

Search history

Search 1: TAC=((system AND method) NEAR (measure# OR monitor*)) and PD<20131218 and IC=(E21B43* OR E21B23* OR E21B47*) (Results 252)

Search 2: 2 AND (FT = (downhole OR wireline) W3 tool) (Results 13456)

Search 3: 1 AND (FT = (downhole OR wireline) W3 tool) (Results 54)

Search 4: 3 AND (FT = (stimulat* NEAR (operation OR service))) (Results 2)

Search 5: 3 AND (FT = (fractur* NEAR pressure#)) (Results 6)

Search 6: FT=((system AND method) NEAR (measure# OR monitor*)) and PD<20131218 and IC=(E21B43* OR E21B23* OR E21B47*) (Results 425)

Search 7: 6 AND (FT = (downhole OR wireline) W3 tool) (Results 91)

Search 8: 7 AND (FT = (fractur* NEAR pressure#)) (Results 10)

Title: METHOD AND **SYSTEM** FOR REAL-TIME **MONITORING** OF EARTH FORMATION FRACTURE MOVEMENT

Abstract: Source: US5442173A A **method** of **monitoring** formation fractures in real-time is performed in which a fluid containing a radio-active tracer element is pumped at a high pressure down a wellbore into a formation. As the fluid creates fractures and moves through the formation gamma-rays are emitted from the radio-active tracer element in the fluid. Detector means placed at predetermined locations in the wellbore continuously detect these gamma-rays. Gamma-rays emitted from wellbore fracture fluids are distinguished from formation gamma-rays and the detected formation gamma-rays are counted. As the fracture fluid approaches the height or vertical depth of these detector means, the gamma-ray count increases. Once the gamma-ray count reaches a predetermined level, the fracture will have reached a desired location in the formation and pumping of the fracture fluid will stop.

Classifications:

International (IPC 8-9): E21B43/26 E21B47/10 G01V5/00

G01V5/12 (Advanced/Invention);

E21B43/25 E21B47/10 G01V5/00 (Core/Invention)

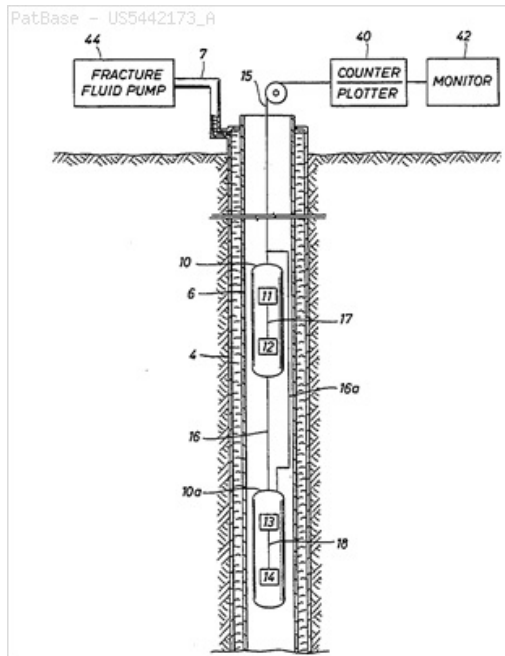
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G01V5/00 G01V5/04 G01V5/12

CPC: E21B43/26 E21B47/1015 G01V5/12

European: E21B43/26 E21B47/10G G01V5/12

US: 250/259 250/260



Family:

Publication number	Publication date	Application number	Application date
CA2143892 AA	19950905	CA19952143892	19950303
CA2143892 C	20051025	CA19952143892	19950303
GB2287093 A1	19950906	GB19950004212	19950302
GB2287093 B2	19980408	GB19950004212	19950302
GB9504212 A0	19950419	GB19950004212	19950302
NO311312 B1	20011112	NO19950000853	19950303
NO950853 A	19950905	NO19950000853	19950303
NO950853 A0	19950303	NO19950000853	19950303
US5442173 A	19950815	US19940206983	19940304

Priority:

CA19952143892 19950303 US19940206983 19940304

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER LTD ; SCHLUMBERGER TECHNOLOGY CORP ; SCHLUMBERGER TECHNOLOGY BV ; ENERGEX CO ; SCHLUMBERGER CA LTD

Assignee(s): SCHLUMBERGER CANADA LTD ; WRAIGHT PETER D

Inventor(s): (std): WRAIGHT PETER D

Inventor(s): PETER D WRAIGHT

Agent(s): SMART AND BIGGAR

Title: IN-SITU DETECTION AND ANALYSIS OF METHANE IN COAL BED METHANE FORMATIONS WITH SPECTROMETERS

Abstract: Source: US2003048450A A **measuring system** for in-situ measurements down a well (1) by a spectrometer (4) is provided. The spectrometer (4) includes a radiation source (5) and a detector (6). A probe (15) optically connected to the spectrometer (4) and includes an optical pathway (7) for transmission of a radiation from the radiation source (5) and at least a second optical pathway for transmission of a characteristic radiation from a sample to the detector (6). A positioner is provided to position the probe (15) near a side surface (11) of the borehole (3) and to optically couple the optical pathways (7) to the side surface (11), wherein the probe (15) is traversable up and down the well (1) by way of a guide operatively connected to the probe (15) and to a fixed location at the wellhead. By use of the apparatus and method a concentration of methane or other substance of interest is obtained, and thereby, a potential production of a coal bed methane formation is obtained.

