

1) Family number: 49044330 (US2011132622A)

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Title: APPARATUS AND METHOD FOR INSTALLING A LINER STRING IN A WELLBORE CASING

Abstract: An apparatus (100) for installing a liner string (102) in a wellbore casing (40). The apparatus (100) includes a tubular mandrel subassembly (110), a load transfer subassembly (140) and an expander cone subassembly (142). The load transfer subassembly (140) is carried on the tubular mandrel subassembly (110) and is operable to apply a force in the downhole direction to the liner string (102). The expander cone subassembly (142) is carried on the tubular mandrel subassembly (110) and is operable to radially expand at least a portion of the liner string (102) into contact with the wellbore casing (40) when axially moved through the liner string (102). In operation, decoupling of the load transfer subassembly (140) from the tubular mandrel subassembly (110) enables release of the apparatus (100) from the liner string (102).

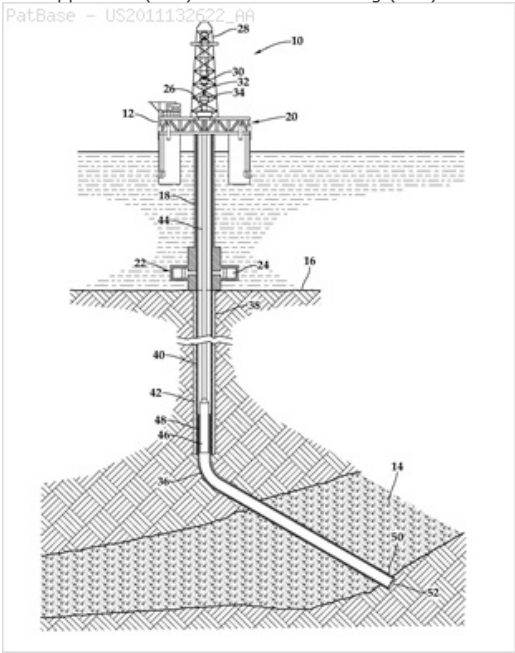
Classifications:

International (IPC 8-9): E21B23/00 E21B43/10 (Advanced/Invention)

CPC: E21B43/105

European: E21B43/10F1

US: 166/126 166/126S 166/207 166/382



Family:

Publication number	Publication date	Application number	Application date
US2011132622 AA	20110609	US20090632887	20091208
US8371388 BB	20130212	US20090632887	20091208
WO11071585 A1	20110616	WO2010US49943	20100923

Priority:

US20090632887 20091208

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): HALLIBURTON ENERGY SERV INC ; MOELLER DANIEL KEITH ; WATSON BROCK WAYNE

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

Inventor(s): (std): MOELLER DANIEL KEITH ; WATSON BROCK WAYNE

Agent(s): LAWRENCE R; YOUST LAWRENCE R

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

2) Family number: 54554475 (US2013213673A)

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Title: DECOUPLING A REMOTE ACTUATOR OF A WELL TOOL

Abstract: A well tool with a housing has an actuator sleeve in the housing. The actuator sleeve has an internal shifting tool engaging profile. An actuator is in the housing. The actuator is responsive to a remote signal to move the actuator sleeve from a first position to a second position. A dog is in the housing, supported to couple the actuator sleeve to the actuator when the actuator sleeve is in the first position and unsupported to allow the actuator sleeve to uncouple from the actuator when the actuator sleeve is in the second position.

Classifications:

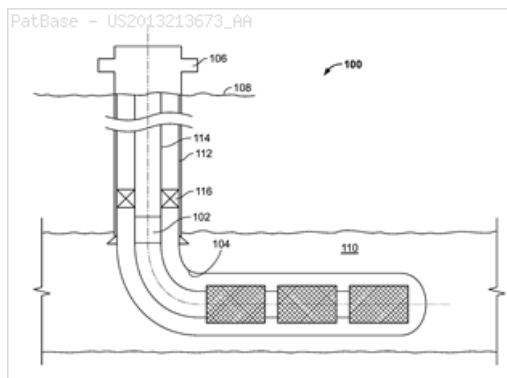
International (IPC 8-9): E21B17/02 E21B17/08 E21B23/00

