

1) Family number: 43488006 (US2009277628A)

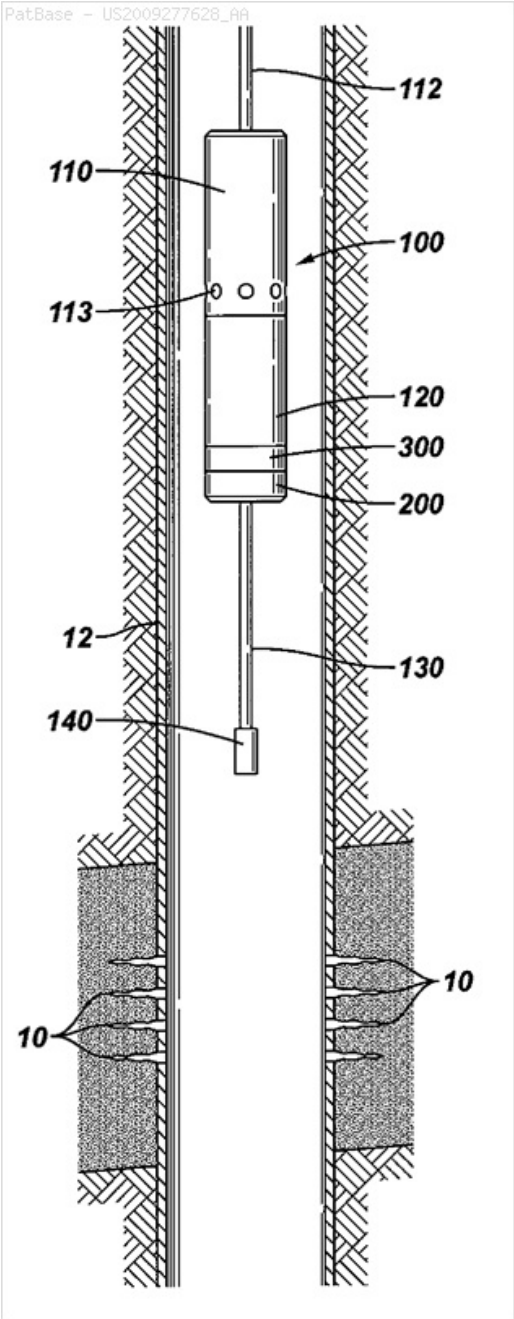
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Title: ELECTRIC SUBMERSIBLE PUMPING SENSOR DEVICE AND METHOD

Abstract: An electric submersible pump device having a pump; a motor, the motor being adjacent to the pump and having motor windings extending a first distance along the motor; a support member, the support member supporting the sensor and having a length so that the sensor is located the first distance downhole from a downhole distal end of the motor windings; the sensor device comprising at least one selected from the following: a temperature sensor, a flow-meter, a vibration sensor or a pressure sensor.

Classifications:

International (IPC 8-9): E21B43/12 E21B47/00 E21B47/01
F04B17/03 F04D13/10 F04D15/02 F04D25/06 (Advanced/Invention);
E21B47/00 (Advanced/Non-invention);
E21B47/00 F04B17/03 (Core/Invention)
CPC: E21B47/0007 E21B47/01 E21B43/128 F04D25/06 F04B2207/02
F04B2207/03 F04D15/0209 F04D13/10 F04D15/0218
European: F04D13/10 F04D15/02B2
US: 166/105 166/250.01



Family:

Publication number	Publication date	Application number	Application date
■ CN101576070 A	20091111	CN200910139134	20090507
■ CN101576070 B	20140709	CN200910139134	20090507
■ GB200907343 A0	20090610	GB20090007343	20090429
■ GB2466686 A1	20100707	GB20090007343	20090429
■ GB2466686 B2	20110803	GB20090007343	20090429
■ US2009277628 AA	20091112	US20080116302	20080507
■ US9482233 BB	20161101	US20080116302	20080507

Priority:

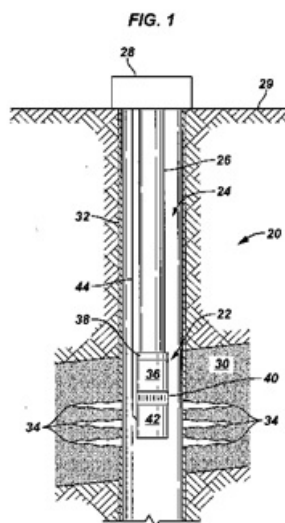
Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** (std): ARMSTRONG KENNETH ; BOOKER JOHN A ; ROWATT JOHN DAVID ; SCHLUMBERGER HOLDINGS ; SCHLUMBERGER TECHNOLOGY CORP ; WATSON ARTHUR I**Assignee(s):** SCHLUMBERGER HOLDINGS LTD**Inventor(s):** (std): BOOKER JOHN A ; DAVID ROWATT JOHN ; ARMSTRONG KENNETH ; KENNETH ARMSTRONG ; ROWATT JOHN DAVID ; WATSON ARTHUR I**Inventor(s):** ARTHUR I WATSON ; JOHN A BOOKER ; JOHN DAVID ROWATT**Agent(s):** SCHLUMBERGER RESERVOIR COMPLETIONS; MICHAEL**2) Family number: 31847041** (US2005109515A)

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Title: SYSTEM AND METHOD FOR A COMBINED SUBMERSIBLE MOTOR AND PROTECTOR**Abstract:** A system and method is provided for producing a hydrocarbon fluid from a subterranean environment. The system and method utilize an electric submersible pumping system having a motive unit comprising a combined submersible motor section and protector section.**Classifications:****International (IPC 8-9):** E21B43/00 E21B43/12 F04B47/06 F04B53/16 F04B53/18 F04D13/08 F04D13/10 F04D29/06 F04D29/40 H02K5/10 H02K9/00 (Advanced/Invention)**International (IPC 1-7):** E21B43/00 F04B47/06 F04B53/18 F04D13/08 F04D29/06 F04D29/40**CPC:** E21B43/128**European:** E21B43/12B10**US:** 166/105 166/105S 166/369 166/378 166/378S 166/65.1 166/65.100S 166/66.4 310/71 310/87 417/423.3 439/191

PatBase - US2005109515_AA

Patent Application Publication May 26, 2005 Sheet 1 of 12 US 2005/0109515 A1

**Family:**

Publication number	Publication date	Application number	Application date
CA2483383 AA	20050401	CA20042483383	20040930
CA2483383 C	20111018	CA20042483383	20040930
CA2749586 AA	20050401	CA20042749586	20040930
CA2749586 C	20131022	CA20042749586	20040930
RU2004128891 A	20060310	RU20040128891	20040930
RU2300667 C2	20070610	RU20040128891	20040930
US2005109515 AA	20050526	US20040711631	20040929
US8910718 BB	20141216	US20040711631	20040929

Priority:

US20030507929P 20031001	US20040711631 20040929	CA20042483383 20040930
CA20042749586 20040930	CA20112483383 20110901	

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** (std): ALLEN MARK E ; CASEY CODY ; DORNAK STEVEN ; MANKE GREGORY H ; MCCORRY MARK ; MILLER MICHAEL W ; NARVAEZ DIEGO A ; SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY CORP ; SCHLUMBERGER HOLDINGZ LTD ; ROWATT JOHN D ; SAYELA PARVEEN ; WATSON ARTHUR I**Assignee(s):** WATSON ARTHUR ; SCHLUMBERGER CANADA LTD**Inventor(s):** (std): WATSON ARTHUR I ; WATSON ARTHUR ; SAYELA PARVEEN ; ROWATT JOHN D ; NARVAEZ DIEGO A ; MILLER MICHAEL W ; MCCORRY MARK ; MANKE GREGORY H ; DORNAK STEVEN ; CASEY CODY ; ALLEN MARK E ; WATSON ARTHUR ; SAYELA PARVEEN ; ROWATT JOHN D ; NARVAEZ DIEGO A ; MILLER MICHAEL W ; MEHNK GREGORY KH ; MAKKORRI MARK ; KEJSI KOUDI ; DORNAK STEVEN ; ALLEN MARK E**Inventor(s):** ALLEN MARK ; MANKE GREGORY ; MILLER MICHAEL ; NARVAEZ DIEGO ; ROWATT JOHN**Agent(s):** SMART AND BIGGAR; SCHLUMBERGER RESERVOIR COMPLETIONS; MICHAEL**3) Family number: 62056249** (US2016097243A)

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Title: EXTRA LOW PROFILE CABLE PROTECTORS**Abstract:** A pumping system useful for pumping fluids from a subterranean formation to a surface facility includes a first component and a second component connected to the first component with a neck flange. The pumping system further includes a motor lead cable that provides electrical power from the surface facility to the pumping system and a cable

protector connected to the neck flange that secures the motor lead cable to the first and second components. The cable protector includes a first clamp section and a second clamp section. The second clamp section includes a lead cable recess that extends in a longitudinal direction along the exterior of the second clamp section and a band recess that extends in a circumferential direction along the exterior of the second clamp section. A tie or band resides in the band recess and extends around the circumference of the cable protector to secure the motor lead cable within the lead cable recess.

Classifications:

International (IPC 8-9): E21B17/00 E21B17/02 E21B17/04

E21B17/10 E21B17/20 E21B43/12 (Advanced/Invention);

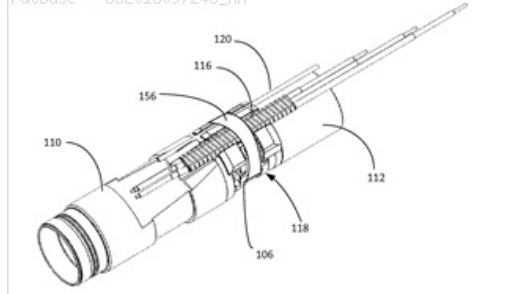
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CPC: E21B17/10 E21B17/206 E21B17/04 E21B17/028 E21B43/12

E21B17/026 E21B43/128

US: 166/105 166/113 166/243

PatBase - US2016097243_AA



Family:

Publication number	Publication date	Application number	Application date
CA2963637 AA	20170404	CA20152963637	20150930
US2016097243 AA	20160407	US20140505263	20141002
WO16054239 A1	20160407	WO2015US53267	20150930

Priority:

US20140505263 20141002 WO2015US53267 20150930

Probable Assignee: GE OIL AND GAS ESP INC

Assignee(s): (std): GE OIL AND GAS ESP INC

Assignee(s): LE JAMES ; NOAKES AARON

Inventor(s): (std): LE JAMES ; NOAKES AARON

Agent(s): CRAIG WILSON AND CO; DOMBROWSKI JOANNA 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 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

4) Family number: 32323260 (US2005233038A)

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Title: ANIMAL CHEW TOY

Abstract: Disclosed is an animal chew product and method making the animal chew product wherein an animal hide is treated, a filling is prepared and the filling is combined with the treated hide and thereafter the product may be shaped and/or pressed, dried and an outer coat of flavoring added to the product.

