

1) Family number: 44339927 (US2010036405A)

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Title: ULTRASONIC DEVICE FOR CUTTING AND COAGULATING WITH STEPPED OUTPUT

Abstract: Source: US2010036405A [EN] Various embodiments are directed to an apparatus, system, and method for driving an end effector coupled to an ultrasonic transducer in a surgical instrument. The method comprises generating a first ultrasonic drive signal by a generator coupled to an ultrasonic drive system, actuating the ultrasonic transducer with the first ultrasonic drive signal for a first period, generating a second ultrasonic drive signal by the generator, and actuating the ultrasonic transducer with the second ultrasonic drive signal for a second period, subsequent to the first period. The first drive signal is different from the second drive signal over the respective first and second periods. The first and second drive signals define a step function waveform over the first and second periods. The apparatus comprises a generator configured to couple to an ultrasonic instrument. The system comprises a generator coupled to an ultrasonic instrument. The ultrasonic instrument comprises an ultrasonic drive system comprising an ultrasonic transducer coupled to a waveguide and an end effector coupled to the waveguide, and wherein the ultrasonic drive system is configured to resonate at a resonant frequency.

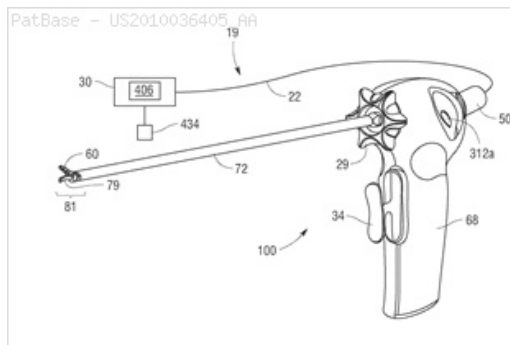
Classifications:

International (IPC 8-9): A61B17/00 A61B17/14 A61B17/22 A61B17/29 A61B17/32 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61H1/00 A61N1/08 A61N7/00 A61N7/02 B06B1/02 G01R31/327 G05B15/02 H01L41/04 H01L41/09 H02N2/00 (Advanced/Invention); A61B17/00 A61B17/29 A61B18/00 A61B18/12 A61B18/14 A61B5/00 A61B5/053 (Advanced/Non-invention); A61B17/32 (Core/Invention); A61B17/00 (Core/Non-invention); A61B (Subclass/Invention)

CPC: A61B2018/1273 A61B2017/00199 A61B2018/00172 A61B5/0538 A61B5/6847 A61B2018/0016 A61B2018/00928 A61B2018/00988 H01H1/00 H01H2239/012 H03M11/24 A61B18/1445 A61B2017/00477 A61B2017/2933 A61B2018/00714 A61B2018/00791 H01R2201/12 A61B17/320068 A61B2018/00601 A61B2018/0063 A61B2018/00803 A61B5/053 A61B5/4836 A61B2017/00026 A61B2017/00176 A61B2018/00303 A61B2018/00875 B06B1/0284 B06B2201/76 G05B15/02 H01L41/042 A61B18/1206 A61B18/1233 A61B2018/00684 A61B2018/00702 A61B2018/0072 A61B2018/00732 A61B2018/00767 A61B2018/00827 A61B2018/00892 A61N1/08 A61N7/02 A61B2018/00005 A61B2017/00084 A61B2017/00203 A61B2018/00845 A61B2018/00589 A61B18/14 A61B2017/00146 A61B17/320092 A61N7/00 A61B2017/00017 A61B2017/00482

European: A61B17/32U8 A61B18/12G A61B5/053N A61B5/68D1 B06B1/02D3D3 B06B1/06C3B K61B17/00C1C K61B17/00C4P K61B17/00C4P2B K61B17/00K K61B17/00K4 K61B17/00V K61B17/29J6C K61B17/29J6C2 K61B17/29J6C4 K61B18/00B10E K61B18/00B18A K61B18/00H12A K61B18/00H12R K61B18/00H4 K61B18/00H4U K61B18/00X K61B18/12G6 K61B18/14 K61B18/14F2 K61B5/053 K61B5/48J L06B201/76

US: 1/1 310/315 310/316.01 310/317 310/317S 310/323.01 439/39 601/2 601/2P 606/142 606/167 606/169 606/169P 606/169S 606/170 606/28 606/33 606/33S 606/34 606/34P 606/34S 606/38 606/39 606/39P 606/41 606/41S 606/42



Family:

Publication number	Publication date	Application number	Application date
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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 KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 35071654 (US2009236144A)

