

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5683991

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	09/01/2014
CONVEYING PARTY DATA	
Name	Execution Date
WEATHERFORD/LAMB, INC.	09/25/2015
RECEIVING PARTY DATA	
Name:	WEATHERFORD TECHNOLOGY HOLDINGS, LLC
Street Address:	2000 ST. JAMES PLACE
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77056
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14497573
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	WEAT/1162US
NAME OF SUBMITTER:	STEVEN E. ROBERTS
SIGNATURE:	/Steven E. ROBERTS/
DATE SIGNED:	08/23/2019
Total Attachments: 8	
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PATENT AND DESIGN DEED OF ASSIGNMENT

WHEREAS We, **WEATHERFORD/LAMB, INC.** of **2000 ST. JAMES, PLACE, HOUSTON, TEXAS 77056, U.S.A.** (hereinafter "the Assignors") are the Applicants of Granted Patent/Patent Application/Design No(s):

[Please see attached schedule]

and

WHEREAS Weatherford Technology Holdings, LLC of **2000 ST. JAMES, PLACE, HOUSTON, TEXAS 77056, U.S.A.** (hereinafter "the Assignees") desire to acquire our rights, title and interest in said Patents/Patent Applications/Designs;

NOW, therefore, and in consideration of USD 10.00, the receipt of which we acknowledge, we, the Assignors hereby assign and transfer to the aforesaid Assignees our rights, title and interest in said Patents and/or Patent Applications and/or Designs and request the Registrar of Patents and Designs to grant the Patent for said Patents/Patent Applications/Designs to the Assignees.

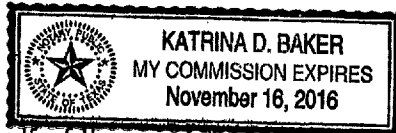
This assignment is made effective as of: **01 SEPTEMBER 2014**

SIGNED on behalf of the said Assignor
WEATHERFORD/LAMB, INC.

Charity R. Kohl
Name: Charity R. Kohl
Title: Vice President

Before me on 25th of September 2015
(stamp)

Notary Public



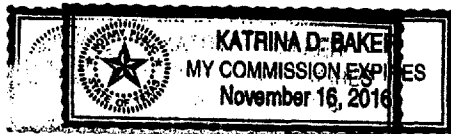
SIGNED on behalf of the said Assignee
WEATHERFORD TECHNOLOGY HOLDINGS, LLC

William M. Imwalle
Name: William M. Imwalle

Title: Vice President

Before me on 27th of September 2015
(stamp)

Katrina D. Baker
Notary Public



Jurisdiction	Application Number	Grant Date	Title
United States of America	61/751,830		APPARATUS AND METHODS OF RUNNING CASING
United States of America	61/752,301		PRESSURE BALANCED LINER HANGER AND RUNNING TOOL
United States of America	61/754,294		BIDIRECTIONAL DOWNHOLE ISOLATION VALVE
United States of America	61/763,827		APPARATUS AND METHODS OF RUNNING CASING IN A DUAL GRADIENT SYSTEM
United States of America	61/772,593		ARRAY SENSING FOR DOWNHOLE APPLICATIONS
United States of America	61/774,137		CONSUMABLE DOWNHOLE PACKER OR PLUG
United States of America	61/778,283		CEMENT DEVICE RELEASE MECHANISM
United States of America	61/777,920		PRESSURE BALANCED LINER HANGER AND RUNNING TOOL
United States of America	61/798,767		CHEMICAL COMMUNICATION
United States of America	61/800,614		METHOD AND APPARATUS FOR MONITORING A DOWNHOLE TOOL
United States of America	61/798,095		EXPANDABLE LINER
United States of America	61/790,704		TUBULAR HANDLING APPARATUS
United States of America	61/794,177		CONTROLLER FOR DOWNHOLE TOOL
United States of America	61/800,002		DEEPSET WIRELINE RETRIEVABLE SAFETY VALVE
United States of America	61/792,317		AN EXPANDABLE SEAL FOR A DOWNHOLE TOOL
United States of America	61/790,157		THICK WALL SHOULDERED LAUNCHER
United States of America	61/789,901		COUPLINGS FOR EXPANDABLE TUBULAR
United States of America	61/806,506		BIG GAP ELEMENT SEALING SYSTEM
United States of America	61/811,007		CROSSOVER TOOL FOR REVERSE CEMENTING A LINER STRING
United States of America	61/811,558		SENSING IN ARTIFICIAL LIFT SYSTEMS
United States of America	61/818,871		TUBULAR HANDLING TOOL
United States of America	61/822,814		METHOD AND APPARATUS FOR OPERATING A DOWNHOLE TOOL
United States of America	61/823,724		SELF FILLING CASING
United States of America	61/824,274		TIME DIVISION MULTIPLEXING (TDM) AND WAVELENGTH DIVISION MULTIPLEXING (WDM) FAST-SWEEP INTERROGATOR
United States of America	61/824,541		OPTICAL COUPLERS USED IN A DOWNHOLE SPLITTER ASSEMBLY
United States of America	61/836,924		METHOD AND APPARATUS FOR MEASURING DEFORMATION OF ELASTOMERIC MATERIALS