Classifications:

International (IPC 8-9): A01K11/00 A01K29/00 A23G1/00 A23K1/00

A23K1/10 A23K1/18 A23L1/30 A23L1/31 E21B43/00 E21B44/00

E21B47/00 E21B47/12 F04D15/02 (Advanced/Invention);

A01K11/00 A23K1/00 A23K1/10 A23K1/18 A23L1/31 E21B43/00

E21B44/00 E21B47/00 E21B47/12 F04D15/02 (Core/Invention)

International (IPC 1-7): A23G1/00 A23L1/31

CPC: E21B47/0007 Y10S426/805 A23K10/26 A23K40/30 A23K50/42

A23K50/45 A23K50/40 A01K15/026 A23K40/20 A23K40/25

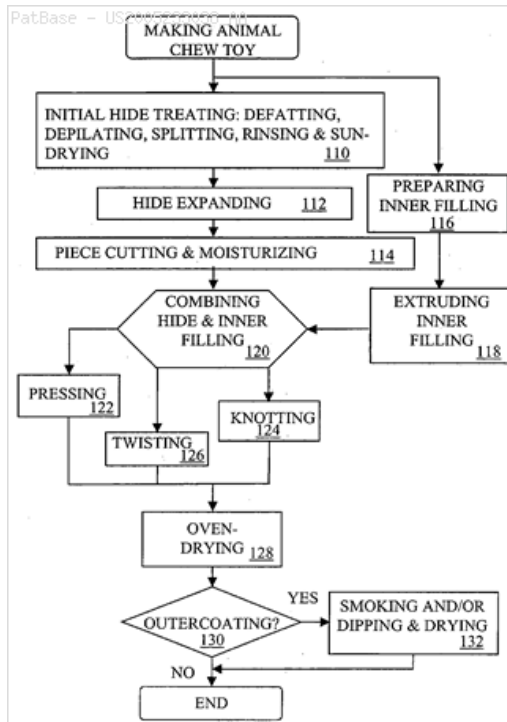
European: A01K15/02C A01K15/02C1 A23K1/00B2 A23K1/00B3

A23K1/10C A23K1/18N A23K1/18N2 A23K1/18N4 E21B47/00P

US: 119/710 166/250.01 166/369 166/53 166/68 426/106 426/132

426/282 426/282P 426/284 426/4 426/4P 426/656 426/72 426/72P

426/805 426/92 426/92S



Family:

Publication number	Publication date	Application number	Application date
CA2551708 AA	20070122	CA20062551708	20060710
CA2551708 C	20090526	CA20062551708	20060710
RU2006126756 A	20080127	RU20060126756	20060721
RU2338094 C2	20081110	RU20060126756	20060721

US2005233038 AA	20051020	US20040781201	20040217
US2005244554 AA	20051103	US20050161007	20050719
US2006107906 AA	20060525	US20060307477	20060209
US2007017672 AA	20070125	US20050161087	20050722
US2009004328 AA	20090101	US20080206149	20080908
US2011217419 AA	20110908	US20110068392	20110510
US7976884 BB	20110712	US20080206149	20080908
US8349381 BB	20130108	US20110068392	20110510

Priority:

US20030491880P 20030801	US20040781201 20040217	US20050161007 20050719
US20050161087 20050722	US20060307477 20060209	CA20062551708 20060710
CA20062551708 20060710	US20080206149 20080908	US20110068392 20110510

Probable Assignee: WAGGIN TRAIN LLC

Assignee(s): (std): SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY CORP ; WEINBERG CHRISTOPHER A ; SCHLUMBERGER TECHNOLOGY BV ; NESTEC LTD ; NESTLE SA ; WEINBERG CHRISTOPHER ALAN

Assignee(s): KAYADARMA MARDI E ; SCHLUMBERGER CANADA LTD ; WAGGIN TRAIN LLC ; WAGGIN TRAIN WORLDWIDE LLC ; SHLUMBERGER TEKNOLODZHI BV ; BANK OF MONTREAL CHICAGO BRANCH AGENT AS ; BANK OF MONTREAL CHICAGO BRANCH AS AGENT ; DES PRODUITS NESTLE S A SOC ; DES PRODUITS NESTLE SA SOC ; DES PRODUITS NESTLE SOC SA

Inventor(s): (std): KAJADARMA MARDI EH ; KAYADARMA MARDI E ; WEINBERG CHRISTOPHER A ; WEINBERG CHRISTOPHER ALAN

Inventor(s): WEINBERG CHRISTOPHER ; KAYADARMA MARDI

Agent(s): SMART AND BIGGAR; MICHAEL BLAINE BROOKS PC; SCHLUMBERGER RESERVOIR COMPLETIONS; JULIE M

5) Family number: 32568267 (US2006162934A)

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Title: SUBSEA PUMPING SYSTEM

Abstract: A pumping system is disclosed for producing hydrocarbons from a subsea production well with at least one electrical submersible pumping (ESP) hydraulically connected to at least one multiphase pump to boost production fluid flow.

Classifications:

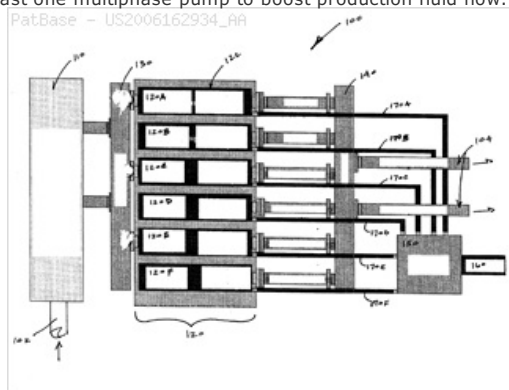
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International (IPC 1-7): E21B43/25

CPC: Y10T137/86139 Y10T137/86163 E21B43/12 F04B23/14 F04B47/00 E21B43/124 E21B17/01 E21B43/013 F04B47/06 F04D13/12 F04D31/00

European: E21B17/01 E21B43/013 E21B43/12 E21B43/12B6 F04B23/14 F04B47/00 F04B47/06 F04D13/12 F04D31/00

US: 137/565.3 137/565.33 166/105 166/335 166/370 166/68



Family:

Publication number	Publication date	Application number	Application date
AU2005229738 AA	20060601	AU20050229738	20051107
AU2005229738 BB	20090514	AU20050229738	20051107
BRPI0506257 A	20060822	BR2005PI06257	20051109
CA2526054 AA	20060509	CA20052526054	20051108
CN1831341 A	20060913	CN200510023019	20051109
CN1831341 B	20110209	CN200510023019	20051109
GB200522697 A0	20051214	GB20050022697	20051108
GB2419924 A1	20060510	GB20050022697	20051108
GB2419924 B2	20070530	GB20050022697	20051108
US2006162934 AA	20060727	US20050163959	20051104
US2009032264 AA	20090205	US20080251142	20081014
US7481270 BB	20090127	US20050163959	20051104
US7669652 BB	20100302	US20080251142	20081014

Priority:

US20040522802P 20041109	US20050163959 20051104	CA20052526054 20051108
US20080251142 20081014		

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER CA LTD ; SCHLUMBERGER CANADA LTD ; SCHLUMBERGER HOLDINGS ; PRAD RES AND DEV NV ; PRAD RESEARCH AND DEVELOPMENT N V ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): SHEPLER RANDALL A ; PRAD RESEARCH AND DEVELOPMENT NV ; SCHLUMBERGER HOLDINGS LTD

Inventor(s): (std): SHEPLER RANDALL A ; RANDALL A SHEPLER

Inventor(s): SHEPLER RANDALL

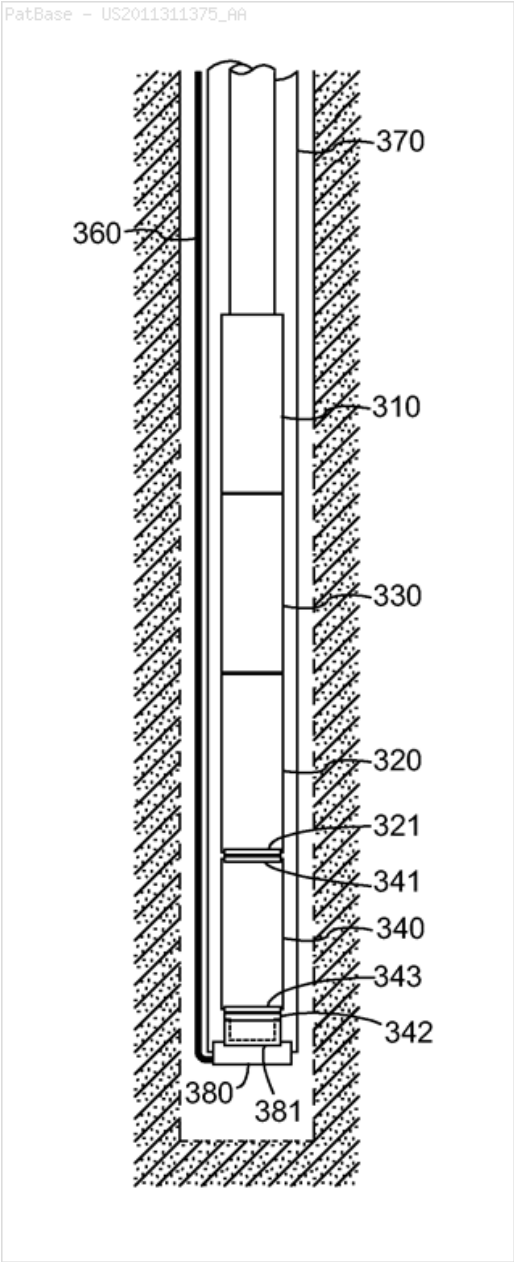
Agent(s): GRIFFITH HACK; SMART AND BIGGAR; SCHLUMBERGER RESERVOIR COMPLETIONS; MCGOFF KEVIN B; KURKA JAMES L; JAMES L; KEVIN B; RODNEY WARFFORD VAN SOMEREN PC