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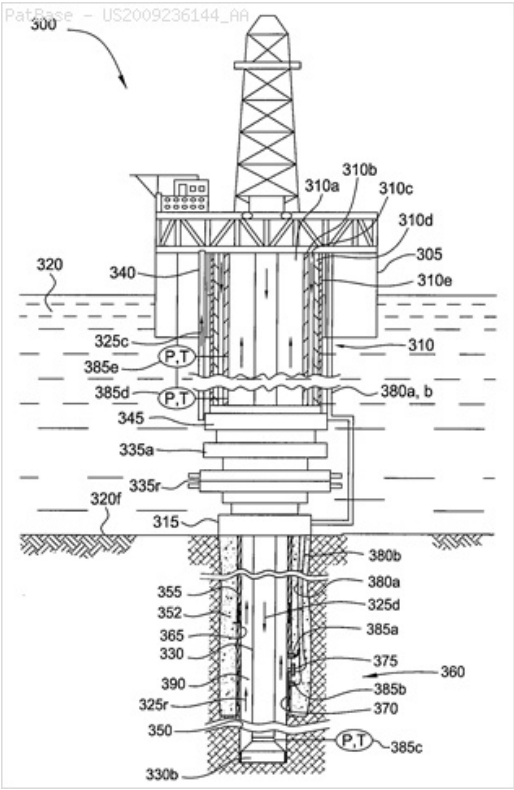
Title: MANAGED PRESSURE AND/OR TEMPERATURE DRILLING SYSTEM AND METHOD

Abstract: Source: US2009236144A [EN] The present invention relates to a managed pressure and/or temperature drilling system (300) and method. In one embodiment, a method for drilling a wellbore into a gas hydrates formation is disclosed. The method includes drilling the wellbore into the gas hydrates formation; returning gas hydrates cuttings to a surface of the wellbore and/or a drilling rig while controlling a temperature and/or a pressure of the cuttings to prevent or control disassociation of the hydrates cuttings.

Classifications:

International (IPC 8-9): E21B17/01 E21B19/00 E21B21/01
E21B21/06 E21B21/08 E21B21/10 E21B21/12 E21B23/00 E21B29/06
E21B33/035 E21B33/12 E21B36/00 E21B41/00 E21B43/10
E21B43/11 E21B47/00 E21B47/06 E21B47/12 E21B7/00 E21B7/06
E21B7/12 (Advanced/Invention);
E21B21/00 E21B43/01 (Advanced/Non-invention);
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CPC: E21B21/06 E21B21/066 E21B41/00 E21B41/005 E21B47/065
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US: 166/267 166/272.1 166/297 166/302 166/356 166/358 166/369
166/381 166/386 175/17 175/40 175/5 175/61 175/65



Family:

Publication number	Publication date	Application number	Application date
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Priority:

CA20072641596 20070209 CA20072734546 20070209 US20070278692 20070209
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WO2007US61929 20070209

Probable Assignee: WEATHERFORD TECHNOLOGY HOLDINGS LLC

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

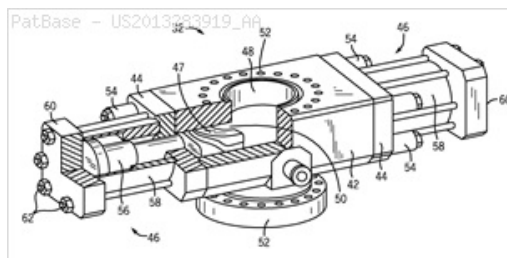
3) Family number: 55051387 (US2013283919A) © PatBase

Title: POSITION MONITORING SYSTEM AND METHOD

Abstract: Source: US2013283919A [EN] An ultrasonic position sensing system is disclosed. In one embodiment, the system includes an ultrasonic sensor configured to monitor the position of a device. The system also includes ranging logic. The sensor is controlled by the logic to direct an ultrasonic pulse toward the device. The logic is configured to compute the transit time and the velocity of the ultrasonic pulse. Based on these parameters, the logic computes the path length between the sensor and the device, which corresponds to the location of the device relative to the location of the sensor. In further embodiments, the ultrasonic positioning system may include multiple sensors in communication with the ranging logic for monitoring multiple devices.

Classifications:**International (IPC 8-9):** E21B33/035 E21B33/06 E21B47/09

G01F1/66 G01N29/00 (Advanced/Invention)

CPC: E21B33/063 E21B33/06 E21B33/0355 E21B47/091**US:** 1/1 73/632**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

US20120457810 20120427 WO2013US37828 20130423

Probable Assignee: CAMERON INT CORP**Assignee(s):** (std): AUGENSTEIN DONALD ROY ; CAMERON INT CORP ; COONROD DONALD SCOTT ; GOTTLIEB EMANUEL JOHN**Inventor(s):** (std): AUGENSTEIN DONALD ROY ; COONROD DONALD SCOTT ; DONALD ROY AUGENSTEIN ; DONALD ROY GENSTEIN ; DONALD SCOTT COONROD ; EMANUEL JOHN GOTTLIEB ; GOTTLIEB EMANUEL JOHN**Agent(s):** EUBANKS PLLC; EUBANKS IV L LEE**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**4) Family number: 55051392 (US2013283917A)**

