

Search history

Search 1: WELL AND COILED TUBING AND WIRE AND LOGGING (Results 1631)

1) Family number: 30941000 (US2004216892A)

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Title: DRILLING WITH CASING LATCH

Abstract: A latch assembly, and methods of using the latch assembly, for use with a bottom hole assembly (BHA) and a tubular, are provided. In one embodiment, the latch assembly is disposable within the tubular, configured to be rotationally and axially coupled to the tubular. In one aspect of the embodiment, latch assembly is configured to be released from the tubular by applying a tensile force to the latch assembly. The latch the latch assembly may comprise: one or more sleds disposed within one or more respective slots formed along at least a portion of a locking mandrel; and one or more retractable axial drag blocks configured to engage a matching axial profile disposed in the tubular, wherein each axial drag block is coupled to the respective sled with one or more biasing members; and the locking mandrel actuatable between a first position and a second position and preventing retraction of the axial drag blocks when actuated to the second position. The latch assembly may also comprise a drag block body having a bore therethrough; and one or more retractable torsional drag blocks configured to engage a matching torsional profile disposed in the tubular, wherein each torsional drag block is coupled to the drag block body with a biasing member.

Classifications:

International (IPC 8-9): E21B10/64 E21B17/00 E21B17/046

E21B23/02 E21B33/128 E21B7/20 (Advanced/Invention)

International (IPC 1-7): E21B10/64 E21B17/03 E21B17/046

E21B23/02 E21B33/12 E21B33/128 E21B7/20

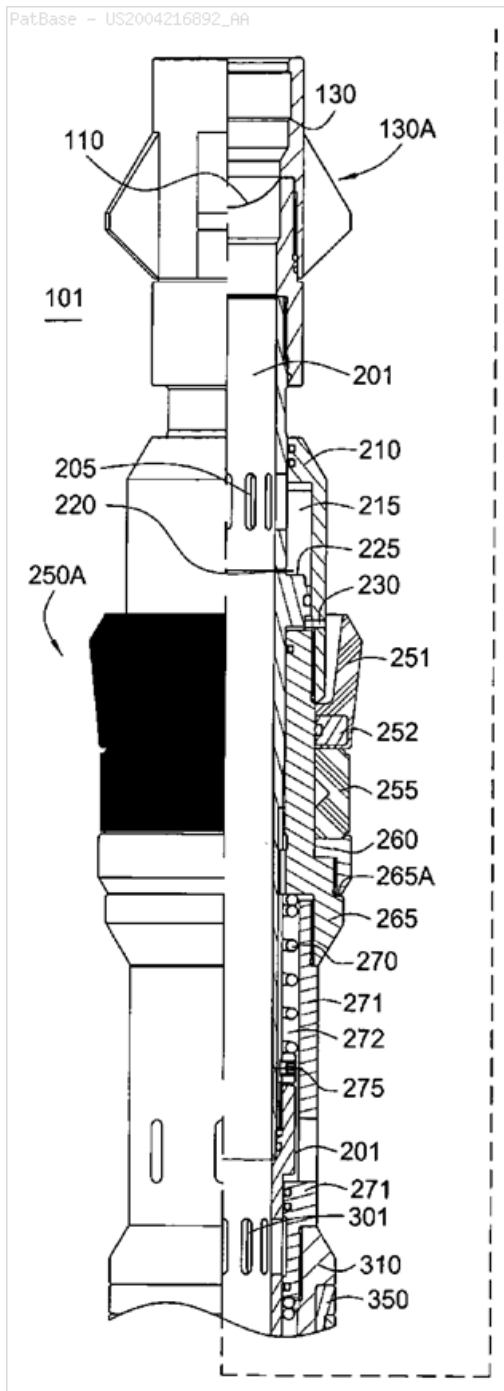
CPC: E21B17/046 E21B7/20 E21B10/64 E21B23/02 E21B33/128

European: E21B10/64 E21B17/046 E21B23/02 E21B33/128

E21B7/20

US: 166/120 166/120S 166/242.6 166/242.600S 166/380 166/387

166/387S

**Family:**

Publication number	Publication date	Application number	Application date
CA2517978 AA	20050902	CA20042517978	20040305
CA2517978 C	20090714	CA20042517978	20040305
GB200517985 A0	20051012	GB20050017985	20040305
GB2416360 A1	20060125	GB20050017985	20040305
GB2416360 B2	20070822	GB20050017985	20040305
NO20054337 A	20051013	NO20050004337	20050920
NO20054337 A0	20050920	NO20050004337	20050920
NO20054337 L	20051013	NO20050004337	20050920
NO327517 B1	20090727	NO20050004337	20050920
US2004216892 AA	20041104	US20040795214	20040305
US7360594 BB	20080422	US20040795214	20040305
WO04079151 A2	20040916	WO2004US06748	20040305
WO04079151 A3	20050120	WO2004US06748	20040305

Priority:

US20030452200P 20030305

US20040795214 20040305

WO2004US06748 20040305

Probable Assignee: WEATHERFORD TECHNOLOGY HOLDINGS LLC**Assignee(s):** (std): GIROUX RICHARD L ; ODELL AL ; THOMPSON GARY ; WEATHERFORD LAMB ; ODELL ALBERT C II**Assignee(s):** DEUTSCHE BANK TRUST CO AMERICAS ADMINISTRATIVE AGENT AS ; WEATHERFORD LAMB INC ; WEATHERFORD LAMB INC 600-515 POST OAK BOULEVARD HOUSTON TX 77027 US ; WEATHERFORD TECHNOLOGY HOLDINGS LLC ; WEATHERFORD TECHNOLOGY HOLDINGS LLC 2000 ST. JAMES PL. HOUSTON TX 77056 US ; WELLS FARGO BANK NATIONAL ASSOCIATION AGENT AS ; WEATHERFORD AND LAMB INC**Inventor(s):** (std): ODELL AL ; THOMPSON GARY ; GIROUX RICHARD L ; GIROUX RICHARD LEE ; ODELL ALBERT C ;

Inventor(s): ODELL ALBERT C II
GARY THOMPSON ; AL ODELL ; GIROUX RICHARD LUS ; THOMPSON GARYUS ; RICHARD L GIROUX ; ODELL II ALBERT C ; ODELL ALUS ; ODELL III ALBERT C ; RICHARD LEE GIROUX

Agent(s): DEETH WILLIAMS WALL LLP; PATTERSON AND SHERIDAN LLP

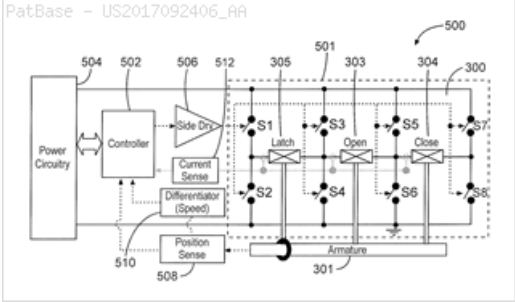
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT HE HH HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO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

2) Family number: 62829001 (US2017092406A) © PatBase

Title: DOWNHOLE LINEAR SOLENOID ACTUATOR SYSTEM

Abstract: An example apparatus may include a solenoid actuator with a solenoid coil and a corresponding solenoid armature. A plurality of switches may be coupled to the solenoid coil. A controller may be electrically coupled to the plurality of switches, the controller having a processor and a memory device coupled to the processor. The memory device may contain a set of instructions that, when executed by the processor cause the processor to receive a feedback signal corresponding to a condition of at least one of the solenoid coil and the solenoid armature; and generate a control signal to alter the state of at least one of the plurality of switches based, at least in part, on the received feedback signal.

Classifications:
International (IPC 8-9): E21B34/06 E21B34/16 E21B41/00 E21B43/12 E21B47/00 E21B47/12 E21B47/18 H01F7/00 H01F7/06 H01F7/08 H01F7/16 H01F7/18 H01H47/00 (Advanced/Invention)
International (IPC 1-7): E21B34/06 E21B41/00
CPC: H01F7/064 H01F7/1607 H01F7/18 E21B34/06 E21B34/066 E21B34/16 E21B47/18 E21B47/22 E21B47/185
US: 1/1 361/166 361/189



Family:

Publication number	Publication date	Application number	Application date
AR102586 AA	20170308	AR2015P103639	20151106
AR102641 AA	20170315	AR2015P103700	20151112
AU2014415650 AA	20170427	AU20140415650	20141229
AU2014415650 BB	20180524	AU20140415650	20141229
AU2015372590 AA	20170504	AU20150372590	20150915
AU2015372590 BB	20180628	AU20150372590	20150915
BR112017007904 A2	20180123	BR20171107904	20141229
BR112017007904 B1	20191029	BR20171107904	20141229
BR112017007906 A2	20180123	BR20171107906	20150915
CA2966784 AA	20170503	CA20142966784	20141229
CA2966784 C	20200324	CA20142966784	20141229
CA2966866 AA	20170504	CA20152966866	20150915
GB201705524 A0	20170517	GB20170005524	20141229
GB2017055758 A0	20170524	GB20170005758	20150915
GB2546658 A1	20170726	GB20170005524	20141229
GB2548496 A1	20170920	GB20170005758	20150915
GC8980 A	20181024	GC2015P030434	20151119
ID201801514 A	20180216	ID2017PID03693	20150915
IN201717012288 A	20170707	IN201717012288	20170405
IN201717012628 A	20170714	IN201717012628	20170407
NO20170586 A	20170407	NO20170000586	20170407
NO20170690 A	20170425	NO20170000690	20170425
RU2664282 C1	20180816	RU20170113104	20141229
RU2667890 C1	20180925	RU20170113115	20150915
US2017092406 AA	20170330	US20150315866	20150915
US2017186523 AA	20170629	US20140116008	20141229
US10283244 BB	20190507	US20140116008	20141229
US10497501 BB	20191203	US20150315866	20150915
WO16108825 A1	20160707	WO2014US72577	20141229
WO16108960 A1	20160707	WO2015US50194	20150915

Priority:
BR20171107904 20141229 WO2014US72577 20141229 US20140116008 20141229
WO2015US50194 20150915 US20150315866 20150915 NO20170000586 20170407

Probable Assignee: HALLIBURTON CO

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

Assignee(s): CHU JIAN YING ; CHU JIANYING

Inventor(s): (std): CHU JIAN YING ; CHU JIANYING ; CHU TSZYAN IN ; CHU TSZYANIN ; JIAN YING CHU ; JIANYING CHU

Agent(s): FB RICE; FB RICE PTY LTD; SPRUSON AND FERGUSON; PARLEE MCLAWS LLP; ABU GAZALEH INTELLECTUAL PROPERTY LLC; NADIA AM BADAR SH; MV KHMARA; ARS PATENT MV KHMARA; SEDANO JASON; BAKER BOTTS LLP; PICKETT W SCOTT 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 HE HH HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: AERIAL ELECTRONIC DETECTION OF SURFACE AND UNDERGROUND THREATS

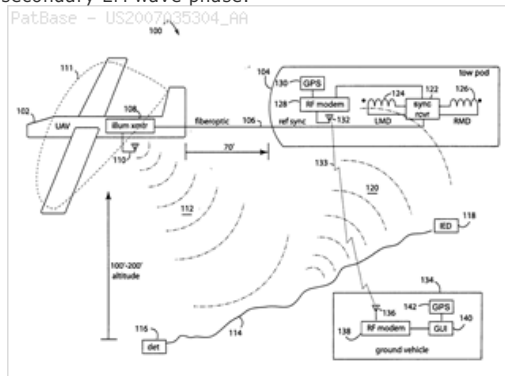
Abstract: An aerial electronic system for detection of surface and underground threats comprises an electromagnetic (EM) gradiometer flown aloft over the possible ground and underground threats to a convoy. The EM gradiometer is disposed in a Styrofoam torpedo shaped pod that is towed in flight behind an airplane. An illumination transmitter and loop antenna mounted to the airplane radiate a primary EM wave that travels down to the ground surface and penetrates beneath. Frequencies of 80 KHz to 1 MHz are selected according to whether the targets are laying on the surface or deeply buried. Detonation wire pairs, buried cables and pipes, and other conductors will re-radiate a secondary wave that can be sensed by the EM gradiometer. A reference sample of the transmitter signal is carried down a fiberoptic from the airplane to the towed pod. This signal is used in the synchronous detection to measure the secondary EM wave phase.

Classifications:

International (IPC 8-9): E21C35/08 G01S13/00 G01S13/32 G01S13/88 G01S13/89 G01V3/12 G01V3/16 (Advanced/Invention); E21C35/00 G01S13/00 G01V3/12 G01V3/15 (Core/Invention)

CPC: G01V3/17 G01S13/89 E21C27/24 E21C35/08 G01S7/4052 G01S7/4056 G01S13/32 G01S13/885 G01S2007/4082 G01S7/02 E21C35/24 G01S13/34 G01V3/12

European: E21C27/24 E21C35/08 E21C35/24 G01S13/32 G01S13/34 G01S13/89 G01S7/02 G01V3/12 G01V3/17 G01S13/88D
US: 299/1.2 299/1.200P 324/329 324/330 324/337 324/344 342/129 342/159 342/179 342/22

**Family:**

Publication number	Publication date	Application number	Application date
US2007035304 AA	20070215	US20060405602	20060417
US2008185903 AA	20080807	US20080053611	20080323
US2008218170 AA	20080911	US20070876367	20071022
US2008218400 AA	20080911	US20070877655	20071023
US2009167589 AA	20090702	US20060478757	20060629
US7336079 BB	20080226	US20060405602	20060417
US7548181 BA	20090616	US20060478757	20060629
US7629790 BB	20091208	US20070876367	20071022
US7656342 BB	20100202	US20070877655	20071023
US7659847 BB	20100209	US20080053611	20080323

Priority:

US20050671946P 20050418	US20060405602 20060417	US20060478757 20060629
US20060853538P 20061023	US20070876367 20071022	US20070877655 20071023
US20080053611 20080323		

Probable Assignee: STOLAR INC

Assignee(s): (std): BAUSOV IGOR ; BEARD BEAUX ; BOTLA LAXMI N ; BOTLA LAXMI NARAYANA ; MAIN RICHARD B ; MYERS JOHN ; SANCHEZ TITO ; STOLAR INC ; STOLARCZYK GERALD L ; STOLARCZYK LARRY G ; TROUBLEFIELD ROBERT ; VALENTINE CHANCE

Inventor(s): (std): VALENTINE CHANCE ; TROUBLEFIELD ROBERT ; STOLARCZYK LARRY G ; STOLARCZYK GERALD L ; SANCHEZ TITO ; MYERS JOHN ; MAIN RICHARD B ; BOTLA LAXMI N ; BEARD BEAUX ; BAUSOV IGOR ; BOTLA LAXMI NARAYANA ; BAUSOV IGOR Y

Inventor(s): BOTLA LAXMI ; MAIN RICHARD ; STOLARCZYK GERALD ; STOLARCZYK LARRY

Agent(s): PATENTS PENDING; RICHARD B MAIN ESQ PATENTS PENDING; MAIN RICHARD B; RICHARD B

Title: PROTECTION OF A MULTIDIRECTIONAL ANTENNA

Abstract: The disclosure provides an apparatus and method for estimating one or more formation properties downhole. The apparatus includes a tool body that has a longitudinal axis. The tool body has a number of metallic pillars that are attached to or are an integral part of the tool body. Antenna wires may be positioned on the tool body between the pillars in a plurality of orientations to provide a multidirectional antenna. An insulating material is used to cover the antenna wires. A high magnetic permeability material is placed between the antenna wires and the tool body. The antenna may be configured to operate as a transmitter or as a receiver for a resistivity sensor or an NMR sensor.

Classifications:

International (IPC 8-9): G01V3/08 G01V3/10 G01V3/18 G01V3/26

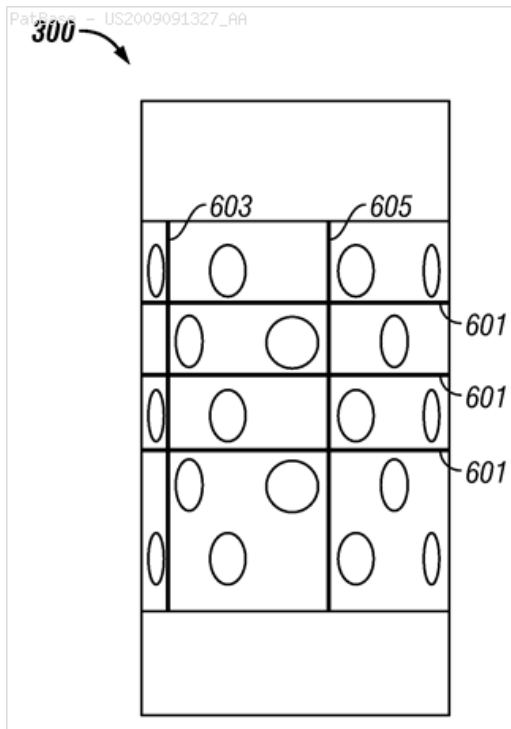
G01V3/32 (Advanced/Invention);

G01V3/18 (Core/Invention)

CPC: G01V3/18

European: G01V3/18

US: 324/333 324/333P 324/338 324/339



Family:

Publication number	Publication date	Application number	Application date
BRPI0817856 A2	20150407	BR2008PI17856	20081009
NO20100537 A	20100708	NO20100000537	20100415
NO20100537 L	20100708	NO20100000537	20100415
US2009091327 AA	20090409	US20080239348	20080926
US8330463 BB	20121211	US20080239348	20080926
WO09082530 A2	20090702	WO2008US79281	20081009
WO09082530 A3	20101021	WO2008US79281	20081009

Priority:

US20070978527P 20071009 US20080239348 20080926 WO2008US79281 20081009

Probable Assignee: BAKER HUGHES INC

Assignee(s): (std): BAKER HUGHES INC ; BLANZ MARTIN

Inventor(s): (std): BLANZ MARTIN

Inventor(s): MARTIN BLANZ

Agent(s): MADAN MOSSMAN AND SRIRAM PC; MOSSMAN KUMAR AND TYLER PC; CARSON MATT W

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

5) Family number: 62829002 (US2016327666A)

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Title: DUAL CORE LOCKING GEOPHONE

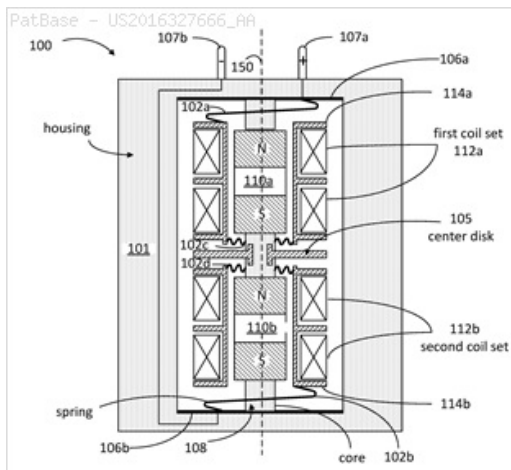
Abstract: A dual core geophone includes a dual magnetic core packaged in a housing providing higher sensitivity and a reduction of electric wires in the device. The geophone includes a locking mechanism for the dual magnetic core to protect the device from strong vibrations when the device is not in use. A method for measuring acoustic vibrations in a downhole with a dual core geophone as above includes locking the dual magnetic core when the geophone is not detecting acoustic vibrations.