Classifications:

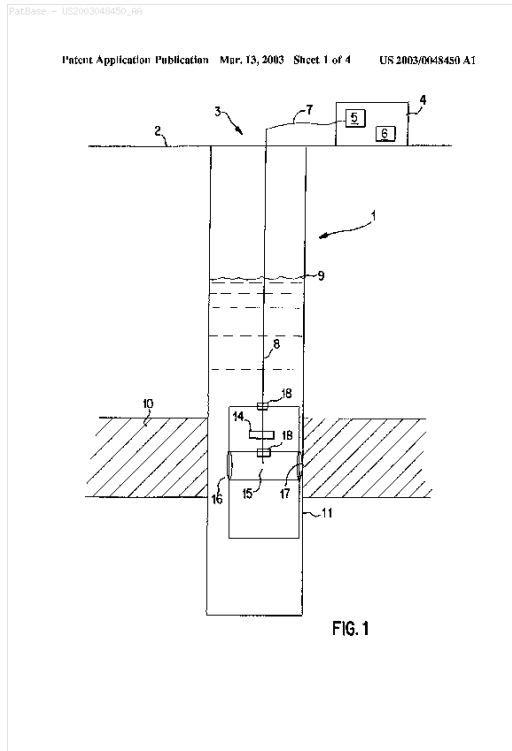
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International (IPC 1-7): G01J3/28 G01N21/00 G01N21/35 G01N21/65

CPC: E21B43/006 G01V9/007 E21B49/00 E21B49/088 E21B47/102 G01N21/27 G01V8/10 G06T15/503 G06T17/05 G06T19/20 G06T2219/2012 G01V1/345 G01V1/133 G01V2210/74 G06T11/001 E21B47/10 E21B49/08 E21B49/087 G01N21/8507 G01J3/28 G01N21/359 G01N21/65 G01N2021/3155 G01V8/02

European: E21B43/00M E21B47/10 E21B49/08T G01J3/28 G01N21/85B G01V9/00C S01N21/31D5 S01N21/35G S01N21/65

US: 166/250.01 166/250.17 166/264 166/66 250/256 250/269.1 345/420 356/301 356/326 356/435 356/435P 356/436 356/437 73/152.24 73/152.36 73/31.05 73/31.050P

**Family:**

Publication number	Publication date	Application number	Application date
AU2001255282 AA	20011023	AU20010255282	20010411
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AU200155282 A1	20011023	AU20010055282	20010411
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EP1859126 A2	20071128	EP20060738175	20060314
PL365462 A1	20050110	PL20010365462	20010411
US2003048450 AA	20030313	US20020266638	20021009
US2004061858 AA	20040401	US20030668228	20030924
US2011036146 AA	20110217	US20100912725	20101026
US2012227960 AA	20120913	US20070855945	20070914
US2012312530 AA	20121213	US20120545334	20120710
US2014138528 AA	20140522	US20140164215	20140126
US2014245826 AA	20140904	US20140250647	20140411
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US2014246574 AA	20140904	US20140250552	20140411
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US8760657 BB	20140624	US20120545334	20120710
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US8904858 BB	20141209	US20140250647	20140411

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WO06099399 A3	20070315	WO2006US09087	20060314

Priority:

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WO2001US11563	20010411	US20120545334	20120710	US20120602939P	20120224
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US20140928563P	20140117	US20140937757P	20140210	US20150120440	20150330

Probable Assignee: GAS SENSING TECHNOLOGY CORP

Assignee(s): (std): BUTTRY DANIEL ; COX RICK ; DEEB CHRIS ; GAS SENSING TECHNOLOGY CORP ; HERRIES JOHN ; POPE JOHN ; WELLD OG ; WELLD OG INC ; WELL DOG INC ; POPE JOHN M ; MORGAN QUENTIN PETER WILLIAM ; TOEWS ARTHUR R ; SIGMA CUBED INC ; HILDEBRAND MARC ; SPICER SEAN

Assignee(s): POPE JOHN WELLD OG INC HERRIES JOHN ; ENERTECH CAPITAL PARTNERS II LP ; ENERTECH CAPITAL PARTNERS II LP SECURED PARTY AND ; ENERTECH CAPITAL PARTNERS II LP SECURED PARTY AND AGENT FOR OTHER SECURED PARTIES AS

Inventor(s): (std): HERRIES JOHN ; POPE JOHN ; TOEWS ARTHUR R ; SPICER SEAN ; POPE JOHN M ; MORGAN QUENTIN PETER WILLIAM ; MORGAN QUENTIN ; HILDEBRAND MARC ; DEEB CHRIS ; COX RICK ; BUTTRY DANIEL

Inventor(s): DANIEL BUTTRY ; JOHN POPE ; JOHN HERRIES ; RICK COX

Agent(s): GRIFFITH HACK; FISHER ADAMS KELLY; FISHER ADAMS KELLY CALLINANS; FISHER ADAMS KELLY PTY LTD; OSLER HOSKIN AND HARCOURT LLP; CASSAN MACLEAN; CROWELL AND MORING LLP;INTELLECTUAL PROPERTY GROUP; CROWELL AND MORING LLP INTELLECTUAL PROPERTY GROUP; WILLIAM G; DAVID