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Title: SYSTEM AND METHOD FOR POSITION MONITORING USING ULTRASONIC SENSOR

Abstract: Source: US2013283917A [EN] An ultrasonic position sensing system is disclosed. In one embodiment, the system includes an ultrasonic sensor configured to monitor the position of a device. The system also includes ranging logic. The sensor is controlled by the logic to direct an ultrasonic pulse toward the device. The logic is configured to compute the transit time and the velocity of the ultrasonic pulse. Based on these parameters, the logic computes the path length between the sensor and the device, which corresponds to the location of the device relative to the location of the sensor. In further embodiments, the ultrasonic positioning system may include multiple sensors in communication with the ranging logic for monitoring multiple devices.

Classifications:**International (IPC 8-9):** E21B33/035 E21B33/06 E21B33/064

E21B34/16 E21B47/06 G01H5/00 G01K13/00 G01K7/16 G01L1/00 G01N29/22 G01S11/14 G01S15/10 G01S15/87 G01S15/88 G01S7/52 G01S7/521 G01S7/539 G01S7/62 G01V11/00

G01V13/00 (Advanced/Invention)

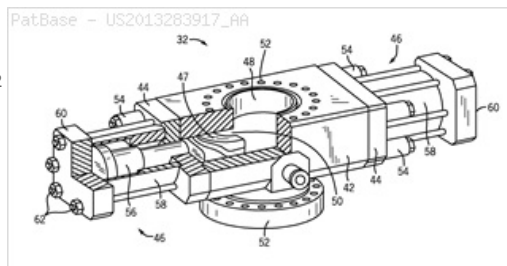
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G01S11/14 G01L1/00 G01S7/52006 G01S7/521 G01S7/539

G01S7/62 G01S15/101 G01S15/87 G01S15/88 G01H5/00

E21B33/064 E21B33/061 G01S7/52004 E21B34/16 E21B33/0355

E21B33/035 E21B47/06 G01V11/00

US: 1/1 374/185 374/E7.018 73/152.51 73/597**Family:**

Publication number	Publication date	Application number	Application date
BR112014026124 A2	20170627	BR20141126124	20130423
GB201417662 A0	20141119	GB20140017662	20130423
GB201621664 A0	20170201	GB20160021664	20150708
GB2515935 A1	20150107	GB20140017662	20130423
GB2515935 B2	20151216	GB20140017662	20130423
GB2542300 A1	20170315	GB20160021664	20150708
NO20141133 A	20141111	NO20140001133	20140919
NO20162064 A	20161227	NO20160002064	20161227
SG11201405700W A1	20141127	SG20141105700	20130423
US2013283917 AA	20131031	US20120457871	20120427
US2015007651 AA	20150108	US20140330311	20140714
US9187974 BB	20151117	US20120457871	20120427
US9804039 BB	20171031	US20140330311	20140714
WO13163213 A1	20131031	WO2013US37836	20130423
WO16010779 A1	20160121	WO2015US39482	20150708

Priority:

US20120457871 20120427 US20140330311 20140714 WO2013US37836 20130423

WO2015US39482 20150708

Probable Assignee: CAMERON INT CORP

Assignee(s): (std): AUGENSTEIN DONALD ROY ; CAMERON INT CORP ; COONROD DONALD SCOTT ; GOTTLIEB EMANUEL JOHN

Assignee(s): COOPER CAMERON CORP

Inventor(s): (std): DONALD ROY GENSTEIN ; DONALD S COONROD ; DONALD SCOTT COONROD ; EMANUEL GOTTLIEB ; EMANUEL JOHN GOTTLIEB ; GOTTLIEB EMANUEL ; GOTTLIEB EMANUEL JOHN ; REYES III SALVADOR ; SALVADOR REYES III ; AUGENSTEIN DONALD ; AUGENSTEIN DONALD ROY ; COONROD DONALD ; COONROD DONALD SCOTT ; DONALD AUGENSTEIN

Inventor(s): DONALD ROY AUGENSTEIN

Agent(s): EUBANKS PLLC; CHAMBERLAIN HRDLICKA; EUBANKS IV LEE L; ROSE COLLIN A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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

5) Family number: 12295268 (DE19831519A1)

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Title: Packaging unit, especially for a disposable element used to analyze human or animal body fluids, comprises an indicator for indicating improper storage of the analysis element in a primary packaging