Classifications:

International (IPC 8-9): E21B47/00 G01V1/00 G01V1/16 G01V1/18 G01V1/40 H04R9/02 (Advanced/Invention)

CPC: G01V1/162 G01V1/182 G01V1/183 G01V1/184 G01V1/40 G01V1/181 G01V2210/1429

US: 1/1 367/182



Family:

Publication number	Publication date	Application number	Application date
AU2014415651 AA	20170525	AU20140415651	20141229
BR112017010548 A2	20180227	BR20171110548	20141229
CA2969097 AA	20170526	CA20142969097	20141229
GB201707527 A0	20170621	GB20170007527	20141229
GB2547154 A1	20170809	GB20170007527	20141229
IN201717016407 A	20171013	IN201717016407	20170510
NO20170863 A	20170526	NO20170000863	20170526
RU2667692 C1	20180924	RU20170115667	20141229
US2016327666 AA	20161110	US20140906864	20141229
US10156649 BB	20181218	US20140906864	20141229
WO16108826 A1	20160707	WO2014US72578	20141229

Priority:

US20140906864 20141229 WO2014US72578 20141229 NO20170000863 20170526

Probable Assignee: HALLIBURTON CO

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

Assignee(s): HUANG WEI HSUAN ; NIEMAR R ; YAN YONGAN ; TEH YEE SIANG ; KHELLIBERTON ENERDZHI SERVISIZ INK

Inventor(s): (std): HUANG WEI HSUAN ; YAN YONGAN ; NIEMAR R ; TEH YEE SIANG ; YONGAN YAN ; R NIEMAR ; YEE SIANG TEH ; WEI HSUAN HUANG ; NEMAR R ; KHUAN VEJ KHSUAN ; TEKH JI SIANG ; YAN JONGAN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; YURIDICHESKAYA GORODISSKIY I PARTNERY OOO FA; FITE BENJAMIN; TUMEY LLP; KAISER IONA 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

6) Family number: 33531003 (GB200327045A)

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Title: In situ recovery from a hydrocarbon containing formulation

Abstract: A method of treating hydrocarbons in a formation (200) involves providing heat from one or more heat sources (202) to a portion of the formation (200) and allowing heat to transfer to a selected section of the formation (200) by conduction. The heat causes pyrolysis of the hydrocarbons and the products are produced (206) from the formation (200). The pressure within the formation (200) may also be controlled.

Classifications:

International (IPC 8-9): C09K8/592 E21B36/04 E21B41/00

E21B43/24 E21B43/30 (Advanced/Invention);

C09K8/58 E21B36/00 E21B41/00 E21B43/00

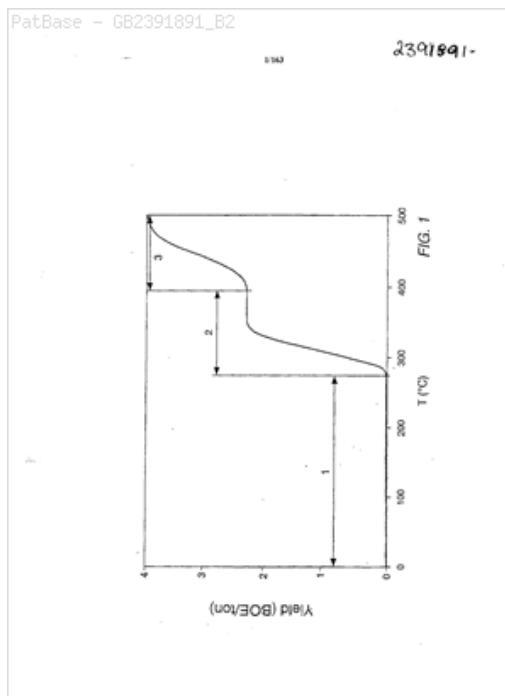
E21B43/16 (Core/Invention)

International (IPC 1-7): E21B43/24 E21B43/243

CPC: C09K8/592 E21B36/04 E21B41/0057 E21B43/243 E21B43/30

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E21B43/30

**Family:**

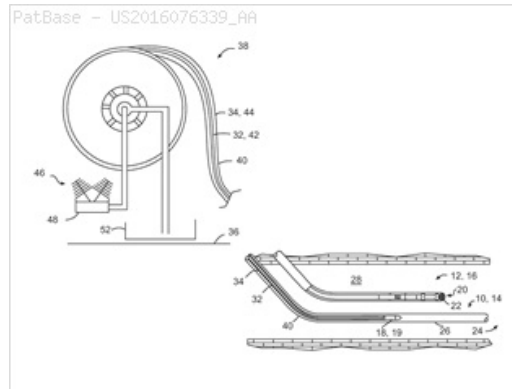
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GB2391890 A1	20040218	GB20030027045	20010424
GB2391890 B2	20040929	GB20030027045	20010424
GB2391891 A1	20040218	GB20030027060	20010424
GB2391891 B2	20040929	GB20030027060	20010424

Priority:

US20000199213P 20000424 US20000199214P 20000424 US20000199215P 20000424
GB20020024444 20010424

Inventor(s): JOHN M KARANIKAS ; ETUAN ZHANG ; SCOTT LEE WELLINGTON ; HAROLD J VINEGAR ; GEORGE LEO STEGEMEIER ; GORDON THOMAS SHAHIN ; ROBERT CHARLES RYAN ; ERIC PIERRE DE ROUFFIGNAC ; THOMAS DAVID FOWLER ; ILYA EMIL BERCHENKO

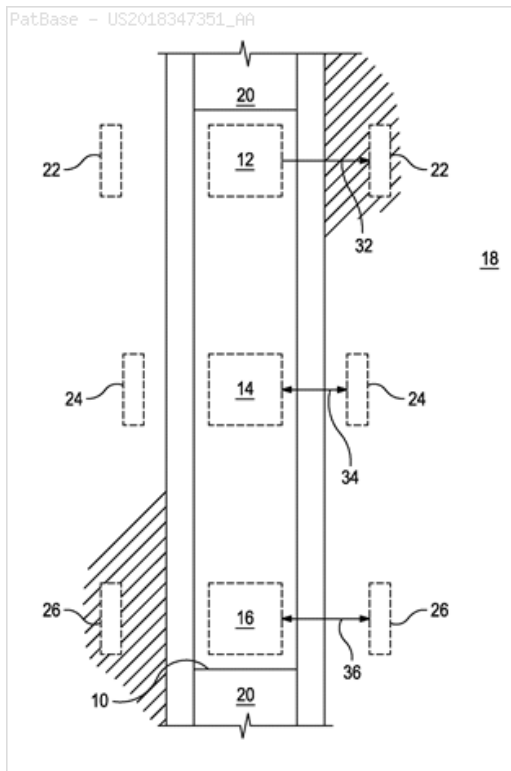
US: 166/57



Publication number	Publication date	Application number	Application date
US2016076339 AA	20160317	US20130022169	20130909

Inventor(s): (std): MARTIN TROY

CPC: G01R33/4

**Family:**

Publication number	Publication date	Application number	Application date
AU2016396062 AA	20180517	AU20160396062	20160304
BR112018013637 A2	20190122	BR20181113637	20160304
CA3005180 AA	20180511	CA20163005180	20160304
CN108474250 A	20180831	CN201680077840	20160304
DE112016005494 T5	20180809	DE201611005494T	20160304
GB201808635 A0	20180711	GB20180008635	20160304
GB2560840 A1	20180926	GB20180008635	20160304
NO20180853 A	20180619	NO20180000853	20180619
US2018347351 AA	20181206	US20160513975	20160304
US10619480 BB	20200414	US20160513975	20160304
WO17151140 A1	20170908	WO2016US20804	20160304

Priority:

US20160513975 20160304 WO2016US20804 20160304

Probable Assignee: HALLIBURTON CO**Assignee(s):** (std): HALLIBURTON CO ; HALLIBURTON ENERGY SERVICES INC**Assignee(s):** JACHMANN REBECCA CORINA ; REIDERMAN ARCADY ; CHEN SONGHUA**Inventor(s):** (std): ARCADY REIDERMAN ; CHEN SONGHUA ; JACHMANN REBECCA CORINA ; REBECCA CORINA JACHMANN ; REIDERMA ARCADY ; REIDERMAN ARCADY ; SONGHUA CHEN**Agent(s):** FB RICE PTY LTD; SPRUSON AND FERGUSON; PARLEE MCLAWS LLP; SEDANO JASON; C TUMEY LAW GROUP PLLC; KAISER IONA 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

9) Family number: 63677005 (US2018010438A)

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Title: DYNAMIC SENSING OF THE TOP OF CEMENT (TOC) DURING CEMENTING OF A WELL CASING IN A WELL BORE

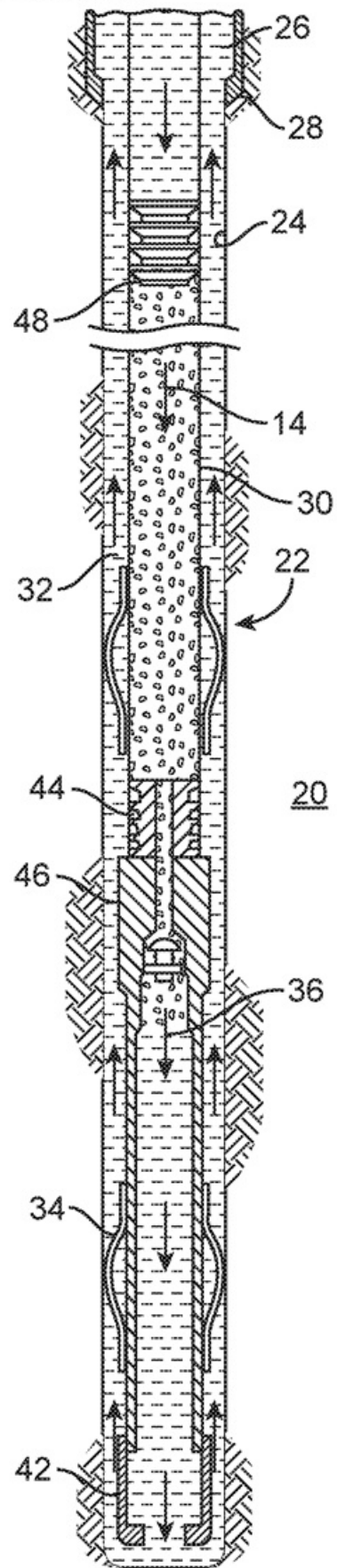
Abstract: A well casing is cemented in a well bore in a subterranean formation by pumping cement slurry down into the well casing so that the cement slurry flows up into an annulus surrounding the well casing. While pumping the cement slurry, the position of the top of the cement slurry in the annulus is sensed, and the rise of the sensed position of the top of the cement slurry in the annulus is recorded as a function of time. The recording is analyzed to evaluate the cement job. For example, the analysis may indicate a problem addressed by adjusting a cement plan for a future cement job, and the analysis may indicate a need to repair a location of the set cement by perforating the well casing at the location to be repaired, and pumping cement slurry down the well casing to fill the location to be repaired.

Classifications:

International (IPC 8-9): E21B33/13 E21B33/14 E21B47/00
E21B47/005 E21B47/047 E21B47/09 E21B47/10 (Advanced/Invention);
E21B43/11 E21B47/06 E21B47/08 E21B47/14 G01V1/40
G01V3/30 (Advanced/Non-invention)

CPC: E21B47/14 E21B47/06 E21B43/11 G01V1/40 G01V3/30
E21B47/005 E21B33/13 E21B33/14 E21B47/0005 E21B47/065
E21B47/082 E21B47/1015

US: 1/1 166/253.1


Family:

Publication number	Publication date	Application number	Application date
AU2015387526 AA	20170810	AU20150387526	20150320
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Priority:

US20150545244 20150320 WO2015US21786 20150320

Probable Assignee: HALLIBURTON CO

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

Assignee(s): GOODWIN SCOTT ; RAVI KRISHNA M ; ROBERSON MARK W

Inventor(s): (std): GOODWIN SCOTT ; RAVI KRISHNA M ; ROBERSON MARK W ; SCOTT GOODWIN ; MARK W ROBERSON ; KRISHNA M RAVI

Agent(s): PHILLIPS ORMONDE FITZPATRICK; PARLEE MCLAWS LLP; BRYAN JASON W 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

10) Family number: 69739005 (US2018138992A)

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Title: IDENTIFYING ANTENNA SYSTEM PARAMETER CHANGES

Abstract: Systems, methods, and devices for evaluation of an earth formation intersected by a borehole using a logging tool. Methods include performing EM logging in a borehole intersecting an earth formation using a measurement signal from an antenna system in the borehole, the measurement signal dependent upon a parameter of interest of the formation and at least one antenna system parameter of the antenna system, comprising feeding a calibration signal into a signal path of the antenna system to generate a resultant signal; estimating at least one value of the at least one antenna system parameter by using the resultant signal; and performing further logging operations in dependence upon the at least one value of the at least one antenna system parameter. The calibration signal comprises at least two calibration subsignals with a first calibration subsignal having a first frequency and a second calibration subsignal having a second frequency.

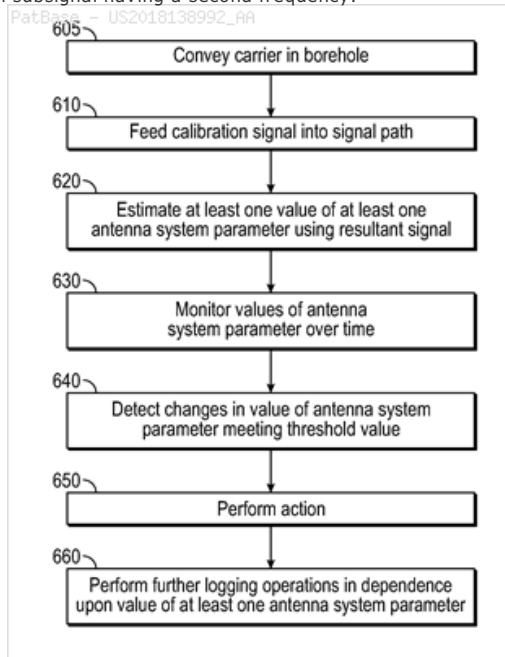
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International (IPC 1-7): G01N29/12

CPC: H04B17/12 H04B17/102 H01Q1/04 G01V3/28 G01V13/00 H03H7/38 G01R29/10 G01V3/26 G01V3/30 G01N27/02 G01N27/04 G01N27/22

US: 1/1 343/703



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20160354709 20161116 US20160354709 20161117 US20160763118P 20161117
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Probable Assignee: BAKER HUGHES INC

Assignee(s): (std): BAKER HUGHES A GE CO LLC ; BAKER HUGHES INC

Inventor(s): (std): KRAFT KERSTEN ; LE TRUNG H ; LE TRUNG ; KERSTEN KRAFT ; TRUNG H LE

Agent(s): CARSON MATT W

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

Title: Blowout preventer protector for use during high pressure oil/gas well stimulation

Abstract: An apparatus for protecting blowout preventers during well fracturing and/or stimulation treatments is disclosed. The apparatus includes a hollow spool with spaced-apart inner and outer sidewalls that define an annular cavity. A mandrel is forcibly reciprocable in the cavity. The mandrel includes an annular seal at a bottom end for sealingly engaging a bit guide attached to a top end of the casing. The apparatus is mounted above a BOP attached to a casing spool of the well before well stimulation procedures are begun. The mandrel is stroked down through the BOP to protect it from exposure to fluid pressure as well as abrasive and/or corrosive well stimulation fluids, especially extreme pressures and abrasive proppants. The advantage is a simple, easy to operate apparatus for protecting BOPs which provides full access to the well casing with well servicing tools to facilitate well stimulation at pressures approaching the burst pressure rating of the well casing.

Classifications:

International (IPC 8-9): E21B17/10 E21B33/06

E21B33/068 (Advanced/Invention);

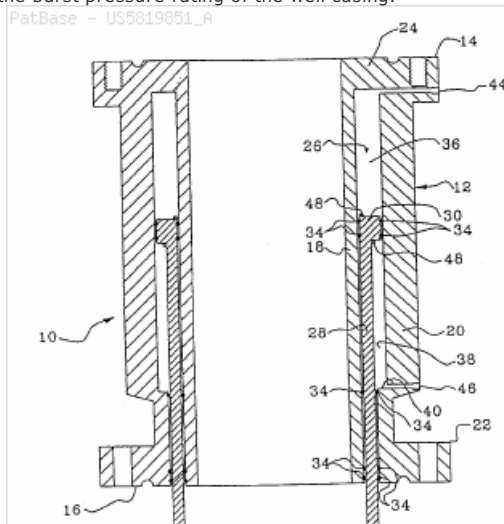
E21B17/00 E21B33/03 (Core/Invention)

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CPC: E21B17/1007 E21B33/06 E21B33/068

European: E21B17/10A E21B33/06 E21B33/068

US: 166/308 166/308.1 166/386 166/387 166/86.1 166/861 166/87.1 166/871 166/90.1 166/901



Family:

Publication number	Publication date	Application number	Application date
US5819851 A	19981013	US19970783860	19970116

Priority:

US19970783860 19970116

Probable Assignee: OIL STATES ENERGY SERVICES LLC

Assignee(s): (std): DALLAS L MURRAY

Assignee(s): HWCES INT ; OIL STATES ENERGY SERVICES INC ; OIL STATES ENERGY SERVICES LLC ; HWC ENERGY SERVICES INC ; STINGER WELLHEAD PROTECTION INC

Inventor(s): (std): DALLAS L MURRAY

Title: STEERABLE DRILLING SYSTEM AND METHOD

Abstract: A bottom hole assembly 10 for drilling a deviated borehole includes a positive displacement motor (PDM) 12 or a rotary steerable device (RSD) 110 having a substantially uniform diameter motor housing outer surface without stabilizers extending radially therefrom. In a PDM application, the motor housing 14 may have a fixed bend therein between an upper power section 16 and a lower bearing section 18. The long gauge bit 20 powered by the motor 10 may have a bit face 22 with cutters 28 thereon and a gauge section 24 having a uniform diameter cylindrical surface 26. The gauge section 24 preferably has an axial length at least 75 percent of the bit diameter. The axial spacing between the bit face and the bend of the motor housing preferably is less than twelve times the bit diameter. According to the method of the present invention, the bit may be rotated at a speed of less than 350 rpm by the PDM and/or rotation of the RSD from the surface.

Classifications:

International (IPC 8-9): E02D29/00 E21B7/04 E21B7/06

E21B7/08 (Advanced/Invention);

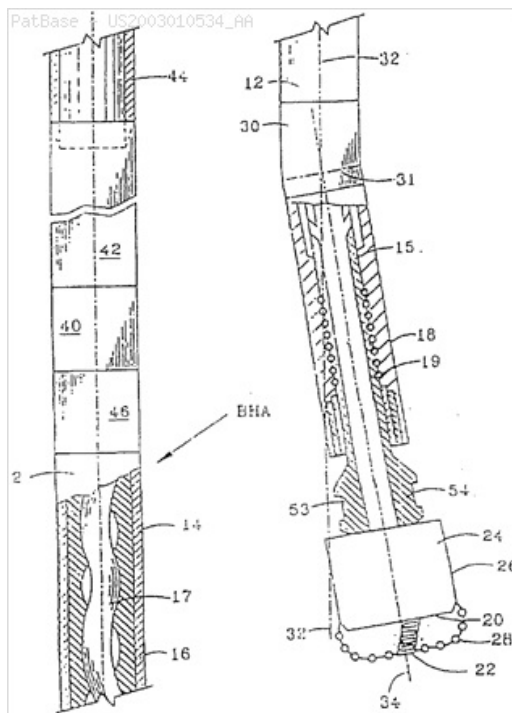
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International (IPC 1-7): E21B1/00 E21B7/04 E21B7/06 E21B7/08

CPC: E21B7/067 E21B7/068 E21B47/01

European: E21B47/01 E21B7/06K E21B7/06M

US: 175/61 175/61P 175/62 175/75 175/75S



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US6581699 BA	20030624	US19990378023	19990821
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Priority:

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Probable Assignee: HALLIBURTON CO

Assignee(s): (std): GAYNOR THOMAS M ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; RAO M VIKRAM ; WALKER COLIN ; RAO M V ; HARDIN JOHN R JR ; BOULTON ROGER ; CHEN CHEN KANG D ; DRESSER IND ; GLEITMAN DANIEL D

Assignee(s): DRESSER IND INC ; HALLIBURTON CO ; DRESSER INDUSTRIES INC ; DII IND LLC ; HARDIN JOHN R ; HALLIBURTON ENERGY SERVICE INC ; GLEITMAN DANIEL D

Inventor(s): (std): BOULTON ROGER ; CHEN CHEN KANG D ; GAYNOR THOMAS C ; GLEITMAN DANIEL D ; GOULTON ROGER ; HARDIN JOHN R JR ; HARDIN JR JOHN R ; RAO M VIKRAM ; WALKER COLIN ; THOMAS C GAYNOR ; ROGER BOULTON ; RAO VIKRAM M ; RAO M V ; M VIKRAM RAO ; JOHN R HARDIN JR ; HARDIN JR JOHN RANSFORD ; HARDIN JOHN R ; GLEITMAN DAN ; GAYNOR THOMAS M ; DANIEL D GLEITMAN ; COLIN WALKER ; CHEN KANG D CHEN ; GLEITMAN DANIEL D ; BOULTON R

Inventor(s): GLEITMAN DANIEL ; CHEN CHEN KANG ; GAYNOR THOMAS ; DANIEL D GLEITMAN ; HARDIN JOHN ; HARDIN JOHN R JR ; JOHN R HARDIN ; VIKRAM M RAO ; THOMAS M GAYNOR ; JR JOHN R ; RAO M ; HARDIN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FINLAYSON AND SINGLEHURST; LOCKEY ROBERT ALEXANDER; LOREN G HELMREICH BROWNING BUSHMAN; BROWNING BUSHMAN; BROWNING BUSHMAN PC

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB 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 MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

13) Family number: 42227007 (US2008236814A)

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Title: USE OF MICRO-ELECTRO-MECHANICAL SYSTEMS (MEMS) IN WELL TREATMENTS

Abstract: A method comprising placing a sealant composition comprising one or more MEMS sensors in a wellbore and allowing the sealant composition to set. A method of servicing a wellbore comprising placing a MEMS interrogator tool in the wellbore, beginning placement of a sealant composition comprising one or more MEMS sensors into the wellbore, and terminating placement of the sealant composition into the wellbore upon the interrogator tool coming into close proximity with the one or more MEMS sensors. A method comprising placing a plurality of MEMS sensors in a wellbore servicing fluid. A wellbore composition comprising one or more MEMS sensors, wherein the wellbore composition is a drilling fluid, a spacer fluid, a sealant, or combinations thereof.