Jurisdiction	Application Number	Grant Date	Title
United States of America	61/840,436		STABILIZER
United States of America	61/840,456		STABILIZER
United States of America	61/841,058		CROSSOVER TOOL FOR REVERSE CEMENTING A LINER STRING
United States of America	61/843,198		EXPANDABLE LINER
United States of America	61/860,162		CENTRALIZER
United States of America	61/867,924		TUBULAR HANDLING TOOL
United States of America	61/880,690		ANNULAR RELIEF VALVE
United States of America	61/885,981		RFID DEVICE FOR USE DOWNHOLE
United States of America	61/889,325		PISTON FLOAT EQUIPMENT
United States of America	61/890,083		SYSTEM AND METHOD FOR SEALING A WELLBORE
United States of America	61/889,867		MILLING SYSTEM FOR ABANDONING A WELLBORE
United States of America	61/892,306		METHOD AND APPARATUS FOR MONITORING A FLUID
United States of America	61/895,093		STRAIN ISOLATED FIBER BRAGG GRATING SENSORS
United States of America	61/898,733		SEAL ASSEMBLY FOR A PUMP
United States of America	61/900,206		MAGNET RETRIEVAL APPARATUS
United States of America	61/903,230		MILLING SYSTEM FOR ABANDONING A WELLBORE
United States of America	61/905,543		LOCKING SYSTEM FOR THREADED CONNECTION
United States of America	61/906,621		ANTI-AGGLOMERANTS FOR THE PREVENTION OF HYDRATES
United States of America	61/908,844		DIFFERENTIAL PRESSURE INDICATOR FOR DOWNHOLE ISOLATION VALVE
United States of America	61/909,566		METHOD AND APPARATUS FOR TREATING A WELLBORE
United States of America	61/909,701		BALL DROPPER BALL STACK INDICATOR
United States of America	61/912,591		TUBULAR HANDLING TOOL
United States of America	61/918,057		HEAVE COMPENSATION SYSTEM FOR ASSEMBLING A DRILL STRING
United States of America	61/919,324		AUTONOMOUS SELECTIVE SHIFTING TOOL
United States of America	61/929,342		ROTATING CONTROL DEVICE HAVING JUMPER FOR RISER AUXILIARY LINE
United States of America	61/937,053		OPEN HOLE EXPANDABLE JUNCTION