Abstract: A packaging unit comprises an indicator element for indicating improper storage of a disposable analysis element (6) stored in a primary packaging (2). An analysis element packaging unit comprises a disposable analysis element (6), with a reagent-containing test region for analytical determination of a constituent of a liquid sample, and a primary packaging (2) for storing the analysis element between production and use. The unit has an indicator element which changes in accordance with the storage conditions in the primary packaging in order to indicate improper storage. Preferred Features: The primary packaging (2) may be a foil package containing an individual analysis element (6) or a resealable container containing several analysis elements (6). The indicator element is (a) a temperature or temperature-time indicator which changes in accordance with the temperature or duration of elevated temperature in the interior (5) of the primary packaging; or (b) a humidity indicator which changes in accordance with the humidity in the interior (5) of the primary packaging. The indicator change may be reversible or irreversible. The primary packaging may contain a desiccant in a compartment separated from the rest of the interior (5) by a water vapor permeable separator (17), in which case the indicator element may be provided on the separator, may comprise the separator or may be provided in the desiccant. Alternatively, the indicator element may be positioned on the analysis element (6). The indicator element comprises an indicator substance which undergoes a phase or chemical state change and which is impregnated in or coated on a support.

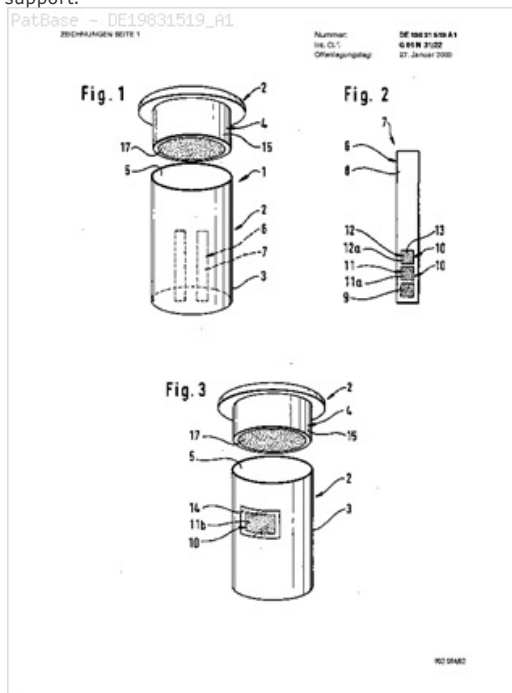
Classifications:

International (IPC 8-9): B01L99/00 B65D79/02 (Advanced/Invention); G01N37/00 (Advanced/Non-invention)

International (IPC 1-7): B01L9/00 G01K13/00 G01N31/22 G01N33/48

CPC: B01L99/00 B65D79/02

European: B01L99/00 B65D79/02



Family:

Publication number	Publication date	Application number	Application date
DE19831519 A1	20000127	DE19981031519	19980714
DE19831519 C2	20020117	DE19981031519	19980714

Priority:

DE19981031519 19980714

Probable Assignee: ROCHE DIAGNOSTICS GMBH

Assignee(s): (std): ROCHE DIAGNOSTICS GMBH

Inventor(s): (std): REISER WOLFGANG ; KOHL JOACHIM ; BAINCZYK GREGOR

6) Family number: 40494360 (WO07117123A1)

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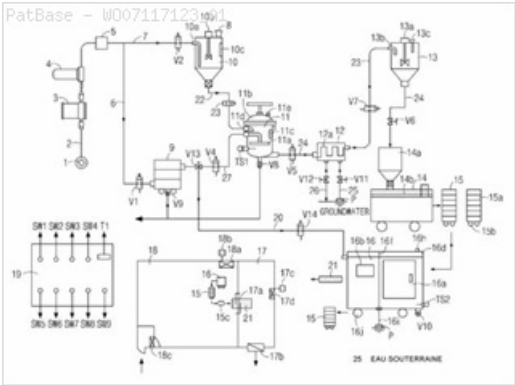
Title: APPARATUS AND METHOD FOR MANUFACTURING LONG TERM PRESERVING BIOACTIVE PACKED WHOLE BEAN CURD

Abstract: Provided is an apparatus for manufacturing packed whole bean curd having bioactive substances and preserved for a long time. The apparatus includes: a first mixing basin (10); a far-infrared ray steaming basin (11); a once-through

type boiler (9); a plate type cooler (12); a second high-speed homo-mixer blending basin (13); a filling-packing machine (14); a hand truck (15); a steam multi-level pressure-type molding, sterilizing, and cooling apparatus (16); a conveyer belt (21); and a refrigeration reservoir (17) for storing and preserving the whole bean curd transferred through the conveyer belt (21).

