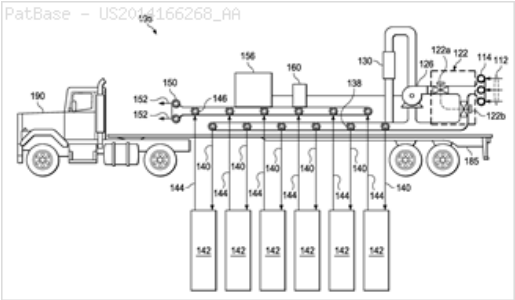
US class: 1/1 166/250.01 166/66

[Classification Explorer](#)

Cited documents: WO14099551 A2, US8807960 BB, US8622713 BB, US8543245 BB, US8122759 BB, US7832257 BB, US7819024 BA, US7353875 BB, US6904982 BB, US6859740 BB, US6709241 BB, US5846056 A, US5720598 A, US4766329 A, US4302157 A, US3971926 A, US3511579 A, US3229639 A, US2014166267 AA, US201213720729, US2011202275 AA, US2010027371 AA, US2004167738 AA, GB2419671 A1,

Forward Citations: WO17058161, US9341055,

Abstract:
A pressure monitoring method comprising providing wellbore servicing equipment comprising a **pump**, a discharge flow path configured to discharge fluid from the **pump**, a discharge pressure monitoring system comprising a transducer in pressure communication with the discharge flow path, and an electronic circuit in electrical communication with the transducer and a monitoring system, collecting an electrical signal indicative of the pressure within the discharge flow path, processing the electrical signal to generate an upper pressure envelope signal, wherein the upper pressure envelope signal is representative of a high pressure within the discharge flow path over a predetermined duration of time, and comparing the upper pressure envelope signal to a predetermined upper threshold.



Title:	APPARATUS AND METHOD FOR MONITORING FLUID FLOW IN A WELLBORE USING ACOUSTIC SIGNALS														
Priority:	US20120739679P 20121219	US20130434732 20131218	WO2013US76282 20131218												
Family:	<table> <tr> <th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr> <tr> <td>US2015354351 AA</td><td>20151210</td><td>US20130434732</td><td>20131218</td></tr> <tr> <td>WO14100272 A1</td><td>20140626</td><td>WO2013US76282</td><td>20131218</td></tr> </table>			Publication number	Publication date	Application number	Application date	US2015354351 AA	20151210	US20130434732	20131218	WO14100272 A1	20140626	WO2013US76282	20131218
Publication number	Publication date	Application number	Application date												
US2015354351 AA	20151210	US20130434732	20131218												
WO14100272 A1	20140626	WO2013US76282	20131218												

Probable Assignee: EXXONMOBIL UPSTREAM RES CO

Assignee(s):(std): DEFFENBAUGH MAX ; DISKO MARK M ; EXXONMOBIL UPSTREAM RES CO ; KELLER STUART R ; MORROW TIMOTHY I ; STILES DAVID A

Assignee(s): EXXONMOBIL UPSTREAM RESEARCH CO

Inventor(s):(std): DEFFENBAUGH MAX ; DISKO MARK M ; KELLER STUART R ; MORROW TIMOTHY I ; STILES DAVID A

Agent(s): JAMES RICK F 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 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

International class (IPC 8-9): E21B47/01 E21B47/10 E21B47/12 E21B47/16 (Advanced/Invention)

CPC: E21B47/01 E21B47/10 E21B47/16

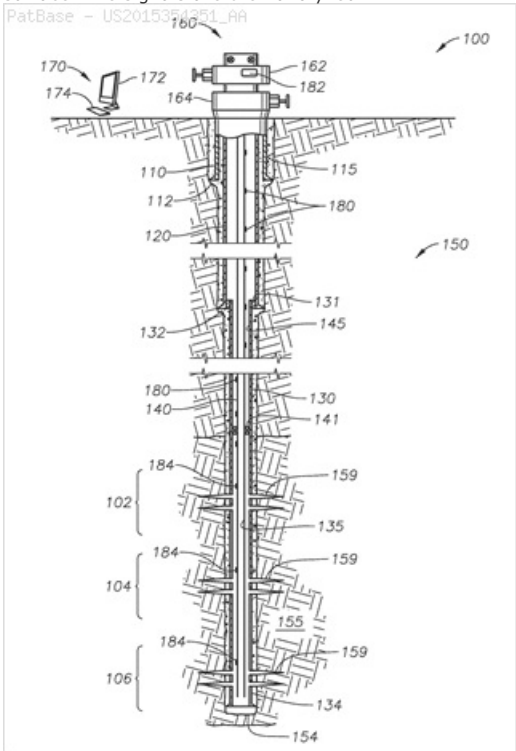
US class: 367/82

[Classification Explorer](#)

