

1) Family number: 67086239 (US2018347323A)

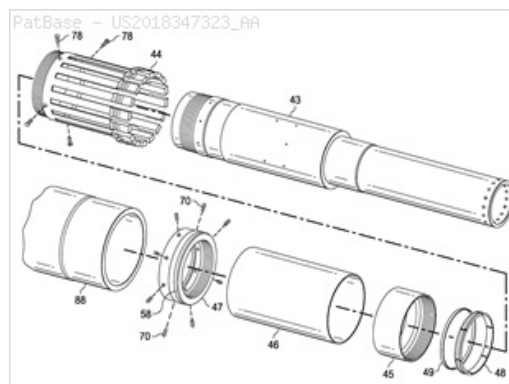
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Title: BIG BORE RUNNING TOOL QUICK LOCK ADAPTOR

Abstract: The disclosed embodiments include a coupler assembly and method for conveying a single piece liner hanger body. In one embodiment, the coupler assembly includes a nut, a load transfer sleeve, a locking dog retainer, a garter spring, a locking dog, a collet, an outer collet mandrel, and a collet prop mandrel. As described herein, components of the coupler assembly are assembled and installed within the inner diameter of the single piece liner hanger body for engaging with a liner hanger sub-assembly attached to a mining tool.

Classifications:**International (IPC 8-9):** E21B17/02 E21B23/02

E21B43/10 (Advanced/Invention)

International (IPC 1-7): E21B17/02 E21B23/02 E21B43/10**CPC:** E21B43/10 E21B23/00 E21B23/02**US:** 166/378**Family:**

Publication number	Publication date	Application number	Application date
AU2016398436 AA	20180517	AU20160398436	20160323
AU2016398436 AA	20180517	AU20160398436	20160323
AU2016398436 AA	20170928	AU20160398436	20160323
BR112018016638 A2	20181226	BR20181116638	20160323
CA3014985 AA	20180809	CA20163014985	20160323
CN108699894 A	20181023	CN201680081707	20160323
CO20180008237 A2	20180821	CO20180008237	20180803
DE112016006257 T5	20181004	DE201611006257T	20160323
EP3400360 A1	20181114	EP20160895676	20160323
GB201812963 A0	20180926	GB20180012963	20160323
GB2564272 A1	20190109	GB20180012963	20160323
IN201817029050 A	20181019	IN201817029050	20180802
MX2018010158 A1	20181109	MX20180010158	20160323
NO20181101 A	20180822	NO20180001101	20180822
SG11201803825P A1	20180628	SG20181103825	20160323
US2018347323 AA	20181206	US20160779002	20160323
WO17164869 A1	20170928	WO2016US23812	20160323

Priority:

US20160779002 20160323 WO2016US23812 20160323

Probable Assignee: HALLIBURTON CO**Assignee(s):** (std): HALLIBURTON CO ; HALLIBURTON ENERGY SERVICES INC**Assignee(s):** HUMPHREY RYAN THOMAS ; KOHN GARY ALLEN ; MORENO CARLOS ALBERTO ; DAIGLE ODEE PAUL

Inventor(s): (std): KOHN GARY ALLEN ; HUMPHREY RYAN THOMAS ; DAIGLE ODEE PAUL ; MORENO CARLOS ALBERTO ; MORENO CARLOS ; DAIGLE ODEE ; KOHN GARY ; HUMPHREY RYAN ; RYAN THOMAS HUMPHREY ; ODEE PAUL DAIGLE ; CARLOS ALBERTO MORENO ; GARY ALLEN KOHN

Agent(s): FB RICE PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; CAROLINA MERCEDES DAZA MONTALVO; MCWILLIAMS DAVID JOHN; GROSS CHARLES J 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

2) Family number: 51884439 (US2012222868A)

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Title: EXPANSION CONE ASSEMBLY FOR SETTING A LINER HANGER IN A WELLBORE CASING