Classifications:

International (IPC 8-9): A23L1/20 A23L11/00 (Advanced/Invention); A23L1/20 (Core/Invention)
CPC: A23L11/07 A23C20/025
European: A23C20/02B A23L1/20D4



Family:

Publication number	Publication date	Application number	Application date
KR200421592 Y1	20060713	KR20060009695U	20060412
WO07117123 A1	20071018	WO2007KR01766	20070411

Priority:

KR20060009695U 20060412

Probable Assignee: LEE CHANG YOUL

Assignee(s): (std): LEE CHANG YOUL ; LEE DONG KWON ; LEE JIN WOO

Inventor(s): (std): LEE CHANG YOUL ; LEE DONG KWON ; LEE JIN WOO

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

7) Family number: 33531540 (US3918237A)

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Title: MACHINE FOR THE MANUFACTURE OF FILLED AND SEALED CONTAINERS

Abstract: Source: US3918237A [EN] A machine for the manufacture of essentially boxlike packing containers wherein a first continuous web of a foldable material is drawn from a supply roll and folded to establish a series of connected U-shaped sections which are received in moulds, and wherein a second continuous web of a foldable material likewise drawn from a supply roll and folded into a U-shaped configuration is joined to the series of U-shaped sections established by the first web in such manner as to complete the wall structure of the container. Filling takes place prior to completion of sealing of the two webs to one another and thereafter the string of formed, filled and sealed containers are separated by a cutting action between the sections.

Classifications:

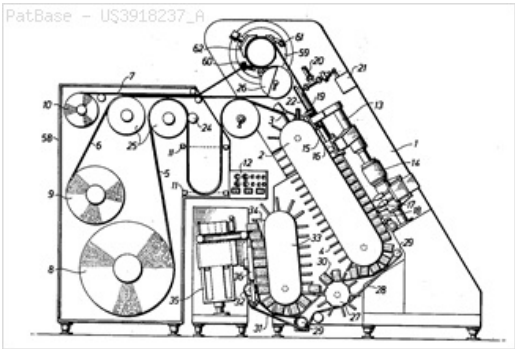
International (IPC 8-9): B29C53/00 B29C61/00 B29C65/08 B29D22/00 B31B17/00 B65B1/02 B65B43/10 B65B47/00 B65B43/00 B65B47/00 B65B61/18 B65B9/04 (Advanced/Invention); B29C65/74 (Advanced/Non-invention); B29C53/00 B29C61/00 B29C65/08 B29D22/00 B31B17/00 B65B1/02 B65B43/00 B65B47/00 B65B61/18 B65B9/00 (Core/Invention); B29C65/74 (Core/Non-invention)

International (IPC 1-7): B29C24/00 B29C65/08 B31B1/00 B31B1/26 B31B17/00 B31B3/26 B31B3/60 B65B1/02 B65B3/02 B65B43/00 B65B43/08 B65B43/10 B65B47/00 B65B47/04 B65B47/06 B65B51/10 B65B51/20 B65B57/00 B65B61/18 B65B9/02 B65B9/04 B65D75/28 B65D75/40

CPC: B29C66/81465 B29C65/086 B29C66/83511 B29C65/08 B29C65/7443 B29C66/83531 B29K2711/123 B29L2009/00 B65B9/042 B65B43/10 B65B47/06 B29C66/83541 B29C66/73921 B29C66/849 B29C66/4326 B29C66/54 B29C66/71 B29C66/8221 B29C66/8222 B29C66/82263 B29C66/82265 B29C66/8227 B29C66/8242 B29C66/112 B31B2105/0025 B29C66/72321 B29C66/72328 B29C66/114

European: B29C65/08 B29C66/83511 B29C66/83531 B31B17/00 B65B43/10 B65B47/06 B65B9/04B L29C65/7443 L29C66/81463 L29C66/83541 L29C66/849 L29K711/12B L29L9/00 L31B217/08D

US: 53/133 53/133.1 53/133.3 53/456 53/579



Family:

Publication number	Publication date	Application number	Application date
AR200758 A1	19741213	AR19740251991	19740118
AT347351 B	19781227	AT19740000429	19740118
AT42974 A	19780415	AT19740000429	19740118
AU197464563 A1	19750717	AU19740064563	19740116
BE809941 A	19740516	BE19740139986	19740118
BR7400339 A0	19750826	BR19740000339	19740117
CA1001941 A1	19761221	CA19740190494	19740118
CH562130 A	19750530	CH19730000696	19730118
CS204979 B2	19810430	CS19740000341	19740118
DD108702 C	19741005	DD19740176068	19740117
DE2402137 A1	19740801	DE19742402137	19740117
DE2402137 B2	19771103	DE19742402137	19740117
DE2402137 C3	19780622	DE19742402137	19740117