E21B23/02 E21B34/06 E21B34/10 E21B34/14 (Advanced/Invention)

CPC: E21B34/066 E21B23/00 E21B34/107 E21B34/14 E21B17/105

E21B23/02 E21B34/10

US: 1/1 166/113 166/381 166/386



Family:

Publication number	Publication date	Application number	Application date
AU2012369164 AA	20130815	AU20120369164	20120210
AU2012369164 BB	20160512	AU20120369164	20120210
BR112014019818 A2	20170620	BR20141119818	20120210
BR112014019818 A8	20170711	BR20141119818	20120210
CA2862418 AA	20140723	CA20122862418	20120210
CA2862418 C	20170228	CA20122862418	20120210
EP2812524 A1	20141217	EP20120867927	20120210
EP2812524 A4	20160615	EP20120867927	20120210
US2013213673 AA	20130822	US20130762794	20130208
US9163480 BB	20151020	US20130762794	20130208
WO13119251 A1	20130815	WO2012US24676	20120210

Priority:

WO2012US24676 20120210 US20130762794 20130208

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): CRABB JAMES ; GOODALL WILLIAM JAMES ; HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; WEBBER ANDREW JOHN ; KALB FRANK DAVID

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Inventor(s): KALB FRANK DAVIDUS ; GOODALL WILLIAM JAMESUS ; WEBBER ANDREW JOHNUS ; CRABB JAMESGB ; JAMES CRABB ; FRANK DAVID KALB ; ANDREW JOHN WEBBER ; WILLIAM JAMES GOODALL

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; FB RICE; FB RICE PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; HOFFMANN EITLE; FISH AND RICHARDSON PC; SCOTT; GRISWOLD JOSHUA A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT 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

3) Family number: 10181695 (US4730851A)

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Title: Downhole expandable casting hanger

Abstract: A hanger assembly 10 for suspending an inner pipe string 32 within an outer casing 16 from a particular location therein. The hanger assembly includes a hanger body 30 and an expandable locking assembly 46 comprised of a plurality of latching fingers 77 secured at their lower ends about the hanger body by a split retainer ring 48 which permits limited pivotal movement of the latching fingers about their lower ends. Each latching finger 47 is provided with a hook surface 71 adjacent its upper end adapted to engage an upward facing abutment 20 on the inner profile of the outer casing. The free ends of the latching fingers are urged outwardly by a circular spring 58. The retainer 48 and locking assembly 46 are secured to the hanger body 30 by a connecting shear ring 55 which restrains relative axial movement of the locking assembly on the hanger body until the latching fingers hook on the inner profile of the outer casing whereby the shear ring 55 is parted by a predetermined weight of the inner pipe string and the hanger body 30 slides downward to lock the fingers 47 in latched relation with the outer casing 16. By uplifting the hanger 30, cooperating cam surfaces 72, 75, 19, 26 on the fingers 47 and outer casing 16 permit extraction of the inner pipe string 32 if desired.

Classifications:

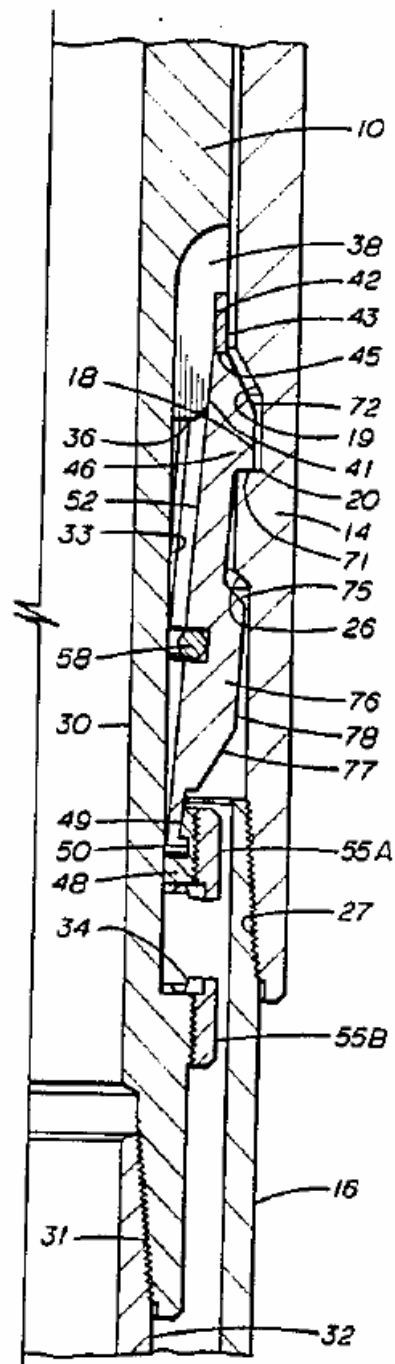
International (IPC 8-9): E21B23/02 E21B43/10 (Advanced/Invention); E21B23/00 E21B43/02 (Core/Invention)