Cited documents: USRE40032 E, US8787840 BB, US7994932 BB, US7321788 BB, US7310286 BA, US6727827 BA, US6429784 BA, US6400646 BA, US6300743 BA, US6239690 BA, US6236850 BA, US6177882 BA, US6125080 A, US5924499 A, US5857146 A, US5850369 A, US5697650 A, US5480201 A, US5468025 A, US5373481 A, US5128901 A, US4314365 A, US4302826 A, US4283780 A, US3781783 A, US3512407 A, US3103643 A, US2015285065 AA, US2015015413 AA, US2015003202 AA, US2014269188 AA, US2014079242 AA, US2013294203 AA, US2013272708 AA, US2013118315 AA, US2013106615 AA, US2013003503 AA, US2012179377 AA, US2012099550 AA, US2012076212 AA, US2011280294 AA, US2011275313 AA, US2011186290 AA, US2010214107 AA, US2010032210 AA, US2009080291 AA, US2008253228 AA, US2008029306 AA, US2007263488 AA, US2007146351 AA, US2007103271 AA, US2006115095 AA, US2006085552 AA, US2005284659 AA, US2004262008 AA, US2004124994 AA, US2004065443 AA, US2003151977 AA, US2003117896 AA, US2002153996 AA, US2002043369 AA,

Forward Citations: WO17184116, WO17139631, WO17034558, WO17003485, WO16144349, WO16144347, WO16144346, WO16144344, WO16115012, WO16048457, US9879525, US9638027, US9631485, US9598642, US2018003037, US2017186512, US2017145819, US2016177666, US2016161327, US2015285066, US2015096942, GB2549055, GB2548747, GB2548062, GB2547620,

Abstract:
 An electro-acoustic system for downhole telemetry employs a series of communications nodes spaced along a string of casing within a wellbore. The nodes allow wireless communication between transceivers residing within the nodes and a receiver at the surface. The transceivers provide node-to-node communication up a wellbore at high data transmission rates for data indicative of fluid flow within the wellbore. A method of monitoring the flow of fluid within a wellbore uses a plurality of data transmission nodes situated along the casing string sending signals to a receiver at the surface. The signals are then analyzed.



Title:

Priority:

Family:

A THERMODYNAMIC MACHINE

NZ20130609950 20130429

NZ20130613431 20130719

WO2014NZ00078 20140429

Publication number	Publication date	Application number	Application date
AU2014260530 AA	20141106	AU20140260530	20140429
CA2910458 AA	20151026	CA20142910458	20140429
CN105339604 A	20160217	CN201480037146	20140429
EP2992188 A2	20160309	EP20140744649	20140429
IN10501DN2015 A	20160212	IN2015DN10501	20151116
US2016102631 AA	20160414	US20140787676	20140429
US9777669 BB	20171003	US20140787676	20140429
WO14178732 A2	20141106	WO2014NZ00078	20140429
WO14178732 A3	20141231	WO2014NZ00078	20140429
ZA201508123 A	20171129	ZA20150008123	20140429

Probable Assignee:

Assignee(s):(std):

Inventor(s):(std):

Agent(s):

XEICLE LTD

LYNN ROBERT GULLIVER ; XEICLE LTD

LYNN ROBERT GULLIVER ; ROBERT GULLIVER LYNN

ELLIS TERRY; BERESKIN AND PARR LLP SENCRL SRL; CARPMAELS AND RANSFORD LLP; MERCHANT AND GOULD PC; ELLIS TERRY 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

International class (IPC 8-9):

CPC:

US class:

F01K F01K11/04 F01K25/00 F02C F02C1/10 F02G1/055 (Advanced/Invention)

F02G1/055 F01K11/04 F01K25/00 F02C1/10 Y02T50/672

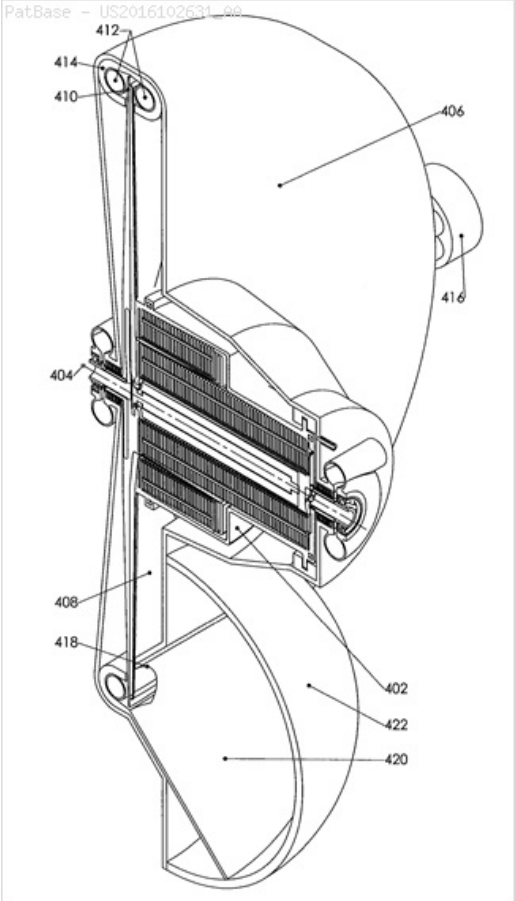
60/517

Classification Explorer

Cited documents:

US8051655 BB, US7748220 BB, US4004426 A, US3931713 A, US3613368 A, US2597249 A, EP2489839 A1,

Abstract:
A thermodynamic machine, comprising: a rotor, configured to rotate about a rotor axis, a working fluid circulation path and a coolant fluid path formed within the rotor, the coolant fluid path fluidically isolated from the working fluid circulation path, the working fluid circulation path spanning radially from the rotor axis to close to the periphery of the rotor; a working fluid circulation drive configured to drive the circulation of a working fluid about the working fluid circulation path; at least one working fluid cooler heat exchanger formed as part of the working fluid circulation path and the coolant fluid path, in use coolant fluid passing through the working fluid cooler heat exchanger to transfer heat from the working fluid to the coolant fluid, and; a working fluid heater in the working fluid circulation path configured to heat a working fluid circulating around the working fluid circulation path.



Title:

Priority:

Family:

Probable Assignee:

Assignee(s):(std):

Inventor(s):(std):

International class (IPC 8-9):

CPC:

US class:

Classification Explorer

Cited documents:

Forward Citations:

SYSTEMS AND METHODS FOR RECOMMENDING PROVIDERS AND FOR PROCESSING PRODUCT INVENTORIES OF PROVIDERS

US20130967876 20130815US20150619695 20150211

Publication number	Publication date	Application number	Application date
US2015052028 AA	20150219	US20130967876	20130815
US2015218010 AA	20150806	US20150619695	20150211

IPPSYS LLC

BIG SKY AUTOMATION ; IPPSYS LLC

BENAVIDES ERIC ; CANTRELLE CAMERON THOMAS ; WOODEN DAVID THOMAS

B01D29/60 C02F1/00 G06Q10/08 (Advanced/Invention)

G06Q10/087 C02F1/001 B01D29/606 C02F2101/32 C02F2103/10 C02F2209/03 G06Q10/0832

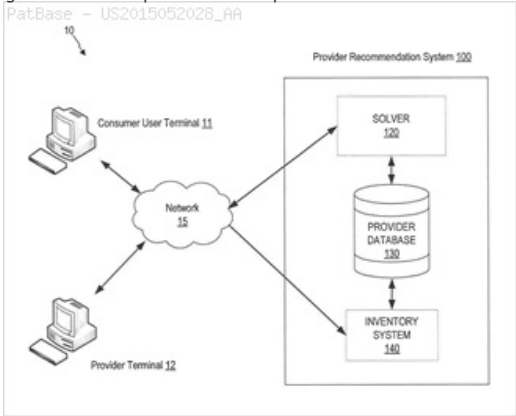
210/741 210/805 210/97 705/28

[Classification Explorer](#)