DK143545 B	19810907	DK19740000189	19740115
DK143545 C	19820208	DK19740000189	19740115
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FI56345 B	19790928	FI19740000148	19740118
FI56345 C	19800110	FI19740000148	19740118
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FR2214585 B1	19781013	FR19740001574	19740117
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GB1454465 A	19761103	GB19750051917	19740111
GB1454466 A	19761103	GB19750051918	19740111
GB1454467 A	19761103	GB19750051919	19740111
GB1454468 A	19761103	GB19750051920	19740111
IE40497 B	19790620	IE19740000068	19740111
IE40497 L	19740718	IE19740000068	19740111
IN142495 A	19770723	IN1974CA02076	19740918
IT1009571 A	19761220	IT19740019585	19740118
JP1099598 C3	19820618	JP19740008466	19740118
JP50053192 A2	19750512	JP19740008466	19740118
JP56043926 B4	19811016	JP19740008466	19740118
KE2783 A	19771209	KE19770002783	19771019
KE2784 A	19780120	KE19770002784	19771019
KE2785 A	19780120	KE19770002785	19771019
KE2786 A	19771209	KE19770002786	19771019
KE2787 A	19771209	KE19770002787	19771019
NL175278 B	19840516	NL19740000738	19740118
NL175278 C	19841016	NL19740000738	19740118
NL7400738 A	19740722	NL19740000738	19740118
NO138522 B	19780612	NO19740000107	19740115
NO138522 C	19780920	NO19740000107	19740115
SE410787 B	19791105	SE19740000444	19740114
SE410787 C	19800214	SE19740000444	19740114
SU662000 D	19790505	SU19742000001	19740118
US3918237 A	19751111	US19740433789	19740116
YU12674 A	19820618	YU19740000126	19740117
YU37092 B	19840831	YU19740000126	19740117
ZA7400390 A	19741127	ZA19740000390	19740118

Priority:

CH19730000696 19730118

Probable Assignee: TETRA PAK AB

Assignee(s): (std): TERA PAK DEV S A ; TETRA PAK DEV ; TETRA PAK DEV SA ; TETRA PAK INT A B ; TETRA PAK INT SA ; TETRA PAK INTERNATIONAL AB ; TETRA PAK INTERNATIONAL AKTIEBOLAG TE LUND ZWEDEN ; TETRA PAK INT AB ; TETRA PAK DEVELOPPEMENT SA ; TETRA PAK DEVELOPPEMENT SA CH ; TETRA PAK DEVEOOPMENT ; TETRA PAK INT ; TETRA PAK INTERNAT A B ; TETRA PAK INTERNATIONAL SA ; TETRA PAK INTERNEJSHNL AB FA

Assignee(s): TETRA PAK INTERNEJSHNL AB FIRMA ; TETRA PAK INTERNATIONAL AB LUND SCHWEDEN ; TETRA PAK INTERNEJSHNL AB ; TETRA PAK INT LUND AB ; TETRA PAK DEVELOPPEMENTS ; TETRA PAK INTERNATIONAL A B ; TETRA PAK INT AKTIEBOLAG TE LUND ZWEDEN ; TETRA PAK INT AB LUND SCHWEDEN ; TETRA PAK DEVELOPPEMENT S A ; OLSEN JAN ERIK ; SOUKUP FRANZ ; TETRA PAK DEVELOPPEMENT S A LAUSANNE ; TETRA PAK DEVELOPPEMENT CH SA ; TETRA PAK DEVELOPPEMENT S A LAUSANNE SCHWEIZ ; TETRA PAK AB ; TERA PAK DEVELOPPEMENT S A ; STARK SVEN OS ; TETRA PAK DEVELOPMENT AB ; TETRA PAK DEVELOPMENT SA

Inventor(s): (std): F SOUKUP ; FRANTS SUKUP SW ; FRANZ SOUKUP ; J E OLSEN ; JAN ERIK OLSEN ; OLSEN J ; OLSEN J E ; OLSEN JAN ERIK ; OLSEN JE ; OLSEN ZHAN ERIK ; S O S STARK ; SOEREN S ; SOEREN STARK SVEN OLOF ; SOUKUP F ; SOUKUP FRANZ ; STARK S ; STARK S O S ; STARK SOS ; STARK SVEN LOLF SOREN ; STARK SVEN O S ; STARK SVEN OLOF SEREN ; STARK SVEN OLOF SOEREN ; STARK SVEN OLOF SOREN ; STARK SVEN OS ; SUKUP FRANTS ; SVEN LOLF SOREN STARK ; SVEN OLOF SEREN STARK SW ; ZHAN ERIK OLSEN SW

Inventor(s): SVEN OLOF SOEREN STARK ; STARK SVEN OLOF SOEREN RYDSGARD ; SOUKUP FRANZ CH ; SOUKUP FRANZ MALMOE ; OLSEN JAN ERIK CH ; OLSEN JAN ERIK LUND

8) Family number: 42960024 (US2009152006A)

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Title: DUAL STRIPPER RUBBER CARTRIDGE WITH LEAK DETECTION

Abstract: Source: US2009152006A [EN] A rotating control drilling device includes an upper sealing element and a lower sealing element positioned around a drillstring and forming a chamber therebetween and a leak detection device. The leak detection device includes a piston in communication with the chamber, a magnet disc disposed on an end of the piston, and a plurality of magnetic sensors arranged in a magnetic sensing ring around the rotating control drilling device. Upon reaching a selected critical pressure in the chamber, a spring is configured to compress as the magnet disc is positioned proximate to the plurality of magnetic sensors. Furthermore, a method to detect leaks in a rotating control device includes positioning a leak detection device in communication with a chamber located between upper and lower sealing elements and signaling with the leak detection device when a pressure of the chamber exceeds a selected critical pressure.