International (IPC 1-7): F16L39/00

CPC: E21B23/02 E21B43/10

European: E21B23/02 E21B43/10

US: 285/123.4 285/141 285/317 285/320 285/4

**Family:**

Publication number	Publication date	Application number	Application date
US4730851 A	19880315	US19860882873	19860707

Priority:

US19860882873 19860707

Probable Assignee: COOPER CAMERON CORP**Assignee(s):** (std): COOPER IND INC**Assignee(s):** JOY MFG ; COOPER INDUSTRIES ; JOY MFG CO A CORP OF PA ; COOPER CAMERON CORP ; COOPER IND**Inventor(s):** (std): WATTS GERALD D**4) Family number: 47025603** (US2010252252A)

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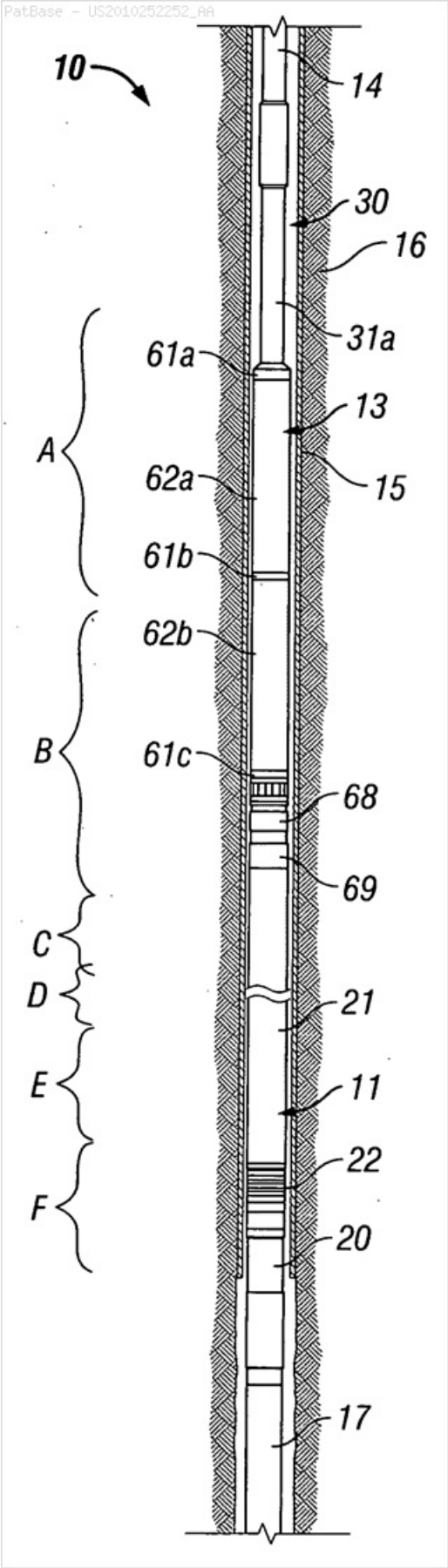
Title: HYDRAULIC SETTING ASSEMBLY