US5456097 A, US2012259722 AA, US2011264559 AA, US2009242631 AA, US2006224327 AA, US2005192760 AA,

WO18013768, US2017241930,

Abstract:
 A system for processing an inventory of plants of a provider is disclosed. The system may include an inventory processor, which matches the plant in the inventory to a plant in a master list of plants. The processor may identify an inventory label of the inventory plant and a candidate genus based on the inventory label. The processor may determine candidate plants from the master list based on the candidate genus, and score each master label associated with the candidate plants with a master score, by determining a first score for the master label, based on a count of letters in the inventory label, and a second score. The processor may select a minimum of the first score and the second score as the master score; select a plant having a highest master score as a matched plant; and create a database record associating the matched plant with the provider.



Title: SYSTEMS AND METHODS FOR RECOVERY OF METALS AND COMPONENTS

Priority: US20110479850P 20110428 US20120460529 20120430 US20140279240 20140515
US20150733864 20150608 US20160341910 20161102

Family:

Publication number	Publication date	Application number	Application date
US2015275327 AA	20151001	US20150733864	20150608
US2017072440 AA	20170316	US20160341910	20161102
US9050545 BA	20150609	US20120460529	20120430
US9513055 BA	20161206	US20140279240	20140515
US9752207 BB	20170905	US20150733864	20150608

Probable Assignee: DIFFERENTIAL ENGINEERING INC

Assignee(s):(std): DIFFERENTIAL ENG INC ; DIFFERENTIAL ENGINEERING INC ; SEAL THOMAS JOSEPH

Inventor(s):(std): SEAL THOMAS JOSEPH

Agent(s): BAKER AND HOSTETLER LLP

International class (IPC 8-9): B01D11/02 B01F1/00 B01F3/04 B09B1/00 B09C1/08 B09C1/10 C22B3/02 C22B3/04 C22B7/00 E21B43/28 F26B19/00 F26B9/10 (Advanced/Invention)

CPC: B01F1/00 C22B3/04 C22B7/006 B01D11/02 E21B43/28 F26B9/10 C22B3/02 B09B1/006 B09C1/08 B09C1/10 F26B19/00 Y02P10/234 B01D11/0223 B01F3/04503 B01F3/04985 B01D11/028

US class: 1/1 588/250 75/712

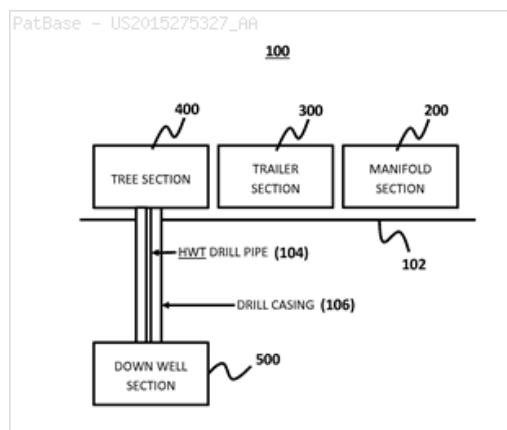
[Classification Explorer](#)

Cited documents: WO05090748 A1, US9513055 BA, US8021461 BB, US4589488 A, US2008042446 AA, CA2423101 AA,

Forward Citations: US9752207, US2015275327,

Abstract:

In embodiments, an aqueous solution containing lixiviants and/or other chemicals and/or reagents may be delivered into the well through one or more conduits or pipes. The chemicals in the aqueous solution may further be mixed together and/or with other ingredients. The solution may thereafter be screened and delivered by being **pumped** to pressures required for delivery of the solution from a **perforated** well, deep into a heap leach pad to leach, re-leach, and/or rinse extracted components of interest, such as metals for recovery. The delivery method may open or stimulate new fluid pathways or channels by lifting and mobilizing materials in the heap, thereby creating new channels, and allowing fluid to travel substantially horizontally through the heap to interface with inventory metal for recovery. The system may include a mobile platform assembled near or at the vicinity of the injection well.



