PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: **NEW ASSIGNMENT** NATURE OF CONVEYANCE: **ASSIGNMENT**

CONVEYING PARTY DATA

Name	Execution Date	
Wellbore Energy Solutions, L.L.C.	10/30/2012	

RECEIVING PARTY DATA

Name:	Halliburton Energy Services, Inc.
Street Address:	3000 North Sam Houston Parkway East
City:	Houston
State/Country:	TEXAS
Postal Code:	77032

PROPERTY NUMBERS Total: 19

502134005

Property Type	Number
Application Number:	13648175
Application Number:	13574530
Application Number:	13051813
Application Number:	13574506
Application Number:	13574520
Application Number:	13387378
Application Number:	13350551
Application Number:	12856252
Application Number:	13023224
Application Number:	13443858
Application Number:	13525686
PCT Number:	US2010043397
PCT Number:	US2007087287
PCT Number:	US2011021899
PCT Number:	US2011021921
	PATENT

REEL: 029322 FRAME: 0466

PCT Number:	US2011021926
PCT Number:	US2009043527
PCT Number:	US2010045456
PCT Number:	US2008069276

CORRESPONDENCE DATA

Fax Number: 2142200445

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 214-220-0444
Email: firm@ipoftexas.com

Correspondent Name: Booth Albanesi Schroeder LLC
Address Line 1: 1601 Elm Street, Suite 1950
Address Line 4: Dallas, TEXAS 75201

ATTORNEY DOCKET NUMBER: FIRM

NAME OF SUBMITTER: John F. Booth

Total Attachments: 6

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ASSIGNMENT

WHEREAS, WELLBORE ENERGY SOLUTIONS, L.L.C. a Louisiana limited liability company, having a place of business at 6127 Highway 90 E, Broussard, LA 70518 (hereinafter referred to as "ASSIGNOR") is the owner of certain patents and patent applications identified in Exhibit A attached hereto, and collectively referred to as the "ASSIGNED PATENTS"; and

WHEREAS, HALLIBURTON ENERGY SERVICES, INC., a corporation of the State of Delaware, having a place of business at 3000 North Sam Houston Parkway East, Houston, Texas 77032 (hereafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to said ASSIGNED PATENTS and in and to any patents and patent applications that claim priority to or share priority with said ASSIGNED PATENTS in the United States and any and all foreign countries.

NOW, THEREFORE, be it known that in consideration of the sum of One Dollar (\$1.00) and of other valuable considerations, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the ASSIGNED PATENTS, including the inventions and improvements in any form or embodiment thereof, disclosed and claimed in said ASSIGNED PATENTS, or which are disclosed and may be claimed; all international rights of priority associated with the ASSIGNED PATENTS; also the entire right, title and interest in and to any patents granted or to be granted in the United States and its territorial possessions and in any and all foreign countries which claim priority to or share priority with said ASSIGNED PATENTS, and in and to any and all divisions, reissues, continuations, continuations-in-part, and extensions thereof; all rights of action on account of past, present and future infringement of the ASSIGNED PATENTS; the right to file in ASSIGNEE's name applications for patents and like protection for the Invention in any country or countries; and

ASSIGNOR covenants that the ASSIGNOR, its heirs, legal representatives, assigns, administrators, and executors will execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED at HOUSTON, /FKAS	on the 30 74 day of OLTOBER	, 2012.
REVIEWED LEGAL IP	By: What Edwards Name: Mare Edwards Title: President	ader
THE STATE OF TEXAS COUNTY OF Harris	\$ \$ \$	

BEFORE ME, the undersigned authority, on this day personally appeared Marc Edwards, President of Wellbore Energy Slutions, L.L.C. known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated, and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 30th day of October , 2012.

DEBORAH A. HAYS
Notary Public, State of Texas
Notary Public
My Commission Expires