Abstract: Novel hydraulic actuators and hydraulic setting assemblies are provided for use in downhole, oil and gas well tools. The novel hydraulic actuators include a cylindrical mandrel and an annular stationary sealing member connected to the mandrel. A hydraulic cylinder is slidably supported on the mandrel and stationary sealing member and is releasably fixed in position on the mandrel. The stationary sealing member divides the interior of the cylinder into a bottom hydraulic chamber and a top hydraulic chamber. An inlet port provides fluid communication into the bottom hydraulic chamber, and an outlet port provides fluid communication into the top hydraulic chamber. A balance piston is slidably supported within the top

hydraulic chamber of the actuator. The piston includes an axially extending passageway. Fluid communication through the piston and between its upper and lower sides is controlled by a normally shut valve in the passageway. In the absence of relative movement between the mandrel and cylinder, the balance piston is able to slide in response to a difference in hydrostatic pressure between the outlet port, is which is on one side of the piston, and the portion of the top hydraulic chamber that is on the bottom side of the piston.

Classifications:

International (IPC 8-9): E21B22/00 E21B23/00 E21B23/01
E21B23/04 E21B23/06 E21B23/08 E21B33/00 E21B33/04 E21B33/12
E21B33/13 E21B33/14 E21B34/12 E21B43/10 (Advanced/Invention);
E21B23/00 E21B33/00 (Core/Invention)
CPC: E21B29/10 E21B23/01 E21B23/04 E21B23/06 E21B33/04
E21B33/14 E21B43/103 E21B43/105 E21B34/12 E21B2034/007
E21B43/10 E21B33/13
European: E21B23/01 E21B23/04 E21B23/06 E21B29/10 E21B33/04
E21B43/10 E21B43/10F E21B43/10F1
US: 1/1 166/118 166/120 166/120S 166/122 166/129 166/207
166/208 166/208S 166/212 166/212S 166/217 166/217S 166/285
166/381 166/382 166/384 166/86.2



Family:

Publication number	Publication date	Application number	Application date
BR102013008358 A2	20160119	BR20131008358	20130405
BR102013008358 A8	20180522	BR20131008358	20130405
BR102013008358 B1	20170822	BR20131008358	20130405

BRPI1006562 A2	20170822	BR2010PI06562	20100326
CA2757293 AA	20101007	CA20102757293	20100326
CA2757293 C	20150210	CA20102757293	20100326
CA2811638 AA	20131005	CA20132811638	20130402
CA2811638 C	20160426	CA20132811638	20130402
CA2834638 AA	20101007	CA20102834638	20100326
CA2834638 C	20150317	CA20102834638	20100326
EP2414622 A2	20120208	EP20100722800	20100326
EP2414622 B1	20171101	EP20100722800	20100326
EP2414622 B8	20171213	EP20100722800	20100326
EP2647789 A2	20131009	EP20130162620	20130405
EP2647789 A3	20170726	EP20130162620	20130405
EP2749730 A1	20140702	EP20140154897	20100326
GC5303 A	20170405	GC2013P024027	20130403
MX2011010312 A1	20111214	MX20110010312	20100326
MX2013003792 A1	20131014	MX20130003792	20130404
MX344176 B	20161208	MX20130003792	20130404
RU2011143267 A	20130510	RU20110143267	20100326
RU2521238 C2	20140627	RU20110143267	20100326
US2010252252 AA	20101007	US20100658226	20100204
US2010252278 AA	20101007	US20090592026	20091119
US2013180715 AA	20130718	US20120506227	20120405
US8453729 BB	20130604	US20100658226	20100204
US8684096 BB	20140401	US20090592026	20091119
US9303477 BB	20160405	US20120506227	20120405
WO10114592 A2	20101007	WO2010US00911	20100326
WO10114592 A3	20110127	WO2010US00911	20100326

Priority:

US20090166169P	20090402	US20090592026	20091119	US20090595026	20091119
US20100658226	20100204	CA20102757293	20100326	CA20102834638	20100326
EP20100722800	20100326	WO2010US00911	20100326	US20120506227	20120405
CA20132811638	20130402	CA20132757293	20131213		