Abstract: An expansion cone assembly (200) for setting a liner hanger. The expansion cone assembly (200) includes a cone mandrel (202) having an outer frustoconical surface (220), a lead cone (206) slidably disposed around the cone mandrel (200)

having a frustoconical surface (228) with a maximum outer diameter (230) and a collapsible cone (204) slidably disposed at least partially around the outer frustoconical surface (220) of the cone mandrel (202). In an expansion configuration, the outer frustoconical surface (220) radially props the collapsible cone (204) such that it has a first maximum outer diameter (232) that is greater than the maximum outer diameter (230) of the lead cone (206). In a retrieval configuration, the collapsible cone (204) axially shifts relative to the outer frustoconical surface (220) such that it has a second maximum outer diameter (234) that is no more than the maximum outer diameter (230) of the lead cone (206).

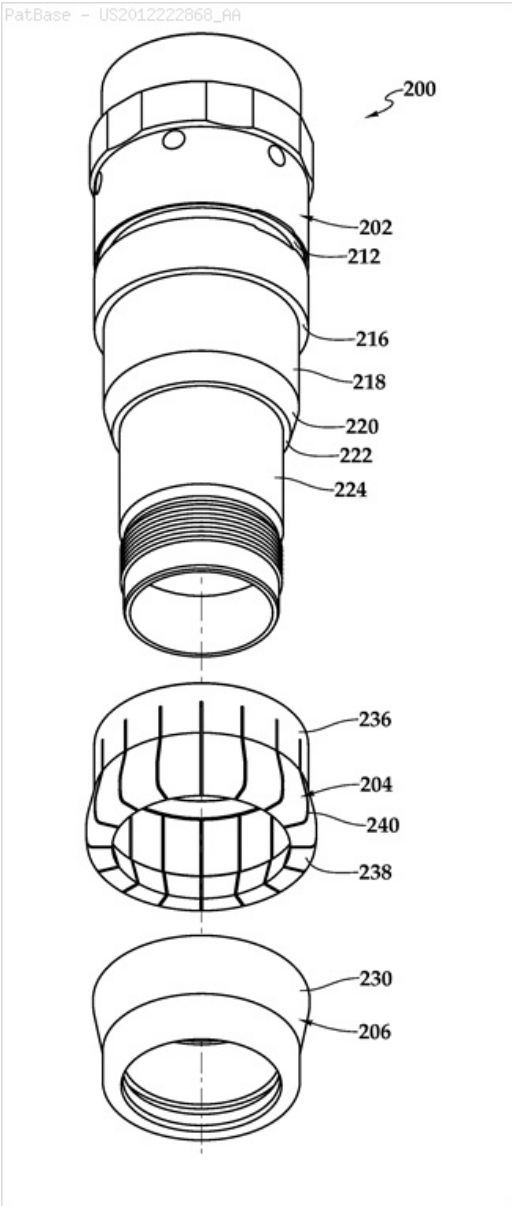
Classifications:

International (IPC 8-9): E21B17/02 E21B23/00 E21B33/04

E21B43/10 (Advanced/Invention)

CPC: E21B43/105 E21B33/04

US: 166/207 166/208 166/209 166/382



Family:

Publication number	Publication date	Application number	Application date
AU2012226245 AA	20120913	AU20120226245	20120217
AU2012226245 BB	20150604	AU20120226245	20120217
BR112013021171 A2	20180626	BR20131121171	20120217
CA2827878 AA	20130820	CA20122827878	20120217
CA2827878 C	20160426	CA20122827878	20120217
CN103547765 A	20140129	CN201280011564	20120217
CN103547765 B	20160316	CN201280011564	20120217
CO6761334 A2	20130930	CO20130209245	20130904
DE602012038684 D1	20171130	DE201260038684T	20120217
EA024453 B1	20160930	EA20130091223	20120217
EA201391223 A1	20140331	EA20130091223	20120217
ECSP13012865 A	20130930	EC2013SP12865	20130904
EP2681404 A1	20140108	EP20120754413	20120217
EP2681404 A4	20160427	EP20120754413	20120217
EP2681404 B1	20171018	EP20120754413	20120217
IN07312DN2013 A	20150123	IN2013DN07312	20130819
MX2013010147 A1	20131001	MX20130010147	20120217
MY165175 A	20180228	MY20130002715	20120217
SG192111 A1	20130930	SG20130056320	20120217
US2012222868 AA	20120906	US20110040668	20110304
US8561690 BB	20131022	US20110040668	20110304