Title: METHOD AND APPARATUS FOR CONTINUOUSLY CONTROLLING A WELL FLOW RATE

Priority: IT2014MI00904 20140519 WO2014IB65104 20141007

Family:

Publication number	Publication date	Application number	Application date
NO20161960 A	20161209	NO20160001960	20161209
US2017260821 AA	20170914	US20140520396	20141007
WO15177607 A1	20151126	WO2014IB65104	20141007

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s):(std): SCHLUMBERGER TECHNOLOGY BV ; WELL EQUIPMENTS INT S R L

Assignee(s): SCHLUMBERGER TECHNOLOGY CORP ; WELL EQUIPMENTS INT SRL

Inventor(s):(std): PEVERI LUIGI

Agent(s): CICOGNA FRANCO

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

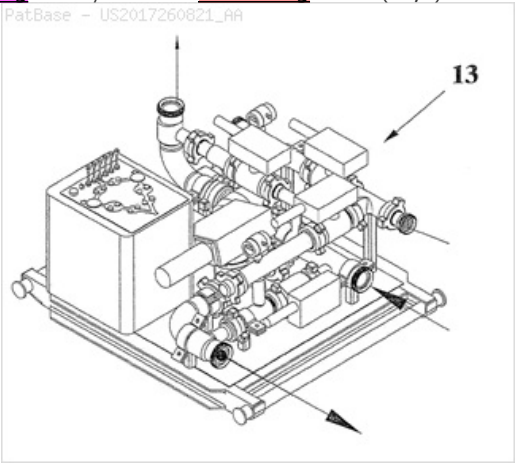
International class (IPC 8-9): E21B21/08 E21B21/10 E21B34/02 E21B47/10 (Advanced/Invention)

CPC: E21B47/10 E21B21/10 E21B34/02 E21B47/06 E21B21/08 E21B21/106 E21B47/065

[Classification Explorer](#)

Cited documents: US2013068532 AA, US2010084142 AA, GB2230312 A1, EP1898044 A2, CN102400653 A,

Abstract:
A method for continuously **controlling** fluid flow rates through a well (4) provides to shut off the **drilling** mud at the well inlet and outlet and detect measurements of flow rate and density of said **drilling** mud by a Venturi **measuring** device (10,2).



Title:

BATIMENT OU HABITAT EN ARCHITECTURE DE GRAPPE TALUTEE ANTISISMIQUE ET BIOCLIMATIQUE
BUILDING OR HABITAT IN ARCHITECTURE AND EARTHQUAKE CLUSTER talutee BIOCLIMATIC (Machine translation)

Priority:

FR20150000132 20150122

Family:

Publication number	Publication date	Application number	Application date
FR3032001 A1	20160729	FR20150000132	20150122

Probable Assignee:

PROVOST FRANCK

Assignee(s):(std):

PROVOST FRANCK

Assignee(s):

FRANCK PROVOST

Inventor(s):(std):

PROVOST FRANCK

Inventor(s):

FRANCK PROVOST

Agent(s):

FRANCK PROVOST

International class (IPC 8-9):

E04B1/348 E04B1/76 E04B1/98 E04D13/16 E04H1/02 (Advanced/Invention)

CPC:

E04H1/02 E04H1/005 E04H1/1205 E04H9/021 E04H9/028 E04B1/10 E04B1/3205 E04B1/34838 E04B2001/0076 E04B2001/0084 E02D29/0291 E04B7/08 F28D20/0052 F24J2/04 F24J3/081 Y02E10/12 Y02E10/44 Y02E60/142

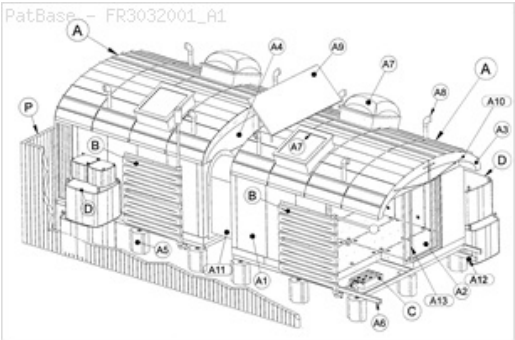
[Classification Explorer](#)