Classifications:

International (IPC 8-9): E21B10/00 E21B21/08 E21B33/068

E21B33/08 E21B47/00 E21B47/06 G01M3/26

G01M3/28 (Advanced/Invention);

E21B10/00 E21B21/00 E21B47/00 E21B47/06 G01M3/26

G01M3/28 (Core/Invention)

CPC: E21B21/08 E21B47/1025 E21B33/085 E21B33/068

European: E21B21/08 E21B33/068 E21B33/08B E21B47/10R

US: 166/113 175/48 277/324 340/605 73/152.21 73/152.22

73/152.51 73/40.50RP 73/40.5R

Publication number	Publication date	Application number	Application date
CA2646715 AA	20090612	CA20082646715	20081211
CA2646715 C	20121002	CA20082646715	20081211
GB200822714 A0	20090121	GB20080022714	20081212
GB201208459 A0	20120627	GB20120008459	20081212
GB2456890 A1	20090805	GB20080022714	20081212
GB2456890 A8	20130424	GB20080022714	20081212
GB2456890 B2	20120711	GB20080022714	20081212
GB2456890 B8	20130424	GB20080022714	20081212
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GB2487874 A8	20130424	GB20120008459	20081212
GB2487874 B2	20120912	GB20120008459	20081212
GB2487874 B8	20130424	GB20120008459	20081212
NO20085148 A	20090615	NO20080005148	20081210
NO20085148 L	20090615	NO20080005148	20081210
US2009152006 AA	20090618	US20070954266	20071212
US2010269570 AA	20101028	US20100831865	20100707
US7802635 BB	20100928	US20070954266	20071212
US7950474 BB	20110531	US20100831865	20100707

Agent(s): BORDEN LADNER GERVAIS LLP; OSHA LIANG LLP SMITH; OSHA LIANG LLP

PatBase PDF Export - Page: 9 02/04/2018

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EP2647579 B1	20180110	EP20130157790	20130305
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JP6210701 B2	20171011	JP20130069461	20130328
US2013255572 AA	20131003	US20130855476	20130402
US2016184845 AA	20160630	US20150982919	20151229
US9254955 BB	20160209	US20130855476	20130402
US9925548 BB	20180327	US20150982919	20151229

Priority:

DE201210102885 20120403 US20130855476 20130402 US20150982919 20151229

Probable Assignee: MASCHF REINHAUSEN GMBH

Assignee(s): (std): REINHAUSEN MASCHF SCHEUBECK ; REINHAUSEN PLASMA GMBH

Assignee(s): MASCHF REINHAUSEN GMBH

Inventor(s): (std): ARIF DEMIRCI ; DEMIRCI ARIF ; NETTESHEIM STEFAN

Agent(s): REICHERT WERNER FRANZ; REICHERT AND LINDNER PARTNERSCHAFT PATENTANWAELTE; REICHERT AND LINDNER PARTNERSCHAFT PATENTANWAELTE; ISONO INT PATENT OFFICE PC; SIMPSON AND SIMPSON PLLC

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

10) Family number: 51120129 (US2013233562A)

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Title: BLOWOUT PREVENTER ASSEMBLY