Classifications:

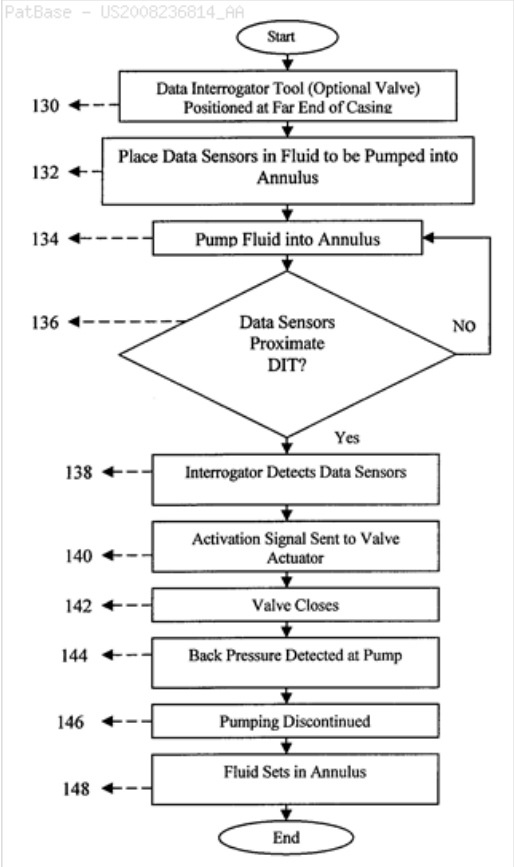
International (IPC 8-9): B67D7/06 C04B14/00 C04B16/08 C04B20/00 C04B22/00 C04B24/00 C04B24/10 C04B24/12 C04B28/00 C04B28/02 C04B28/06 C04B32/00 C04B38/00 C04B40/02 C04B40/06 C04B7/00 C04B7/34 C09K8/00 C09K8/03 C09K8/40 C09K8/42 C09K8/467 C09K8/50 C09K8/516 C09K8/56 C09K8/70 E21B19/00 E21B19/22 E21B23/00 E21B27/02 E21B33/13 E21B33/14 E21B41/00 E21B43/00 E21B43/22 E21B43/25 E21B44/00 E21B47/00 E21B47/005 E21B47/01 E21B47/017 E21B47/08 E21B47/09 E21B47/10 E21B47/12 E21B47/13 E21B49/08 G01N33/24 G01V15/00 G01V3/00 G01V3/18 G06F12/00 G06F17/20 G06F3/00 G06F3/048 G06F3/0481 G06F3/12 G06F40/00 G06F9/00 G06K15/02 G06K19/07 G06K19/077 G06K7/10 G06T1/00 (Advanced/Invention); E21B33/14 G01N9/00 G06F17/20 G06F17/30 G06F3/048 G06F9/00 (Advanced/Non-invention); B67D7/06 C09K8/50 E21B33/13 E21B47/00 G01V3/00 G06F12/00 G06F17/20 G06F3/048 G06F3/12 G06F9/00 G06T1/00 (Core/Invention); G06F17/30 (Core/Non-invention)

International (IPC 1-7): C04B28/02 C04B28/06 C04B40/06 E21B23/00 E21B27/02 E21B33/00 E21B33/13 E21B47/00 E21B47/12 E21B49/08

CPC: G06K7/10366 G06K19/0717 C04B22/00 C04B24/121 C09K8/467 E21B41/00 G06F3/1205 G06F3/1242 G06F3/1246 G06F3/1258 G06F3/1285 G06K15/02 G06K15/1811 G06K15/1848 G06K19/077 C04B28/02 C04B28/06 C04B40/0633 C04B40/0641 C09K8/426 C09K8/428 E21B23/00 E21B27/02 Y02W30/92 G06K19/07749 G01N33/24 G01V15/00 G01V3/00 E21B41/0085 E21B47/09 E21B47/005 E21B47/13 E21B47/26 E21B47/12 E21B33/14 E21B49/08 E21B47/01 E21B47/10 E21B33/13 C09K8/03 E21B47/00 E21B43/25

European: C04B28/02 C04B28/06 C04B40/06C C04B40/06D C09K8/42P C09K8/42S C09K8/467 E21B23/00 E21B27/02 E21B33/13 E21B41/00 E21B43/25 E21B47/00F E21B47/01 E21B47/09 E21B47/10 E21B47/12 E21B47/12M G06F3/12T G06K15/02

US: 1/1 106/606 106/638 106/673 106/677 166/177.4 166/250.01 166/250.010P 166/250.010S 166/250.04 166/250.040S 166/250.07 166/250.1 166/250.14 166/253.1 166/253.100P 166/254.1 166/254.100S 166/255.1 166/282 166/285 166/286 166/292 166/293 166/310 166/65.1 166/66 166/66S 222/192 222/192S 235/375 235/492 340/853.2 340/853.3 340/853.300P 340/854.8 340/856.4 340/856.400P 507/200 507/200S 707/E17.044 707/E17.044S 715/764 715/764S 715/838 715/838P



Family:

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WO16032677 A1	20160303	WO2015US42866	20150730
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Priority:

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WO2015US35090	20150610	WO2015US42866	20150730	US20150919975	20151022
WO2016US52698	20160920				

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): COVINGTON RICK L ; COVINGTON RICKY L ; FRISCH GARY ; HALLIBURTON CO ; HALLIBURTON ENERGY SERVICES INC ; KIM HAENG NAN ; REYES PRISCILLA ; RODDY CRAIG W ; RODDY CRAIG WAYNE ; SAMSUNG ELECTRONICS CO LTD ; SONG WOO YEAL ; TURNER CRAIG ROBERT ; TAPIE WILLIAM ; ROTHROCK GINGER ; RODNEY PAUL ; RODDY CRAIG ; ROBERSON MARK W ; ROBERSON MARK ; REYES PRISCILLA T ; RAVI KRISHNA M ; MOAKE GORDON ; MCGUIRE KRISTOPHER ; MANDAL BATAKRISHNA ; LEWIS SAM ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; GOODWIN SCOTT ; DAVIS LYNN ; CURTIS PHILIP ANTHONY ; COVINGTON RICK ; BONAVIDES CLOVIS ; BITTAR MICHAEL ; BARTEE CHARLES ; BADALAMENTI ANTHONY

Assignee(s): COVINGTON RICKY LAYNE ; HALLIBURTON ENERGY SERVICES INC HOUSTON ; RESEARCH TRIANGLE INST ; S PRINTING SOLUTION CO LTD ; SAMSUNG ELECTRONICS CO ; HALLIBURTON ENERGY SERVICES INC DUNCAN ; HEWLETT PACKARD DEVELOPMENT CO LP ; HP PRINTING KOREA CO LTD

Inventor(s): (std): SCOTT GOODWIN ; SONG WOO YEAL ; VIMAL V SHAH ; WOO YEAL SONG ; RICKY LAYNE COVINGTON ; RICKY L COVINGTON ; PAUL F RODNEY ; MARK W ROBERSON ; KIM HAENG NAN ; HAENG NAN KIM ; GLENN ANDREW WILSON ; FRISCH GARY ; BURKAY DONDERICI ; WILSON GLENN A ; SHAH VIMAL V ; RODNEY PAUL F ; RODDY CRAIG W ; BADALAMENTI ANTHONY ; CRAIG W RODDY ; DAVIS LYNN ; LEWIS SAM ; RCKY L COVNGTON ; REYES PRISCILLA T ; ROBERSON MARK ; RODDY CRAIG ; RICK COVINGTON ; MOAKE GORDON L ; MICHAEL S BITTAR ; KRISTOPHER MCGUIRE ; KRISHNA RAVI ; KRISHNA M RAVI ; CHARLES BARTEE ; BONAVIDES CLOVIS S ; BITTAR MICHAEL S ; BATAKRISHNA MANDAL ; BADALAMENTI ANTHONY M ; ANTHONY M BADALAMENTI ; TAPIE WILLIAM ; SAMUEL J LEWIS ; ROTHROCK GINGER ; RODNEY PAUL ; ROBERSON MARK W ; PRISCILLA REYES ; MOAKE GORDON ; MCGUIRE KRISTOPHER ; MARK ROBERSON ; LYNN DAVIS ; LEWIS SAMUEL J ; GOODWIN SCOTT ; CRAIG W RODDY ; COVINGTON RICK L ; CHARLES BARTREE ; BARTEE CHARLES ; ANTHONY BADALAMENTI ; SWIBES JOHN ; RAVI KRISHNA M ; MANDAL BATAKRISHNA ; GORDON L MOAKE ; GLENN A WILSON ; GINGER ROTHROCK ; DONDERICI BURKAY ; DAVI KRISHNA M ; CRAIG WAYNE RODDY ; CRAIG RODDY ; COVINGTON RICKY LAYNE ; COVINGTON RICK ; BONAVIDES CLOVIS ; BITTAR MICHAEL ; SAM LEWIS ; RODDY GRAIG W ; RODDY CRAIG WAYNE ; COVINGTON RICKY ; CLOVIS S BONAVIDES ; REYES PRISCILLA ; COVINGTON RICKY L

Inventor(s): KRISHNAM RAVI ; CLOVIS BONAVIDES ; ROBERTSON MARK ; COVINGTON RICKY L FRISCO ; JOHN SWIBES ; KRISHNA M DAVI ; GORDON MOAKE ; MICHAEL BITTAR ; RODDY CRAIG DUNCAN ; RODDY CRAIG W DUNCAN ; RICKY COVINGTON

Agent(s): CALLINANS ; FISHER ADAMS KELLY CALLINANS ; FB RICE ; FB RICE PTY LTD ; SPRUSON AND FERGUSON ; NORTON ROSE CANADA SENCRL SRL LLP ; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL ; PARLEE MCLAWS LLP ; WEISSE RENATE DIPL PHYS DR ING ; TURNER CRAIG ROBERT ; WALASKI JAN FILIP ; SULEIMAN I AL AMMAR LAW OFFICE ; ABU GAZALEH INTELLECTUAL PROPERTY LLC ; CRAIG W RODDY HALLIBURTON ENERGY SERVICES ; STANZIONE AND KIM LLP ; CONLEY ROSE PC ; CRAIG W ; FISH AND RICHARDSON PC ; STAAS AND HALSEY LLP ; BAKER BOTTS LLP ; SCHWEGMAN LUNDBERG AND WOESSNER PA ; GILLIAM IP PLLC ; CURTIS PHILIP ANTHONY ; TURNER CRAIG ROBERT ET AL ; CONLEY ROSE PC ET AL ; MADDEN ROBERT B ET AL ; SCHEER BRADLEY W ET AL ; PERDOK MONIQUE M ET AL ; PENNINGTON TAMMY M 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 KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

14) Family number: 62804007 (WO16106267A1)

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Title: RISERLESS SUBSEA WELL ABANDONMENT SYSTEM

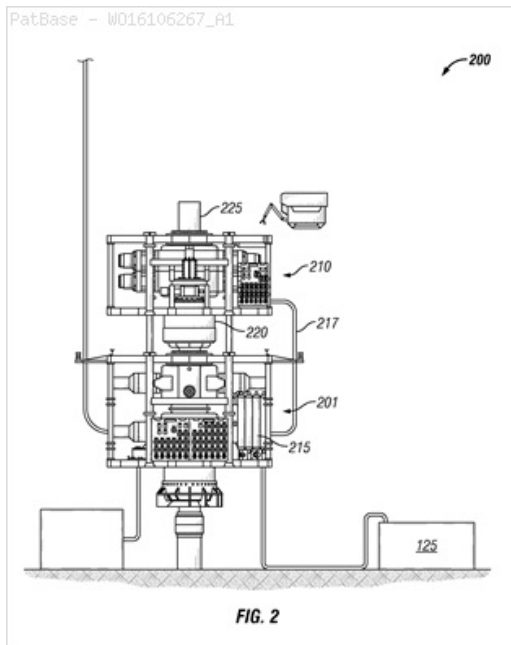
Abstract: A subsea abandonment assembly (200) comprising: a well isolation module (201) and a well abandonment module (210), wherein the well abandonment module is connected to the well isolation module and associated methods and systems.

Classifications:

International (IPC 8-9): E21B33/035 E21B33/038 E21B33/076

E21B41/00 E21B41/04 (Advanced/Invention)

CPC: E21B33/035 E21B33/038 E21B33/076 E21B41/0007 E21B41/04

**Family:**

Publication number	Publication date	Application number	Application date
WO16106267 A1	20160630	WO2015US67255	20151222

Priority:

US20140095828P 20141223

Probable Assignee: SHELL OIL CO**Assignee(s):** (std): SHELL INT RESEARCH ; SHELL OIL CO**Assignee(s):** SHELL INT RESEARCH MIJ BV**Inventor(s):** (std): NELLESSEN PETER ; BUCHAN COLIN STUART**Agent(s):** HITCHCOCK THOMAS S

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

15) Family number: 32507007 (US2005279532A)

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Title: DRILLING WELLBORES WITH OPTIMAL PHYSICAL DRILL STRING CONDITIONS

Abstract: A drilling system includes a control unit and a bottomhole assembly (BHA) coupled to a drill string. The control unit uses measurements from sensors distributed throughout the drill string and BHA to determine the physical condition of the drill string and BHA and to determine whether drilling can be optimized. The drill string sensors are housed in receiver subs and optionally can be positioned on extensible members. The receiver sub also can include a short-hop telemetry module, a processor module, and a clock module. In one embodiment, the receiver subs include seismic sensors for enabling vertical seismic profiling. During operation, the processor visually presents to the operator via one or more graphical user interfaces a dynamically updated pictorial image representing the drilling system. The image is annotated with an appropriate visual signal to indicate a determined physical condition at a given location or component. The processor can also display recommended adjustments to drilling parameters for increasing drilling rates, improving tool life, and more precise steering.

Classifications:**International (IPC 8-9):** E21B44/00 E21B47/00 E21B47/12

E21B49/00 G01V1/34 G01V1/42 (Advanced/Invention);

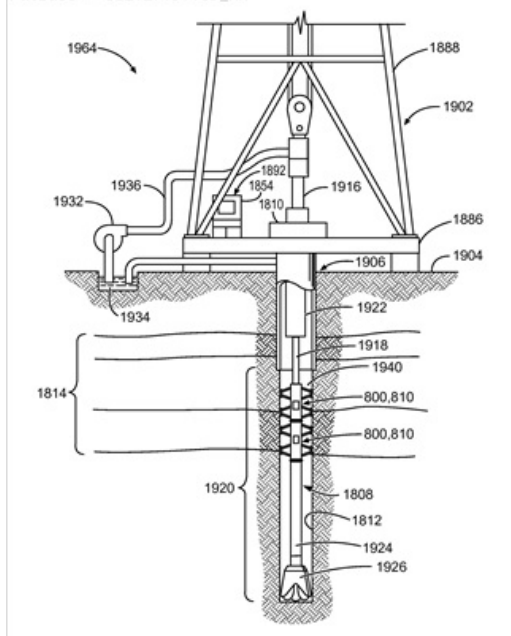
E21B44/00 E21B47/00 E21B47/12 E21B49/00 G01V1/28

G01V1/40 (Core/Invention)

International (IPC 1-7): E21B47/00 E21B47/12 E21B49/00 G01V1/34

G01V1/42

CPC: E21B49/00 E21B47/12 G01V1/42 G01V1/34 E21B44/00**European:** E21B47/12 E21B49/00 G01V1/34 G01V1/42**US:** 175/40

**Family:**

Publication number	Publication date	Application number	Application date
US2017090059 AA	20170330	US20140312181	20141230
US10254431 BB	20190409	US20140312181	20141230
WO16108831 A1	20160707	WO2014US72682	20141230

Priority:

US20140312181 20141230 WO2014US72682 20141230

Probable Assignee: HALLIBURTON CO

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

Inventor(s): (std): SAN MARTIN LUIS EMILIO

Agent(s): GILLIAM IP PLLC; MADDEN ROBERT B ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN 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

17) Family number: 44897009 (US2010089584A)

© PatBase

Title: DOUBLE INSULATED HEATERS FOR TREATING SUBSURFACE FORMATIONS

Abstract: A heater includes a conduit and three insulated electrical conductors located in the conduit. At least one of the three insulated conductors includes an electrical conductor at least partially surrounded by an insulation layer and an electrically conductive sheath at least partially surrounding the insulation layer. One or more layers of electrical insulation at least partially surround the three insulated electrical conductors in the conduit. The one or more layers of electrical insulation electrically isolate the insulated electrical conductors from the conduit.

Classifications:

International (IPC 8-9): E21B36/00 E21B36/04 E21B43/24 H01C17/00 H01C3/00 H05B3/00 H05B3/48 (Advanced/Invention); E21B36/00 E21B43/16 H01C17/00 H05B3/00 (Core/Invention)
CPC: E21B43/2401 H01C3/00 H05B3/48 H05B2214/03 Y10T29/49083 E21B43/24 E21B43/2405 E21B44/02
European: E21B43/24B H01C3/00 H05B3/48
US: 166/302 166/60 166/60S 29/611 29/611S

PatBase - US2010089584_AA

Patent Application Publication Apr. 15, 2010 Sheet 1 of 146 US 2010/0089584 A1

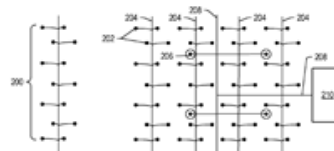


FIG. 1

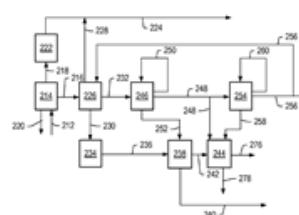


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
US2010089584 AA	20100415	US20090576772	20091009
US9022118 BB	20150505	US20090576772	20091009

Priority:

US20080104974P 20081013 US20090168498P 20090410 US20090576772 20091009

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BURNS DAVID BOOTH ; SHELL OIL CO

Inventor(s): (std): BURNS DAVID BOOTH

Agent(s): SHELL OIL COMPANY

18) Family number: 14535010 (US6253842B)

© PatBase

Title: WIRELESS COILED TUBING JOINT LOCATOR

Abstract: A wireless coiled tubing joint locator for locating joints or collars in a production tubing string. The joint locator is adapted for running into a well on coiled tubing, and other downhole tools may be connectable to the joint locator. An electromagnetic coil assembly senses the increased mass of a pipe joint, and provides a signal to an electric circuit which generates a momentary electric output signal received by a pilot solenoid valve. The solenoid valve momentarily opens a pilot passageway which activates a piston to close a circulation port in the joint locator. This closing of the circulation point results in an increase in a surface pressure reading observable by the operator. A rupture disk is provided so that pressure cannot be applied to any downhole tool below the joint locator prematurely, and a seat sleeve is provided to prevent premature communication of fluid to the rupture disk but can be opened at any time by dropping a ball into the joint locator. The electronic circuit can be configured to provide a selected one of a plurality of time delays. A fixed test period is also provided in the circuit which delays activation of the time delay so that the joint locator may be tested before it is run into the well. The electric circuit and power supply are provided in a removable case for easy replacement and reconfiguration.