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

Title: METHOD AND APPARATUS FOR PLACING AND INTERROGATING DOWNHOLE SENSORS

Abstract: Source: US2002179301A A **method** and **system** to passively **monitor** cement integrity and reservoir/formation parameters near the wellbore at all depths and orientations outside a wellbore. Different types (pressure, temperature, resistivity, rock property, formation property etc.) of sensors are "pumped" into place by placing them into a suspension in the cement slurry at the time a well casing is being cemented, by placing them in gravel pack used in frackpacking, or by a deflected drilling tool. The sensors are either battery operated, or of a type where external excitation, (EMF, acoustic, RF etc.) may be applied to power and operate the sensor, which will send a signal conveying the desired information. The sensor is then be energized and interrogated using a separate piece of wellbore deployed equipment whenever it is desired to monitor cement or formation conditions. This wellbore deployed equipment could be, for example, a **wireline tool**.

Classifications:

International (IPC 8-9): E21B33/00 E21B47/00 E21B47/01

E21B49/00 E21B7/06 (Advanced/Invention);

E21B47/00 E21B7/04 (Core/Invention)

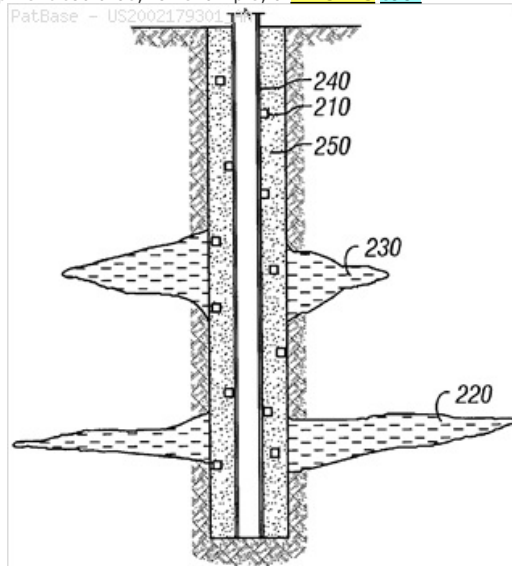
International (IPC 1-7): E21B E21B E21B33/00 E21B33/13

E21B47/00 E21B49/00

CPC: E21B7/061 E21B47/01

European: E21B47/01 E21B7/06B

US: 166/113 166/250.01 166/250.14 166/253.1 166/285 166/381 175/50

**Family:**

Publication number	Publication date	Application number	Application date
AU2002222950 AA	20020130	AU20020222950	20010717
AU2002222950 A1	20020130	AU20020022950	20010717
AU2002222950 A5	20020130	AU20020022950	20010717
CA2416111 AA	20030116	CA20012416111	20010717
EP1305499 A1	20030502	EP20010984256	20010717
NO20030200 A	20030305	NO20030000200	20030115
NO20030200 A0	20030115	NO20030000200	20030115
US2002179301 AA	20021205	US20020178188	20020624
US6408943 BA	20020625	US20000617212	20000717
WO0206628 A1	20020124	WO2001US22483	20010717

Priority:

US20000617212 20000717

US20020178188 20020624

WO2001US22483 20010717

Probable Assignee: HALLIBURTON ENERGY SERVICES INC

Assignee(s): (std): BAYH RUSSELL IRVING ; BAYH RUSSELL IRVING III ; HALLIBURTON ENERGY SERV INC ; MAHJOUB NADIR ; NUTLEY BRIAN GEORGE ; ROBISON CLARK EDWARD ; STEWART BENJAMIN BERNHARDT III ; OAG JAMIE GEORGE ; STEWART BENJAMIN BERNHARDT ; SCHULTZ ROGER ; SCHULTZ ROGER LYNN

Assignee(s): BAYH III RUSSELL IRVING ; RUSSELL IRVING BAYH III ; ROGER LYNN SCHULTZ ; STEWART III BENJAMIN BERNHARDT ; NADIR MAHJOUB ; HALLIBURTON ENERGY SERVICES INC ; JAMIE GEORGE OAG ; BENJAMIN BERNHARDT STEWART III ; BRIAN GEORGE NUTLEY ; CLARK EDWARD ROBISON

Inventor(s): (std): BAYH III RUSSELL IRVING ; BAYH RUSSELL IRVING ; BAYH RUSSELL IRVING III ; NUTLEY BRIAN GEORGE ; OAG JAMIE GEORGE ; ROBISON CLARK EDWARD ; SCHULTZ ROGER LYNN ; STEWART BENJAMIN BERNHARDT ; STEWART BENJAMIN BERNHARDT III ; STEWART III BENJAMIN BERNHARDT ; MAHJOUB NADIR

Inventor(s): NADIR MAHJOUB ; ROGER LYNN SCHULTZ ; RUSSELL IRVING BAYH III ; BENJAMIN BERNHARDT STEWART III ; BRIAN GEORGE NUTLEY ; CLARK EDWARD ROBISON ; JAMIE GEORGE OAG

Agent(s): BENNETT JONES LLP

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

Title: **SYSTEM** AND **METHOD** FOR **MONITORING** EROSION

Abstract: Source: US2005248334A A **system** and **method** for **monitoring** erosion include a sensor (204) that is embedded in a substrate (202) having a first surface (206) that is subject to erosion and a second surface (208). The sensor (204) has a first mode in which the sensor (204) is responsive to RF interrogation (216) from a detector (212) and a second mode in which the sensor (204) is non-responsive to the RF interrogation. The sensor (204) transitions from the first mode to the second mode in response to being disabled due to contact with the erosive agent causing the erosion of the first surface (206). When the sensor (204) has transitioned to the second mode, this indicates that a predetermined level of erosion of the first surface (206) has occurred.