Priority:

US20110040668 20110304 EP20120754413 20120217 WO2012US25566 20120217

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): HALLIBURTION ENERGY SERVICES INC ; HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; HAZELIP GARY LYNN

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Inventor(s): HAZELIP GARY LYNN FRISCO

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; LUZ HELENA ADARVE GOMEZ; HOFFMANN EITLE; 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 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: 31809382 (US6568471B)

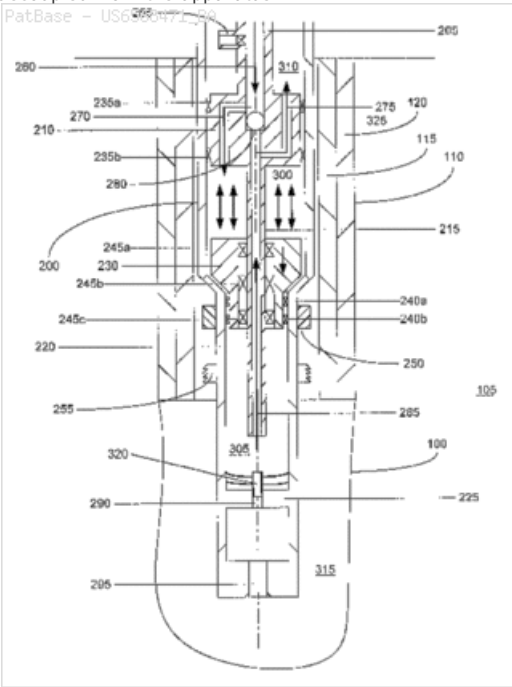
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Title: Liner hanger

Abstract: An apparatus and method for forming a wellbore casing. An annular piston is displaced in the axial direction by pressurizing an annular piston chamber. The axial displacement of the piston radially expands a tubular member into contact with a preexisting tubular member. The radially expanded liner hanger is then decoupled from the apparatus.

Classifications:

International (IPC 8-9): E21B33/10 E21B33/16
E21B43/10 (Advanced/Invention)
International (IPC 1-7): E21B43/00
CPC: E21B17/08 E21B33/10 E21B33/16 E21B43/103 E21B43/105 E21B43/106
European: E21B17/08 E21B33/10 E21B33/16 E21B43/10F E21B43/10F1 E21B43/10F2
US: 166/177.4 166/207



Family:

Publication number	Publication date	Application number	Application date
US6568471 BA	20030527	US20000512895	20000224

Priority:

US19990121841P 19990226 US19990154047P 19990916 US20000512895 20000224

Probable Assignee: HALLIBURTON CO

Assignee(s): (std): SHELL OIL CO

Assignee(s): SHELL OIL COMPANY ; ENVENTURE GLOBAL TECHNOLOGY LLC ; HALLIBURTON CO ; HALLIBURTON ENERGY SERVICES INC

Inventor(s): (std): COOK ROBERT LANCE ; BRISCO DAVID PAUL ; RING LEV ; BULLOCK MICHAEL

4) 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).