Jurisdiction	Application Number	Grant Date	Title
United States of America	61/942,458		ACOUSTIC TRANSDUCER AND METHOD OF MANUFACTURING ACOUSTIC TRANSDUCER
United States of America	61/942,938		CONTINUOUS FLOW SYSTEM FOR DRILLING OIL AND GAS WELLS
United States of America	61/948,930		TIEBACK CEMENTING PLUG SYSTEM
United States of America	61/950,421		TELEMETRY OPERATED TOOLS FOR CEMENTING A LINER STRING
United States of America	61/968,051		CEMENT PULSATION FOR SUBSEA WELLBORE
United States of America	61/973,716		RECIRCULATING HYDRAULICALLY OPERATED CONTROL SYSTEM FOR DOWNHOLE TOOLS
United States of America	61/974,774		DOWNHOLE CUTTING TOOL
United States of America	61/975,579		APPARATUS AND METHODS OF COLLECTING AND SAMPLING FLUIDS
United States of America	61/992,820		A CLOSURE DEVICE FOR A SURGE PRESSURE REDUCTION TOOL
United States of America	61/994,629		A SWIVEL
United States of America	61/994,519		SURGE IMMUNE STAGE SYSTEM FOR WELLBORE TUBULAR CEMENTATION
United States of America	62/001,448		GAS LIFT VALVE
United States of America	62/001,462		PLUG DETECTOR FOR WELLBORE TUBULAR CEMENTATION
United States of America	62/002,642		TECHNIQUE FOR PRODUCTION ENHANCEMENT WITH DOWNHOLE MONITORING OF ARTIFICIALLY LIFTED WELLS
United States of America	62/004,683		STAGE TOOL WITH LOWER TUBING ISOLATION
United States of America	62/010,554		METHOD AND APPARATUS FOR TREATING A WELLBORE
United States of America	62/010,559		METHOD AND APPARATUS FOR TREATING A WELLBORE
United States of America	62/010,563		METHOD AND APPARATUS FOR TREATING A WELLBORE
United States of America	62/018,246		CENTRALIZER
United States of America	62/019,396		OPTIMAL STRESS CALCULATIONS FOR SUCKER ROD PUMPING SYSTEMS
United States of America	62/019,742		OPTIMAL STRESS CALCULATIONS FOR SUCKER ROD PUMPING SYSTEMS
United States of America	62/028,592		REVERSE CEMENTATION OF LINER STRING FOR FORMATION STIMULATION
United States of America	62/038,742		PIVOT JOINT
United States of America	62/041,389		DUAL STEM INJECTION VALVE
United States of America	14/155,083		ROTATING CONTINUOUS FLOW SUB
United States of America	14/169,969		SIDE-HOLE CANE WAVEGUIDE SENSOR

Jurisdiction	Application Number	Grant Date	Title
United States of America	14/229,372		SWIVEL ELEVATOR
United States of America	14/249,034		MULTIPLE DIAMETER EXPANDABLE STRADDLE SYSTEM
United States of America	14/250,162		TELEMETRY OPERATED TOOLS FOR CEMENTING A LINER STRING
United States of America	14/268,764		TUBULAR HANDLING TOOL
United States of America	14/273,351		METHOD OF USING A TOP DRIVE SYSTEM
United States of America	14/276,956		METHOD AND APPARATUS FOR OPERATING A DOWNHOLE TOOL
United States of America	14/276,792		TIME DIVISION MULTIPLEXING (TDM) AND WAVELENGTH DIVISION MULTIPLEXING (WDM) FAST-SWEEP INTERROGATOR
United States of America	14/280,020		OPTICAL COUPLERS USED IN A DOWN-HOLE SPLITTER ASSEMBLY
United States of America	14/286,655		LANDING STRING COMPENSATOR
United States of America	14/289,433		METHODS AND APPARATUS FOR WELLBORE CONSTRUCTION AND COMPLETION
United States of America	14/304,663		DEBRIS BARRIER ASSEMBLY
United States of America	14/308,415		METHOD AND APPARATUS FOR MEASURING DEFORMATION OF ELASTOMERIC MATERIALS
United States of America	14/308,296		TIME DIVISION MULTIPLEXING (TDM) AND WAVELENGTH DIVISION MULTIPLEXING (WDM) SENSOR ARRAYS
United States of America	14/313,089		BIDIRECTIONAL DOWNHOLE ISOLATION VALVE
United States of America	14/316,544		STABILIZER
United States of America	14/318,147		STRADDLE PACKER SYSTEM
United States of America	14/324,855	8,905,140	DOWNHOLE DEPLOYMENT VALVES
United States of America	14/330,338		SMALL PROFILE PRESSURE AND TEMPERATURE GAUGE
United States of America	14/447,288		TELEMETRY OPERATED EXPANDABLE LINER SYSTEM
United States of America	14/446,543		MULTI-PEAK REFERENCE GRATING
United States of America	14/447,187		CENTRALIZER
United States of America	14/450,661		EXTENDABLE CUTTING TOOLS FOR USE IN A WELLBORE
United States of America	14/470,171		METHODS FOR PRODUCING EVEN WALL DOWN-HOLE POWER SECTIONS
United States of America	14/481,491		FILL UP TOOL
United States of America	14/486,669		PIPE HANDLING SYSTEM
United States of America	14/486,915		DOWNHOLE DEBRIS RETRIEVER