Probable Assignee: KEY ENERGY SERVICES LLC

Assignee(s): (std): ENHANCED OILFIELD TECHNOLOGIES ; ENHANCED OILFIELD TECHNOLOGIES LLC ; STULBERG MARTIN ALFRED ; HARRIS MICHAEL J ; KEY ENERGY SERVICES LLC ; KEY ENERGY SERVICES INC ; KEI EHNERDZHI SERVESEZ LLK ; SCHLUMBERGER BV ; SCHLUMBERGER TECHNOLOGY BV

Assignee(s): KEY ENERGY SERVICES L L C ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; BANK OF AMERICA NATIONAL ASSOCIATION ; CORTLAND CAPITAL MARKET SERVICES LLC AGENT AS ; SCHLUMBERGER TECHNOLOGY CORP ; SCHLUMBERGER CANADA LTD

Inventor(s): (std): STULBERG MARTIN ALFRED ; HARRIS MICHAEL J ; MICHAEL J HARRIS ; MARTIN ALFRED STULBERG ; KHARRIS MAJKL DZH ; STALBERG MARTIN AL FRED

Agent(s): SMART AND BIGGAR; BEATTIE ALEX THOMAS STEWART; KADASA LAW FIRM; KEITH B WILLHELM ATTORNEY AT LAW; KEITH B; WILLHELM KEITH B

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

5) Family number: 52118233 (US2015159469A)

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Title: DOWNHOLE APPARATUS AND METHOD

Abstract: A downhole tool (32) comprises a tool housing (34) defining a central bore (35) and including a fluid port (20), and a valve member (40) mounted within the housing (34) and being moveable from a closed position in which the fluid port (20) is blocked to an open position in which the fluid port (20) is opened. The tool (32) further comprises a catching arrangement (41) mounted within the housing (34) and comprising one or more radially moveable seat members (106), and being configurable from a free configuration in which the seat members (106) permit an object (48) to pass through the tool (32), to a catching configuration in which the seat members (106) catch an object (48) passing through the tool (32).

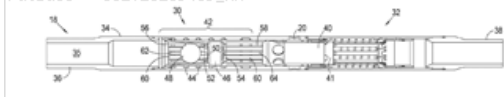
Classifications:

International (ipc 8-9): E21B21/10 E21B23/04 E21B23/08 E21B33/124 E21B34/08 E21B34/10 E21B34/14 E21B34/16 E21B43/12 E21B43/14 E21B43/26 E21B47/00 E21B47/06 E21B47/09 (Advanced/Invention); E21B34/00 (Advanced/Non-invention)

CPC: E21B2034/007 E21B21/103 E21B34/16 E21B33/124 E21B2034/002 E21B47/091 E21B47/06 E21B47/0002 E21B23/08 E21B23/04 E21B34/08 E21B34/106 E21B34/14 E21B43/14 E21B43/26 E21B21/10 E21B43/12 E21B23/06 E21B33/126

US: 1/1 166/185 166/318 166/373 166/378 166/66

PatBase - US2015159469_RR



Family:

Publication number	Publication date	Application number	Application date
AU2013298345 AA	20150219	AU20130298345	20130731
AU2013298345 BB	20161215	AU20130298345	20130731
AU2013298346 AA	20150219	AU20130298346	20130731
AU2013298346 BB	20160707	AU20130298346	20130731
AU2015200475 AA	20150219	AU20150200475	20150130
AU2015200475 BB	20160825	AU20150200475	20150130
AU2015200476 AA	20150219	AU20150200476	20150130
AU2015200476 BB	20160714	AU20150200476	20150130
AU2017201588 AA	20170330	AU20170201588	20170308
CA2880435 AA	20150129	CA20132880435	20130731
CA2880437 AA	20150129	CA20132880437	20130731

