

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4040256

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	WELLBORE SOLUTIONS, L.L.C.	10/30/2012
RECEIVING PARTY DATA		
Name:	HALLIBURTON ENERGY SERVICES, INC.	
Street Address:	3000 N. SAM HOUSTON PARKWAY E.	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77032	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15248322
CORRESPONDENCE DATA		
Fax Number:	(214)200-0853	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	214-651-5000	
Email:	ipdocketing@haynesboone.com	
Correspondent Name:	HAYNES AND BOONE, LLP	
Address Line 1:	2323 VICTORY AVENUE, SUITE 700	
Address Line 2:	IP SECTION	
Address Line 4:	DALLAS, TEXAS 75219	
ATTORNEY DOCKET NUMBER:	7523.1147US02	
NAME OF SUBMITTER:	EILEEN PAPE	
SIGNATURE:	/Eileen Pape/	
DATE SIGNED:	09/07/2016	
Total Attachments: 7		
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ASSIGNMENT

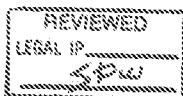
WHEREAS, WELLBORE ENERGY SOLUTIONS, L.L.C. a Louisiana limited liability company, having a place of business at 6127 Highway 90 E, Broussard, LA 70518 (hereinafter referred to as "ASSIGNOR") is the owner of certain patents and patent applications identified in Exhibit A attached hereto, and collectively 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, TEXAS, on the 30TH day of OCTOBER, 2012.

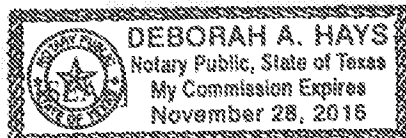


By: [Signature]
Name: Marc Edwards
Title: President

THE STATE OF TEXAS §
§
COUNTY OF Harris §

BEFORE ME, the undersigned authority, on this day personally appeared Marc Edwards, President of Wellbore Energy Solutions, 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.

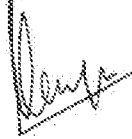
GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 30th day of October, 2012.



[Signature]
Notary Public

HALLIBURTON ENERGY SERVICES, INC.

September 19, 2013
Date


Clive D. Menezes
Vice President and Chief Patent Counsel

REVIEWED
LEGAL <u>STW</u>
DATE <u>9/11/13</u>

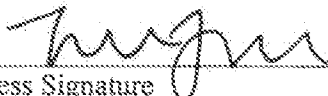
ACKNOWLEDGEMENT

Before me, the undersigned witness, on this day personally appeared said Clive D. Menezes, 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, the foregoing instrument to be his free act and deed this 19 day of September, 2013.

Belinda Ramos
Witness Signature

Belinda Ramos
Witness Name

3000 N. Sam Houston PKWY E
Houston, Tx 77032
Witness Address


Witness Signature

Tricia Jaegli
Witness Name

3000 N. Sam Houston PKWY E
Houston, Tx 77032
Witness Address

Wellbore Energy Solutions, LLC
Exhibit A

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 and Related Methods of Use	13/574,530	01/20/2011		
USA	Downhole Drilling Clutch	13/051,813	03/18/2011		
USA	Differential Pressure Wellbore Tool and Related Methods of Use	13/574,506	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	61233846	08/13/2009		
USA	Bypass Tool	61302583	02/09/2010		
USA	Downhole Drilling Clutch	61315598	03/19/2010		
USA	Downhole Scraping and/or Brushing Tool and Related Methods	60869712	12/12/2008		
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		
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		

Wellbore Energy Solutions, LLC
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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	07/27/2010		
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	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	2,782,860	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/2012/008458	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/2009/315	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

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Country	Title	Application Number	Application Date	Patent Number	Grant Date
PCT	Downhole Scraping and/or Brushing Tool and Related Methods	PCT/US07/087287	12/12/2007		
PCT	Differential Pressure Wellbore Tool and Related Methods of Use	PCT/US11/21899	01/20/2011		
PCT	Wellbore Filter Screen and Related Methods of Use	PCT/US11/21921	01/20/2011		
PCT	Wellbore Knock-Out Chamber and Related Methods of Use	PCT/US11/21926	01/20/2011		
PCT	Downhole Filter Tool	PCT/US09/43527	05/12/2009		
PCT	Repeatable, Compression Set Downhole Bypass Valve	PCT/US10/46456	08/13/2010		
PCT	Multi-Purpose Well Servicing Apparatus	PCT/US08/69276	07/06/2008		
ASTL	Downhole Filter Tool	2009257931	05/12/2009		
BRAZ	Downhole Filter Tool	PI0910825-4	05/12/2009		
EPC	Downhole Filter Tool	09763141.0	05/12/2009		
ASTL	Differential Pressure Wellbore Tool and Related Methods of Use	2011207233	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/2012/008465	01/20/2011		
TRIN	Differential Pressure Wellbore Tool and Related Methods of Use	TT/A/2012/00108	01/20/2011		
BRAZ	Differential Pressure Wellbore Tool and Related Methods of Use	BR 11 2012 0179588	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/2012/00105	01/20/2011		
CANA	Wellbore Filter Screen and Related Methods of Use	2,787,145	01/20/2011		

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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	PI2012003305	01/20/2011		
CHIN	Wellbore Knock-Out Chamber and Related Methods of Use	201180006646.5	01/20/2011		
BRAZ	Wellbore Filter Screen and Related Methods of Use	BR 11 2012 0179808	01/20/2011		
MEXI	Wellbore Filter Screen and Related Methods of Use	MX/a/2012/008459	01/20/2011		
ARIP	Improved Downhole Scraping and/or Brushing Tool and Related Methods	API/P/2009/004911	12/12/2007		
ASTL	Improved Downhole Scraping and/or Brushing Tool and Related Methods	2007333080	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	PI 20092811	12/12/2007		
MEXI	Improved Downhole Scraping and/or Brushing Tool and Related Methods	MX/A/2009/006399	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	PI0814405-2	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	PI2010000041	07/06/2008		

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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		