Title: MODULAR DOWN HOLE GAUGE FOR USE IN RETRIEVABLE ELECTRIC SUBMERSIBLE PUMP SYSTEMS WITH WET CONNECT

Abstract: Systems and methods for employing gauge packages for use with a wet-connect ESPs. In one embodiment, a modular gauge package includes a body, a gauge electronics assembly housed within the body, and a pair of electrical connectors at the upper and lower ends of the body, where power is passed through the body from one connector to the other. The electrical connector at the top of the body engages a complementary electrical connector on the bottom of a pump motor. The electrical connector at the bottom of the body engages a complementary electrical connector at the end of a production conduit. The connector at the bottom of the body may be identically configured with the connector at the bottom of the pump motor, and the connector at the top of the body may be identically configured with the connector at the end of the production conduit.

Classifications:

International (IPC 8-9): E21B29/02 E21B43/02 E21B43/12
F04B17/00 F04B17/03 F04B35/04 F04B47/06 F04B49/00 F04D13/10
F04D15/00 H01R43/00 (Advanced/Invention)
CPC: E21B43/126 F04D13/10 F04D15/00 F04B47/06 F04B17/03
Y10T29/49117 E21B43/128
European: F04B17/03 F04B47/06
US: 166/65.1 166/66 29/825 29/825S 417/423.3 417/63 417/63P



Family:

Publication number	Publication date	Application number	Application date
AU2011270922 AA	20111229	AU20110270922	20110622
AU2011270922 BB	20150507	AU20110270922	20110622
GB201300791 A0	20130227	GB20130000791	20110622
GB2495253 A1	20130403	GB20130000791	20110622
GB2495253 B2	20180214	GB20130000791	20110622
NO20130087 A	20130206	NO20130000087	20130115
NO341834 B1	20180129	NO20130000087	20130115
US2011311375 AA	20111222	US20110166511	20110622
US8821137 BB	20140902	US20110166511	20110622
WO11163375 A1	20111229	WO2011US41465	20110622

Priority:

US20100357305P 20100622 US20110166511 20110622 WO2011US41465 20110622

Probable Assignee: BAKER HUGHES INC

Assignee(s): (std): BAKER HUGHES A GE CO LLC ; BAKER HUGHES INC ; BEBAK KEN ; BEBAK KENNETH T ; TETZLAFF STEVEN K ; MCCOY ROBERT H ; ROBINSON LANCE T

Inventor(s): (std): BEBAK KEN ; BEBAK KENNETH T ; KENNETH T BEBAK ; LANCE T ROBINSON ; MCCOY ROBERT H ; ROBERT H MCCOY ; ROBINSON LANCE T ; STEVEN K TETZLAFF ; TETZLAFF STEVEN K

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; LAW OFFICES OF MARK L BERRIER; HENDRYX THOMAS N

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

7) Family number: 54967333 (US2014042835A)

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Title: EQUIPMENT INCLUDING EPITAXIAL CO-CRYSTALLIZED MATERIAL

Abstract: An electric submersible pump motor can include a housing; and a hermetically sealed cavity defined at least in part by the housing that includes at least one material susceptible to hydrolysis, and a polymeric material that includes epitaxial co-crystals of perfluoroalkoxy (PFA) and polytetrafluoroethylene (PTFE). Various other apparatuses, systems, methods, etc., are also disclosed.

Classifications:

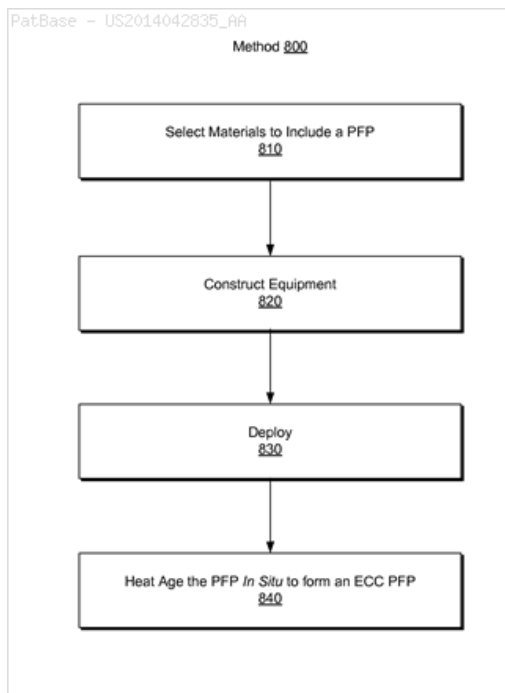
International (IPC 8-9): E21B43/12 F04D13/10 H02K3/30 H02K3/44 H02K5/02 H02K5/124 H02K5/132 (Advanced/Invention)

International (IPC 1-7): E21B43/12 F04D13/10

CPC: H02K5/124 H02K5/02 E21B43/128 F04D13/10 F04D13/0693 F04D29/026 F05D2300/43 F05D2300/432 F05D2300/434

F05D2300/605 H02K3/30 H02K3/44 H02K5/132 Y10T428/31544

US: 156/281 310/43 428/422



Family:

Publication number	Publication date	Application number	Application date
BR102013020488 A2	20171219	BR20131020488	20130812
GB201314285 A0	20130925	GB20130014285	20130809
GB2506513 A1	20140402	GB20130014285	20130809
NO20131088 A	20140212	NO20130001088	20130809
US2014042835 AA	20140213	US20130960889	20130807
US9634535 BB	20170425	US20130960889	20130807

Priority:

US20120682243P 20120811 US20130960889 20130807

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

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

Assignee(s): SCHLUMBERGER HOLDINGS LTD

Inventor(s): (std): GREGORY H MANKE ; JASON HOLZMUELLER ; MELISSA VER MEER ; PATRICK ZHIYUAN MA ; WILLIAM GOERTZEN ; MEER MELISSA VER ; MANKE GREGORY H ; MA PATRICK Z ; HOLZMUELLER JASON ; GOERTZEN WILLIAM ; MA PATRICK ZHIYUAN

Agent(s): MICHAEL

8) Family number: 58871395 (US2016040517A)

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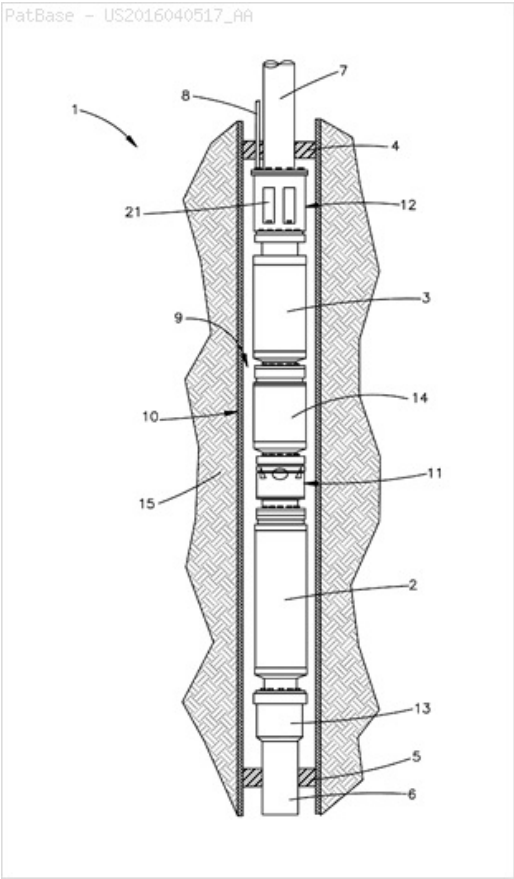
Title: ELECTRICAL SUBMURGIBLE PUMPING SYSTEM USING A POWER CROSSOVER ASSEMBLY FOR A POWER SUPPLY CONNECTED TO A MOTOR

Abstract: An electric submersible pumping system that includes a pump having a pump discharge; a motor; a power crossover assembly including a first top flange having a generally circular opening in the center, an upper tubular portion connected to the first top flange portion, an intermediate tubular portion including two generally rectangular shaped windows for intake suction for production fluids, a lower tubular portion having a hollow space in a center portion, and a first lower flange having a circular shape connected to the lower tubular portion. The system also includes a crossover base disposed at a lower part of the power crossover assembly, the crossover base including a base neck, a guide tube, a conductor terminal, a second top flange, and a second lower flange.

Classifications:

International (IPC 8-9): E21B33/129 E21B43/00 E21B43/12 F04B17/03 F04B23/02 F04B47/06 F04D13/06 F04D13/10 F04D25/06 F04D29/62 (Advanced/Invention)

CPC: E21B43/128 E21B43/12 F04B23/021 F04D13/10 F04B17/03
F04B47/06 F04D13/0693 F04D29/628
US: 166/105 417/423.3



Family:

Publication number	Publication date	Application number	Application date
US2016040517 AA	20160211	US20150679290	20150406
US8997852 BA	20150407	US20140453770	20140807
US9725996 BB	20170808	US20150679290	20150406

Priority:

US20140453770 20140807 US20150679290 20150406

Probable Assignee: ALKHORAYEF PETROLEUM CO LTD

Assignee(s): (std): ALKHORAYEF PETROLEUM CO LTD ; ALKHORAYEF PETROLEUM CO LTD

Inventor(s): (std): LEE WOON YUNG ; XUE YING

Agent(s): JONES DAY

9) Family number: 30201410 (US2007273225A)

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Title: ELECTRIC MOTORS FOR POWERING DOWNHOLE TOOLS

Abstract: An electric motor, for powering downhole tools, comprises a stator and a rotor connectable to a rotatable device, a permanent magnet and a series of coiled windings or laminations having a connection to a DC supply, the permanent magnet and the laminations being arranged annularly with respect to each other, characterised in that the laminations and coil windings are potted in a potting material impervious to wellbore fluids. The potting material is introduced under a vacuum, and the motor housing confines the potting material, acting as a mould.