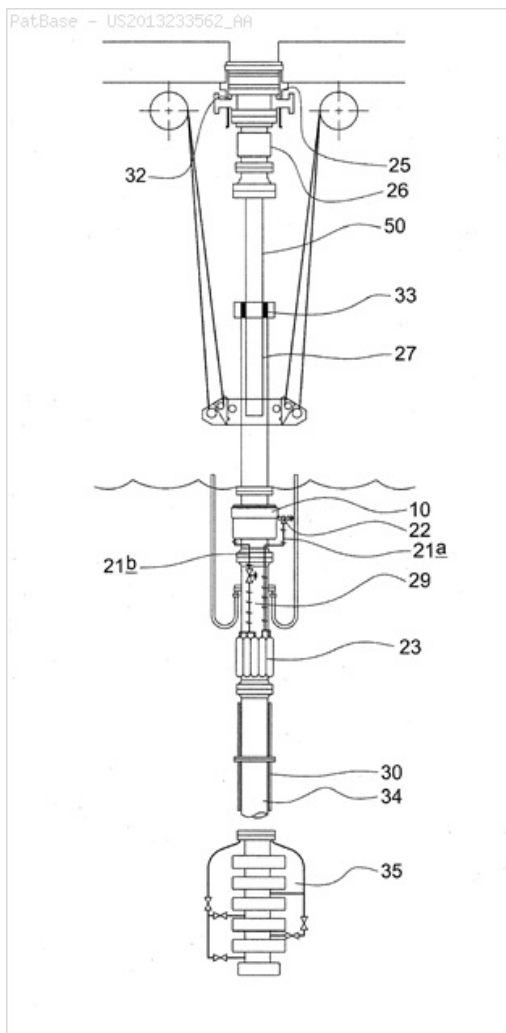
Abstract: Source: US2013233562A [EN] A blowout preventer assembly comprising a blowout preventer and control apparatus, the blowout preventer comprising a housing a sealing element and a fluid pressure operated actuator mounted in the housing, the actuator 18 dividing the interior of the housing into two chambers, namely an open chamber and a close chamber, substantially preventing flow of fluid between the two chambers, and being movable, by means of the supply of pressurised fluid to the close chamber, to urge the sealing element into sealing engagement with a drill pipe extending through the blow out preventer, the control apparatus including a close line which extends from the exterior of the housing to the close chamber, and a source of pressurised fluid which is connected to the close line, wherein the source of pressurised fluid is located adjacent to the housing.

Classifications:

International (IPC 8-9): E21B17/01 E21B17/03 E21B17/07 E21B19/00 E21B19/09 E21B21/00 E21B21/01 E21B21/08 E21B21/14 E21B33/035 E21B33/038 E21B33/06 E21B33/064 E21B34/04 E21B44/00 E21B47/06 E21B7/00 E21B7/12 (Advanced/Invention); E21B21/00 (Core/Invention)

CPC: E21B33/06 E21B19/006 E21B33/038 E21B34/045 E21B47/06 E21B44/00 E21B21/001 E21B34/04 E21B17/01 E21B21/14 E21B21/08 E21B33/064 E21B33/0355

US: 166/335 166/336 166/345 166/357 166/363 166/86.2 175/218 175/40 175/5



Family:

Publication number	Publication date	Application number	Application date
AP201408037 A0	20141031	AP20140008037	20130410
AU2013231276 AA	20130919	AU20130231276	20130312
AU2013231276 BB	20161006	AU20130231276	20130312
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CN104160108 A	20141119	CN201380013609	20130312
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Priority:

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WO2013EP54999	20130312	US20130384619	20130312		

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

11) Family number: 53751011 (US2013126157A)

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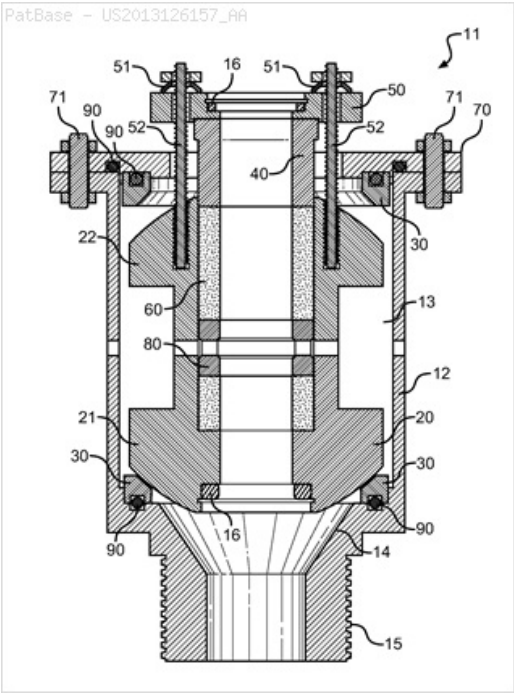
Title: SELF-ALIGNING AND LEAK MONITORING STUFFING BOX

Abstract: Source: US2013126157A [EN] Disclosed is an improved stuffing box that is adapted to articulate within a housing body to accommodate a polished rod misalignment, maintain compression of a graphite stuffing material, prevent cross contamination of debris through the stuffing box interior and provide a means to monitor for fluid leaks. The device comprises a housing having an internally supported stuffing box, where the stuffing box is supported along an angular seat within the housing that allows reorientation of the box as the polished rod passes therethrough. A bonnet applies continuous load onto a gland pusher element using spring washers to compress the stuffing material through discontinuous heat cycles, while an upper and lower wiper element clean the polished rod before entering the stuffing box interior. A lantern ring within the stuffing box provides a venting aperture into the interior of the housing, whereby a pressure indicator monitors for fluid leaks during operation.

Classifications:

International (IPC 8-9): E21B33/08 (Advanced/Invention)

CPC: E21B33/08



Family:

Publication number	Publication date	Application number	Application date
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