Cited documents:

US4655013 A, FR2964123 A1, EP2699744 A1,
DE202010007508 U1

Abstract:

Source: FR3032001A [FR] La presente invention concerne le domaine de la construction de batiment et d'habitat bioclimatique antisismique fragmente en forme de grappe, sur une base de cellules reliees autonomes structurelles autoporteuses, prefabriquees en caissons ossature bois et composites encapsulees, caissons structuraux realises par un procede composite sous vide d'air en moule rigide ou souple par injection ou infusion de resine bio sourcee de preference. Batiment isole thermiquement par une formation massique de terre apportant une ressource geothermique, ladite invention appartient plus particulierement au domaine du batiment et du logement modulable juxtaposable et extensible, evolutif et demontable, en residence principale ou secondaire, mais encore en logement individuel ou collectif jumele ou non, regroupe en quartier residentiel ou isole, a caractere locatif ou prive, de loisir ou de commerce ou industriel et ceci idealement en autonomie d'energie. Plus specifiquement l'invention a pour but de proposer une construction antisismique de type bioclimatique basse consommation ou passive apportant une solution aux exigences des nouvelles et futurs normes des batiments a energie positive selon la reglementation thermique maison RT2020 et batiment a energie positive BEPOS connues a ce jour. La conception de ce type de batiment est issue de connaissances en architecture navale adaptee au batiment, conception mecanique et composite, permettant d'aboutir au developpement d'un produit manufacturable rationnel et pragmatique repondant a l'evolution du milieu humain du vingt et unieme siecle. L'invention fait appel a plusieurs domaines techniques dont le principal est la construction antisismique, puis la construction bioclimatique, et enfin l'isolation a haute inertie thermique par formation massique de terre en enceinte par talutage geothermique. **Machine translation:** The present invention relates to the field of building construction and bioclimatic habitat fragments Earthquake shaped cluster on a basic structural autonomous cells connected self-supporting, prefabricated wood-frame cabinets and composite encapsulated structural caissons realized by a composite process in air vacuum in rigid or flexible mold by injection or infusion of resin Sourcee preferably organic. Building thermally isolated by a land mass formation providing geothermal resource, the present invention more particularly relates to the field of the building and modular housing stackable and extensible, evolutionary and demountable, in primary or secondary residence, but in individual or collective housing paired or no, gathers in residential area or isolated, a rental or private nature, recreation or commerce or industry and this ideally in energy independence. More specifically the invention aims to propose a seismic construction bioclimatic low energy or passive kind providing a solution to the demands of new and future standards of the buildings has positive energy as thermal regulation RT2020 house and building a positive energy that has known BEPOS day. The design of this type of building is the result of knowledge in naval architecture adapted to the building, mechanical design and composite, to lead to the development of a rational and pragmatic manufacturable product replying to the evolution of the human environment of the twenty-first century. The invention uses several technical areas whose primary is earthquake-resistant and bioclimatic construction, and finally the insulation has high thermal inertia mass training earthen enclosure with sloping Geothermal.

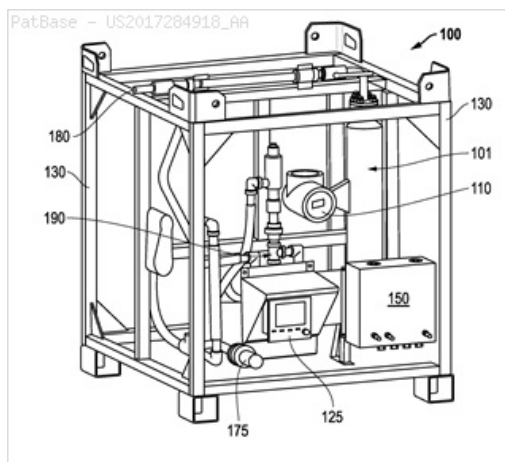


Title: AUTOMATED FLUID MONITORING**Priority:** US20160086444 20160331**Family:**

Publication number	Publication date	Application number	Application date
US2017284918 AA	20171005	US20160086444	20160331