Classifications:

International (IPC 8-9): E21B21/10 E21B23/04 E21B34/06

E21B34/14 E21B47/04 E21B47/09 E21B47/092

E21B47/12 (Advanced/Invention);

E21B21/00 E21B23/00 E21B34/00 E21B47/00 E21B47/04

E21B47/12 (Core/Invention)

International (IPC 1-7): E21B2/902 E21B21/10 E21B29/02

E21B34/06 E21B34/14 E21B47/09 E21B47/09 E21B47/12 E21B47/18

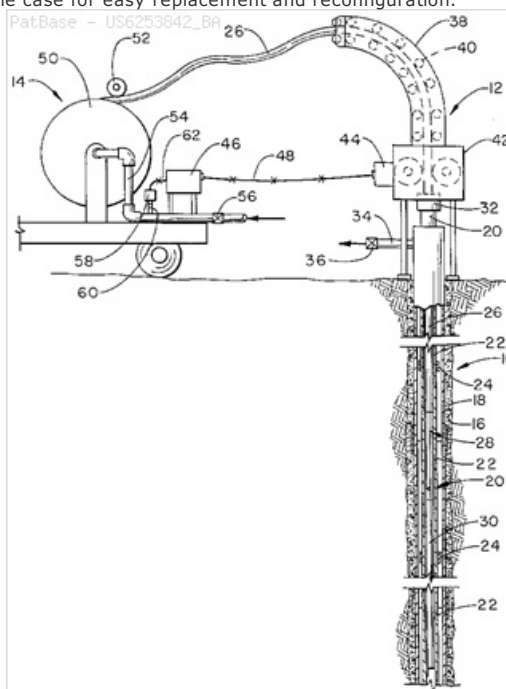
CPC: E21B21/103 E21B23/04 E21B34/063 E21B34/066 E21B34/14

E21B47/04 E21B47/092 E21B47/095

European: E21B21/10C E21B23/04 E21B34/06B E21B34/06M

E21B34/14 E21B47/04 E21B47/09B E21B47/09D

US: 166/255.1 166/64 166/66 166/66.5 73/152.01 73/152.57

**Family:**

Publication number	Publication date	Application number	Application date
CA2259852 AA	20000301	CA19992259852	19990121
CA2259852 C	20070717	CA19992259852	19990121
CA2332241 AA	20010726	CA20012332241	20010125
CA2332241 C	20090602	CA20012332241	20010125
GB200101761 A0	20010307	GB20010001761	20010123
GB200214983 A0	20020807	GB20020014983	19990428
GB2341197 A1	20000308	GB19990009779	19990428
GB2341197 B2	20030129	GB19990009779	19990428
GB2358652 A1	20010801	GB20010001761	20010123
GB2358652 B2	20040714	GB20010001761	20010123
GB2375784 A1	20021127	GB20020014983	19990428
GB2375784 B2	20030129	GB20020014983	19990428
GB9909779 A0	19990623	GB19990009779	19990428
NO20010439 A	20010727	NO20010000439	20010125
NO20010439 A0	20010125	NO20010000439	20010125
NO20010439 L	20010727	NO20010000439	20010125
NO316571 B1	20040223	NO19990000827	19990222
NO324305 B1	20070917	NO20010000439	20010125
NO990827 A	20000302	NO19990000827	19990222
NO990827 A0	19990222	NO19990000827	19990222
NO990827 L	20000302	NO19990000827	19990222
US6253842 BA	20010703	US19980144751	19980901

Priority:

US19980144751 19980901 CA19992259852 19990121 GB19990009779 19990428
US20000492002 20000126 CA20012332241 20010125

Probable Assignee: HALLIBURTON CO

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

Assignee(s): HOWARD ROBERT G ; TUCKER JAMES C ; CONNELL MICHAEL L ; HALLIBURTON CO

Inventor(s): (std): HOWARD ROBERT G ; CONNELL MICHAEL L ; CONNELL MICHAEL L ; TUCKER JAMES C

Inventor(s): MICHAEL L CONNELL ; ROBERT G HOWARD ; MICHAEL L CONNELL ; JAMES C TUCKER

Agent(s): OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; ROBERT A KENT; NEAL R KENNEDY

19) Family number: 44897012 (US2010089586A)

© PatBase

Title: MOVABLE HEATERS FOR TREATING SUBSURFACE HYDROCARBON CONTAINING FORMATIONS

Abstract: A method for treating a hydrocarbon containing formation includes providing heat to a first portion of the formation using a heater. The heating section of the heater is at least partially located in a substantially horizontal or inclined portion of a wellbore and is located in or proximate to a hydrocarbon containing layer of the formation. The heating section has a length that is at most 1/2 the length of the horizontal or inclined portion of the wellbore. At least a portion of the heating section in the wellbore is moved such that heat is provided to a second portion of the formation. The second portion is horizontally displaced from the first portion of the formation.

Classifications:

International (IPC 8-9): E21B36/00 E21B36/02 E21B36/04

E21B43/24 (Advanced/Invention);

E21B36/00 E21B43/16 (Core/Invention)

CPC: E21B43/2401 H01C3/00 H05B3/48 H05B2214/03 Y10T29/49083
E21B43/24 E21B43/2405 E21B44/02

European: E21B43/24B H01C3/00 H05B3/48

US: 166/272.1 166/272.3 166/272.7 166/302 166/302S 166/303
166/50

PatBase - US2010089586_AA

Patent Application Publication Apr. 15, 2010 Sheet 1 of 146 US 2010/0089586 A1

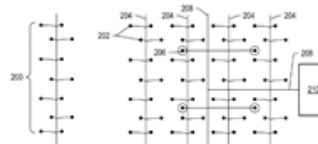


FIG. 1

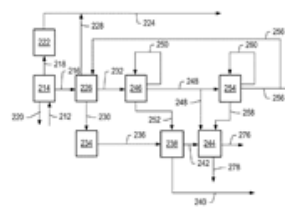


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
US2010089586 AA	20100415	US20090576763	20091009
US8256512 BB	20120904	US20090576763	20091009

Priority:

US20080104974P 20081013 US20090168498P 20090410 US20090576763 20091009

Probable Assignee: SHELL OIL CO

Assignee(s): (std): SHELL OIL CO ; STANECKI JOHN ANDREW

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): STANECKI JOHN ANDREW

Agent(s): SHELL OIL COMPANY

20) Family number: 74182013 (WO19083922A1)

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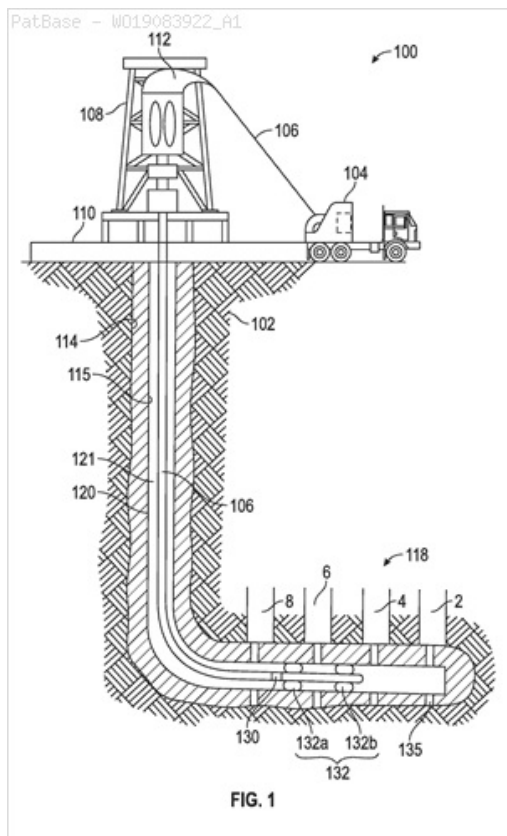
Title: ACTUATED INFLATABLE PACKER

Abstract: An inflatable packer assembly may include a housing and a shifting sleeve disposed within the housing. The shifting sleeve may have one or more sleeve ports formed therein. An actuator may be coupled with the shifting sleeve. The actuator may be electrically actuated between a plurality of positions. One or more inflatable packers may be coupled with the housing, the housing having one or more ports formed therein. Actuation of the actuator may shift the shifting sleeve in order for the one or more sleeve ports to enter into fluid communication with the one or more ports of the housing in order to inflate or deflate the inflatable

Classifications:

International (IPC 8-9): E21B33/12 E21B33/127 (Advanced/Invention)

CPC: E21B33/12 E21B33/127



Family:

Publication number	Publication date	Application number	Application date
WO19083922 A1	20190502	WO2018US56987	20181023

Priority:

US20170576978P 20171025

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): HALLIBURTON ENERGY SERVICES INC

Assignee(s): HALLIBURTON CO

Inventor(s): (std): JONES DESMOND WESLEY ; JONES HARLEY WAYNE ; PAWAR BHARAT BAJIRAO ; QUERO PHILIPPE

Agent(s): BRYAN JASON W 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

21) Family number: 68499014 (US2018042111A)

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Title: ELECTRICAL ASSEMBLIES FOR DOWNHOLE USE

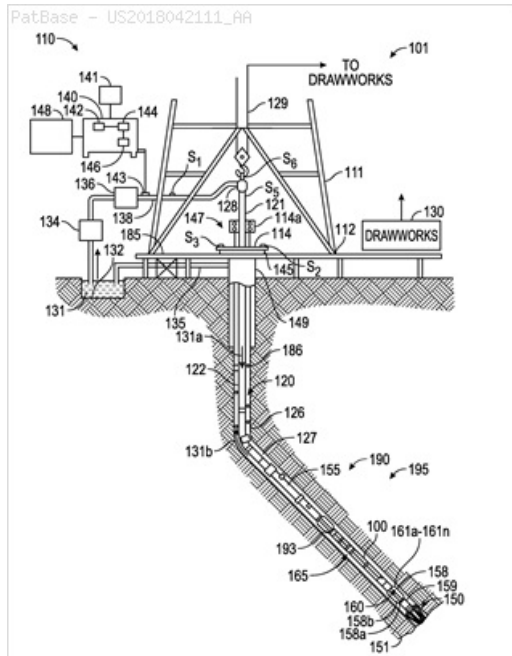
Abstract: Methods, systems, devices, and products for manufacturing an electrical assembly, such as a completed downhole circuit board, for use in well logging. Methods include attaching an electrical component to a printed circuit board by mechanically fastening the electrical component to the printed circuit board. Methods may include using a laser to attach a plurality of legs to contact surfaces. Methods may include applying light from the laser to a material of the printed circuit board to produce heat, including mitigating reflection of the light from the material. Methods include forming a connection between a first electrical component of the electrical assembly and a second electrical component of the electrical assembly by causing heating of an additive manufacturing material by applying light from a laser. The connection may be at least one of: i) an electrical connection; ii) a structural connection; iii) an electrical insulation.

Classifications:

International (IPC 8-9): B23K1/005 E21B47/01 E21B49/00 G01V3/18
H05K1/11 H05K1/18 H05K3/32 H05K3/34 (Advanced/Invention);
B23K101/42 B23K26/18 B33Y10/00 G01V3/18 (Advanced/Non-invention)

CPC: H05K1/181 H05K1/113 H05K3/341 E21B49/00 H05K2203/107
H05K2201/10628 H05K2201/10151 B23K1/0056 B23K26/18
B33Y10/00 G01V3/18 H05K3/325 H05K2201/10257 H05K2201/10295
H05K2201/10401 H05K2201/1059 E21B47/017 E21B47/011

US: 1/1 361/767



Family:

Publication number	Publication date	Application number	Application date
US2018042111 AA	20180208	US20160231438	20160808
US10631409 BB	20200421	US20160231438	20160808
WO18031543 A1	20180215	WO2017US45896	20170808

Priority:

US20160231438 20160808

Probable Assignee: BAKER HUGHES A GE CO LLC

Assignee(s): (std): BAKER HUGHES A GE CO LLC ; BAKER HUGHES INC

Inventor(s): (std): BREAU BRIAN D ; CAIRNS PAUL G ; CAIRNS PAUL GERARD ; DIFOGGIO ROCCO ; FANINI OTTO N ; TODD BENJAMIN

Agent(s): MOSSMAN KUMAR AND TYLER PC; CARSON MATT W

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

22) Family number: 68589014 (US2019226322A)

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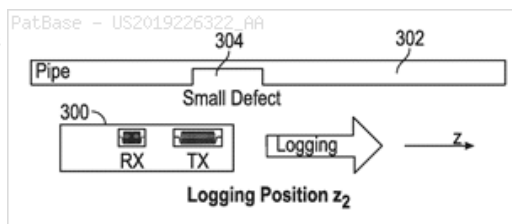
Title: HIGH-RESOLUTION REMOTE-FIELD EDDY CURRENT CHARACTERIZATION OF PIPES

Abstract: In pipe characterization based on the remote-field eddy current effect, the resolution with which the total pipe thickness can be determined from measurements of the phase of the mutual impedance between the transmitter and the receiver of an eddy-current logging tool can be improved with a deconvolution approach utilizing the simulated or measured impulse response of a small pipe defect.

Classifications:

International (IPC 8-9): E21B47/00 E21B47/08 E21B47/12 G01V3/18 G01V3/28 G01V3/38 (Advanced/Invention)

CPC: E21B47/085 E21B47/00 G01V3/28 G01V3/38 E21B47/082 E21B47/122



Family:

Publication number	Publication date	Application number	Application date
US2019226322 AA	20190725	US20160316900	20160812
WO18031035 A1	20180215	WO2016US46812	20160812

Priority:

US20160316900 20160812 WO2016US46812 20160812

Probable Assignee: HALLIBURTON CO

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

Inventor(s): (std): DONDERICI BURKAY ; KHALAJ AMINEH REZA ; SAN MARTIN LUIS EMILIO

Agent(s): PEACOCK GREGG 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

Title: DOWNHOLE SAMPLING APPARATUS AND METHOD FOR USING SAME

Abstract: A method and apparatus is provided to sample formation fluid. Formation fluid is drawn from the subterranean formation into the downhole tool and collected in a sample chamber. An exit flow line is operatively connected to the sample chamber for selectively removing a contaminated and/or clean portion of the formation fluid from the sample chamber whereby contamination is removed from the sample chamber. For example, a clean portion of the formation fluid may be passed to another sample chamber for collection, or a contaminated portion may be dumped into the borehole.

Classifications:

International (IPC 8-9): E21B43/38 E21B49/00 E21B49/08 E21B49/10 (Advanced/Invention); E21B49/00 (Core/Invention)

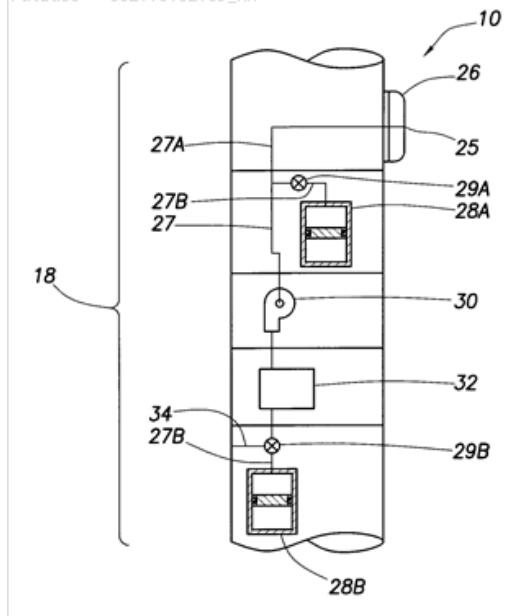
International (IPC 1-7): E21B43/38 E21B49/00 E21B49/08 E21B49/10

CPC: E21B43/38 E21B49/10 E21B49/08 E21B49/081

European: E21B43/38 E21B49/08B E21B49/10

US: 166/100 166/162 166/264 175/59 73/152.17 73/152.24 73/152.28

PatBase - US2005082059_AA



Family:

Publication number	Publication date	Application number	Application date
AU2004218736 AA	20050505	AU20040218736	20041012
AU2004218736 BB	20070927	AU20040218736	20041012
AU2004218736 BH	20080313	AU20040218736	20041012
BRPI0404453 A	20050628	BR2004PI04453	20041014
BRPI0404453 A8	20160419	BR2004PI04453	20041014
BRPI0404453 B1	20160628	BR2004PI04453	20041014
CA2484688 AA	20050415	CA20042484688	20041013
CA2484688 C	20080115	CA20042484688	20041013
CN100575663 C	20091230	CN200410085681	20041015
CN1611745 A	20050504	CN200410085681	20041015
FR2861127 A1	20050422	FR20040010858	20041014
FR2861127 B1	20130208	FR20040010858	20041014
GB200422574 A0	20041110	GB20040022574	20041012
GB2407109 A1	20050420	GB20040022574	20041012
GB2407109 B2	20060705	GB20040022574	20041012
MXPA04010048 A1	20050701	MX2004PA10048	20041013
NO20044366 A	20050418	NO20040004366	20041014
NO20044366 L	20050418	NO20040004366	20041014
NO340052 B1	20170306	NO20040004366	20041014
RU2004129915 A	20060320	RU20040129915	20041014
RU2373393 C2	20091120	RU20040129915	20041014
US2005082059 AA	20050421	US20040710743	20040730
US7195063 BB	20070327	US20040710743	20040730

Priority:

US20030511212P 20031015 US20040710743 20040715 US20040710743 20040730
CA20042484688 20041013

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER SERVICES PETROL ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER CANADA LTD ; SCHLUMBERGER HOLDINGS ; SHLUMBERGER TEKNOLODZHI BV ; SCHLUMBERGER TECHNOLOGY CORP ; SCHLUMBERGER CA LTD ; SCHLUMBERGER SURENCO SA

Assignee(s): SCHLUMBERGER SURENCO S A ; SCHLUMBERGER HOLDINGS LTD ; SERVICES PETROLIERS SCHLUMBERGER ; VASQUES RICARDO ; ADUR NICOLAS ; CARNEGIE ANDREW J ; DUNLAP JAMES J ; DURAN ALEJANDRO ; HARRIGAN EDWARD ; NOGUEIRA MATHEUS

Inventor(s): (std): ADUR NIKOLAS ; ANDREW J CARNEGIE ; DANLEHP DZHEJMS DZH ; DJURAN ALEKHANDRO ; JAMES J DUNLAP ; KARNEGI EHNDJRJ DZH ; KHEHRRIGAN EHDVARD ; NICOLAS ADUR ; NOGEJRA MATEUS ; VASKES RIKARDO ; VASQUEZ RICARDO ; VASQUES RICARDO ; RICARDO VASQUES ; NOGUEIRA MATHEUS ; MATHEUS NOGUEIRA ; HARRIGAN EDWARD ; EDWARD HARRIGAN ; DURAN ALEJANDRO ; DUNLAP JAMES J ; CARNEGIE ANDREW J ; ALEJANDRO DURAN ; ADUR NICOLAS

Inventor(s): CARNEGIE ANDREW ; DUNLAP JAMES

Agent(s): GRIFFITH HACK ; SMART AND BIGGAR ; BREVALEX ; SCHLUMBERGER OILFIELD SERVICES ; MATTHIAS ; KEVIN P ; WILLIAM

Title: REMOTE-FIELD EDDY CURRENT CHARACTERIZATION OF PIPES

Abstract: Described are various approaches for estimating the total thickness of a set of pipes from the phase of the mutual impedance between transmitter and receiver measured with an eddy-current logging tool disposed interior to the pipes, in conjunction with a simulated functional relationship between the phase and the total thickness.