Classifications:

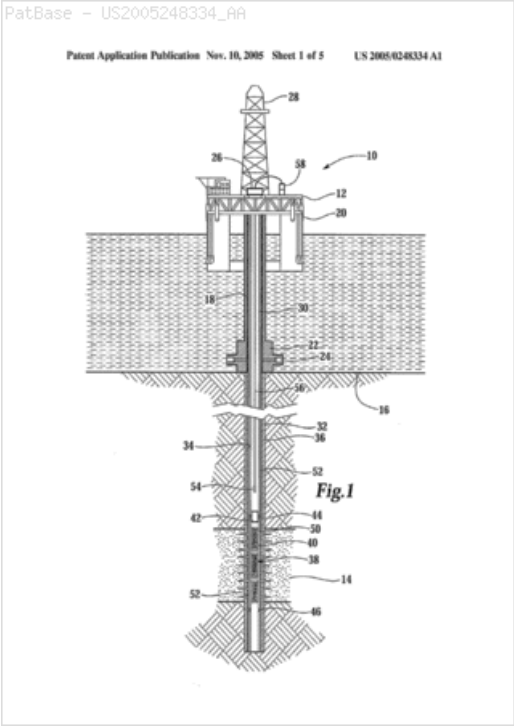
International (IPC 8-9): E21B12/02 E21B47/00 G01N17/00 G01N23/00 (Advanced/Invention); E21B12/00 E21B47/00 G01N17/00 G01N23/00 (Core/Invention)

International (IPC 1-7): E21B47/00 G01N17/00 G01N23/00

CPC: E21B47/00

European: E21B47/00 G01N17/00

US: 166/250.01 324/71.2 73/152.28 73/152.46 73/152.53 73/152.54 73/152.57 73/86



Family:

Publication number	Publication date	Application number	Application date
US2005248334 AA	20051110	US20040841780	20040507
US2008128126 AA	20080605	US20080017483	20080122
US7594434 BB	20090929	US20080017483	20080122

Priority:

US20040841780 20040507 US20080017483 20080122

Probable Assignee: HALLIBURTON ENERGY SERVICES INC

Assignee(s): (std): DAGENAIS PETE C ; HALLIBURTON ENERGY SERV INC ; JESUS ORLANDO D ; LI LIPING

Assignee(s): HALLIBURTON ENERGY SERVICES INC

Inventor(s): (std): DAGENAIS PETE C ; JESUS ORLANDO D ; LI LIPING ; DE JESUS ORLANDO

Inventor(s): DAGENAIS PETE ; JESUS ORLANDO DE ; JESUS ORLANDO

Agent(s): LAWRENCE R YOUST DANAMRAJ AND YOUST PC; LAWRENCE R YOUST; LAWRENCE R

Title: SYSTEM AND METHODS USING FIBER OPTICS IN COILED TUBING

Abstract: Source: US2005263281A Apparatus having a fiber optic tether disposed in coiled tubing for communicating information between **downhole tools** and sensors and surface equipment and methods of operating such equipment. Wellbore operations performed using the fiber optic enabled coiled tubing apparatus includes transmitting control signals from the surface equipment to the downhole equipment over the fiber optic tether, transmitting information gathered from at least one downhole sensor to the surface equipment over the fiber optic tether, or collecting information by measuring an optical property observed on the fiber optic tether. The **downhole tools** or sensors connected to the fiber optic tether may either include devices that manipulate or respond to optical signal directly or tools or sensors that operate according to conventional principles.

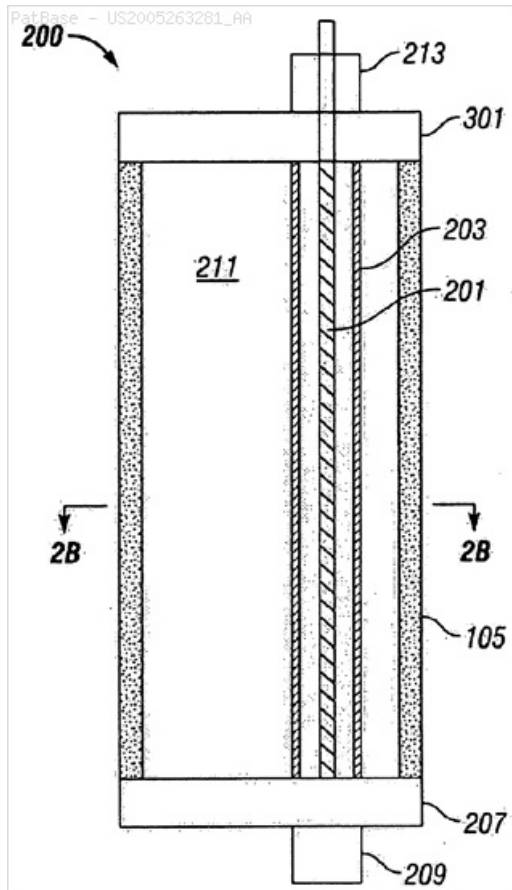
Classifications:

International (ipc 8-9): A47B43/00 B22F3/10 B65G57/00 B65G57/14 B65G61/00 C09K8/00 C09K8/58 C22C21/00 E21B17/10 E21B17/20 E21B19/08 E21B19/22 E21B21/00 E21B23/00 E21B23/04 E21B23/08 E21B23/14 E21B33/12 E21B33/124 E21B33/128 E21B33/134 E21B34/10 E21B37/00 E21B37/04 E21B4/00 E21B4/04 E21B4/18 E21B41/00 E21B43/00 E21B43/12 E21B47/00 E21B47/01 E21B47/024 E21B47/06 E21B47/09 E21B47/12 E21B47/135 E21B49/08 E21B7/04 E21B7/20 F16L55/26 F16L55/30 F16L55/32 G01B15/02 G01N23/06 G01N23/12 G01N33/28 G01N9/24 G01V5/00 G01V5/04 G01V5/12 G01V8/10 G21K1/02 H01J35/08 H05G1/06 (Advanced/Invention); B82Y30/00 E21B23/00 F16L101/70 (Advanced/Non-invention); B65G57/02 E21B17/00 E21B19/00 E21B21/00 E21B23/00 E21B33/12 E21B33/13 E21B37/00 E21B4/00 E21B41/00 E21B43/00 E21B47/00 E21B47/02 E21B47/06 E21B47/12 E21B49/00 E21B7/04 G01N23/02 G01N33/26 G01N9/24 G01V5/00 H05G1/00 (Core/Invention); E21B47/00 (Core/Non-invention)

International (ipc 1-7): E21B17/20 E21B47/09 E21B47/12
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European: C09K8/80B C22C1/04B C22C12/00 C22C13/02 C22C21/00 C22C21/00B C22C21/06 C22C21/10 C22C28/00 C22C30/04 C22C30/06 E21B17/20D E21B21/01 E21B23/04 E21B23/14 E21B33/124 E21B33/124B E21B33/12F E21B33/134 E21B34/08 E21B37/00 E21B4/04 E21B4/18 E21B41/00P E21B43/267 E21B47/01 E21B47/10G E21B47/12M2 E21B7/20B2 F16L55/26 F16L55/30 F16L55/32 G01N23/12 G01N33/28E G01N9/24 G01V5/00 G21K1/10 H01J35/18 P21B23/00T R16L101/70 S01N15/06N T01J235/18

US: 1/1 148/400 166/105 166/118 166/118S 166/119 166/135 166/135S 166/179 166/241.1 166/241.5 166/241.500S 166/242.2 166/242.7 166/244.1 166/250.01 166/250.010S 166/250.05 166/250.07 166/250.070S 166/250.12 166/250.120S 166/254.2 166/254.200P 166/255.1 166/255.100P 166/255.100S 166/255.2 166/255.200P 166/279 166/305.1 166/311 166/312 166/316 166/373 166/383 166/384 166/386 166/387 166/53 166/65.1 166/65.100S 166/66 166/66S 166/77.2 166/77.200S 175/51 175/97 175/99 250/256 250/256S 250/258 250/265 250/267 250/269.1 29/428 378/143 378/147 378/194 378/53 378/53P 378/54 378/56 404/108 414/133 414/133P 414/356 414/384 414/386 414/801 419/1 419/1S 428/544 507/270 507/270S 977/770 977/770S

**Family:**

Publication number	Publication date	Application number	Application date
AR055463 AA	20070822	AR2005P102185	20050527
AT470782 E	20100615	AT20050743938T	20050526
AT534795 E	20111215	AT20070859540T	20071228
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BRPI0511469 B1	20161220	BR2005PI11469	20050526
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Priority:

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US20090575024	20091007	US20140172931	20140205	US20170651537	20170717

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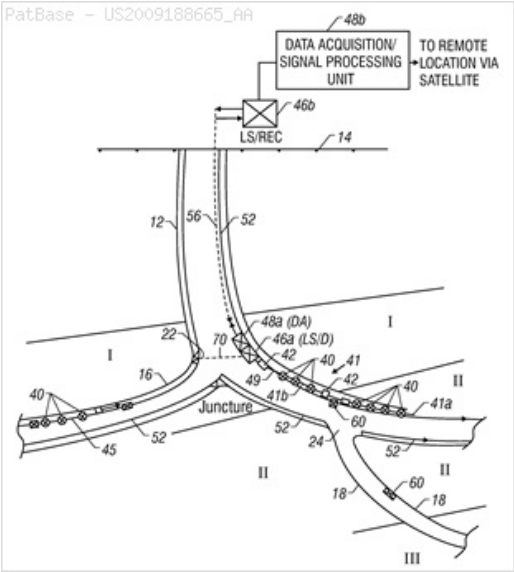
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Title: MONITORING OF DOWNHOLE PARAMETERS AND TOOLS UTILIZING FIBER OPTICS

Abstract: Source: US2009188665A The present disclosure provides systems utilizing fiber optics for monitoring downhole parameters and the operation and conditions of downhole tools and controlling injection operations based on measurements in an injection well and/or a production well.