Classifications:

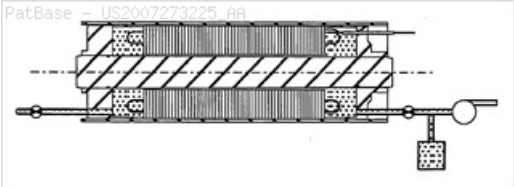
International (IPC 8-9): F04D13/10 H02K15/12 H02K16/00
H02K21/14 H02K3/30 H02K3/44 H02K5/12
H02K5/132 (Advanced/Invention);
H02K15/12 H02K16/00 H02K21/14 (Advanced/Non-invention);
F04D13/06 H02K15/00 H02K15/12 H02K16/00 H02K21/00 H02K21/14
H02K3/00 H02K5/12 (Core/Invention);
H02K15/12 H02K16/00 H02K21/14 (Core/Non-invention)

International (IPC 1-7): F04D13/10 H02K3/44

CPC: H02K5/08 H02K1/272 H02K5/1732 H02K5/225 H02K7/003
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European: F04D13/10 H02K15/12 H02K16/00 H02K3/30 H02K3/44 H02K5/08 H02K5/132 H02K5/22B H02K7/00B
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US: 310/152 310/87



Family:

Publication number	Publication date	Application number	Application date
CA2546983 AA	20060523	CA20042546983	20041119
GB200327023 A0	20031224	GB20030027023	20031120
GB200613986 A0	20060830	GB20060013986	20041119
GB200709386 A0	20070627	GB20070009386	20041119
GB2425664 A1	20061101	GB20060013986	20041119
GB2425664 B2	20080116	GB20060013986	20041119
GB2438493 A1	20071128	GB20070009386	20041119

GB2438493 A8	20080612	GB20070009386	20041119
GB2438493 B2	20080730	GB20070009386	20041119
US2007273225 AA	20071129	US20040580303	20041119
WO05053136 A1	20050609	WO2004EP53029	20041119

Priority:

GB20030027023 20031120 GB20060013986 20041119 GB20070009386 20041119
WO2004EP53029 20041119 GB20070009386 20070516

Probable Assignee: ARTIFICIAL LIFT CO LION WORKS LTD

Assignee(s): (std): HEAD PHIL ; HEAD PHILIP ; ARTIFICIAL LIFT CO LTD

Assignee(s): ARTIFICIAL LIFT COMPANY LIMITED ; ARTIFICIAL LIFT COMPANY LTD ; ARTIFICIAL LIFT CO LION WORKS LTD ; PHIL HEAD ; PHILIP HEAD

Inventor(s): (std): HEAD PHILIP ; HEAD PHIL

Inventor(s): PHILIP HEAD ; PHIL HEAD

Agent(s): GOWLING LAFLEUR HENDERSON LLP; KF ROSS 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

10) Family number: 31455418 (US2005097911A)

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Title: [DOWNHOLE TOOLS WITH A STIRLING COOLER SYSTEM]

Abstract: A cooling system for a downhole tool includes an insulating chamber disposed in the tool, wherein the chamber is adapted to house an object to be cooled; a Stirling cooler is disposed in the tool, the cooler has a cold end configured to remove heat from the chamber and a hot end configured to dissipate heat; and an energy source to power the Stirling cooler. A downhole tool includes: a tool body, and a cooling system with an insulating chamber; wherein the chamber is adapted to house an object to be cooled; a Stirling cooler is disposed in the tool, the cooler has a cold end configured to remove heat from the chamber and a hot end configured to dissipate heat; and an energy source to power the Stirling cooler.

Classifications:

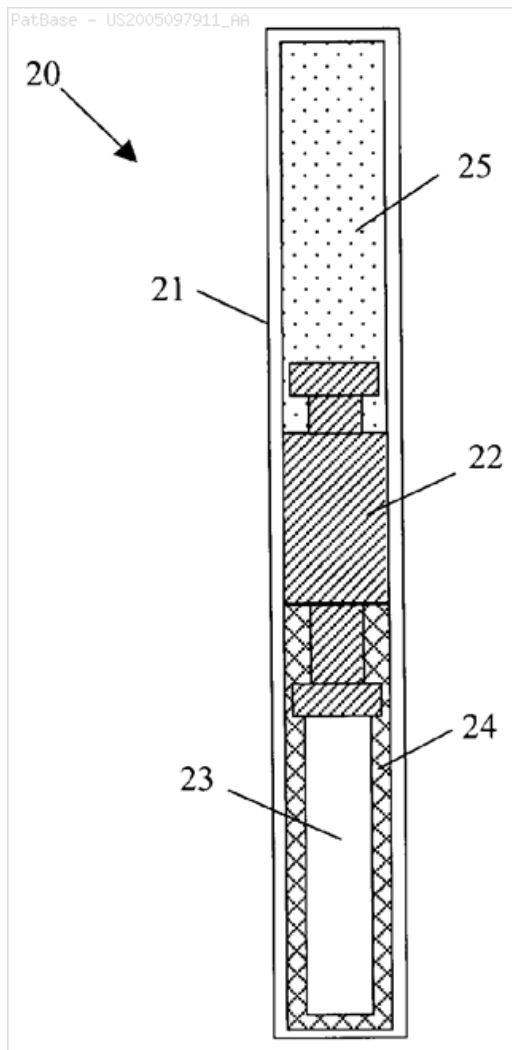
International (ipc 8-9): E21B36/00 E21B41/00 E21B43/12 E21B47/00 E21B47/01 F02G1/055 F04B53/08 F04D13/08 F04D29/58 F25B1/00 F25B23/00 F25B9/00 F25B9/14 F25D23/12 H02K5/12 H02K5/132 (Advanced/Invention); E21B41/00 E21B43/12 F02G1/00 F04B53/00 F04D13/06 F04D29/58 H02K5/12 (Core/Invention)

International (ipc 1-7): E21B23/00 E21B29/02 E21B36/00 E21B43/00 E21B47/01 F25B23/00 F25B9/00 F25B9/14 F25D23/12

CPC: F25B9/14 E21B47/011 E21B36/001

European: E21B36/00B E21B47/01P F25B9/14

US: 62/115 62/259.2 62/259.200P 62/260 62/6 62/6S



Family:

Publication number	Publication date	Application number	Application date
AU2007202449 AA	20080207	AU20070202449	20070529
CA2485788 AA	20050506	CA20042485788	20041026
CA2485788 C	20071204	CA20042485788	20041026
CA2590566 AA	20080118	CA20072590566	20070528

CA2590566 C	20140708	CA20072590566	20070528
CN1641185 A	20050720	CN200410047177	20041108
DE102004053251 A1	20050609	DE200410053251	20041104
FR2862081 A1	20050513	FR20040052531	20041104
FR2862081 B1	20070720	FR20040052531	20041104
GB200424033 A0	20041201	GB20040024033	20041029
GB200710470 A0	20070711	GB20070010470	20070601
GB2408273 A1	20050525	GB20040024033	20041029
GB2408273 B2	20060301	GB20040024033	20041029
MXPA04010745 A1	20050705	MX2004PA10745	20041029
RU2004132534 A	20060410	RU20040132534	20041105
SA1802 B1	20070506	SA20040250362	20041101
US2005097911 AA	20050512	US20040710103	20040618
US2006266064 AA	20061130	US20060458117	20060718
US7913498 BB	20110329	US20060458117	20060718

Priority:

US20030517782P 20031106 US20040710103 20040618 CA20042485788 20041026
US20060458117 20060718 CA20072590566 20070528

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER HOLDINGS ; SCHLUMBERGER SERVICES PETROL ; SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER CANADA LTD ; SCHLUMBERGER TECHNOLOGY CORP ; SERVIVIOS AND PERFILAJEST ELECTRONICOS S A

Assignee(s): SERVIVIOS AND PERFILAJEST ELECTRONICOS SA ; SCHLUMBERGER TECHNOLOGY DEN HAAG BV ; ZHOU FENG ; STOLLER CHRISTIAN ; ADOLPH ROBERT A ; BERNARD LARRY J ; BONNER STEPHEN D ; GUNAWARDANA RUVINDA ; SCHLUMBERGER HOLDINGS LTD ; ROWATT JOHN DAVID ; REVELLAT GUILLAUME ; HACHE JEAN MICHEL ; SCHLUMBERGER CANADA LTD1 - 525 3RD AVENUE S.W.EAU CLAIRE PLACEALGARYA1T2P 0G4CA ; SERVICES PETROLIERS SCHLUMBERGER

Inventor(s): (std): ADOLPH ROBERT ; ADOLPH ROBERT A ; BERNARD LARRY ; BERNARD LARRY J ; BONNER STEPHEN ; BONNER STEPHEN D ; CHRISTIAN STOLLER ; FENG ZHOU ; GUILLAUME REVELLAT ; GUNAWARDANA RUVINDA ; HACHE JEAN MICHAEL ; HACHE JEAN MICHEL ; JEAN MICHAEL HACHE ; REVELLAT GUILLAUME ; ROWATT JOHN D ; RUVINDA GUNAWARDANA ; STOLLER CHRISTIAN ; ZHOU FENG ; ZIHOU FENG ; LARRY BERNARD ; ROWATT JOHN DAVID

Inventor(s): JOHN DAVID ROWATT ; LARRY J BERNARD ; ROWATT JOHN DAVIDUS ; STEPHEN BONNER ; STEPHEN D BONNER ; ROBERT A ADOLPH ; ROBERT ADOLPH ; ROWATT JOHN ; JEAN MICHEL HACHE ; FENG ZIHOU

Agent(s): GRIFFITH HACK ; SMART AND BIGGAR ; BREVALEX ; SCHLUMBERGER OILFIELD SERVICES ; PATENT COUNSEL, SCHLUMBERGER RESERVOIR COMPLETIONS ; PATENT COUNSEL SCHLUMBERGER RESERVOIR COMPLETIONS ; TIM ; KEVIN B ; RODNEY V

11) Family number: 33892444 (US2006266526A)

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Title: SUBMERSIBLE PUMPING SYSTEM

Abstract: A technique is provided for pumping fluids in a subterranean wellbore. A submersible pumping system can be deployed in a wellbore for moving desired fluids within the wellbore. The pumping system energizes the desired fluid movement by reciprocating a working fluid between expandable members.