Classifications:

International (IPC 8-9): E21B47/08 G01B7/06 G01N27/02

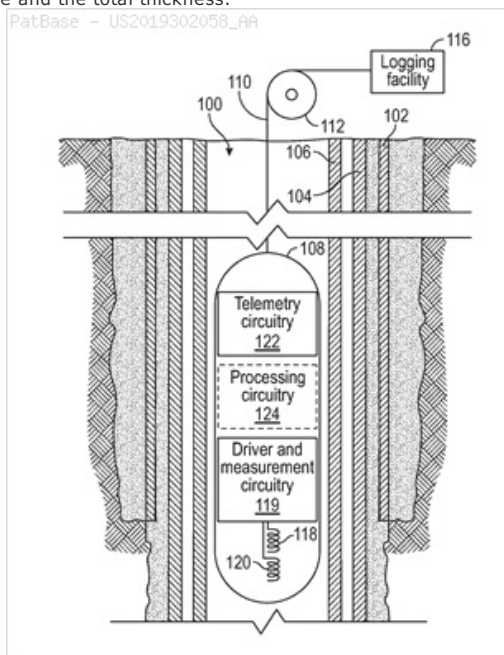
G01N27/90 G01V3/12 (Advanced/Invention)

International (IPC 1-7): G01B7/06 G01N27/02 G01N27/90

CPC: G01N27/9066 G01V3/12 E21B47/00 G01B7/06 G01N27/028

G01N27/9046 G01N27/02 G01N27/90 E21B47/085 E21B47/082

PatBase - US2019302058_AA

**Family:**

Publication number	Publication date	Application number	Application date
BR112018077221 A2	20190409	BR20181177221	20160812
EP3455582 A1	20190320	EP20160912849	20160812
EP3455582 A4	20200101	EP20160912849	20160812
US2019302058 AA	20191003	US20160315896	20160812
WO18031036 A1	20180215	WO2016US46823	20160812

Priority:

US20160315896 20160812 WO2016US46823 20160812

Probable Assignee: HALLIBURTON CO

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

Inventor(s): (std): SAN MARTIN LUIS EMILIO ; REZA KHALAJ AMINEH ; LUIS EMILIO SAN MARTIN ; KHALAJ AMINEH REZA ; DONDERICI BURKAY ; BURKAY DONDERICI

Agent(s): JENNINGS MICHAEL JOHN; PEACOCK GREGG 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 LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: TORSIONAL ISOLATOR

Abstract: A torsional isolator (200, 300, 400) designed to reduce vibrations and shock experienced by electronics used during directional drilling is disclosed. The torsional isolator allows the drillstring electronics to oscillate at a slower rotational velocity than the data acquisition rate of associated sensors, such that the sensors record an average value of the azimuth heading thereby allowing for a higher accuracy measurement of the azimuth heading. The sample rate of the sensors is such that the sensors maximum error is reduced by the torsional isolator, as the output angular displacements are lower than the input angular displacements.

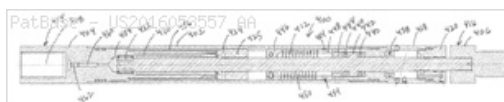
Classifications:

International (IPC 8-9): E21B17/07 E21B7/04 (Advanced/Invention)

CPC: E21B17/07 E21B7/04

US: 175/56

PatBase - US2016053557_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2016053557 AA	20160225	US20140784511	20140501
WO14179587 A1	20141106	WO2014US36397	20140501

Priority:

US20130817945P 20130501 US20140784511 20140501 WO2014US36397 20140501

Probable Assignee: LORD CORP

Assignee(s): (std): CUNE GREGG ; JOLLY MARK R ; LORD CORP ; PTAK KEITH R ; WHITEFORD GERALD P

Inventor(s): (std): CUNE GREGG ; PTAK KEITH R ; JOLLY MARK R ; WHITEFORD GERALD P

Agent(s): GALINSKI TODD W

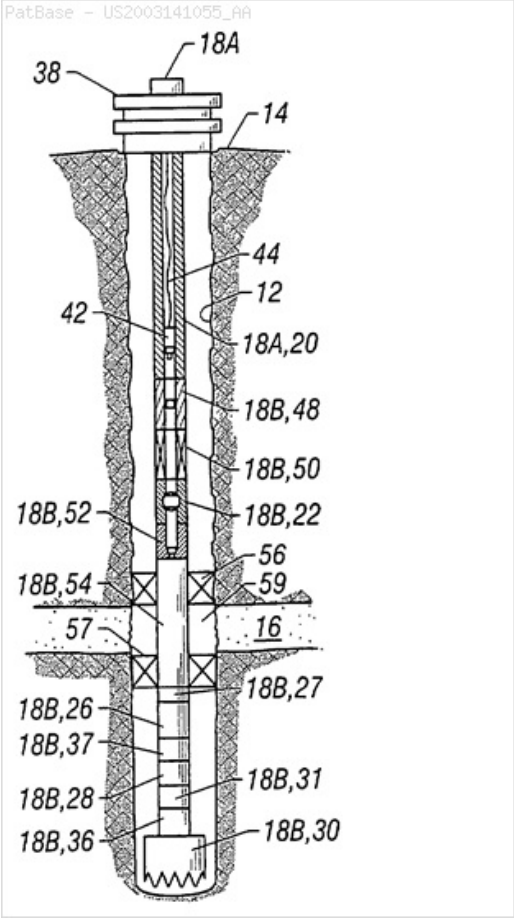
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26) Family number: 29968016 (US2003141055A) PatBase

Title: DRILLING FORMATION TESTER, APPARATUS AND METHODS OF TESTING AND MONITORING STATUS OF TESTER

Abstract: Integrated drilling and evaluation systems and methods for drilling, logging and testing wells are provided. The drilling and evaluation systems are basically comprised of a drill string, a drill bit carried on a lower end of the drill string for drilling a well bore, logging while drilling means included in the drill string for identifying subsurface zones or formations of interest, packer means carried on the drill string above the drill bit for sealing a zone or formation of interest below the packer means, a fluid testing means included in the drill string for controlling the flow of well fluid from the zone or formation of interest into the drill string, a function status monitor included in the drill string to evaluate the capacity of the various test instruments to function, and a function timer included in the drill string to automatically sequence the steps of various test procedures. The drilling and evaluation systems and methods for using the systems allow one or more subsurface zones or formations of interest in a well to be drilled, logged and tested without the necessity of removing the drill string from the well.

Classifications:
International (ipc 8-9): E21B21/10 E21B31/03 E21B33/12 E21B33/124 E21B33/127 E21B34/12 E21B41/00 E21B44/00 E21B47/00 E21B47/06 E21B49/00 E21B49/08 E21B7/06 (Advanced/Invention); E21B34/00 (Advanced/Non-invention); E21B21/00 E21B33/12 E21B49/00 (Core/Invention)
International (ipc 1-7): E21B21/10 E21B33/124 E21B33/127 E21B44/00 E21B47/00 E21B47/06 E21B49/00 E21B49/08 E21B49/08B E21B21/103 E21B31/03 E21B33/12 E21B33/1243 E21B33/1275 E21B34/12 E21B41/00 E21B44/00 E21B47/00 E21B47/06 E21B49/083 E21B49/088 E21B21/10 E21B49/082 E21B47/07 E21B2200/04
European: E21B21/10 E21B21/10C E21B31/03 E21B33/12 E21B33/124B E21B33/127D E21B34/12 E21B41/00 E21B44/00 E21B47/00 E21B47/06 E21B47/06B E21B49/08 E21B49/08B2 E21B49/08B4 E21B49/08T2 E21B7/06M P21B34/00B
US: 166/250.17 166/250.170S 166/254.2 166/254.200P 166/66 175/48 175/5 175/50 175/59 73/152.19 73/152.28 73/152.46



Family:

Publication number	Publication date	Application number	Application date
CA2376211 AA	20011203	CA20002376211	20001106
CA2376211 C	20080226	CA20002376211	20001106
CA2376544 AA	20011205	CA20002376544	20001106
EP1226336 A1	20020731	EP20000977019	20001106
EP1226336 A4	20050316	EP20000977019	20001106
EP1226336 B1	20110817	EP20000977019	20001106
EP1228290 A1	20020807	EP20000978403	20001106
EP1228290 A4	20050323	EP20000978403	20001106
NO20020508 A	20020704	NO20020000508	20020131
NO20020508 A0	20020131	NO20020000508	20020131
NO20020508 L	20020704	NO20020000508	20020131
NO20020509 A	20020704	NO20020000509	20020131
NO20020509 A0	20020131	NO20020000509	20020131
NO20020509 L	20020704	NO20020000509	20020131
NO325137 B1	20080204	NO20020000508	20020131
US2003141055 AA	20030731	US20020288794	20021104
US2003234120 AA	20031225	US20020317319	20021212
US7093674 BB	20060822	US20020288794	20021104
US7096976 BB	20060829	US20020317319	20021212
WO0133044 A1	20010510	WO2000US30595	20001106
WO0133045 A1	20010510	WO2000US30597	20001106

Priority:

US19990165229P 19991105 WO2000US30595 20001106 WO2000US30597 20001106
US20020288794 20021104 US20020317319 20021212

Probable Assignee: HILLIBURTON ENERGY SERVICES INC**Assignee(s):** (std): HALLIBURTON ENERGY SERV INC ; HOOPER MICHAEL ; JEREBEK ALOIS ; PALUCH BILL ; RINGGENBERG PAUL D**Assignee(s):** PALUCH WILLIAM C ; OILS WELL INC ; OILS WELL INC A NORTH CAROLINA CORP ; JERABEK ALOIS ; HALLIBURTON ENERGY SERVICES INC ; HILLIBURTON ENERGY SERVICES INC**Inventor(s):** (std): HOOPER MICHAEL ; HOOPER MICHAEL EDWARD ; JERABEK ALOIS ; JEREBEK ALOIS ; PALUCH BILL ; PALUCH WILLIAM C ; RINGGENBERG PAUL D**Inventor(s):** WILLIAM C PALUCH ; PAUL D RINGGENBERG ; MICHAEL HOOPER ; ALOIS JERABEK**Agent(s):** KIRBY EADES GALE BAKER; W P THOMPSON AND CO; CONLEY ROSE PC**Designated states:** AT BE CA CH CY DE DK ES FI FR GB GR IE IT LU MC NL NO PT SE TR US**27) Family number: 43954016 (US2009272526A)**

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

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

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

E21B43/24 (Advanced/Invention);

E21B36/00 E21B43/16 (Core/Invention)

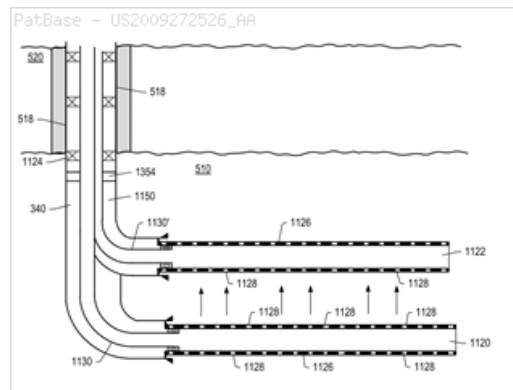
CPC: E21B7/068 E21B3/00 E21B4/04 E21B47/06 C10G21/22
C10G21/28 C10G2300/207 C10G2300/301 C10G2300/302
C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42
C10G2300/807 C10G2400/02 E21B7/18 E21B10/003 E21B19/08
E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04
E21B43/119 E21B43/2401 E21B43/2403 E21B43/243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

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

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

E21B43/119 E21B43/243 E21B43/24B E21B43/24F E21B43/28B

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

US: 166/248 166/50 166/50S 166/57 166/57S 299/2**Family:**

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

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422119 20090410

Probable Assignee: SHELL OIL CO**Assignee(s):** (std): BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; MACDONALD DUNCAN CHARLES ; MARWEDE JOCHEN ; PRINCE WRIGHT ROBERT GEORGE ; SHELL OIL CO**Assignee(s):** SHELL OIL COMPANY**Inventor(s):** (std): MARWEDE JOCHEN ; MACDONALD DUNCAN CHARLES ; BURNS DAVID BOOTH ; HWANG HORNG JYE JAY ; PRINCE WRIGHT ROBERT GEORGE**Inventor(s):** HWANG HORNG JYE (JAY)**Agent(s):** SHELL OIL COMPANY; SHELL OIL CO**28) Family number: 70076019 (US2018164466A)**

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Title: DETERMINATION OF SHALE CONTENT OF FORMATION FROM DISPERSIVE MULTI-FREQUENCY DIELECTRIC MEASUREMENTS

Abstract: Methods and apparatus for evaluating a volume of an earth formation wherein the volume comprises a fluid-saturated rock matrix including clay particles. Methods include making measurements of complex permittivity at a plurality of frequencies using an electromagnetic tool in a borehole penetrating the earth formation; and estimating a plurality of parameters of interest simultaneously using the measurements at the plurality of frequencies and a mixing model accounting for electrical effects on the measurements caused by the clay particles. The plurality may include at least: i) water saturation; and ii) resistivity of formation water. Parameters of interest may comprise at least one of: i) an electrical parameter of the volume; and ii) a textural parameter of the volume. Methods may include modeling for electrical effects caused by at least one of: i) a surface conductivity of the clay particles; and ii) a textural property of the clay particles.

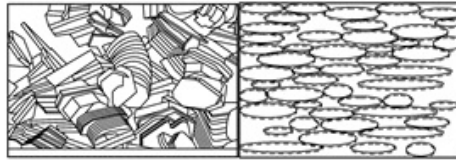
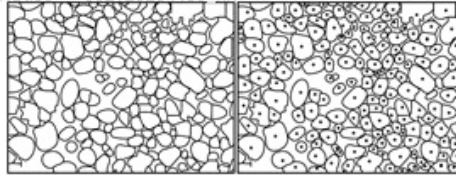
Classifications:**International (IPC 8-9):** E21B49/00 G01N27/22 G01N33/24

G01V3/28 G01V3/30 G01V3/38 (Advanced/Invention)

International (IPC 1-7): G01N27/22 G01N33/24**CPC:** G01V3/28 G01V3/30 G01V3/38 Y02A90/342 Y02A90/344

G01N27/22 G01N33/24

US: 1/1 702/7

**Family:**

Publication number	Publication date	Application number	Application date
BR112019011417 A2	20191126	BR20191111417	20171207
GB201909788 A0	20190821	GB20190009788	20171207
GB2573441 A1	20191106	GB20190009788	20171207
NO20190780 A	20190621	NO20190000780	20190621
US2018164466 AA	20180614	US20160374419	20161209
US10649110 BB	20200512	US20160374419	20161209
WO18106927 A1	20180614	WO2017US65131	20171207

Priority:

US20160374419 20161209 WO2017US65131 20171207

Probable Assignee: BAKER HUGHES INC

Assignee(s): (std): BAKER HUGHES A GE CO LLC ; BAKER HUGHES INC

Inventor(s): (std): ZHANG YINXI ; YINXI ZHANG

Agent(s): MOSSMAN KUMAR AND TYLER PC; CARSON MATT W

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

29) Family number: 65074020 (US2017058618A)

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Title: SLEEVE FOR FITTING AROUND A SPOOLING DRUM

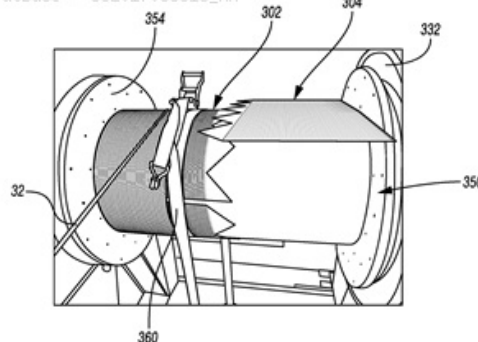
Abstract: The disclosure relates to a sleeve for fitting around a spooling drum: the sleeve comprises at least a groove for receiving a conveying element to be spooled around the drum, is made of flexible material and is configured so as to be able to take a first configuration in which the sleeve forms a flat sheet, the groove extending in a direction, called spooling direction, and a second configuration in which the sleeve forms a cylinder, with the groove is situated on an external face of the cylinder.

Classifications:

International (IPC 8-9): B65H57/04 B65H75/26 B65H75/44 B66D1/30 B66D1/36 E21B19/00 E21B19/22 E21B33/08 (Advanced/Invention)

CPC: B65H75/26 E21B19/008 B66D1/36 B65H57/04 B65H75/265 B65H75/4415 B65H2701/33 E21B33/08 B66D1/30

US: 1/1 242/602

**Family:**

Publication number	Publication date	Application number	Application date
EP3135619 A1	20170301	EP20150290220	20150825
US2017058618 AA	20170302	US20160234550	20160811
US10309165 BB	20190604	US20160234550	20160811

Priority:

EP20150290220 20150825

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER TECH BV ; SCHLUMBERGER TECHNOLOGY BV ; SERVICES PETROLIERS SCHLUMBERGER ; SCHLUMBERGER TECHNOLOGY CORP ; SCHLUMBERGER HOLDINGS

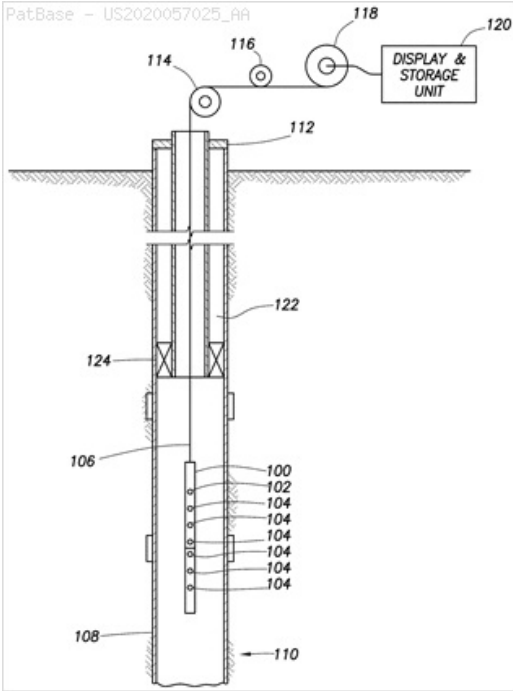
Assignee(s): SCHLUMBERGER HOLDINGS LTD
Inventor(s): (std): CANOLLE FLORENT ; MICHAUD CHRISTOPHE ; BOUFFE MAXIME
Agent(s): LEONORI CELINE; DAE MICHAEL
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

30) Family number: 68589020 (US2020057025A) © PatBase

Title: REDUCTION OF CORE RESPONSE DEPENDENCE ON RADIUS OF FIRST PIPE IN CORROSION DETECTION TOOLS

Abstract: Systems and methods for corrosion detection of downhole tubulars. A method may include disposing a corrosion detection tool in a wellbore, wherein the corrosion detection tool comprises a transmitter comprising a segmented magnetic core, wherein the segmented magnetic core is interspersed with a sense coil and comprises segments with a core air gap between each segment; measuring a signal at a shallow mode to provide a shallow mode measurement; measuring a signal at a deep mode to provide a deep mode measurement; estimating an inner-most subterranean tubular parameter based on the shallow mode measurement; estimating an outer-most subterranean tubular parameter based on the deep mode measurement; and transmitting the inner-most subterranean tubular parameter and the outer-most subterranean tubular parameter to a wellbore surface.

Classifications:
International (IPC 8-9): E21B47/00 G01N17/00 G01N27/82 G01R15/18 (Advanced/Invention)
International (IPC 1-7): G01N27/82 G01R15/18
CPC: G01N27/82 E21B47/00 G01N17/00



Family:

Publication number	Publication date	Application number	Application date
BR112019001604 A2	20190507	BR20191101604	20160812
EP3482197 A1	20190515	EP20160912854	20160812
EP3482197 A4	20200401	EP20160912854	20160812
US2020057025 AA	20200220	US20160736474	20160812
WO18031041 A1	20180215	WO2016US46846	20160812

Priority:

US20160736474 20160812 WO2016US46846 20160812

Probable Assignee: HALLIBURTON CO

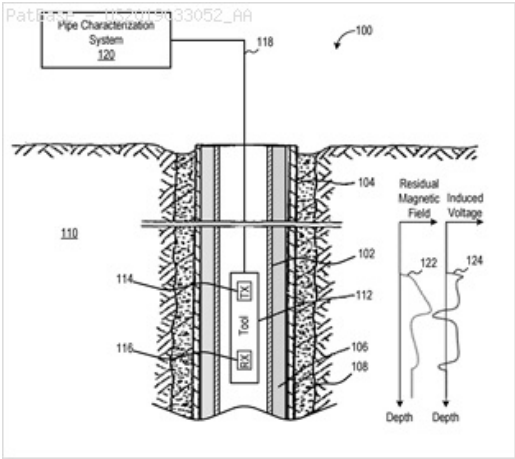
Assignee(s): (std): HALLIBURTON ENERGY SERVICES INC ; HALLIBURTON CO
Inventor(s): (std): LUIS EMILIO SAN MARTIN ; SAN MARTIN LUIS EMILIO ; THOMAS LOUIS YONLEY ; YONLEY THOMAS LOUIS
Agent(s): JENNINGS MICHAEL JOHN; COREY S TUMEY
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW 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

31) Family number: 68589021 (US2019033052A) © PatBase

Title: ELIMINATION OF RESIDUAL MAGNETISM EFFECT IN EDDY CURRENT BASED INSPECTION OF PIPES

Abstract: Methods, systems, and computer program products for inspecting a pipe in a well using an eddy-current based pipe inspection tool comprising conveying the pipe inspection tool through the well, obtaining a first voltage measurement at an axial position along the pipe from at least one main receiver. The first voltage measurement includes a residual voltage induced in the at least one main receiver by a residual magnetic field resulting from residual magnetism in the pipe. A second voltage measurement is obtained at said axial position along the pipe from at least one second receiver. The first voltage measurement and the second voltage measurement are processed to obtain a processed measurement representing a difference between the first and second voltage measurements. The processed measurement is substantially free of the residual voltage and may be used to estimate a thickness of the pipe and other pipe characteristics.