EP2880251 A2	20150610	EP20130745876	20130731
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EP2975210 A2	20160120	EP20150169680	20130731
EP2975210 A3	20160817	EP20150169680	20130731
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EP3006663 A3	20160817	EP20150169697	20130731
GB201213574 A0	20120912	GB20120013574	20120731
GB201223191 A0	20130206	GB20120023191	20121221
GB201313685 A0	20130911	GB20130013685	20130731
GB201313686 A0	20130911	GB20130013686	20130731
GB2506264 A1	20140326	GB20130013685	20130731
GB2506265 A1	20140326	GB20130013686	20130731
GC6624 A	20171205	GC2013P025068	20130731
GC7483 A	20180401	GC2013P032975	20130731
GC7766 A	20180510	GC2013P025067	20130731
RU2015106928 A	20160920	RU20150106928	20130731
RU2015106984 A	20160927	RU20150106984	20130731
RU2015112093 A	20151027	RU20150112093	20130731
RU2015112093 A3	20181107	RU20150112093	20130731
RU2015112118 A	20151110	RU20150112118	20130731
RU2604367 C2	20161210	RU20150112118	20130731
RU2629027 C2	20170824	RU20150106928	20130731
RU2637351 C2	20171204	RU20150106984	20130731
US2015159469 AA	20150611	US20150610550	20150130
US2015167429 AA	20150618	US20150610440	20150130
US2015167430 AA	20150618	US20150610483	20150130
US2015167431 AA	20150618	US20150610510	20150130
US2018306003 AA	20181025	US20180017085	20180625
US10018015 BB	20180710	US20150610550	20150130
US10053958 BB	20180821	US20150610440	20150130
US10077633 BB	20180918	US20150610510	20150130
US10132138 BB	20181120	US20150610483	20150130
WO14020335 A2	20140206	WO2013GB52043	20130731
WO14020335 A3	20140918	WO2013GB52043	20130731
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WO14020336 A3	20141127	WO2013GB52045	20130731

Priority:

GB20120013574	20120731	GB20120023191	20121221	AU20130298345	20130731
AU20130298346	20130731	EP20130745877	20130731	EP20130745876	20130731
WO2013GB52045	20130731	WO2013GB52043	20130731	RU20150112093	20130731
RU20150112093	20137331	US20150610510	20150130	US20150610483	20150130
AU20170201588	20170308	US20180017085	20180625		

Probable Assignee: WEATHERFORD TECHNOLOGY HOLDINGS LLC

Assignee(s): (std): PETROWELL LTD ; PETROVELL LTD ; VEZERFORD TEKNOLODZHI KHOLDINGZ ELELSI ; WEATHERFORD TECH HOLDINGS LLC

Assignee(s): PETROWELL LIMITED ; PORTA SANTIAGO GALVEZ ; PURKIS DANIEL GEORGE ; WEBSTER OLIVER ; WEATHERFORD TECHNOLOGY HOLDINGS LLC ; CORBETT STEVE ; DUNCAN IAN ; MANNING MATTHEW ; PATTON DAMIEN GERARD

Inventor(s): (std): DUNCAN IAN ; PURKIS DANIEL ; KORBETT STIV ; MENNING METTJU ; DANKAN JEN ; PATTON DEMIEN DZHERARD ; VEBSTER OLIVER ; PORTA SANTJAGO GALVES ; PERKIS DANIEL DZHORDZH ; MENNING METTYU ; PORTA SANYAGO GALVES ; PATTON DAMIEN GERARD ; CORBETT STEVE ; PURKIS DANIEL GEORGE ; PORTA SANTIAGO GALVEZ ; MANNING MATTHEW ; WEBSTER OLIVER

Inventor(s): IAN DUNCSN ; DANIEL GEORGE PURKIS ; LAN DUNCAN ; SANTIAGO GAVEZ PORTA ; DAMIEN GERARD PATTON ; IAN DUNCAN ; DANIEL PURKIS ; STEVE CORBETT ; SANTIAGO GALVEZ PORTA ; MATTHEW MANNING ; OLIVER WEBSTER

Agent(s): FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; GOODWIN LAW; PARLEE MCLAWS LLP; RIDOUT AND MAYBEE LLP; DOCHERTY ANDREW JOHN; SAUD M A SHAWWAF LAW OFFICE; OOO YURIDICHESKAYA GORODISSKIJ I PARTNERLY FA; BLANK ROME LLP; MORELAND DAVID

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