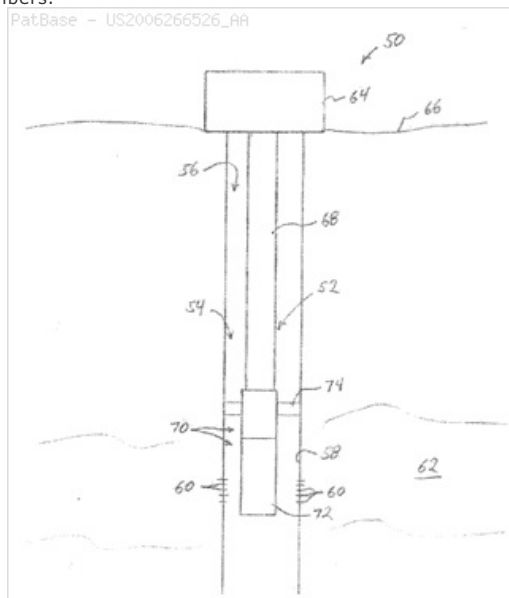
Classifications:

International (IPC 8-9): E21B1/00 E21B33/00 E21B43/00 E21B43/16 F04B23/04 F04B43/02 F04B47/00 F04B49/00 F04B49/03 F04B49/06 F04D13/08 F04D15/00 F04D29/00 (Advanced/Invention); E21B1/00 E21B33/00 E21B43/00 E21B43/16 F04B43/02 F04B47/00 F04B49/00 F04B49/02 F04D13/06 F04D15/00 F04D29/00 (Core/Invention)

CPC: E21B43/128 E21B43/129 F04B43/10 F04B47/06

European: E21B43/12B10 E21B43/12B12 F04B43/10 F04B47/06

US: 166/105 166/105S 166/370 166/372 166/68 166/68.5 166/68.500S 417/1 417/1P 417/394 417/395 417/427 417/427S 417/53 417/539 417/53P



Family:

Publication number	Publication date	Application number	Application date
CA2547424 AA	20061127	CA20062547424	20060518
CA2547424 C	20090908	CA20062547424	20060518
CN101275571 A	20081001	CN200810009948	20080215
CN101275571 B	20130717	CN200810009948	20080215
RU2006118201 A	20071210	RU20060118201	20060526
RU2328588 C2	20080710	RU20060118201	20060526
US2006266526 AA	20061130	US20060308623	20060413
US2007183900 AA	20070809	US20070676275	20070217

US2011311374 AA	20111222	US20110212680	20110818
US7469748 BB	20081230	US20060308623	20060413
US8020624 BB	20110920	US20070676275	20070217
US8196667 BB	20120612	US20110212680	20110818

Priority:

US20050595012P 20050527 US20060308623 20060413 CA20062547424 20060518
US20070676275 20070217 US20110212680 20110818

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): DORNAK STEVEN ; OALAN MURAT ; PRAD RES AND DEV LTD ; SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY CORP ; SCHLUMBERGER TECHNOLOGY BV

Assignee(s): ROWATT JOHN DAVID ; WATSON ARTHUR I ; ROSS ALLAN D ; SHLJUMBERGER TEKNOLODZHI BV ; ARUMUGAM ARUNKUMAR ; BENTON JOHN F ; PRAD RESEARCH AND DEVELOPMENT LTD ; SCHLUMBERGER CANADA LTD ; DU MICHAEL H ; JULSTROM PETER ; MILLER JEFFREY ; FINKIEWICZ BRIGITTE

Inventor(s): (std): BENTON DZHON F ; DORNAK STIVEN ; DU MAJKL KH ; DZHALSTROM PITER ; FINKEVICH BRIDZHITT ; MILLER DZHEFFRI ; OKALAN MURAT ; ROUEHTT DZHON DEHVID ; VATSON ARTUR I ; WATSON ARTHUR I ; ROWATT JOHN D ; ROSS ALLAN D ; OALAN MURAT ; MILLER JEFFREY ; JULSTROM PETER ; FINKIEWICZ BRIGITTE ; DU MICHAEL H ; DORNAK STEVEN ; BENTON JOHN F ; ARUMUGAM ARUKUMAR ; ROWATT JOHN DAVID ; OALAN DORNAK ; DORNAK OALAN ; ARUMUGAM ARUNKUMAR

Inventor(s): WATSON ARTHUR ; ROWATT JOHN ; ROSS ALLAN ; DU MICHAEL ; BENTON JOHN

Agent(s): SMART AND BIGGAR; SCHLUMBERGER RESERVOIR COMPLETIONS; MCGOFF KEVIN B; VAN SOMEREN ROBERT A; KURLCA JAMES L; ROBERT A; JAMES L; KEVIN B; JIM; KEVIN; TIM; JIM D

12) Family number: 65129521 (US2017070119A)

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Title: UNIVERSAL MOTOR ADAPTOR FOR LEAD POWER CABLE CONNECTION SYSTEMS

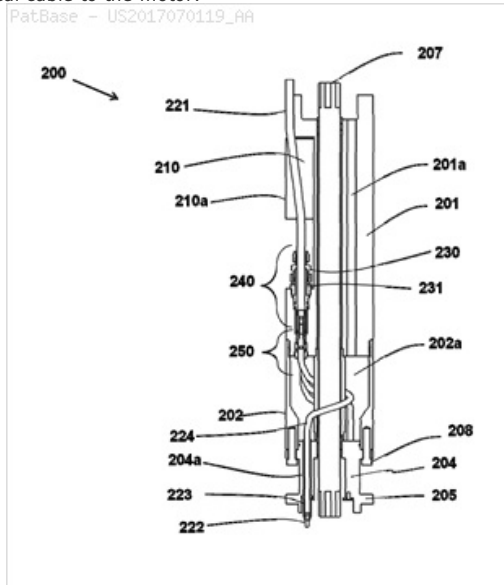
Abstract: An electrical submersible pumping system includes production tubing, a pump for pumping fluid through the production tubing, a motor for providing power to the pumping system, an electrical cable for supplying power to the motor, and a motor adaptor attached to the motor for connecting the electrical cable to the motor.

Classifications:

International (IPC 8-9): E21B43/12 F04B17/03 F04B47/00
F04B47/06 F04D13/06 F04D13/08 F04D13/10 H02K11/00 H02K5/132
H02K5/22 (Advanced/Invention)

CPC: H02K5/22 E21B43/128 H02K5/132 H02K11/0094 H02K5/225

US: 166/66.4



Family:

Publication number	Publication date	Application number	Application date
CO20180003519 A2	20180410	CO20180003519	20180402
US2017070119 AA	20170309	US20160004135	20160122
US9831740 BB	20171128	US20160004135	20160122
WO17040919 A1	20170309	WO2016US50098	20160902

Priority:

US20150844271 20150903 US20160004135 20160122 WO2016US50098 20160902

Probable Assignee: ALKHORAYEF PETROLEUM CO LTD

Assignee(s): (std): ALKHORAYEF PETROLEUM CO LTD ; LEE WOON YUNG

Inventor(s): (std): YI JIANYANG ; XUE YING ; LEE WOON YUNG

Inventor(s): JIANYANG YI ; WOON YUNG LEE ; YING XUE

Agent(s): JUAN PABLO CADENA SARMIENTO; JONES DAY; PHILLIPS GEORGE N 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

13) Family number: 29002588 (US2006037743A)

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Title: ELECTRIC MOTORS FOR POWERING DOWNHOLE TOOLS

Abstract: An electric motor for powering downhole tools comprises a first stator (33) including a first set of coil windings (73), a second stator including a second set of windings, an axially located rotatable shaft (92) including a first magnetic element and a second magnetic element, a sealed annular chamber define by a first tube (96), and an second tube concentrically inside the first tube. The first and second stators are located in the annular chamber, and the first magnetic element being aligned with the first stator such that the first stator when energised can act upon the first magnetic element, and the second magnetic element being aligned with the second stator such that the second stator when energised can act upon the second magnetic element.

