

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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	
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

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

**CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	FIRM
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NAME OF SUBMITTER:	John F. Booth
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Total Attachments: 6  
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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 Drillstring 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	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		
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		

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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	20078005111.0.9	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/2012/008458	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/US10/45456	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 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/2012/00105	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 0179608	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	AP/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		