Classifications:

International (IPC 8-9): E21B23/03 E21B33/127 E21B34/10 E21B37/06 E21B41/00 E21B41/02 E21B43/00 E21B43/12 E21B43/16 E21B43/20 E21B43/25 E21B43/26 E21B47/00 E21B47/01 E21B47/06 E21B47/10 E21B47/12 E21B47/14 E21B49/00 E21B49/08 G01D5/26 G01N21/31 G01V1/40 G01V1/42 G01V1/46 G01V1/52 G01V11/00 G01V7/08 G01V7/16 G01V8/02 (Advanced/Invention)
CPC: G01V2210/6163 G01V2210/6167 G01V11/002 E21B23/03 E21B33/1275 E21B37/06 E21B41/0035 E21B41/02 E21B43/12 E21B43/122 E21B43/123 E21B43/16 E21B43/20 E21B43/25 E21B43/26 E21B47/00 E21B47/011 E21B47/06 E21B47/065 E21B47/10 E21B47/101 E21B47/1015 E21B47/102 E21B47/123 E21B49/00 E21B49/006 E21B49/008 E21B49/08 G01D5/268 G01N21/31 G01V1/40 G01V1/42 G01V1/46 G01V1/52 G01V7/08 G01V7/16 G01V8/02 G01V11/00
European: E21B23/03 E21B33/127D E21B37/06 E21B41/00L E21B41/02 E21B43/12 E21B43/12B2 E21B43/12B2C E21B43/16 E21B43/20 E21B43/25 E21B43/26 E21B47/00 E21B47/01P E21B47/06 E21B47/06B E21B47/10 E21B47/10D E21B47/10G E21B47/10K E21B47/12M2 E21B49/00 E21B49/00M E21B49/00P E21B49/08 G01D5/26F G01N21/31 G01V1/40 G01V1/42 G01V1/46 G01V1/52 G01V11/00 G01V11/00B G01V7/08 G01V7/16 G01V8/02
US: 166/250.01 166/250.010P 166/250.15 166/252.1 166/266 166/268 166/50 166/50S 166/53 166/53S 166/66 166/66S 73/152.19 73/152.190S 73/152.55 73/152.550S



Family:

Publication number	Publication date	Application number	Application date
US2009188665 AA	20090730	US20090394395	20090227
US8789587 BB	20140729	US20090394395	20090227

Priority:

US19970045354P 19970502	US19970048989P 19970609	US19980070953 19980501
US19970052042P 19970709	US19970062953P 19971010	US19980073425P 19980202
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Inventor(s): (std): VOLL BENN ; TUBEL PAULO ; JOHNSON MICHAEL ; HARRELL JOHN ; BIDIGARE BRIAN

Agent(s): MADAN AND SRIRAM PC; CANTOR COLBURN LLP

Title: METHODS AND APPARATUS FOR REMOVAL AND CONTROL OF MATERIAL IN LASER DRILLING OF A BOREHOLE

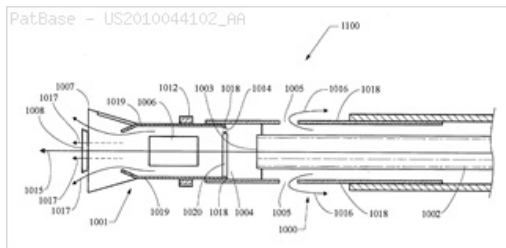
Abstract: Source: US2010044102A There is provided a system, apparatus and methods for removal of material for the path of a laser beam during laser drilling of a borehole and for removal of displaced borehole material from the borehole during laser drilling. In particular, there are provided paths, dynamics and parameters of fluid flows, and apparatus for obtaining such, for use in conjunction with a laser bottom hole assembly.

Classifications:

International (IPC 8-9): B01J19/12 B08B7/00 B08B9/02 B08B9/023

B08B9/027 B08B9/055 B23K26/00 B23K26/04 B23K26/06 B23K26/064 B23K26/073 B23K26/08 B23K26/10 B23K26/12 B23K26/122 B23K26/14 B23K26/16 B23K26/24 B23K26/352 B23K26/36 B23K26/38 B23K26/382 B23K26/40 B23K26/402 B23P11/00 B63B17/00 B63B35/28 B63C11/40 B63C11/44 B63C11/48 B63G8/00 B63G8/08 B65H55/00 B65H59/00 E01C23/08 E01C23/12 E02B17/00 E02D17/00 E21B10/00 E21B10/50 E21B10/54 E21B10/60 E21B17/00 E21B17/20 E21B19/00 E21B19/22 E21B21/00 E21B21/08 E21B21/10 E21B21/14 E21B21/16 E21B23/00 E21B23/14 E21B29/00 E21B29/02 E21B29/06 E21B33/00 E21B33/06 E21B33/064 E21B33/12 E21B33/13 E21B37/00 E21B4/02 E21B4/04 E21B41/00 E21B41/04 E21B43/00 E21B43/11 E21B43/114 E21B43/119 E21B43/24 E21B43/26 E21B43/267 E21B44/00 E21B47/00 E21B47/113 E21B47/12 E21B49/00 E21B7/00 E21B7/14 E21B7/15 E21B7/16 E21C35/00 E21C37/16 E21C37/18 E21C41/00 E21D9/10 F21V15/01 F21V15/06 F21V29/00 F21V8/00 G01J1/04 G01M11/00 G01M5/00 G02B6/08 G02B27/14 G02B27/20 G02B6/02 G02B6/26 G02B6/28 G02B6/32 G02B6/36 G02B6/38 G02B6/42 G02B6/44 H01J27/24 H01J40/14 H01L21/00 H01L31/00 H01L31/055 H01S3/00 H01S3/04 H01S3/067 H01S3/08 H01S3/094 H01S3/0941 H01S3/109 H01S3/16 H01S3/30 H01S5/024 H01S5/40 H02G1/08 H04B10/079 (Advanced/Invention); B08B7/00 B23K103/00 B63B19/00 B63B21/00 B63B35/00 E02B17/00 E21B15/00 E21B23/00 E21B43/00 E21B43/116 E21B43/16 E21B49/00 E21B7/04 E21B7/15 G02B6/32 G02B6/36 G02B6/38 G02B6/42 G02B6/50 (Advanced/Non-invention); B65H55/00 E21B17/00 E21B7/00 E21B7/14 G02B6/44 (Core/Invention)

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

Abstract: Source: US2011036560A A well conveyance apparatus for conveying equipment into a wellbore possessing long-lasting movable and slidable hydraulic seals against the interior of a borehole casing located within a wellbore in a geological formation in the earth that is caused to move by the application of pressurized wellbore fluids against the seals. The seals are allowed to rotate on bearings about the tool mandrel to prevent the build-up of torque on the seals to minimize wear and to extend the life of the seals. Vibratory means are attached to the tool mandrel to vibrate the sealing portion of the seals, so as the extend the life of the seals and to minimize wear of the seals. Sensor arrays provide information to a computer system that is used to control the vibratory means, pressure relief valves, and other parameters to minimize wear of the hydraulic seals.

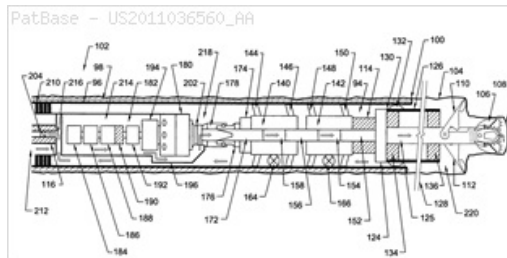
Classifications:

International (IPC 8-9): B05D7/00 B05D7/14 B05D7/24 C08G18/16 C08G18/20 C08G18/22 C08G18/62 C08G18/79 C09D175/04 C09D175/06 C09D175/14 C09D201/06 C09D7/12 E21B10/00 E21B19/00 E21B21/08 E21B21/10 E21B21/12 E21B23/08 E21B28/00 E21B3/00 E21B33/10 E21B4/02 E21B7/00 F04C2/107 (Advanced/Invention)

CPC: E21B4/18 E21B19/18 E21B21/10 E21B23/10 E21B33/126 E21B28/00 E21B47/01 E21B2033/005 E21B7/203 C09D175/04 E21B10/00 E21B33/10 E21B4/02 Y10T428/31551 E21B7/00 E21B17/18 E21B43/045 C08G18/165 C08G18/168 C08G18/2027 C08G18/222 C08G18/6225 C08G18/792 B05D7/534 B05D7/544 E21B21/103 E21B21/12 E21B23/08 E21B21/08 E21B3/00

European: C08G18/16B4D C08G18/16D4 C08G18/20D4 C08G18/22D C08G18/62G5D C08G18/79D4 C09D175/04 E21B10/08 E21B19/18 E21B21/08 E21B21/10 E21B23/10 E21B28/00 E21B33/126 E21B4/02 E21B4/18 E21B47/01 E21B7/20B2 P21B33/005

US: 1/1 166/119 166/177.6 166/177.600S 166/87.1 166/87.100P 175/100 175/107 175/371 175/371S 175/57 175/57P 175/65 175/65S 175/94 277/336 277/336S 418/48 418/48S 427/407.1 428/423.1 524/507 524/558



Family:

Publication number	Publication date	Application number	Application date
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US2015315863 AA	20151105	US20150707937	20150508
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US20150707937	20150508	US20170452534	20170307		

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Assignee(s): (std): BASF COATINGS GMBH ; CHITWOOD JAMES E ; DEKLE ROBERT I ; DEKLE ROBERT L ; HOFFMANN PETER ; VAIL III WILLIAM BANNING ; SKERL DAMIR S ; VAIL WILLIAM BANNING III ; SKERI DAMIR S ; SMART DRILLING AND COMPLETION INC ; WESTHOFF ELKE ; MOELLER BERNADETTE ; SCHNIER BENEDIKT ; SMART DRILLING AND COMPLETION