November 28, 2015

Country	Title	Application Number	Application Date	Patent Number	Grant Date
USA	Multi-Purpose Well Servicing Apparatus	13/525,686	06/18/2012		
USA	Downhole Filter Tool	13/648,175	10/09/2012		
USA	Wellbore Knock-Out Chamber	13/574,530	01/20/2011		
Oon:	and Related Methods of Use	10/0/4,000	01/20/2011	! ! ! !	
USA	Downhole Drillstring Clutch	13/051,813	03/18/2011		
USA	Differential Pressure Wellbore	13/574,506	01/20/2011		
uva.	Tool and Related Methods of Use	10/0/4,000	01/20/2011		
USA.	Differential Pressure Wellbore Tool and Related Methods of Use	61296878	01/20/2010		
USA	Multi-Purpose Well Servicing Apparatus	60958507	07/06/2007		
USA	Downhole Filter Tool	61052373	05/12/2008		
USA	Wellbore Cleanout Tool	61229072	07/28/2009		
USA	Repeatable, Compression Set Downhole Bypass Valve	61233646	08/13/2009		***************************************
USA	Bypass Tool	61302583	02/09/2010		
USA	Downhole Drillstring Clutch	61315598	03/19/2010		
USA	Downhole Scraping and/or Brushing Tool and Related Methods	60869712	12/12/2006		
USA	Wellbore Filter Screen and Related Methods of Use	13/574,520	01/20/2011		
USA	Wellbore Cleanout Tool	13/387,378	07/27/2010	3,33,33	
USA	Downhole Filter Tool	12669128	01/14/2010		-
USA	Downhole Eductor or Venturi Tool				
USA	Downhole Scraping and/or Brushing Tool and Related Methods	12/519,124	03/29/2010		
USA	Downhole Filter Tool	13/163,359	06/17/2011		
USA	Downhole Filter Tool	13/350,551	01/13/2012		
USA	Repeatable, Compression Set Downhole Bypass Valve	12/856,252	08/13/2010		
USA	Wellbore Bypass Tool and Related Methods of Use	13/023,224	02/08/2011		
USA	Multi-Purpose Well Servicing Apparatus	12/663,359	07/06/2008		
USA	Downhole Scraping and/or Brushing Tool and Related Methods	13/443,858	04/10/2012		
CHIN	Differential Pressure Wellbore Tool and Related Methods of Use	20118000665 3.5	01/20/2011		***************************************
COLO	Improved Downhole Scraping and/or Brushing Tool and Related Methods	09065387	12/12/2007		
BRAZ	Wellbore Cleanout Tool	BR 11 201002145 1	07/27/2010		
CANA	Wellbore Cleanout Tool	2,769,479	07/27/2010		
SING	Wellbore Cleanout Tool	201200521-1	07/27/2010		

Country	Title	Application Number	Application Date	Patent Number	Grant Date
EPC	Wellbore Cleanout Tool	10742346.9	07/27/2010		
PCT	Wellbore Cleanout Tool	PCT/US2010/ 043397			
UAEM	Improved Downhole Scraping and/or Brushing Tool and Related Methods	548/2009	12/12/2007		
RUSS	Differential Pressure Wellbore Tool and Related Methods of Use	2012134087	01/20/2011		
ASTL	Wellbore Cleanout Tool	2010281419	07/27/2010	}	
EPC	Wellbore Knock-Out Chamber and Related Methods of Use	11702103.0	01/20/2011		
CHIN	Improved Downhole Scraping and/or Brushing Tool and Related Methods	20078005111 0.9	12/12/2007		
ASTL	Wellbore Knock-Out Chamber and Related Methods of Use	2011356736	01/20/2011		
BRAZ	Wellbore Knock-Out Chamber and Related Methods of Use	BR 11 2012 0179616	01/20/2011		
CANA	Wellbore Knock-Out Chamber and Related Methods of Use	2,782,660	01/20/2011		
COLO	Wellbore Knock-Out Chamber and Related Methods of Use	12-139991	01/20/2011		
MEXI	Wellbore Knock-Out Chamber and Related Methods of Use	MX/a/2012/0 08458	01/20/2011		
AZER	Improved Downhole Scraping and/or Brushing Tool and Related Methods	200970577	12/12/2007	015116	06/30/2011
BELA	Improved Downhole Scraping and/or Brushing Tool and Related Methods	200970577	12/12/2007	015116	06/30/2011
KAZA	Improved Downhole Scraping and/or Brushing Tool and Related Methods	200970577	12/12/2007	015116	06/30/2011
KYRG	Improved Downhole Scraping and/or Brushing Tool and Related Methods	200970577	12/12/2007	015116	06/30/2011
RUSS	Improved Downhole Scraping and/or Brushing Tool and Related Methods	200970577	12/12/2007	015116	06/30/2011
TKMN	Improved Downhole Scraping and/or Brushing Tool and Related Methods	200970577	12/12/2007	015116	06/30/2011
TADJ	Improved Downhole Scraping and/or Brushing Tool and Related Methods	200970577	12/12/2007	015116	06/30/2011
NIGE	Improved Downhole Scraping and/or Brushing Tool and Related Methods	NG/C/2009/3 15	12/12/2007	NG/C/2009/315	06/12/2009
EURA	Improved Downhole Scraping and/or Brushing Tool and Related Methods	200970577	12/12/2007	015116	06/30/2011