Classifications:
International (IPC 8-9): E21B47/09 E21B47/10 G01B21/08 G01B7/06 G01N27/90 (Advanced/Invention)
International (IPC 1-7): G01B7/06 G01N27/90
CPC: G01B21/08 E21B47/10 G01B7/10 G01N27/9046 E21B47/092 E21B47/0905
US: 1/1 324/221



Family:

Publication number	Publication date	Application number	Application date
BR112019000625 A2	20190424	BR20191100625	20160812
EP3469348 A1	20190417	EP20160912855	20160812
EP3469348 A4	20190807	EP20160912855	20160812
US2019033052 AA	20190131	US20160074412	20160812
US10571242 BB	20200225	US20160074412	20160812
WO18031042 A1	20180215	WO2016US46853	20160812

Priority:

US20160074412 20160812 WO2016US46853 20160812

Probable Assignee: HALLIBURTON CO

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

Inventor(s): (std): SAN MARTIN LUIS ; RIVERA RIOS AIXA MARIA ; KHALAJ AMINEH REZA ; DONDERICI BURKAY ; AMINEH REZA KHALAJ ; REZA KHALAJ AMINEH ; LUIS SAN MARTIN ; BURKAY DONDERICI ; AIXA MARIA RIVERA RIOS

Agent(s): HOFFMANN EITL; LOCKE LORD LLP; NGUYEN DANIEL G 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

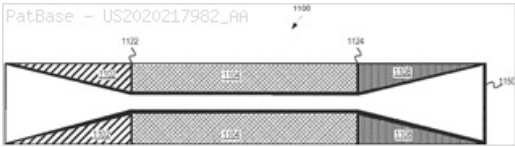
32) Family number: 74107021 (US2020217982A)

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Title: MULTI-COIL TOOL FOR ATTENUATION OF MOTION-INDUCED NOISE

Abstract: A system includes a tool to dispose in a wellbore lined with pipe. The tool includes first and second receiver coils having a non-uniform winding along a longitudinal axis, a third receiver coil having a non-uniform winding coaxial with at least one of the first and second receiver coils, and a transmitter. The system includes a processor to execute instructions to perform operations including causing the transmitter to emit an induced magnetic field, measuring the induced magnetic field using the first receiver coil to create a first measurement and using the first and second receiver coils to create a second measurement. The operations include determining a static magnetic field, selecting the first or second measurement based on a magnitude of the static magnetic field to determine a selected measurement, and determining at least one property of the pipe using the selected measurement.

Classifications:
International (IPC 8-9): G01N17/00 G01N27/82 G01V3/28 (Advanced/Invention)
CPC: G01N27/82 G01N17/04 G01V3/28



Family:

Publication number	Publication date	Application number	Application date
EP3655769 A1	20200527	EP20170929264	20171016
US2020217982 AA	20200709	US20170647790	20171016
WO19078807 A1	20190425	WO2017US56719	20171016

Priority:

US20170647790 20171016 WO2017US56719 20171016

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): HALLIBURTON ENERGY SERVICES INC

Assignee(s): HALLIBURTON CO

Inventor(s): (std): DONDERICI BURKAY ; HILL FREEMAN ; SAN MARTIN LUIS EMILIO ; YONLEY THOMAS LOUIS JOSEPH

Agent(s): BENNETT ADRIAN ROBERT J; XIE ANTU

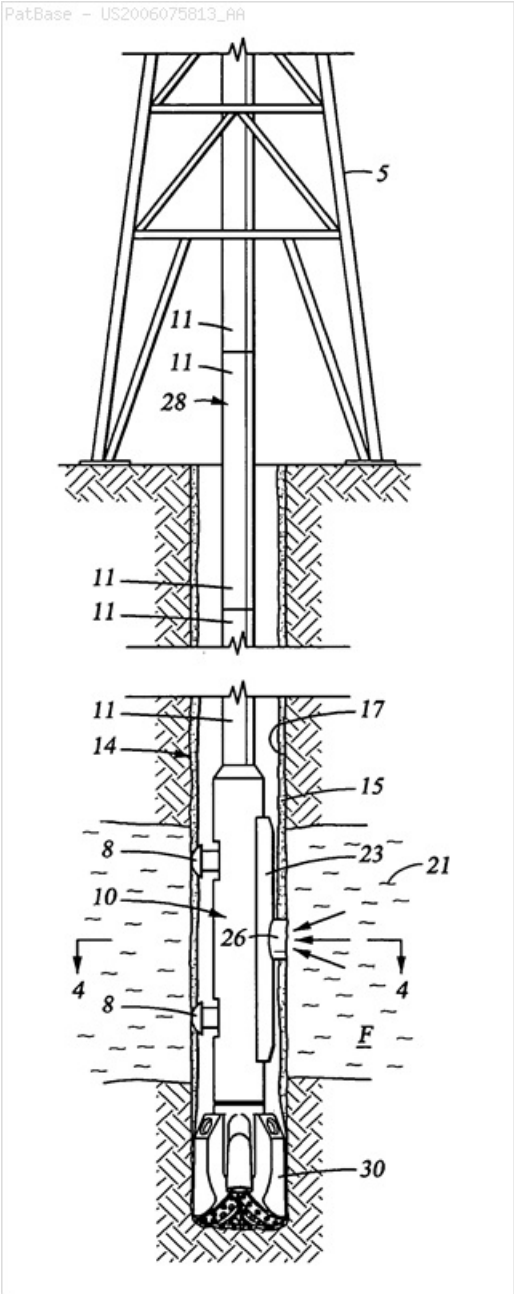
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Title: APPARATUS AND METHOD FOR DRAWING FLUID INTO A DOWNHOLE TOOL

Abstract: An apparatus and method for drawing fluid from a subterranean formation into a downhole tool positioned in a wellbore penetrating the formation is provided. A probe body is extended from the downhole tool for engagement with the wellbore wall. The probe body has at least one inlet extending therethrough for receiving downhole fluids. At least one packer is positioned on an external end of the probe body and adapted to create a seal with the wellbore wall. The packer has an inner surface defining an aperture therethrough in fluid communication with the at least one inlet, and a peripheral surface. An internal packer support is positioned adjacent the inner surface of the packer, and an external packer support is positioned about the peripheral surface of the packer whereby at least a portion of the at least one packer is supported as it is pressed against the wellbore wall.

Classifications:

International (IPC 8-9): E21B49/08 E21B49/10 (Advanced/Invention); E21B49/00 (Core/Invention)
CPC: E21B49/10
European: E21B49/10
US: 166/250.17 73/152.01 73/152.26



Family:

Publication number	Publication date	Application number	Application date
CA2521209 AA	20060407	CA20052521209	20050923
CA2521209 C	20100126	CA20052521209	20050923
US2006075813 AA	20060413	US20040960404	20041007
US7114385 BB	20061003	US20040960404	20041007

Priority:

US20040960404 20041007 CA20052521209 20050923

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): FISSELER PATRICK J ; PALMER THOMAS W II ; SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): SCHLUMBERGER CANADA LTD

Inventor(s): (std): FISSELER PATRICK J ; PALMER THOMAS W II ; PALMER II THOMAS W

Inventor(s): PALMER THOMAS ; FISSELER PATRICK ; PALMER THOMAS W ; PALMER THOMAS WII ; PALMER ; II THOMAS W

34) Family number: 43256022 (US2009128141A)

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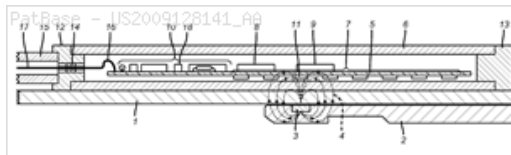
Title: POSITION SENSOR FOR A DOWNHOLE COMPLETION DEVICE

Abstract: The position of a movable downhole component such as a sleeve in a choke valve is monitored and determined using an array of sensors, preferably Hall Effect sensors that measure the strength of a magnetic field from a magnet that travels with the sleeve. The sensors measure the field strength and output a voltage related to the strength of the field that is detected. A plurality of sensors, with readings, transmits signals to a microprocessor to compute the magnet position directly. The sensors are in the tool body and are not mechanically coupled to the sleeve. The longitudinal position of the sleeve is directly computed using less than all available sensors to facilitate the speed of transmission of data and computation of actual position using known mathematical techniques.

Classifications:**International (IPC 8-9):** E21B34/14 E21B47/02 E21B47/024

E21B47/09 G01B7/14 G01V3/08 G01V3/18 (Advanced/Invention);

E21B47/00 E21B47/02 G01B7/14 (Core/Invention)

CPC: E21B47/024 E21B47/09 E21B34/14 Y10T137/0753 E21B47/092 E21B2200/06**European:** E21B47/09B P21B34/00S**US:** 137/38 261/137 324/204 324/207.24 324/207.240P 324/306 324/324 324/325**Family:**

Publication number	Publication date	Application number	Application date
AU2008321223 AA	20090522	AU20080321223	20081106
AU2008321223 BB	20140130	AU20080321223	20081106
EG25486 A	20120115	EG20100050782	20100512
GB201007918 A0	20100630	GB20100007918	20081106
GB2467077 A1	20100721	GB20100007918	20081106
GB2467077 B2	20120627	GB20100007918	20081106
GC1852 A	20110915	GC2008P012157	20081115
MY159474 A	20170113	MY20100002271	20081106
NO20100716 A	20100604	NO20100000716	20100518
NO20100716 L	20100604	NO20100000716	20100518
NO341848 B1	20180205	NO20100000716	20100518
RU2010123976 A	20111227	RU20100123976	20081106
RU2446282 C2	20120327	RU20100123976	20081106
US2009128141 AA	20090521	US20080264318	20081104
US8237443 BB	20120807	US20080264318	20081104
WO09064655 A2	20090522	WO2008US82619	20081106
WO09064655 A3	20090709	WO2008US82619	20081106

Priority:

US20070988460P 20071116 US20080264318 20081104 WO2008US82619 20081106

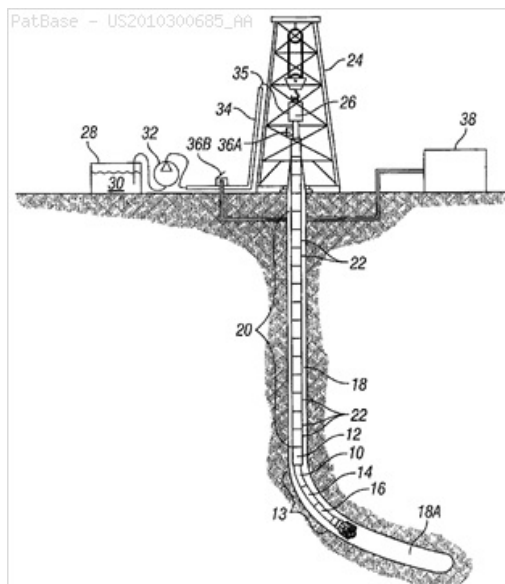
Probable Assignee: BAKER HUGHES INC**Assignee(s):** (std): BAKER HUGHES ; BAKER HUGHES INC ; COUSIN DAN ; COUSIN DANIEL M ; FRANCO JUAN P ; HOPMANN DON A ; JASSER AHMED J ; RANJAN PRIYESH ; YERIAZARIAN LEVON H**Inventor(s):** (std): YERIAZARIAN LEVON H ; RANJAN PRIYESH ; JASSER AHMED J ; HOPMANN DON A ; FRANCO JUAN P ; COUSIN DAN ; RANDZHAN PRAJESH ; COUSIN DANIEL M ; KHOPMANN DON A ; KAZIN DAN ; JASSER AKHMED DZH ; FRANKO KHUAN P ; ERIAZARJAN LEVON KH**Inventor(s):** AHMED J JASSER ; DAN COUSIN ; DANIEL MCOUSIN ; DON A HOPMANN ; JUAN P FRANCO ; LEVON H YERIAZARIAN ; PRIYESH RANJAN**Agent(s):** FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; AHMED NAJDAT BAZARBASHE; DUANE MORRIS LLP - HOUSTON; DUANE MORRIS LLP HOUSTON; CANTOR COLBURN LLP; DUPHORNE DARIN H**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 LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**35) Family number: 47722025** (US2010300685A)

© PatBase

Title: METHOD AND SYSTEM FOR USING WIRELINE CONFIGURABLE WELLBORE INSTRUMENTS WITH A WIRED PIPE STRING

Abstract: A wellbore instrument system includes a pipe string extending from earth's surface into a wellbore. The pipe string includes at least one of an electrical conductor and an optical fiber signal communication channel. A power sub is coupled to at least one wireline configurable wellbore instrument. The power sub is also coupled to the pipe string. The instrument is configured to receive electrical power from the power sub. The instrument includes at least one sensor responsive to at least one of movement of the instrument, change in a instrument operating condition and an environmental condition proximate the instrument. The sensor is configured to transmit signals therefrom over the communication channel.

Classifications:**International (IPC 8-9):** E21B19/00 E21B47/00 E21B47/12 (Advanced/Invention)**CPC:** E21B17/003 E21B47/00 E21B47/135**European:** E21B17/00K E21B47/00 E21B47/12M2**US:** 166/254.2 166/254.200P 166/385 166/385S 175/50



Family:

Publication number	Publication date	Application number	Application date
US2010300685 AA	20101202	US20090475845	20090601
US8136591 BB	20120320	US20090475845	20090601

Priority:

US20090475845 20090601

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): BISSONNETTE HAROLD S ; DEL CAMPO CHRISTOPHER S ; TAHERIAN REZA ; SCHLUMBERGER TECHNOLOGY CORP

Inventor(s): (std): BISSONNETTE HAROLD S ; DEL CAMPO CHRISTOPHER S ; TAHERIAN REZA

Agent(s): SCHLUMBERGER OILFIELD SERVICES; DAVID J

36) Family number: 69102025 (US2018094685A)

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Title: REACTIVE SUPER-ELASTIC COMPOSITE OILFIELD COMPONENTS

Abstract: An oilfield tool can include a composite structure that includes a reactive shape-memory alloy element disposed at least in part in a filler material.

Classifications:

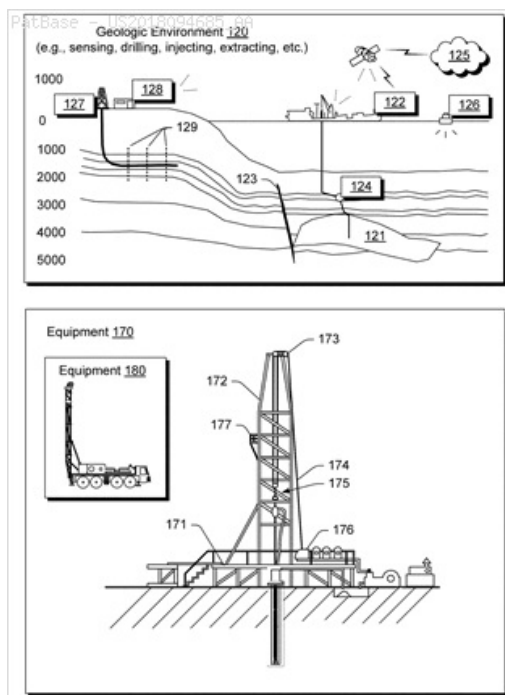
International (IPC 8-9): C04B35/486 C22C19/03 C22C38/02

C22C9/00 F16F1/02 (Advanced/Invention)

CPC: C22C9/00 C22C19/03 C22C38/02 F16F1/02 F16F2224/0258

C04B35/486 F16F1/022

US: 1/1 148/402



Family:

Publication number	Publication date	Application number	Application date
US2018094685 AA	20180405	US20170724242	20171003

Priority:

US20160403528P 20161003 US20170724242 20171003

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER TECH CORP ; SCHLUMBERGER TECHNOLOGY CORP

Inventor(s): (std): MARYA MANUEL P ; SINGH VIRENDRA ; YUN JUSHIK

37) Family number: 43954026 (US2009272578A)

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

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

Classifications:

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

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

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

C10G2300/308 C10G2300/4006 C10G2300/4012 C10G2300/42 C10G2300/807 C10G2400/02 E21B7/18 E21B10/003

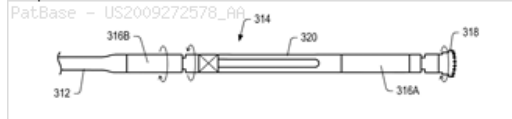
E21B19/08 E21B21/00 E21B21/08 E21B36/001 E21B36/02 E21B36/04 E21B43/119 E21B43/2401 E21B43/2403 E21B43/243

E21B43/281 E21B43/30 E21B43/305 E21B47/022

European: C10G21/22 C10G21/28 E21B10/00C E21B19/08 E21B21/00 E21B21/08 E21B36/00B E21B36/02 E21B36/04

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

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



Family:

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

Priority:

US20080046329P 20080418 US20080104974P 20081013 US20090422084 20090410

Probable Assignee: SHELL OIL CO

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

Assignee(s): SHELL OIL COMPANY

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

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

38) Family number: 42104026 (WO06116122A2)

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Title: SYSTEMS AND PROCESSES FOR USE IN TREATING SUBSURFACE FORMATIONS

Abstract: Systems, methods, and/or heaters for treating subsurface formations are described. Some systems and methods generally relate to heaters and heating systems for subsurface formations. Some systems and methods generally relate to novel components used for these heaters and heating systems. Some systems and methods generally relate to barriers and components associated with barriers used in treating subsurface formations. Some systems and methods generally relate to production wells and novel components for producing fluids from subsurface formations.