Classifications:

International (IPC 8-9): E21B4/04 E21B43/12 F04D13/10 H02K1/27 H02K16/00 H02K3/44 H02K3/50 H02K47/00 H02K5/10 H02K5/12 H02K5/128 H02K5/132 H02K7/00 (Advanced/Invention);

E21B43/12 (Advanced/Non-invention);

E21B4/00 E21B43/12 F04D13/06 H02K16/00 H02K3/50 H02K47/00 H02K5/12 H02K7/00 (Core/Invention)

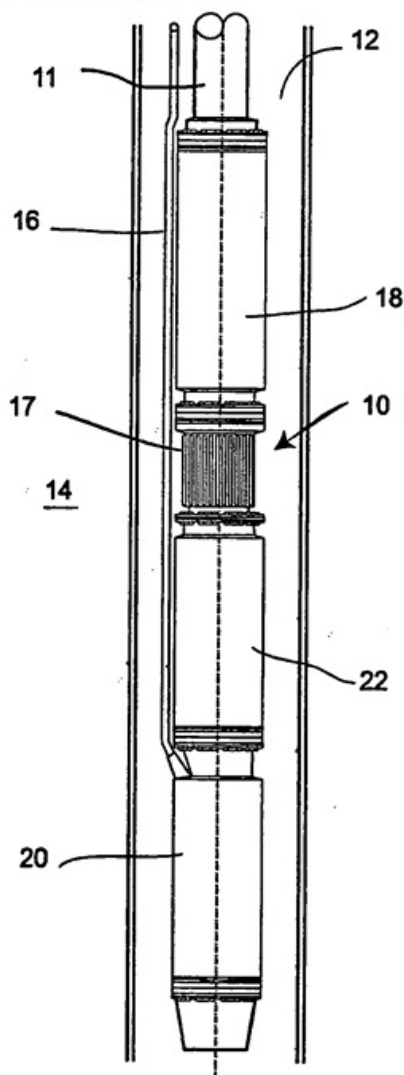
International (IPC 1-7): E21B43/12 F04D13/10 H02K16/00 H02K3/50 H02K5/132

CPC: E21B43/128 F04D13/10 H02K3/50 H02K5/1285 H02K5/132 H02K16/00

European: E21B43/12B10 F04D13/10 H02K16/00 H02K3/50 H02K5/128C H02K5/132

US: 166/66.4 166/66.400P 310/112 310/112S 310/67.00RS 310/67R 310/87 310/87P 417/423.3

PatBase - US2006037743_AA



Family:

Publication number	Publication date	Application number	Application date
AU2003264766 AA	20040408	AU20030264766	20030918
CA2499251 AA	20050316	CA20032499251	20030918
CA2630120 AA	20040401	CA20032630120	20030918
CA2630120 C	20110419	CA20032630120	20030918
GB200221630 A0	20021030	GB20020021630	20020918
GB200315848 A0	20030813	GB20030015848	20030707
GB200321882 A0	20031022	GB20030021882	20030918
GB2395071 A1	20040512	GB20030021882	20030918
GB2395071 B2	20050601	GB20030021882	20030918
US2006037743 AA	20060223	US20030528664	20030918
US2008111434 AA	20080515	US20080008361	20080110
US7378769 BB	20080527	US20030528664	20030918
US7504752 BB	20090317	US20080008361	20080110
WO04027211 A1	20040401	WO2003GB04009	20030918

Priority:

GB20020021630 20020918	GB20030015848 20030707	CA20032499251 20030918
CA20032630120 20030918	US20030528664 20030918	WO2003GB04009 20030918
US20050528664 20050317	US20080008361 20080110	CA20082499251 20080626

Probable Assignee: ARTIFICIAL LIFT CO LTD

Assignee(s): (std): ARTIFICIAL LIFT CO LTD ; HEAD PHILIP

Assignee(s): PHILIP HEAD ; ARTIFICIAL LIFT COMPANY LIMITED ; COMERICA BANK ; ACCESSESP UK LTD ; ARTIFICIAL LIFT CO LION WORKS LTD

Inventor(s): (std): HEAD PHILIP

Inventor(s): PHILIP HEAD

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; THE FIRM OF KARL F ROSS; FIRM

OF KARL F ROSS; KF ROSS PC; WILFORD ANDREW; ANDREW

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 OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

14) Family number: 58337617 (US2015021014A)

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Title: FORWARD DEPLOYED SENSING ARRAY FOR AN ELECTRIC SUBMERSIBLE PUMP

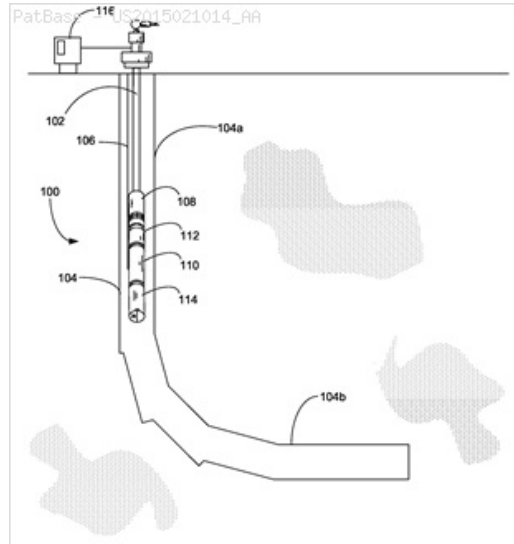
Abstract: An electric submersible pumping system has an electric motor, a pump assembly driven by the electric motor and a sensor module. The sensor module preferably includes a detachable sensor array that can be selectively released from the sensor module. In preferred embodiments, the detachable sensor array includes a self-propelled sensor array vehicle that has a drive motor, a drive mechanism driven by the drive motor and a sensor array. The detachable sensor array provides a wellbore condition signal that can be used to automatically adjust the performance of the electric submersible pumping system.

Classifications:

International (IPC 8-9): E21B23/00 E21B43/12 E21B47/00 E21B47/008 E21B47/01 F04D13/10 (Advanced/Invention); E21B23/00 (Advanced/Non-invention)

CPC: E21B47/00 E21B43/128 E21B47/0007 E21B47/01 E21B2023/008 F04D13/10

US: 166/105 166/250.01



Family:

Publication number	Publication date	Application number	Application date
CA2918386 AA	20160114	CA20142918386	20140717
CN105593461 A	20160518	CN201480040995	20140717
CN105593461 B	20180828	CN201480040995	20140717
EP3022388 A2	20160525	EP20140747266	20140717
US2015021014 AA	20150122	US20130946374	20130719
US9494029 BB	20161115	US20130946374	20130719
WO15009923 A2	20150122	WO2014US47017	20140717
WO15009923 A3	20150625	WO2014US47017	20140717

Priority:

US20130946374 20130719 WO2014US47017 20140717

Probable Assignee: GE OIL AND GAS ESP INC

Assignee(s): (std): GE OIL AND GAS ESP INC

Assignee(s): HOYTE SCOTT MORDIN ; HUGHES MICHAEL FRANKLIN

Inventor(s): (std): HOYTE SCOTT MORDIN ; HUGHES MICHAEL FRANKLIN

Agent(s): CRAIG WILSON AND CO; ILLINGWORTH LAW WILLIAM ILLINGWORTH; CROWE AND DUNLEVY PC; DOMBROWSKI JOANNA 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 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

15) Family number: 33341632 (US2006222529A)

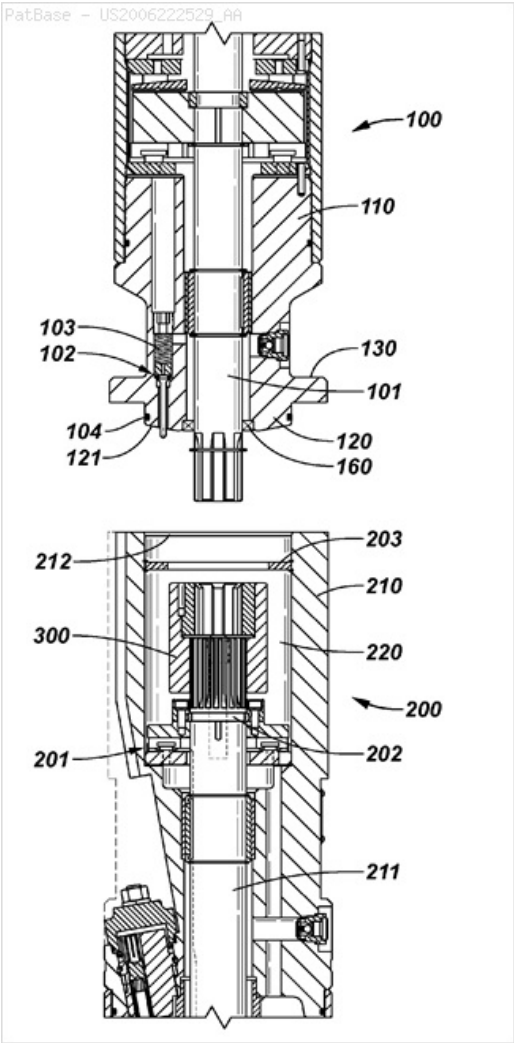
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Title: TANDEM MOTORS

Abstract: A pumping system including a first section and a second section. The first section includes a first housing having an axial bore formed therethrough and a protruding member formed on one end of the first housing, and a first shaft arranged within the axial bore of the first housing. The second section include a second housing having an axial bore formed therethrough and a recess formed on one end of the second housing for receiving the protruding member of the first housing, and a second shaft arranged within the axial bore of the second housing. An apparatus for compensating oil volume change in a motor, including a compensator housing having an open end for connecting to the motor, and a closed end; and a flexible bladder arranged within the housing and connected to the open end of the housing.

Classifications:

International (IPC 8-9): C07D285/01 F04B17/00 F04B35/04 F04D13/08 F04D13/10 F04D13/12 F04D29/00 F04D29/06 F04D29/52 F04D29/60 (Advanced/Invention); F04B17/00 F04B35/00 F04D13/06 F04D29/00 F04D29/06 F04D29/40 F04D29/60 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
CA2535228 AA	20060823	CA20062535228	20060203
CA2535228 C	20100427	CA20062535228	20060203
RU2006105520 A	20080120	RU20060105520	20060222
RU2390660 C2	20100527	RU20060105520	20060222
SA2468 B1	20100720	SA20060270026	20060222
US2006222529 AA	20061005	US20060306606	20060104
US7549849 BB	20090623	US20060306606	20060104

Priority:

US20050593899P 20050223 US20060306606 20060104 CA20062535228 20060203

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

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

Assignee(s): WATSON ARTHUR I ; SCHLUMBERGER HOLDINGS LTD ; SHLJUMBERGER TEKNOLODZHI BV ; SCHLUMBERGER CANADA LTD ; DU MICHAEL H ; MCCARTNEY PATRICK M ; MESSICK TYSON R ; NARVAEZ DIEGO A

Inventor(s): (std): CARTNY PATRICK M MC ; WATSON ARTHUR E ; WATSON ARTHUR I ; NARVAEZ DIEGO A ; MESSICK TYSON R ; MCCARTNEY PATRICK M ; DU MICHAEL H ; NARVAZ DIEGO ; VATSON ARTUR I ; NARVAEHS DIEGO A ; MESSIK TAJSON R ; MAKKARTNI PATRIK M ; DU MAJKL KH