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):(std):** SCHLUMBERGER TECHNOLOGY CORP**Inventor(s):(std):** LEAKE CHRISTOPHER ; PALAZZO KATHERINE ; PARKER ANTHONY SCOTT**International class**
(IPC 8-9): E21B43/26 E21B43/267 E21B47/00 G01N11/04 (Advanced/Invention)**CPC:** G01N11/04 E21B43/26 E21B47/00 E21B43/267 E21B21/062[Classification Explorer](#)**Abstract:**

A method of monitoring characteristics of a viscosified fluid in a substantially continuous manner. Devices and techniques for such methods include use of an in-line **Coriolis** flowmeter to continuously circulate a portion of the viscosified fluid therein for analysis as the fluid may be directed to a blender for combining with a constituent such as proppant for forming a fracturing slurry. Devices and techniques herein allow for real-time monitoring and adjustment of the developing viscosified fluid and/or halting of the fracturing application depending on results of the ongoing monitoring.



Title:

FLOW RATE SIGNALS FOR WIRELESS DOWNHOLE COMMUNICATION

Priority:

WO2016US47501 20160818

Family:

Publication number	Publication date	Application number	Application date
FR3055144 A1	20180223	FR20170056102	20170630
WO18034662 A1	20180222	WO2016US47501	20160818

Probable Assignee:

HALLIBURTON CO

Assignee(s):(std):

HALLIBURTON CO ; HALLIBURTON ENERGY SERVICES INC

Inventor(s):(std):

FRIPP MICHAEL ; FROSELL THOMAS ; MERRON MATTHEW ; WALTON ZACHARY WILLIAM

Inventor(s):

ZACHARY WILLIAM WALTON ; MICHAEL FRIPP ; THOMAS FROSELL ; MATTHEW MERRON

Agent(s):

GEVERS AND ORES; PENNINGTON TAMMY 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 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

International class (IPC 8-9):

E21B21/08 E21B43/12 E21B47/12 E21B47/13 G01V1/48 (Advanced/Invention)

CPC:

E21B47/18 E21B34/14 E21B2034/007

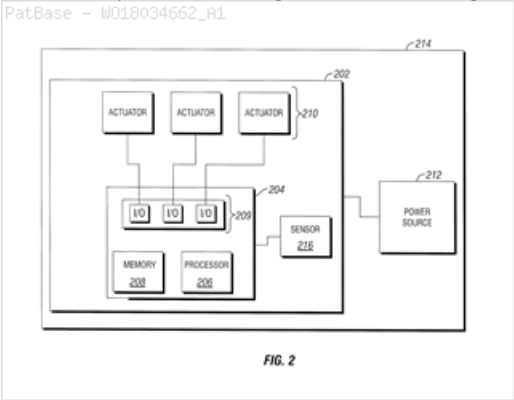
Classification Explorer

Cited documents:

WO16018429 A1, US2014338922 AA, US2013020097 AA, US2012061095 AA, US2007056724 AA,

Abstract:

Methods and systems for using flow rate signals for wireless downhole communication are provided. In one embodiment, the methods comprise: generating a first flow rate signal within a wellbore by altering the flow rate of a first fluid in the wellbore, wherein the first flow rate signal comprises at least two detectable characteristics; detecting the first flow rate signal at a first downhole tool disposed within the wellbore; and actuating the first downhole tool in response to detecting the first flow rate signal.