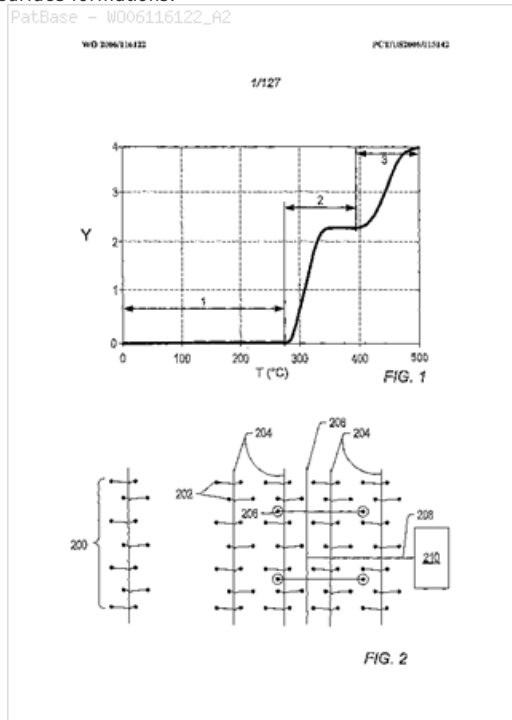
Classifications:

International (IPC 8-9): B60L1/02 E21B36/00 (Advanced/Invention); B60L1/00 E21B36/00 (Core/Invention)

CPC: E21B43/24 C07C4/02 E21B17/028 E21B36/001 E21B36/04 E21B43/243 Y10T29/49179

European: C07C4/02 E21B17/02E E21B36/00B E21B36/04

E21B43/24 E21B43/243



Family:

Publication number	Publication date	Application number	Application date
WO06116122 A2	20061102	WO2006US15142	20060421
WO06116122 A3	20090423	WO2006US15142	20060421

Priority:

US20050674081P 20050422 US20050729763P 20051024

Probable Assignee: SHELL OIL CO

Assignee(s): (std): BASS RONALD MARSHALL ; CARL FREDERICK GORDON ; COIT WILLIAM GEORGE ; COWAN KENNETH MICHAEL ; DEEG WOLFGANG ; DEL PAGGIO ALAN ANTHONY ; DIAZ ZAIDA ; JOHN RANDY CARL ; HARRIS CHRISTOPHER KELVIN ; HSU CHIA FU ; FOWLER THOMAS DAVID ; LAMBIRTH GENE RICHARD ; HIRSHBLOND STEPHEN PALMER ; GRIFFIN PETER TERRY ; FAIRBANKS MICHAEL DAVID ; GINESTRA JEAN CHARLES ; MCKINZIE BILLY JOHN ; KELTNER THOMAS JOSEPH ; MASON STANLEY LEROY ; HAMILTON PAUL TAYLOR ; KIM DONG SUB ; ROES AUGUSTINUS WILHELMUS MARI ; WONG SAU WAI ; STEGEMEIER GEORGE LEO ; MILLER DAVID SCOTT ; VINEGAR HAROLD J ; MENOTTI JAMES ; WATKINS RONNIE WADE ; SCHOEBER WILLEM JAN ANTOON HEN ; SANDBERG CHESTER LEDLIE ; SAMUEL ALLAN JAMES ; NAIR VIJAY ; XIE XUEYING ; SHELL OIL CO ; SHELL INT RESEARCH ; SCHOEBER WILLEM JAN ANTOON HENRI ; ROES AUGUSTINUS WILHELMUS MARIA

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

Inventor(s): (std): WONG SAU WAI ; COWAN KENNETH MICHAEL ; DEEG WOLFGANG ; MCKINZIE BILLY JOHN ; VINEGAR HAROLD J ; COIT WILLIAM GEORGE ; LAMBIRTH GENE RICHARD ; HARRIS CHRISTOPHER KELVIN ; KELTNER THOMAS JOSEPH ; HSU CHIA FU ; MENOTTI JAMES ; SCHOEBER WILLEM JAN ANTOON HEN ; KIM DONG SUB ; GINESTRA JEAN CHARLES ; BASS RONALD MARSHALL ; DEL PAGGIO ALAN ANTHONY ; FAIRBANKS MICHAEL DAVID ; JOHN RANDY CARL ; WATKINS RONNIE WADE ; STEGEMEIER GEORGE LEO ; MASON STANLEY LEROY ; MILLER DAVID SCOTT ; FOWLER THOMAS DAVID ; SAMUEL ALLAN JAMES ; NAIR VIJAY ; ROES AUGUSTINUS WILHELMUS MARI ; GRIFFIN PETER TERRY ; DIAZ ZAIDA ; SANDBERG CHESTER LEDLIE ; HAMILTON PAUL TAYLOR ; HIRSHBLOND STEPHEN PALMER ; XIE XUEYING ; CARL FREDERICK GORDON ; SCHOEBER WILLEM JAN ANTOON HENRI ; ROES AUGUSTINUS WILHELMUS MARIA

Agent(s): CHRISTENSEN DEL S ET AL

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

39) Family number: 54420026 (US2013192841A)

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Title: DUAL GRADIENT MANAGED PRESSURE DRILLING

Abstract: A method of drilling a subsea wellbore includes drilling the wellbore by injecting drilling fluid through a tubular string extending into the wellbore from an offshore drilling unit (ODU) and rotating a drill bit disposed on a bottom of the tubular string. The method further includes, while drilling the wellbore: mixing lifting fluid with drilling returns at a flow rate proportionate to a flow rate of the drilling fluid, thereby forming a return mixture. The lifting fluid has a density substantially less than a density of the drilling fluid. The return mixture has a density substantially less than the drilling fluid density. The method further includes, while drilling the wellbore: measuring a flow rate of the returns or the return mixture; and comparing the measured flow rate to the drilling fluid flow rate to ensure control of a formation being drilled.

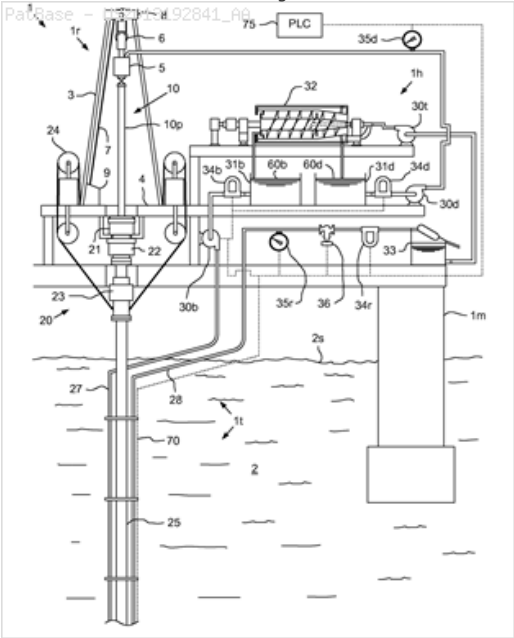
Classifications:

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

E21B7/12 (Advanced/Invention)

CPC: E21B21/08 E21B7/12 E21B21/001

US: 1/1 166/336



Family:

Publication number	Publication date	Application number	Application date
AU2013215165 AA	20130808	AU20130215165	20130130
AU2013215165 BB	20170330	AU20130215165	20130130
BR112014018184 A2	20170620	BR20141118184	20130130
BR112014018184 A8	20170711	BR20141118184	20130130
DE602013040054 D1	20180809	DE201360040054T	20130130
EP2809871 A2	20141210	EP20130704682	20130130
EP2809871 B1	20180711	EP20130704682	20130130
US2013192841 AA	20130801	US20130752804	20130129
US9328575 BB	20160503	US20130752804	20130129
WO13116381 A2	20130808	WO2013US23916	20130130
WO13116381 A3	20140501	WO2013US23916	20130130

Priority:

US20120593018P 20120131 US20130752804 20130129 EP20130704682 20130130
WO2013US23916 20130130

Probable Assignee: WEATHERFORD LAMB INC

Assignee(s): (std): FEASEY GUY F ; MITCHELL MARK A ; PAVEL DAVID ; WEATHERFORD LAMB ; WEATHERFORD TECH HOLDINGS LLC ; WEATHERFORD TECHNOLOGY HOLDINGS LLC

Assignee(s): WEATHERFORD TECHNOLOGY HOLDINGS LLC HOUSTON ; WELLS FARGO BANK NATIONAL ASSOCIATION AGENT AS ; WEATHERFORD LAMB INC ; DEUTSCHE BANK TRUST CO AMERICAS ADMINISTRATIVE AGENT AS

Inventor(s): (std): FEASEY GUY F ; MITCHELL MARK A ; PAVEL DAVID

Inventor(s): PAVEL DAVID KINGWOOD ; MITCHELL MARK A PEARLAND ; FEASEY GUY F HOUSTON ; GUY F FEASEY ; MARK A MITCHELL ; DAVID PAVEL

Agent(s): SPRUSON AND FERGUSON; TALBOT PONSONBY DANIEL FREDERICK; PATTERSON AND SHERIDAN LLP; PATTERSON WILLIAM B ET AL

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

40) Family number: 42104027 (US2007144732A)

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Title: LOW TEMPERATURE BARRIERS FOR USE WITH IN SITU PROCESSES

Abstract: A method of forming and maintaining a low temperature zone around at least a portion of a subsurface treatment area is described. The method includes reducing a temperature of heat transfer fluid with a refrigeration system. The heat transfer fluid is circulated through freeze well canisters and placed in a formation around at least a portion of the subsurface treatment area. An initial temperature of the heat transfer fluid supplied to a first freeze well canister is in a range from about -35 degrees centigrade to about -55 degrees centigrade. At least one of the well canisters includes carbon steel. The heat transfer fluid is returned to the refrigeration system.

Classifications:

International (IPC 8-9): E21B23/00 E21B36/00 E21B43/24

E21B43/30 E21B47/00 (Advanced/Invention);

E21B23/00 E21B36/00 E21B43/00 E21B43/16

E21B47/00 (Core/Invention)

CPC: E21B43/24 C07C4/02 E21B17/028 E21B36/001 E21B36/04

E21B43/243 Y10T29/49179

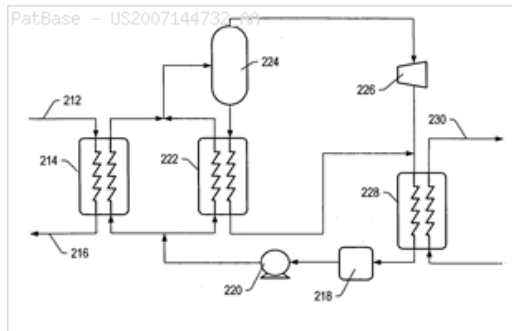
European: C07C4/02 E21B17/02E E21B36/00B E21B36/04

E21B43/24 E21B43/243

US: 166/145 166/242.1 166/245 166/250.01 166/250.010S 166/285

166/302 166/52 166/57 166/75.11 166/75.12 405/130 62/260

62/45.1

**Family:**

Publication number	Publication date	Application number	Application date
US2007144732 AA	20070628	US20060409566	20060421
US7546873 BB	20090616	US20060409566	20060421

Priority:

US20050674081P 20050422 US20050729763P 20051024 US20060409566 20060421

Probable Assignee: SHELL OIL CO

Assignee(s): (std): KIM DONG S ; SHELL OIL CO ; VINEGAR HAROLD J

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): KIM DONG S ; VINEGAR HAROLD J ; KIM DONG SUB

Inventor(s): KIM DONG ; VINEGAR HAROLD

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

41) Family number: 42104028 (US2007137857A)

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Title: LOW TEMPERATURE MONITORING SYSTEM FOR SUBSURFACE BARRIERS

Abstract: A system for monitoring temperature of a subsurface low temperature zone is described. The system includes a plurality of freeze wells configured to form the low temperature zone, one or more lasers, and a fiber optic cable coupled to at least one laser. A portion of the fiber optic cable is positioned in at least one freeze well. At least one laser is configured to transmit light pulses into a first end of the fiber optic cable. An analyzer is coupled to the fiber optic cable. The analyzer is configured to receive return signals from the light pulses.

Classifications:

International (IPC 8-9): E21B36/00 E21B43/24 E21B43/30

E21B47/00 E21B47/06 (Advanced/Invention);

E21B36/00 E21B43/00 E21B43/16 E21B47/00

E21B47/06 (Core/Invention)

CPC: E21B43/24 C07C4/02 E21B17/028 E21B36/001 E21B36/04

E21B43/243 Y10T29/49179

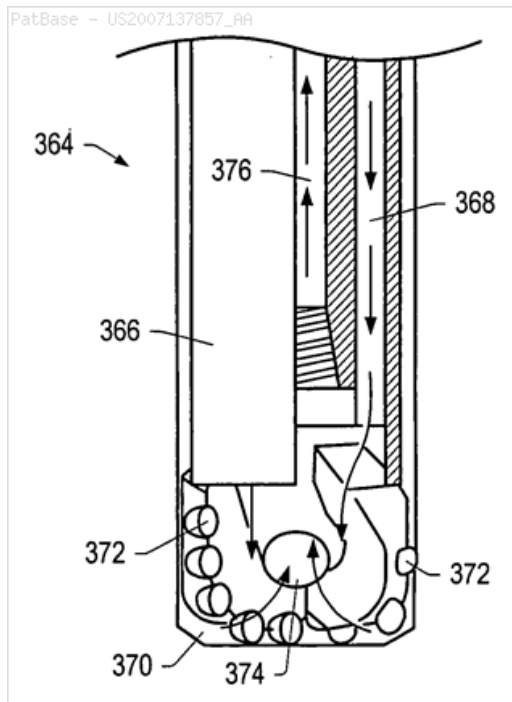
European: C07C4/02 E21B17/02E E21B36/00B E21B36/04

E21B43/24 E21B43/243

US: 166/245 166/250.01 166/250.010S 166/250.14 166/302 166/53

166/57 166/64 166/66 340/854.7 405/130 702/11 702/130

73/152.12

**Family:**

Publication number	Publication date	Application number	Application date
US2007137857 AA	20070621	US20060409563	20060421
US7575053 BB	20090818	US20060409563	20060421

Priority:

US20050674081P 20050422 US20050729763P 20051024 US20060409563 20060421

Probable Assignee: SHELL OIL CO

Assignee(s): (std): MCKINZIE BILLY J II ; SHELL OIL CO ; VINEGAR HAROLD J

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): VINEGAR HAROLD J ; MCKINZIE BILLY J II ; MCKINZIE II BILLY JOHN

Inventor(s): MCKINZIE BILLY JII

Agent(s): SHELL OIL COMPANY

42) Family number: 47540028 (WO12028838A2)

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Title: RELEASABLE CONNECTOR ASSEMBLY FOR TUBING AND TOOL DEPLOYMENT SYSTEM

Abstract: A releasable connector assembly (40) for providing a releasable connection between a tubular member (32) and a payload (20) comprises a first connector (36) adapted to be secured to an end of a tubular member (32) and comprising a first latch component (52), and a second connector (38) adapted to be secured to a payload (20) and comprising a second latch component (54) configured to engage the first latch component (52) when the first and second connectors (36, 38) are engaged together. The connector assembly (40) further comprises a locking arrangement (56) configured to selectively lock the first and second latch components (52, 54) in engagement with each other, and a release mechanism (64) configured to release the locking arrangement (56) and permit disengagement of the first and second latch components (52, 54). The release mechanism (64) comprises a seat portion (66) located within the second connector (54) and configured to receive a release body (70) delivered through the tubular member (32) and first connector (36) to actuate the release mechanism (64).

Classifications:

International (IPC 8-9): E21B17/06 (Advanced/Invention)

CPC: E21B17/06 E21B17/20 E21B23/006

European: E21B17/06 E21B17/20

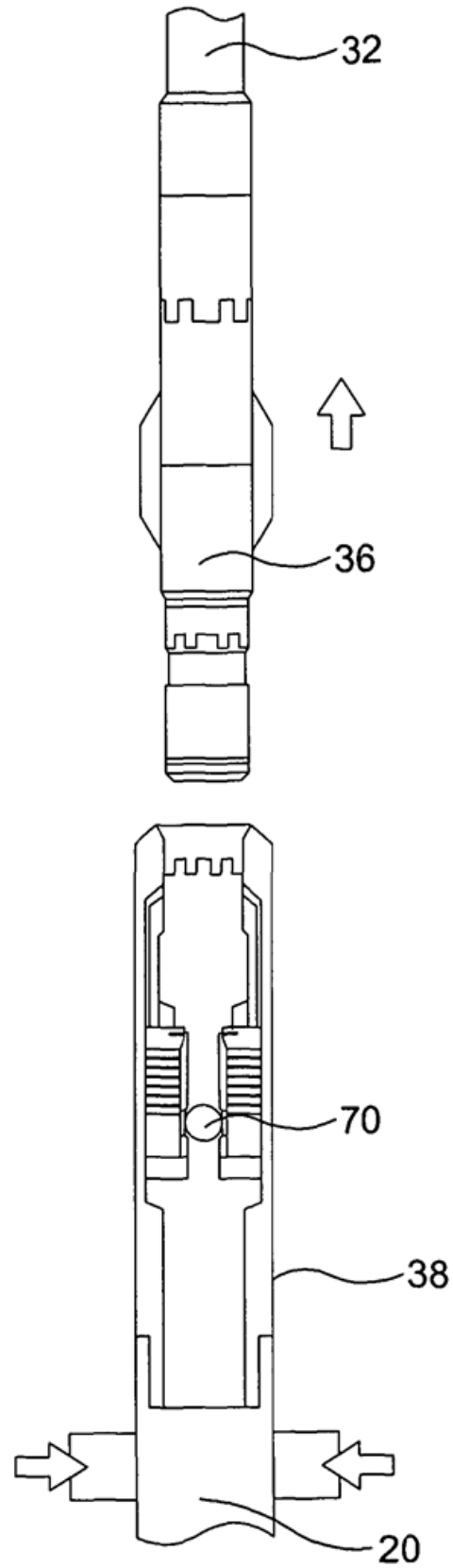


Figure 10

Family:

Publication number	Publication date	Application number	Application date
GB201014441 A0	20101013	GB20100014441	20100828
WO12028838 A2	20120308	WO2011GB01137	20110729
WO12028838 A3	20130425	WO2011GB01137	20110729

Priority:

GB20100014441 20100828

Probable Assignee: EXPRO AX S TECHNOLOGY LTD
Assignee(s): (std): ADAM BRUCE ; AX S TECHNOLOGY LTD ; EXPRO AX S TECHNOLOGY LTD
Inventor(s): (std): ADAM BRUCE
Agent(s): DOCHERTY ANDREW
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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

43) Family number: 42104029 (US2007137856A)

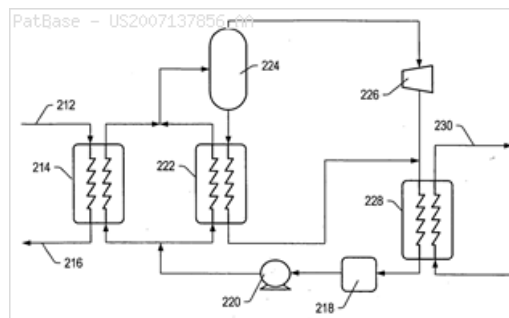
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Title: DOUBLE BARRIER SYSTEM FOR AN IN SITU CONVERSION PROCESS

Abstract: A barrier system for a subsurface treatment area is described. The barrier system includes a first barrier formed around at least a portion of the subsurface treatment area. The first barrier is configured to inhibit fluid from exiting or entering the subsurface treatment area. A second barrier is formed around at least a portion of the first barrier. A separation space exists between the first barrier and the second barrier.

Classifications:

International (IPC 8-9): E21B36/00 E21B43/00 E21B43/24 E21B43/30 E21B47/06 (Advanced/Invention); E21B36/00 E21B43/00 E21B43/16 E21B47/06 (Core/Invention)
CPC: E21B43/24 C07C4/02 E21B17/028 E21B36/001 E21B36/04 E21B43/243 Y10T29/49179
European: C07C4/02 E21B17/02E E21B36/00B E21B36/04 E21B43/24 E21B43/243
US: 166/245 166/250.01 166/250.010S 166/250.07 166/250.14 166/285 166/302 166/57



Family:

Publication number	Publication date	Application number	Application date
US2007137856 AA	20070621	US20060409557	20060421
US7527094 BB	20090505	US20060409557	20060421

Priority:

US20050674081P 20050422 US20050729763P 20051024 US20060409557 20060421

Probable Assignee: SHELL OIL CO

Assignee(s): (std): WONG SAU WAI ; VINEGAR HAROLD J ; MCKINZIE BILLY J ; DEEG WOLFGANG F J ; COWAN KENNETH M ; SHELL OIL CO

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): COWAN KENNETH M ; DEEG WOLFGANG F J ; MCKINZIE BILLY J ; VINEGAR HAROLD J ; WONG SAU WAI ; MCKINZIE BILLY JOHN ; DEEG WOLFGANG FRIEDRICH JOHANN ; COWAN KENNETH MICHAEL

Inventor(s): DEEG WOLFGANG FJ

Agent(s): SHELL OIL COMPANY

44) Family number: 42104030 (US2007133961A)

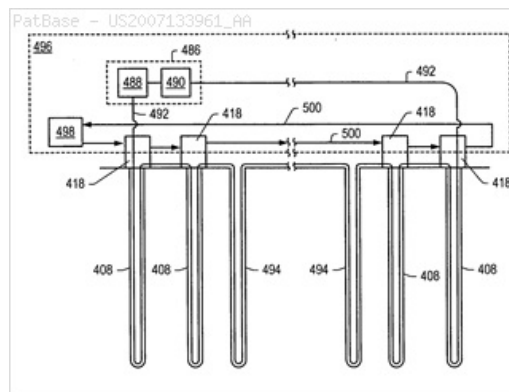
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Title: METHODS AND SYSTEMS FOR PRODUCING FLUID FROM AN IN SITU CONVERSION PROCESS

Abstract: A system that includes a plurality of heat sources configured to heat a portion of a formation is described. At least one production well is in the formation. A bottom portion of the production well is a sump in an underburden of the formation below the heated portion of the formation. Fluids from the heated portion of the formation are allowed to flow into the sump. A pump system has an inlet in the sump. A production conduit is coupled to the pump system. The production conduit is configured to transport fluids in the sump out of the formation.