Country	Title	Application Number	Application Date	Patent Number	Grant Date
PCT	Downhole Scraping and/or	PCT/US07/08			
	Brushing Tool and Related Methods	7287			
PCT		PCT/US11/21	01/20/2011		<u> </u>
	Tool and Related Methods of Use		O ((ZO)ZO I)		
PCT	Wellbore Filter Screen and Related Methods of Use	PCT/US11/21 921	01/20/2011		
PCT	Wellbore Knock-Out Chamber and Related Methods of Use	PCT/US11/21 926	01/20/2011		
PCT	Downhole Filter Tool	PCT/US09/43 527	05/12/2009		
PCT	Repeatable, Compression Set Downhole Bypass Valve	PCT/US10/45 456	08/13/2010		
PCT	Multi-Purpose Well Servicing Apparatus	PCT/US08/69 276	07/06/2008		
ASTL	Downhole Filter Tool	2009257931	05/12/2009		
BRAZ	Downhole Filter Tool	PI0910825-4	Long and the second second second second	·	·
EPC	Downhole Filter Tool	09763141.0			
ASTL	Differential Pressure Wellbore		01/20/2011		-
MOIL	Tool and Related Methods of Use	2011207203	01/20/2011		
EPC	Differential Pressure Wellbore Tool and Related Methods of Use	11702338.2	01/20/2011		
MEXI	Differential Pressure Wellbore Tool and Related Methods of Use	MX/a/2012/0 08465	01/20/2011		
TRIN	Differential Pressure Wellbore Tool and Related Methods of Use	TT/A/2012/00 108	01/20/2011		
BRAZ	Differential Pressure Wellbore Tool and Related Methods of Use	BR 11 2012 0179586	01/20/2011		
CANA	Differential Pressure Wellbore Tool and Related Methods of Use	2,787,141	01/20/2011		
COLO	Differential Pressure Wellbore Tool and Related Methods of Use	12-139995	01/20/2011		
NORW	Improved Downhole Scraping and/or Brushing Tool and Related Methods	20092592	12/12/2007		
OAPI	Improved Downhole Scraping and/or Brushing Tool and Related Methods	1200900196	12/12/2007		
RUSS	Wellbore Knock-Out Chamber and Related Methods of Use	2012134086	01/20/2011		
TRIN	Wellbore Knock-Out Chamber and Related Methods of Use	TT/A/2012/00 105	01/20/2011		
CANA	Wellbore Filter Screen and Related Methods of Use	2,787,145	01/20/2011		

Country	Title	Application Number	Application Date	Patent Number	Grant Date
ASTL	Wellbore Filter Screen and Related Methods of Use	2011207241	01/20/2011		
MAYS	Wellbore Knock-Out Chamber and Related Methods of Use	PI201200330 5	01/20/2011		
CHIN	Wellbore Knock-Out Chamber and Related Methods of Use	20118000664 6.5	01/20/2011		
BRAZ	Wellbore Filter Screen and Related Methods of Use	BR 11 2012	01/20/2011		
MEXI	Wellbore Filter Screen and	0179608 MX/a/2012/0	01/20/2011		
ARIP	Related Methods of Use Improved Downhole Scraping and/or Brushing Tool and Related Methods	08459 AP/P/2009/00 4911	12/12/2007		
ASTL	Improved Downhole Scraping and/or Brushing Tool and Related Methods	i .	12/12/2007		
BRAZ	Improved Downhole Scraping and/or Brushing Tool and Related Methods	P10719982-1	12/12/2007		
CANA	Improved Downhole Scraping and/or Brushing Tool and Related Methods	2,672,627	12/12/2007		
EGYP	Improved Downhole Scraping and/or Brushing Tool and Related Methods	000898/2009	12/12/2007		
EPC	Improved Downhole Scraping and/or Brushing Tool and Related Methods	07865592.5	12/12/2007		
INDI	Improved Downhole Scraping and/or Brushing Tool and Related Methods	2348/KOLNP/ 2009	12/12/2007		
MAYS	Improved Downhole Scraping and/or Brushing Tool and Related Methods	i .	12/12/2007		
MEXI	Improved Downhole Scraping and/or Brushing Tool and Related Methods	MX/A/2009/0 06399	12/12/2007		
ANGO	Multi-Purpose Well Servicing Apparatus	1488	07/06/2008		
ASTL	Multi-Purpose Well Servicing Apparatus	2008275243	07/06/2008		
BRAZ	Multi-Purpose Well Servicing Apparatus	P10814405-2	07/06/2008	***************************************	
CANA	Multi-Purpose Well Servicing Apparatus	2692607	07/06/2008		
COLO	Apparatus for Cleaning the Inner Wall of Wellbore Tubulars	10007442	07/06/2008		
EGYP	Multi-Purpose Well Servicing Apparatus	1935/2009	07/06/2008		
EURA	Multi-Purpose Well Servicing Apparatus	201000153	07/06/2008		
MAYS	Multi-Purpose Well Servicing Apparatus	PI201000004	07/06/2008		

Country	Title	Application Number	Application Date	Patent Number	Grant Date
NORW	Multi-Purpose Well Servicing Apparatus	20100186	07/06/2008		
UAEM	Multi-Purpose Well Servicing Apparatus	P8/10	07/06/2008		
MAYS	Differential Pressure Wellbore Tool and Related Methods of Use	PI 2012003304	01/20/2011		
CANA	Repeatable, Compression Set Downhole Bypass Valve	2,769,204	08/13/2010		
EPC	Repeatable, Compression Set Downhole Bypass Valve	10744820.1	08/13/2010		
SING	Repeatable, Compression Set Downhole Bypass Valve	201200969-2	08/13/2010		
ASTL	Repeatable, Compression Set Downhole Bypass Valve	2010282322	08/13/2010		
BRAZ	Repeatable, Compression Set Downhole Bypass Valve	BR 11 2012 002345 4	08/13/2010		

RECORDED: 11/19/2012