Inventor(s): WATSON ARTHUR ; DU MICHAEL ; MCCARTNEY PATRICK ; MESSICK TYSON ; NARVAEZ DIEGO

Agent(s): SMART AND BIGGAR; SCHLUMBERGER RESERVOIR COMPLETIONS; OSHA; KEVIN B; JAMES L

16) Family number: 44417699 (US7666013B) © PatBase

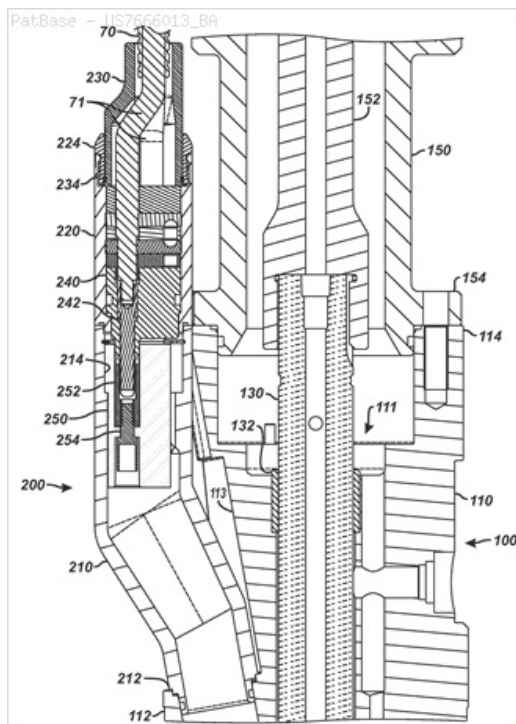
Title: ADAPTER FOR MOTOR LEAD EXTENSION TO ELECTRIC SUBMERSIBLE PUMP

Abstract: An adapter for a motor head of an electric submersible pump enables a motor head having a pothole and cutaway to provide a direct-connect for a motor lead extension cable run downhole to the motor section of the pump. The adapter has a curved conduit independent of the motor head that positions adjacent the side of the motor head in the provided cutaway. The conduit's downhole end affixes (bolts) to the motor head with the end disposing in the pothole of the motor head. The conduit's uphole end affixes (bolts) adjacent the uphole end of the motor head. A termination block disposed in the conduit's uphole has sockets that are electrically connected to motor components via internal leads running through the conduit and the pothole. A mating termination on the end of a motor lead extension cable affixes (bolts) to the conduit's uphole end, and pin on the termination electrically couple to the sockets to convey power to the motor section.

Classifications:

International (IPC 8-9): F04B47/06 F04D13/08 H01R13/02
H01R13/523 H01R13/53 (Advanced/Invention);

F04B47/00 F04D13/06 H01R13/02 H01R13/523
H01R13/53 (Core/Invention)
CPC: F04D13/0693 H01R13/533 F04D13/10 H02K5/132 H02K5/225
European: F04D13/10 H01R13/533 H02K5/132 H02K5/22B
US: 417/423.3 439/191



Family:

Publication number	Publication date	Application number	Application date
CA2683262 AA	20100420	CA20092683262	20091019
CA2683262 C	20120110	CA20092683262	20091019
US7666013 BA	20100223	US20080254071	20081020

Priority:

US20080254071 20081020 CA20092683262 20091019

Probable Assignee: OILFIELD EQUIPMENT DEVELOPMENT CENTER LTD

Assignee(s): (std): BORETS CO LLC ; BORETS COMPANY LLC ; GROSS ED ; KOPECKY TREVOR

Assignee(s): OILFIELD EQUIPMENT DEVELOPMENT CENTER LTD ; BORETS CO

Inventor(s): (std): GROSS ED ; GROSS EDWIN ; KOPECKY TREVOR

Agent(s): GOODWIN MCKAY; PARLEE MCLAWS LLP; WONG CABELLO LUTSCH RUTHERFORD AND BRUCCULERI LLP

17) Family number: 46565757 (US2012031144A)

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Title: CRYOGENIC SYSTEM FOR REMOVING ACID GASES FROM A HYDROCARBON GAS STREAM, AND METHOD OF REMOVING ACID GASES

Abstract: A system for removing acid gases from a raw gas stream the system includes a cryogenic distillation tower. The tower receives and separates the raw gas stream into an overhead methane stream and a bottom liquefied acid gas stream. Refrigeration equipment downstream of the cryogenic distillation tower cools the overhead methane stream and returns a portion of the overhead methane stream to the cryogenic distillation tower as liquid reflux. The system also may include a first molecular sieve bed upstream of the distillation tower and a second molecular sieve bed downstream of the distillation tower. The first molecular sieve bed adsorbs water while the second molecular sieve bed adsorbs additional acid gases from the cooled overhead methane stream.

Classifications:

International (IPC 8-9): B01D3/32 B01D53/00 B01D53/04
B01D53/26 C10L3/10 E04D15/00 E21B43/12 E21B47/00 E21B47/008
F04B35/04 F04B49/00 F04D15/00 F25J3/00 F25J3/02 F25J3/08
G01H5/00 (Advanced/Invention);
B01D53/04 (Advanced/Non-invention)

International (IPC 1-7): B01D3/32 C10L3/10 F25J3/02

CPC: F25J3/0209 B01D53/002 B01D53/04 B01D53/0423
B01D2253/108 B01D2257/304 B01D2257/504 C10L3/10 C10L3/102
F25J3/0233 F25J3/0266 F25J2200/02 F25J2200/74 F25J2200/76
F25J2200/90 F25J2205/04 F25J2205/20 F25J2205/40 F25J2205/60
F25J2205/62 F25J2205/64 F25J2205/66 F25J2205/68 F25J2205/70
F25J2205/72 F25J2215/04 F25J2220/02 F25J2220/04 F25J2220/40
F25J2220/66 F25J2220/68 F25J2220/80 F25J2240/02 F25J2240/30
F25J2240/40 F25J2250/02 F25J2260/80 F25J2270/12 F25J2280/02
F25J2280/30 F25J2280/40 F25J2290/40 F25J2290/72 Y02C10/12
F04D31/00 E21B43/128 E21B47/0007 F04D15/0088

European: C10L3/10 C10L3/10B2 E21B43/12B10 E21B47/00P
F04D15/00L F25J3/02A2 F25J3/02C16 F25J3/02C2 R25J200/02
R25J200/74 R25J200/76 R25J200/90 R25J205/04 R25J205/20
R25J205/40 R25J205/60 R25J215/04 R25J220/66 R25J220/68
R25J240/02 R25J240/30 R25J240/40 R25J260/80 R25J270/12
R25J280/02 R25J280/40 R25J290/72 Y02C10/12

US: 1/1 417/1 417/1P 417/410.1 417/410.100S 62/617 62/617P
73/645 73/645S

Publication number	Publication date	Application number	Application date
AU2010239718 AA	20101028	AU20100239718	20100122
AU2010239718 BB	20160204	AU20100239718	20100122
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CA2759037 AA	20101028	CA20102759037	20100122
CA2759037 C	20180925	CA20102759037	20100122
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CN102317570 B	20141231	CN200980156571	20090213
CN102405275 A	20120404	CN201080017582	20100122
CN102405275 B	20150114	CN201080017582	20100122
DE602010016822 D1	20140814	DE201060016822T	20100122
EA021006 B1	20150331	EA20110071266	20100122
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MX2011010404 A1	20111024	MX20110010404	20100122
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RU2011137524 A	20130320	RU20110137524	20090213
RU2519537 C2	20140610	RU20110137524	20090213
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US2012031144 AA	20120209	US20100255219	20100122
US2012034103 AA	20120209	US20090138433	20090213
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VN13795 A1	20150427	VN20110002975	20100122
WO10093277 A1	20100819	WO2009RU00069	20090213
WO10123598 A1	20101028	WO2010US21785	20100122

WO2009RU00069 20090213	US20090170919P 20090420	EP20100767456 20100122
WO2010US21785 20100122	US20100255219 20100122	

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Inventor(s):	CHARLES CHUCK J MART ; CHARLES J MART ; BRUCE T KELLEY ; NORTHROP PAUL SCOTT SPRING ; PAUL SCOTT NORTHROP ; MART CHARLES J BATON ROUGE ; KELLEY BRUCE T KINGWOOD
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EXXONMOBIL UPSTREAM RESEARCH CO LAW DEPARTMENT; LAW FIRM GORODISSKY AND PARTNERS LTD; MARSH TIMOTHY J ET AL
AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

18) Family number: 37221785 (US2007252717A)

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Title: SYSTEM AND METHOD FOR REAL-TIME MONITORING AND FAILURE PREDICTION OF ELECTRICAL SUBMERSIBLE PUMPS

Abstract: A system and method for real-time monitoring and failure prediction of electrical submersible pumps.