Title:	PLUNGER LIFT MONITORING VIA A DOWNHOLE WIRELESS NETWORK FIELD																																																																											
Priority:	US20160381330P 20160830		US20160381335P 20160830		US20160381926P 20160831																																																																							
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Probable Assignee:	EXXONMOBIL UPSTREAM RES CO																																																																											
Assignee(s):(std):	BRAGG TIMOTHY R ; BURNS JAMES S ; CLAWSON SCOTT WILLIAM ; DISKO MARK M ; ERTAS MEHMET DENIZ ; EXXONMOBIL UPSTREAM RES CO ; SONG LIMIN ; WALKER KATIE M ; ROMER MICHAEL C ; TOLMAN RANDY C ; MORROW TIMOTHY I ; PASTUSEK PAUL E ; SMITH THOMAS M ; ZHANG YIBING ; WOLF HENRY ALAN																																																																											
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Inventor(s):(std):	BRAGG TIMOTHY R ; BURNS JAMES S ; CLAWSON SCOTT WILLIAM ; DISKO MARK M ; MORROW TIMOTHY I ; ERTAS MEHMET DENIZ ; ZHANG YIBING ; WOLF HENRY ALAN ; SONG LIMIN ; WALKER KATIE M ; ROMER MICHAEL C ; TOLMAN RANDY C ; PASTUSEK PAUL E ; SMITH THOMAS M																																																																											
Agent(s):	JAMES RICK F 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																																																																											
International class (IPC 8-9):	E21B33/12 E21B34/06 E21B41/00 E21B43/12 E21B43/14 E21B47/00 E21B47/01 E21B47/06 E21B47/09 E21B47/10 E21B47/12 E21B47/14 E21B47/16 E21B47/18 E21B49/08 G01F5/00 G01P5/165 G01V1/44 H04B11/00 H04W52/02 H04W72/04 (Advanced/Invention)																																																																											
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[Classification Explorer](#)

Abstract:
A real-time system for monitoring plunger properties in a gas producing well is provided. The system includes a plunger comprising a substantially cylindrical body; at least one sensor disposed along a tubular body; at least one sensor communications node placed along the tubular body and affixed to a wall of the tubular body, the sensor communications node being in electrical communication with the at least one sensor and configured to receive signals therefrom; a topside communications node placed proximate a surface; a plurality of intermediate communications nodes spaced along the tubular body and attached to a wall of the tubular body; wherein the intermediate communications nodes are configured to transmit signals received from the at least one sensor communications node to the topside communications node in substantially a node-to-node arrangement; a receiver at the surface configured to receive signals from the topside communications node; and a plunger **control** system structured and arranged to communicate with the topside communications node. A method of monitoring plunger properties and **controlling** plunger performance, and a hydrocarbon well are also provided.

Title:

GAS SEPARATOR AND DEVICE FOR DETERMINING A THROUGHFLOW OF ONE OR MORE COMPONENTS OF A MULTI-PHASE MEDIUM, IN PARTICULAR OF A NATURAL GAS-WATER MIXTURE

Priority:

DE201610116989 20160909

Family:

Publication number	Publication date	Application number	Application date
DE102016116989 A1	20180315	DE201610116989	20160909
WO18046299 A1	20180315	WO2017EP71222	20170823

Probable Assignee:

ENDRESS AND HAUSER FLOWTEC AG

Assignee(s):(std):

ENDRESS AND HAUSER FLOWTEC AG ; ENDRESSHAUSER FLOWTEC AG ; FLOWTEC AG

Inventor(s):(std):

DRAHM WOLFGANG ; HOECKER RAINER ; HOROBA GUIDO ; ZEISLMEIER HELMUT

Agent(s):

ANDRES ANGELIKA

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

International class (IPC 8-9):

B01D19/00 C10L3/10 G01F1/58 G01F1/66 G01F1/74 G01F1/84 G01F15/08 (Advanced/Invention)

CPC:

G01F15/08 G01F1/74

Classification Explorer

Cited documents:

US6620221 BA, US5507858 A, US3960525 A, US3044236 A, US2610697 A, DE7907208 U,

Abstract:

A gas separator (100) for separating a multi-phase medium (3) comprising at least a gas, in particular in the form of gas bubbles (4), and a liquid (27), wherein the gas separator (100) has a tubular main body (6) with a longitudinal axis (L1), and has an inlet (1) for a gaseous medium, a liquid outlet (16) and a gas outlet (21), wherein the tubular main body (6) has an inlet region (40) and has an outlet region (50), characterized in that the gas separator (100) has, between the inlet region (40) and the outlet region (50), a weir (5) with a guide surface (11) which can be flowed over by the medium (3), with a shallow water region being formed, in such a way that the gas contained in the medium can emerge from the medium in the shallow water region and can be discharged from the gas separator (100) through the gas outlet, and a device for detecting a throughflow of at least one individual component of a multi-phase medium (3).