Jurisdiction	Application Number	Grant Date	Title
United States of America	14/491,897		ANNULAR RELIEF VALVE
United States of America	14/494,230		SUBSEA DRILLING WITH CASING
United States of America	14/493,505		GAS LIFT VALVE
United States of America	14/496,936		MILLING SYSTEM FOR ABANDONING A WELLBORE
United States of America	14/499,820		SONIC/ACOUSTIC MONITORING USING OPTICAL DISTRIBUTED ACOUSTIC SENSING
United States of America	14/509,938		PISTON FLOAT EQUIPMENT
United States of America	14/510,984		SYSTEM AND METHOD FOR SEALING A WELLBORE
United States of America	14/517,498		CANE-BASED U-BEND
United States of America	14/517,622		APPARATUS AND METHOD FOR MONITORING A FLUID
United States of America	14/522,852		DIFFERENTIAL PRESSURE INDICATOR FOR DOWNHOLE ISOLATION VALVE
United States of America	14/530,461		WIPER AND SEAL ASSEMBLY FOR A PUMP
United States of America	14/532,594		MAGNET RETRIEVAL APPARATUS
United States of America	14/533,248		LOCKING SYSTEM FOR A THREADED CONNECTION
United States of America	14/541,354		HEAVE COMPENSATION SYSTEM FOR ASSEMBLING A DRILL STRING
United States of America	14/555,015		METHOD AND APPARATUS FOR TREATING A WELLBORE
United States of America	14/555,055		METHOD AND APPARATUS FOR TREATING A WELLBORE
United States of America	14/555,087		METHOD AND APPARATUS FOR TREATING A WELLBORE
United States of America	14/561,295		TUBULAR HANDLING TOOL
United States of America	14/569,414		STABILIZER
United States of America	14/573,501		AUTONOMOUS SELECTIVE SHIFTING TOOL
United States of America	14/591,584		SUBSEA DRILLING WITH CASING
United States of America	14/593,329		ROTATING CONTROL DEVICE HAVING JUMPER FOR RISER AUXILIARY LINE
United States of America	14/614,100		OPEN HOLE EXPANDABLE JUNCTION
United States of America	14/617,270		CONTINUOUS FLOW SYSTEM FOR DRILLING OIL AND GAS WELLS
United States of America	14/634,276		CEMENT PULSATION FOR SUBSEA WELLBORE
United States of America	14/639,309		TIEBACK CEMENTING PLUG SYSTEM

Jurisdiction	Application Number	Grant Date	Title
United States of America	14/676,577		APPARATUS AND METHODS OF COLLECTING AND SAMPLING FLUIDS
United States of America	14/678,116		DOWNHOLE CUTTING TOOL
United States of America	14/710,285		A CLOSURE DEVICE FOR A SURGE PRESSURE REDUCTION TOOL
United States of America	14/710,090		SURGE IMMUNE STAGE SYSTEM FOR WELLBORE TUBULAR CEMENTATION
United States of America	14/719,049		TECHNIQUE FOR PRODUCTION ENHANCEMENT WITH DOWNHOLE MONITORING OF ARTIFICIALLY LIFTED WELLS
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