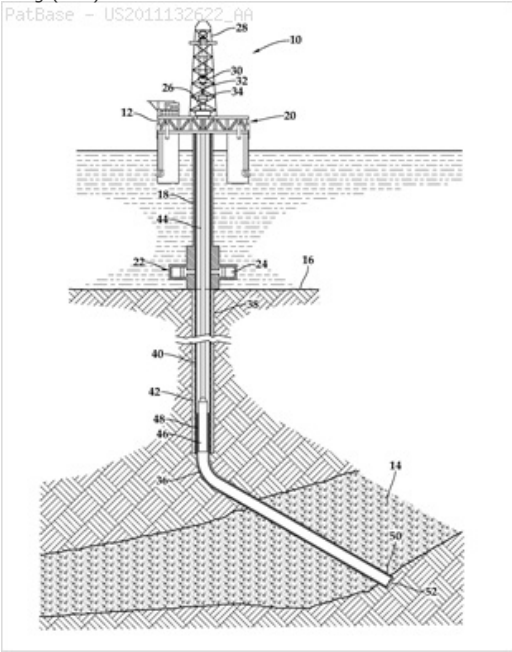
Classifications:

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

5) Family number: 52413307 (US2012298376A) © PatBase

Title: TUBULAR COUPLING DEVICE

Abstract: A coupling device includes an upper adapter and a lower adapter. The lower adapter may be pre-installed on a downhole tool and positioned in a wellbore. The upper adapter may be attached to a conveyance and lowered into the wellbore for connection with the lower adapter. The upper adapter may be coupled to the lower adapter by sliding over the lower adapter and applying weight to actuate a locking mechanism. After coupling, axial and torque load may be transmitted from the conveyance to the downhole tool.

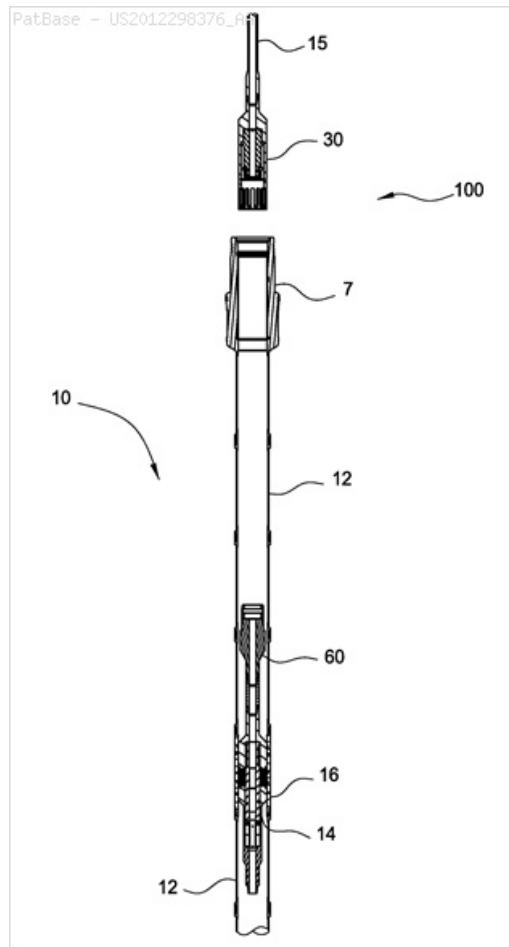
Classifications:

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E21B31/20 (Advanced/Invention)

CPC: E21B17/046 E21B17/02 E21B31/20

US: 166/242.6 166/378 166/381



Family:

Publication number	Publication date	Application number	Application date
AU2012258555 AA	20121129	AU20120258555	20120525
AU2012258555 BB	20160421	AU20120258555	20120525
BR112013030098 A2	20160920	BR20131130098	20120525
CA2837085 AA	20131121	CA20122837085	20120525
CA2837085 C	20161122	CA20122837085	20120525
EP2715045 A2	20140409	EP20120725592	20120525
US2012298376 AA	20121129	US20120480652	20120525
US9500044 BB	20161122	US20120480652	20120525
WO12162666 A2	20121129	WO2012US39711	20120525
WO12162666 A3	20130613	WO2012US39711	20120525

Priority:

US20110490033P 20110525 US20120480652 20120525 WO2012US39711 20120525

Probable Assignee: WEATHERFORD TECHNOLOGY HOLDINGS LLC

Assignee(s): (std): TWARDOWSKI ERIC M ; WEATHERFORD LAMB ; WEATHERFORD LAMB INC ; WEATHERFORD TECHNOLOGY HOLDINGS LLC ; WEATHERFORD TECH HOLDINGS LLC

Inventor(s): (std): TWARDOWSKI ERIC M

Inventor(s): ERIC M TWARDOWSKI

Agent(s): IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; DEETH WILLIAMS WALL LLP; TALBOT PONSONBY DANIEL FREDERICK; PATTERSON AND SHERIDAN LLP; PATTERSON WILLIAM B ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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

6) Family number: 59460903 (US2016265319A)

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Title: LINER HANGER SETTING TOOL AND METHOD FOR USE OF SAME

Abstract: A liner installation system for use in a wellbore having a casing string disposed therein. The system includes a liner string having a liner hanger and a liner top and a setting tool having an expansion cone assembly and a locator cylinder. After running the liner string through the casing string such that at least the liner hanger is positioned within the wellbore casing, the setting tool is run through the casing string until the locator cylinder contacts the liner top. Thereafter, axially moving the

expansion cone assembly through the liner string radially expands the liner hanger into contact with the casing string.

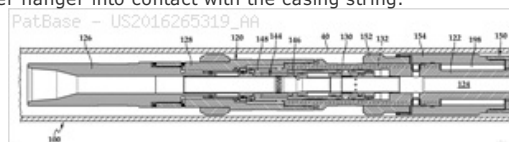
Classifications:

International (IPC 8-9): E21B17/03 E21B19/16 E21B23/00

E21B43/10 (Advanced/Invention)

CPC: E21B43/105 E21B43/108 E21B43/103

US: 166/382



Family:

Publication number	Publication date	Application number	Application date
AU2013406742 A1	20150611	AU20130406742	20131205
AU2013406742 AA	20150611	AU20130406742	20131205
AU2013406742 BB	20170413	AU20130406742	20131205
BR112016009265 A2	20170801	BR20161109265	20131205
CA2928634 AA	20160425	CA20132928634	20131205
CA2928634 C	20180612	CA20132928634	20131205
CN105992859 A	20161005	CN201380080500	20131205
CN105992859 B	20180223	CN201380080500	20131205
CN108119107 A	20180605	CN201810059390	20131205
CO16106450 A2	20160920	CO20160106450	20160426
EP3049606 A1	20160803	EP20130898836	20131205
EP3049606 A4	20170621	EP20130898836	20131205
IN201617013380 A	20160831	IN201617013380	20160418
MX2016004894 A1	20161110	MX20160004894	20131205
SG11201603246W A1	20160530	SG20161103246	20131205
US2016265319 AA	20160915	US20130034065	20131205
US9650875 BB	20170516	US20130034065	20131205
WO15084355 A1	20150611	WO2013US73220	20131205

Priority:

CN201380080500 20131205 CN201810059390 20131205 WO2013US73220 20131205
US20130034065 20131205

Probable Assignee: HALLIBURTON CO

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

Assignee(s): HUMPHREY RYAN THOMAS ; JACKSON ALAN TANCEL ; CRAMP STEVEN JOHN ; GHARESI ABDOLREZA

Inventor(s): (std): JACKSON ALAN TANCEL ; CRAMP STEVEN JOHN ; GHARESI ABDOLREZA ; HUMPHREY RYAN THOMAS ; HUMPHREY RAYN THOMAS ; ALAN TANCEL JACKSON ; ABDOLREZA GHARESI ; STEVEN JOHN CRAMP ; RYAN THOMAS HUMPHREY

Agent(s): FB RICE; FB RICE PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; JOSE ANDRES RINCON USCATEGUI; HOFFMANN EITLE; HAYNES AND BOONE LLP; TIDWELL MARK A ET AL

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