Classifications:

International (IPC 8-9): E21B44/00 E21B47/00 E21B47/08

F04D13/00 G01B21/00 G08B21/00 (Advanced/Invention);

E21B47/00 F04D13/00 G08B21/00 (Core/Invention)

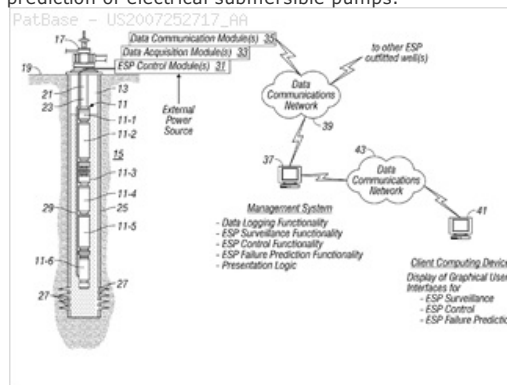
International (IPC 1-7): F04B49/0 F04B49/10

CPC: E21B47/0007 F04D13/10

European: E21B47/00P F04D13/10

US: 340/648 340/648P 367/149 417/63 417/63S 702/1 702/14

702/16 702/185 702/2 702/6 702/9



Family:

Publication number	Publication date	Application number	Application date
AR060083 AA	20080521	AR2007P101205	20070323
CO6141486 A2	20100319	CO20080106717	20081007
PE12972007 A1	20071214	PE20070000311	20070321
US2007252717 AA	20071101	US20060308420	20060323
US7979240 BB	20110712	US20060308420	20060323
WO07107815 A1	20070927	WO2007IB00357	20070212

Priority:

US20060308420 20060323 WO2007IB00357 20070212

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): FIELDER LANCE ; PRAD RES AND DEV NV ; PRAD RESERACH AND DEV N V ; SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER SERVICES PETROL ; SCHLUMBERGER HOLDINGS ; SCHLUMBERGER TECHNOLOGY CORP ; SCHLUMBERGER TECHNOLOGY BV

Assignee(s): SCHLUMBERGER CANADA LTD ; SCHLUMBERGER HOLDINGS LTD ; SERVICES PETROLIERS SCHLUMBERGER ; PRAD RESERACH AND DEVELOPMENT N V ; PRAD RESEARCH AND DEVELOPMENT N V

Inventor(s): (std): FIELDER LANCE ; FIELDER LANCE I

Inventor(s): LANCE FIELDER

Agent(s): GERMAN CASTILLO GRAU; SCHLUMBERGER TECHNOLOGY CORP; JIM; RODNEY; KEVIN B

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

19) Family number: 45440924 (US2010150751A)

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Title: ELECTRICAL SUBMERSIBLE PUMP SYSTEM CONNECTION ADAPTER

Abstract: An electrical submersible pumping assembly having a seal section and a motor section, and seals that prevent leakage from the seal section and the motor section during assembly. The seals cooperate with a coupling assembly for coupling together shafts from both the seal section and motor section. The coupling assembly outer diameter enlarges at a shoulder that circumscribes its outer surface. In one example, the seal that prevents leakage from the seal assembly provides a sealing interface around the larger diameter portion of the coupling assembly, that is removable by sliding the coupling so its smaller diameter portion is adjacent the seal assembly. The motor section is sealed by another sealing assembly that includes a body that circumscribes the motor shaft to define an annulus, a sealing disk selectively fills the annulus. The sealing disk can also be slid away from within the body while coupling the shafts with the coupling assembly.

Classifications:

International (IPC 8-9): E21B17/02 E21B43/00 E21B43/12

E21B47/06 F04B35/04 F04B47/06 F04D13/10 F16D1/108 F16J15/16

H02K15/00 H02K5/12 H02K5/132 (Advanced/Invention);

E21B17/00 E21B17/02 E21B43/00 E21B43/12 F04B35/00 F16J15/16

H02K15/00 (Core/Invention)

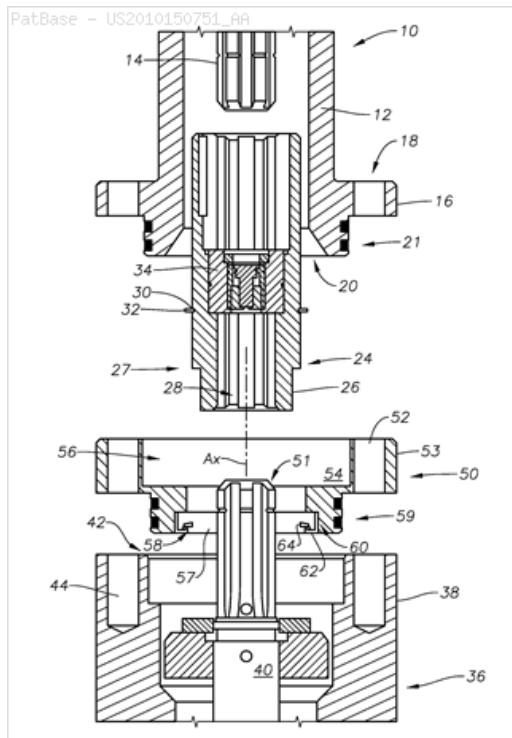
CPC: Y10T29/49009 E21B47/06 F04B47/06 E21B43/128 H02K5/132

H02K15/00

European: E21B43/12B10 F04B47/06 H02K15/00 H02K5/132

US: 277/336 277/336S 29/596 29/596S 417/410.1 417/410.100P

417/423.11 417/423.3 417/423.6

**Family:**

Publication number	Publication date	Application number	Application date
CA2746095 AA	20100617	CA20092746095	20091211
CA2746095 C	20150602	CA20092746095	20091211
GB201109587 A0	20110720	GB20110009587	20091211
GB2477694 A1	20110810	GB20110009587	20091211
GB2477694 B2	20121212	GB20110009587	20091211
RU2011127912 A	20130120	RU20110127912	20091211
RU2519132 C2	20140610	RU20110127912	20091211
SG172065 A1	20110728	SG20110042264	20091211
US2010150751 AA	20100617	US20090635191	20091210
US8419390 BB	20130416	US20090635191	20091210
WO10068833 A2	20100617	WO2009US67620	20091211
WO10068833 A3	20101014	WO2009US67620	20091211

Priority:

US20080121813P 20081211 US20090635191 20091210 WO2009US67620 20091211

Probable Assignee: BAKER HUGHES INC

Assignee(s): (std): KNOX DICK ; KNOX DICK L ; MERRILL DANIEL A ; SHAFFER DANIEL A ; MERRILL DAN A ; BAKER HUGHES ; BAKER HUGHES INC

Assignee(s): BEJKEK KH JUZ INKORPOTETED

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Inventor(s): DICK KNOX

Agent(s): SIM AND MCBURNEY; BRACEWELL AND GIULIANI LLP; HENDRYX THOMAS N ET AL

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

20) Family number: 2049930 (US4435132A)

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Title: SUBMERSIBLE PUMPING SYSTEM

Abstract: A submersible pumping system is disclosed for pumping cryogenic liquid from a reservoir in which a pump and motor unit is lowered to the bottom of a fluid transmitting casing in the reservoir. An isolation chamber is provided in the casing above the roof of the reservoir into which the pump and motor unit is raised for removal. A special sealing arrangement is provided which maintains the casing and reservoir isolated from the atmosphere when lifting the pump and motor unit, yet allows a flexible suspension cable to be utilized.

Classifications:

International (IPC 8-9): B63C7/16 F04D13/08 F04D29/60

F04D7/02 (Advanced/Invention);

B63C7/00 F04D13/06 F04D29/60 F04D7/00 (Core/Invention)

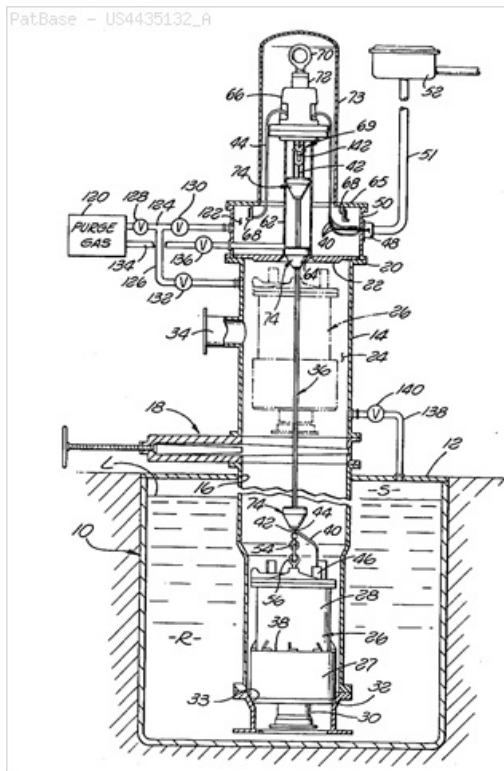
International (IPC 1-7): B67D5/40 B67D5/50 F04B15/00 F04B35/00

F04B47/06 F04D13/08 F04D7/00 F04D7/02

CPC: F04D13/086 F04D29/606 B63C7/006 F17C2223/0161 F17C2227/0178

European: B63C7/00E F04D13/08 F04D29/60P2

US: 222/381 417/360 417/422

**Family:**

Publication number	Publication date	Application number	Application date
CH654881 A	19860314	CH19810006317	19811001
DE3135426 A1	19820624	DE19813135426	19810908
FR2492009 A1	19820416	FR19810018922	19811008
FR2492009 B1	19860523	FR19810018922	19811008
GB2085078 A1	19820421	GB19810030453	19811008
GB2085078 B2	19840307	GB19810030453	19811008
JP1253100 C3	19850226	JP19810151907	19810925
JP57137684 A2	19820825	JP19810151907	19810925
JP59028756 B4	19840716	JP19810151907	19810925
US4435132 A	19840306	US19830475463	19830314

Priority:

US19800195514 19801009 US19830475463 19830314

Probable Assignee: ITT CORP

Assignee(s): (std): ITT IND GMBH DEUTSCHE ; ITT ; ITT IND ; CARTER CO J C

Assignee(s): CARTER CY INC JC ; CHASE MANHATTAN BANK AS COLLATERAL AGENT ; CHASE MANHATTAN BANK COLLATERAL AGENT AS ; DEUTSCHE ITT IND GMBH ; JC CARTER CO INC ; ITT CORP ; INT TELEPHONE AND TELEGRAPH CORP ; ITT IND INC ; JC CARTER CO INC A CORP OF CA

Inventor(s): (std): HAESLOOP WILLIAM G ; JIEEMUSU UORUTAA JIYOONZU ; JONES JAMES W ; JONESA JAMES WALTER ; MANN MELVIN S ; MERUBIN SEIMUAA MAN ; UIRIAMU JIYOJJI HAESURUUPU ; UIRIAMU JOOJI HAESURUUPU ; MANN MELVIN SEYMOUR ; JONES JAMES WALTER ; JEEMUSU UORUTAA JOONZU ; HAESLOOP WILLIAM GEORGE

Inventor(s): WALTER JONES JAMES ; SEYMOUR MANN MELVIN ; GEORGE HAESLOOP WILLIAM ; WILLIAM GEORGE HAESLOOP MELVIN SEYMOUR MANN ET... ; WILLIAM GEORGE HAESLOOP MELVIN SEYMOUR MANN ET JAMES WALTER JONES ; WILLIAM GEORGE HAESLOOP MELVIN SEYMOUR MANN ET JAM