Classifications:

International (IPC 8-9): E21B36/04 E21B43/00 H05B3/02 (Advanced/Invention); E21B43/00 H05B3/02 (Core/Invention)
CPC: E21B43/24 C07C4/02 E21B17/028 E21B36/001 E21B36/04 E21B43/243 Y10T29/49179
European: C07C4/02 E21B17/02E E21B36/00B E21B36/04 E21B43/24 E21B43/243
US: 166/107 166/248 166/248S 166/61 166/62 392/301 392/301P



Family:

Publication number	Publication date	Application number	Application date
US2007133961 AA	20070614	US20060409564	20060421
US7942197 BB	20110517	US20060409564	20060421

Priority:

Probable Assignee: SHELL OIL CO**Assignee(s):** (std): FAIRBANKS MICHAEL D ; HIRSHBLOND STEPHEN P ; KELTNER THOMAS J ; MCKINZIE BILLY J II ; SHELL OIL CO**Assignee(s):** SHELL OIL COMPANY**Inventor(s):** (std): MCKINZIE II BILLY JOHN ; HIRSHBLOND STEPHEN PALMER ; KELTNER THOMAS JOSEPH ; FAIRBANKS MICHAEL DAVID ; HIRSHBLOND STEPHEN P ; MCKINZIE BILLY J II ; KELTNER THOMAS J ; FAIRBANKS MICHAEL D**Inventor(s):** MCKINZIE BILLY JII**Agent(s):** SHELL OIL COMPANY**45) Family number: 30735030 (US2004141415A)**

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Title: ACOUSTIC ISOLATOR FOR WELL LOGGING SYSTEM

Abstract: An acoustic isolator for attenuating through-tool acoustic signals comprises a plurality of u-shaped link members, where each link member has two sets of ears. A plurality of yoke members are adapted to fit between cooperating sets of ears. A plurality of pins connect the plurality of u-shaped link members to the plurality of yoke members for providing limited flexural compliance. The isolator may be made from metallic and/or composite materials.

Classifications:**International (ipc 8-9):** G01V1/08 G01V1/20 G01V1/30 G01V1/52

G10K11/00 (Advanced/Invention);

G10K11/16 (Advanced/Non-invention);

G01V1/02 G01V1/16 G01V1/28 G01V1/40

G10K11/00 (Core/Invention);

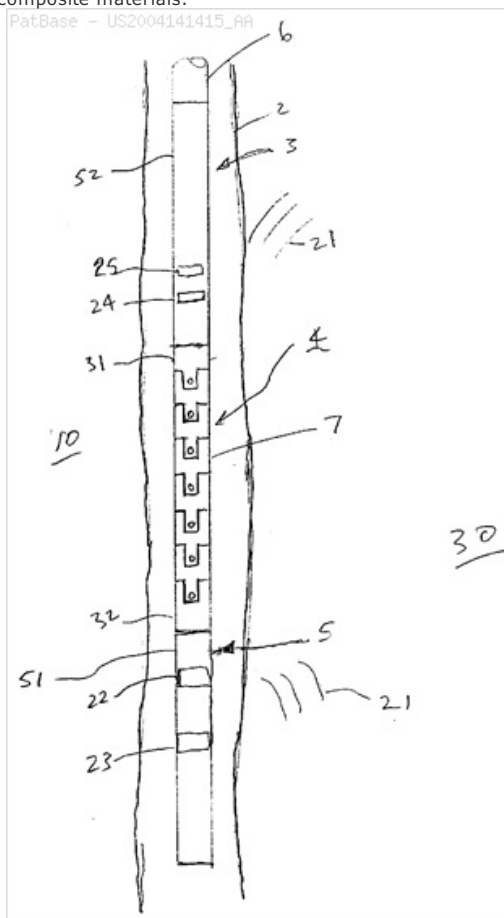
G10K11/00 (Core/Non-invention)

International (ipc 1-7): E21B47/00 G01V1/30 G01V1/38 G01V1/52

G10K11/00

CPC: Y10S367/911 G01V1/523**European:** G01V1/52**US:** 166/254.2 175/50 181/102 181/106 181/113 181/122 181/207

181/208 181/209 181/911 36/72.5 367/162 367/25 367/76 367/911

**Family:**

Publication number	Publication date	Application number	Application date
CA2513728 AA	20050715	CA20042513728	20040116
CA2513728 C	20090106	CA20042513728	20040116
CN1739043 A	20060222	CN200480002265	20040116
DE602004004071 D1	20070215	DE200460004071T	20040116
DE602004004071 T2	20070712	DE200460004071T	20040116
EP1585994 A1	20051019	EP20040703065	20040116
EP1585994 B1	20070103	EP20040703065	20040116
JP2006518451 T2	20060810	JP20060501030T	20040116
RU2005125731 A	20060227	RU20050125731	20040116
RU2339057 C2	20081120	RU20050125731	20040116
US2004141415 AA	20040722	US20030345730	20030116
US2005034858 AA	20050217	US20040889536	20040712
US6820716 BB	20041123	US20030345730	20030116
US7650963 BB	20100126	US20040889536	20040712
WO04065989 A1	20040805	WO2004US01345	20040116

Priority:

US20030345730 20030116

WO2004US01345 20040116

US20040889536 20040712

Probable Assignee: BAKER HUGHES INC**Assignee(s):** (std): BAKER HUGHES ; BAKER HUGHES INC ; BEJKE KH JUZ INKORPOREJTED**Assignee(s):** HARTMANN CHARLES ; REDDING CHARLES E ; PATTERSON DOUGLAS J ; N A ; BEIMGRABEN HERBERT

Inventor(s): (std): REDDING CHARLES E ; BEIMGRABEN HERBERT W ; HARTMANN CHARLES ; REDDING CHARLES ; BEIMGRABEN HERBERT ; PATTERSON DOUGLAS ; PATTERSON DOUGLAS J ; DOUGLAS REDDING CHARLES E BEIM ; KHARTMANN CHARLZ ; PATTERSON DUGLAS DZH ; REDDING CHARLZ ; BEJMGRABEN GERBERT

Inventor(s): REDDING CHARLES E BEIMGRABEN HERBERT W HARTMANNCHA

Agent(s): SIM AND MCBURNEY; FUKUMURA NAOKI; MADAN MOSSMAN AND SRIRAM PC; MADAN AND SRIRAM PC

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

46) Family number: 68260031 (US2019316425A)

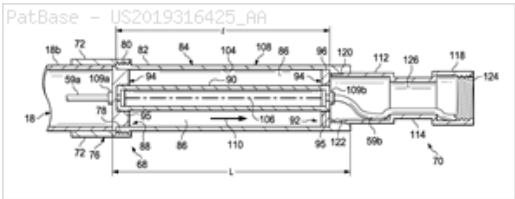
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Title: FLOW THROUGH WIRELINE TOOL CARRIER

Abstract: A carrier system may be used to position a wireline tool within a wellbore. The system includes a wireline tool carrier disposed on the end of a coiled tubing string. The wireline carrier tool includes a tubular member and stabilizers which secure the wireline tool within an internal passageway of the tubular member. The internal passageway defines a fluid flow path which facilitates fluid communication between the coiled tubing string and any device or wellbore portion below the wireline tool carrier. As the system is advanced within the wellbore fluid is conveyed around the wireline tool through the fluid flow path to remove obstructions that would otherwise inhibit the placement of the wireline tool within a deviated wellbore. Fluid conveyed through the system and around the wireline tool may also be used to perform various well stimulation and intervention functions.

Classifications:

International (IPC 8-9): E21B17/10 E21B17/18 E21B19/22 E21B23/00 E21B47/01 (Advanced/Invention)
CPC: E21B17/1078 E21B37/00 E21B23/00 E21B47/01 E21B17/18 E21B19/22 E21B49/00



Family:

Publication number	Publication date	Application number	Application date
CA3026846 AA	20181206	CA20163026846	20160715
GB201818970 A0	20190109	GB20180018970	20160715
GB2565020 A1	20190130	GB20180018970	20160715
NO20181562 A	20181204	NO20180001562	20181204
US2019316425 AA	20191017	US20160308958	20160715
WO18013143 A1	20180118	WO2016US42642	20160715

Priority:

US20160308958 20160715 WO2016US42642 20160715

Probable Assignee: HALLIBURTON CO

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

Assignee(s): WISINGER JOHN LESLIE JR ; ZACHARKO JONATHAN PETER

Inventor(s): (std): WISINGER JR JOHN LESLIE ; NISINGER JR JOHN LESLIE ; WISINGER JOHN LESLIE ; ZACHARKO JONATHAN PETER ; WISINGER JOHN LESLIE JR ; JOHN LESLIE WISINGER JR ; JONATHAN PETER ZACHARKO

Inventor(s): WISINGER JR

Agent(s): NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; BORLAND HAROLD 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

47) Family number: 42104031 (US2007133960A)

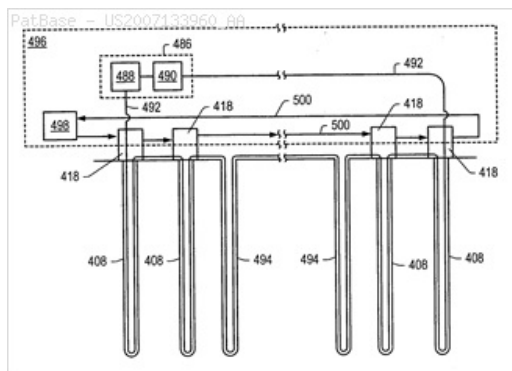
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Title: IN SITU CONVERSION PROCESS SYSTEMS UTILIZING WELLBORES IN AT LEAST TWO REGIONS OF A FORMATION

Abstract: A system for heating a subsurface formation is described. The system includes a plurality of elongated heaters located in a plurality of openings in the formation. At least two of the heaters are substantially parallel to each other for at least a portion of the lengths of the heaters. At least two of the heaters have first end portions in a first region of the formation and second end portions in a second region of the formation. A source of time-varying current is configured to apply time-varying current to at least two of the heaters. The first end portions of at least two heaters are configured to have substantially the same voltage applied to them. The second portions of at least two heaters are configured to have substantially the same voltage applied to them.

Classifications:

International (IPC 8-9): E21B43/00 H05B3/02 (Advanced/Invention); E21B43/00 H05B3/02 (Core/Invention)
CPC: E21B43/24 C07C4/02 E21B17/028 E21B36/001 E21B36/04 E21B43/243 Y10T29/49179
European: C07C4/02 E21B17/02E E21B36/00B E21B36/04 E21B43/24 E21B43/243
US: 166/248 166/248S 166/302 29/860 392/301 392/301P



Family:

Publication number	Publication date	Application number	Application date
US2007133960 AA	20070614	US20060409558	20060421
US8027571 BB	20110927	US20060409558	20060421

Priority:

US20050674081P 20050422 US20050729763P 20051024 US20060409558 20060421

Probable Assignee: SHELL OIL CO

Assignee(s): (std): HSU CHIA FU ; SHELL OIL CO ; VINEGAR HAROLD J

Assignee(s): SHELL OIL COMPANY ; SALAMANDER SOLUTIONS INC

Inventor(s): (std): VINEGAR HAROLD J ; HSU CHIA FU

Agent(s): SHELL OIL COMPANY

48) Family number: 42104032 (US2007133959A)

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Title: GROUPED EXPOSED METAL HEATERS

Abstract: A system for treating a hydrocarbon containing formation is described. The system includes two or more groups of elongated heaters. The group includes two or more heaters placed in two or more openings in the formation. The heaters in the group are electrically coupled below the surface of the formation. The openings include at least partially uncased wellbores in a hydrocarbon layer of the formation. The groups are electrically configured such that current flow through the formation between at least two groups is inhibited. The heaters are configured to provide heat to the formation.

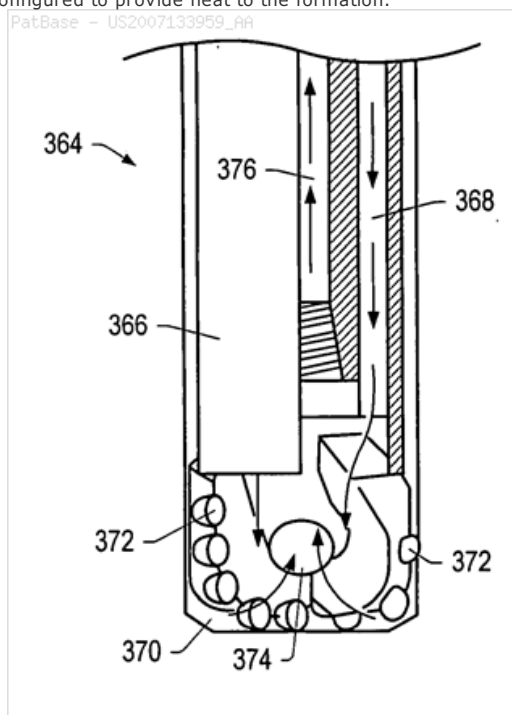
Classifications:

International (IPC 8-9): E21B43/00 H05B3/02 (Advanced/Invention); E21B43/00 H05B3/02 (Core/Invention)

CPC: E21B43/24 C07C4/02 E21B17/028 E21B36/001 E21B36/04 E21B43/243 Y10T29/49179

European: C07C4/02 E21B17/02E E21B36/00B E21B36/04 E21B43/24 E21B43/243

US: 166/248 166/248S 166/302 392/301 392/301P



Family:

Publication number	Publication date	Application number	Application date
US2007133959 AA	20070614	US20060409525	20060421
US7831134 BB	20101109	US20060409525	20060421

Priority:

US20050674081P 20050422 US20050729763P 20051024 US20060409525 20060421

Probable Assignee: SHELL OIL CO

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Assignee(s): SHELL OIL COMPANY

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GRIFFIN PETER T ; VINEGAR HAROLD J ; HSU CHIA FU ; SAMUEL ALLAN JAMES ; MASON STANLEY LEROY ; WATKINS RONNIE WADE ; GRIFFIN PETER TERRY ; HAMILTON PAUL TAYLOR ; COIT WILLIAM GEORGE

Inventor(s): WATKINS RONNIE ; COIT WILLIAM ; GRIFFIN PETER ; SAMUEL ALLAN ; HAMILTON PAUL ; VINEGAR HAROLD ; MASON STANLEY

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

49) Family number: 67077032 (US2017276832A)

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Title: ESTIMATING PARAMETERS OF ARCHIE'S LAW AND FORMATION TEXTURE INFORMATION

Abstract: Methods and apparatus for evaluating an earth formation for generating a numerical model comprising an expression equating a representation for the effective conductivity under Archie's law with respect to direct current with a function for the effective conductivity representative of the mixing model with respect to direct current; and solving a system of equations to obtain values for the Archie parameters including at least i) the expression; ii) a second expression equating a first order variation of the representation with a first order variation of the function with respect to water saturation of the formation (Sw); and iii) a third expression equating a first order variation of the representation with a first order variation of the function with respect to porosity of the formation (f). The second and third expressions may equate derivatives of the representation with derivatives of the function.

Classifications:

International (IPC 8-9): E21B49/00 G01V1/28 G01V1/30 G01V3/08 G01V3/28 G01V3/38 G01V99/00 G06F17/10

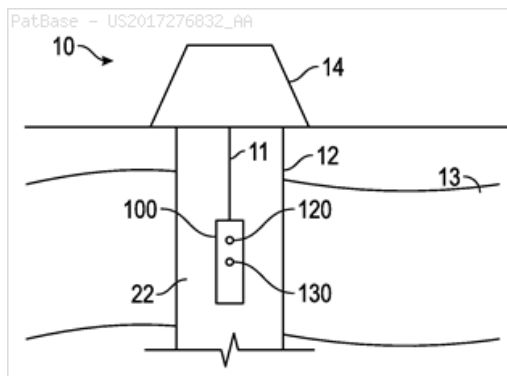
G06F17/11 (Advanced/Invention);

G01V99/00 (Advanced/Non-invention)

International (IPC 1-7): G01V1/28 G01V1/30 G06F17/10

CPC: G01V99/005 E21B49/00 G01V3/08 G01V3/28 G01V3/38

US: 1/1 703/2



Family:

Publication number	Publication date	Application number	Application date
BR112018068583 A2	20190212	BR20181168583	20170322
GB201817259 A0	20181205	GB20180017259	20170322
GB2564795 A1	20190123	GB20180017259	20170322
NO20181295 A	20181009	NO20180001295	20181009
US2017276832 AA	20170928	US20160081434	20160325
WO17165480 A2	20170928	WO2017US23522	20170322
WO17165480 A3	20180823	WO2017US23522	20170322

Priority:

US20160081434 20160325 WO2017US23522 20170322

Probable Assignee: BAKER HUGHES INC

Assignee(s): (std): BAKER HUGHES A GE CO LLC ; BAKER HUGHES INC

Inventor(s): (std): BABAK KOUCHMESHKY ; KHOKHAR RASHID W ; KOUCHMESHKY BABAK ; RASHID W KHOKHAR

Agent(s): CARSON MATT W

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC 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

50) Family number: 42104033 (US2007119098A)

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Title: TREATMENT OF GAS FROM AN IN SITU CONVERSION PROCESS

Abstract: A method of producing methane is described. The method includes providing formation fluid from a subsurface in situ conversion process. The formation fluid is separated to produce a liquid stream and a first gas stream. The first gas stream includes olefins. At least the olefins in the first gas stream are contacted with a hydrogen source in the presence of one or more catalysts and steam to produce a second gas stream. The second gas stream is contacted with a hydrogen source in the presence of one or more additional catalysts to produce a third gas stream. The third gas stream includes methane.

Classifications:

International (IPC 8-9): B01J8/02 C01B3/32 E21B43/00

H01M8/06 (Advanced/Invention);

C01B3/00 E21B43/00 (Core/Invention)

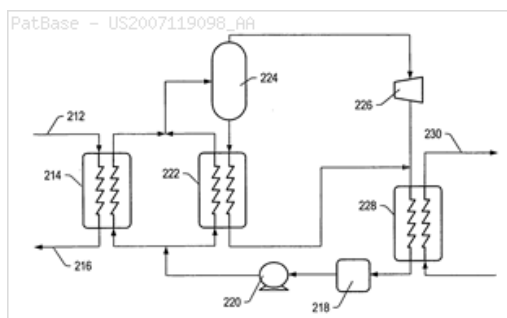
CPC: Y10T29/49179 E21B43/24 C07C4/02 E21B17/028 E21B36/001

E21B36/04 E21B43/243

European: C07C4/02 E21B17/02E E21B36/00B E21B36/04

E21B43/24 E21B43/243

US: 166/248 166/248S 422/198 48/127.3 48/127.300P 48/197.00R 48/197R



Family:

Publication number	Publication date	Application number	Application date
■ US2007119098 AA	20070531	US20060409524	20060421
■ US8070840 BB	20111206	US20060409524	20060421

Priority:

US20050674081P 20050422 US20050729763P 20051024 US20060409524 20060421

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Assignee(s): (std): DEL PAGGIO ALAN ANTHONY ; ROES AUGUSTINUS WILHELMUS MARIA ; SHELL OIL CO ; ROES AUGUSTINUS W M ; PAGGIO ALAN A D ; NAIR VIJAY ; DIAZ ZAIDA

Assignee(s): SHELL OIL COMPANY

Inventor(s): (std): ROES AUGUSTINUS WILHELMUS MARIA ; ROES AUGUSTINUS W M ; PAGGIO ALAN A D ; NAIR VIJAY ; DIAZ ZAIDA ; DEL PAGGIO ALAN ANTHONY

Inventor(s): PAGGIO ALAN ; ROES AUGUSTINUS ; PAGGIO ALAN AD ; ROES AUGUSTINUS WM

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