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Inventor(s): BENEDIKT SCHNIER ; BERNADETTE MOELLER ; PETER HOFFMANN ; ELKE WESTHOFF

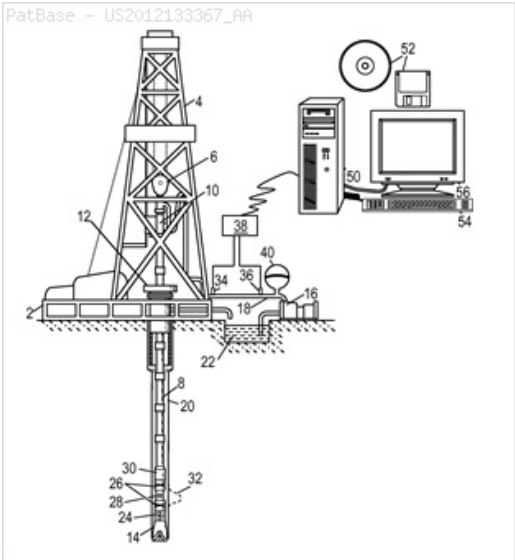
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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS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

Title: FRACTURE CHARACTERIZATION USING DIRECTIONAL ELECTROMAGNETIC RESISTIVITY MEASUREMENTS

Abstract: Source: US2012133367A A disclosed fracture characterization method includes: collecting three-dimensional resistivity measurements of a volume surrounding an open borehole; analyzing the measurements to determine parameters describing fractures in the volume; and providing a report to a user based at least in part on said parameters. A fluid with a contrasting resistivity is employed to make the fractures detectable by a directional electromagnetic logging tool in the borehole. illustrative parameters include fracture direction, height, extent, length, and thickness. The resistivity measurements can be augmented using a borehole wall image logging tool. Also disclosed are fracturing methods that include: positioning a directional electromagnetic logging tool proximate to a formation; fracturing the formation; monitoring fracture progression with said tool; and halting the fracturing when measurements by said tool indicate that a predetermined set of criteria have been satisfied.

Classifications:
International (IPC 8-9): E21B43/119 E21B47/12 E21B49/00 G01V3/17 G01V3/18 (Advanced/Invention)
CPC: G01V3/20 G01V3/18 E21B47/122 E21B49/00 E21B43/26
European: E21B43/26 E21B49/00 G01V3/20
US: 324/346 324/346P



Family:

Publication number	Publication date	Application number	Application date
US2012133367 AA	20120531	US20090131872	20090820
US2015240631 AA	20150827	US20150709314	20150511
WO11022012 A1	20110224	WO2009US54470	20090820

Priority:

US20090131872 20090820 US20110131872 20110530 WO2009US54470 20090820
US20150709314 20150511

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

Title: **METHOD** AND **SYSTEM** FOR **MONITORING** WELL OPERATIONS

Abstract: Source: US2015107829A A **method** and **system** for **monitoring** well operations are provided. Acceleration data is generated from vibration signals collected from a well and the data is processed to indicate a well condition such as the actuation of a device and the movement and location of an actuation device.

Classifications:

International (ipc 8-9): E21B23/06 E21B34/06 E21B34/14

E21B43/14 E21B43/26 E21B47/00 E21B47/008 E21B47/09

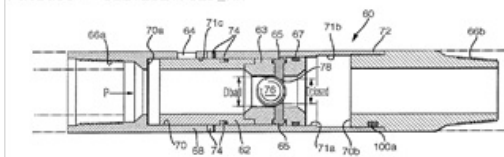
E21B47/12 E21B47/14 E21B47/18 (Advanced/Invention)

CPC: E21B2034/007 E21B47/00 E21B47/14 E21B34/06 E21B23/06

E21B43/26 E21B47/091 E21B34/14 E21B43/14 E21B47/123

US: 166/250.01 166/250.1 166/255.1 166/66

PatBase - US2015107829_AA



Family:

Publication number	Publication date	Application number	Application date
CA2872944 AA	20141107	CA20132872944	20130507
EP2847424 A1	20150318	EP20130788341	20130507
EP2847424 A4	20161102	EP20130788341	20130507
US2015107829 AA	20150423	US20130399831	20130507
WO13166602 A1	20131114	WO2013CA50354	20130507

Priority:

US20120643735P 20120507 US20130399831 20130507 WO2013CA50354 20130507

Probable Assignee: PACKERS PLUS ENERGY SERVICES INC

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Assignee(s): PACKERS PLUS ENERGY SERVICES INC ; PACKERS PLUS ENERGY SERVICES INC2200, 205 - 5 AVENUE SWBOW VALLEY SQUARE 2CALGARYA1T2P 2V7CA ; THEMIG DANIEL JON ; THEMIG DANIEL JON38 WEST COACH ROAD SWCALGARYA1T3H 0M9CA

Inventor(s): (std): THEMIG DANIEL JON

Inventor(s): THEMIG DANIEL JON38 WEST COACH ROAD SWCALGARYA1T3H 0M9CA

Agent(s): BENNETT JONES LLP; DIACONESCU APRILIA U; VINSOME REX MARTIN; CALDWELL ROSEANN 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