

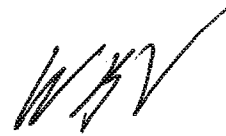
PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4148484

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	WILLIAM BANNING VAIL III	11/12/2016
RECEIVING PARTY DATA		
Name:	SMART DRILLING AND COMPLETION, INC.	
Street Address:	3123 - 198TH PLACE S.E.	
City:	BOTHELL	
State/Country:	WASHINGTON	
Postal Code:	98012	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15042072
CORRESPONDENCE DATA		
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NAME OF SUBMITTER:	TODD P. BLAKELY	
SIGNATURE:	/TODD P. BLAKELY/	
DATE SIGNED:	11/17/2016	
Total Attachments: 2		
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ASSIGNMENT



Smart Drilling and Completion, Inc. is the owner of many Patent Applications and U.S. Provisional Patent Applications which have been filed in the U.S. Patent and Trademark Office. I have been a co-inventor of one or more of these Patent Applications and Provisional Patent Applications. Whereas, I, William Banning Vail III, 3123 - 198th Place S.E., Bothell, WA 98012, as the inventor of one or more of the below enumerated Patent Applications and Provisional Patent Applications, have become the inventor of certain new and useful inventions. These new and useful inventions specifically include:

(a) "Mud Motor Assembly" (Seals-8) for which a Patent Application has been filed on February 11, 2016 in the United States Patent and Trademark Office, said application being identified as Serial No. 15/042,072; and in addition, any of the following which may have my name as a named inventor on the appropriate Filing Receipt:

(b) "Additional Comments on The Mark IV Mud Motor" for which a Provisional Patent Application has been filed on September 20, 2012 in the United States Patent and Trademark Office, said application being identified as Serial No. 61/744,188 (PPA-51);

(c) "Additional Comments on The Mark IV Mud Motor - Part 2" for which a Provisional Patent Application has been filed on May 15, 2013 in the United States Patent and Trademark Office, said application being identified as Serial No. 61/855,480 (PPA-52);

(d) "Additional Comments on The Mark IV Mud Motor - Part - 3" for which a Provisional Patent Application has been filed on June 3, 2013 in the United States Patent and Trademark Office, said application being identified as Serial No. 61/956,218 (PPA-53);

(e) "Additional Comments on The Mark IV Mud Motor - Part 4" for which a Provisional Patent Application has been filed on August 12, 2013 in the United States Patent and Trademark Office, said application being identified as Serial No. 61/959,021 (PPA-54);

(f) "Additional Comments on The Mark IV Mud Motor - Part 5", for which a Provisional Patent Application has been filed on September 11, 2013 in the United States Patent and Trademark Office, said application being identified as Serial No. 61/960,208 (PPA-55);

(g) "Additional Comments on The Mark IV Mud Motor - Part 6", for which a Provisional Patent Application has been filed on February 27, 2015 in the United States Patent and Trademark Office, said application being identified as Serial No. 62/176,777 (PPA-56);

(h) "Additional Comments on The Mark IV Mud Motor - Part 7", for which a Provisional Patent Application has been filed on March 7, 2015 in the United States Patent and Trademark Office, said application being identified as Serial No. 62/177,232 (PPA-57);

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(i) "Additional Comments on The Mark IV Mud Motor - Part 8", for which a Provisional Patent Application has been filed on August 24, 2015 in the United States Patent and Trademark Office, said application being identified as Serial No. 62/283,226 (PPA-58);

(j) "Additional Comments on The Mark IV Mud Motor - Part 9", for which a Provisional Patent Application has been filed on September 21, 2015 in the United States Patent and Trademark Office, said application being identified as Serial No. 62/284,157 (PPA-59); and

(k) "Additional Comments on The Mark IV Mud Motor - Part 10", for which a Provisional Patent Application has been filed on January 12, 2016 in the United States Patent and Trademark Office, said application being identified as Serial No. 62/387,977 (PPA-60).

NOW THEREFORE, be it known that I, the said inventor, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Smart Drilling and Completion, Inc., a Washington corporation having a place of business at 3123 - 198th Place S.E., Bothell, WA 98012, its successors, legal representatives and assigns, the aforesaid applications for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; I also assign any right, title or interest in and to the said inventions which has not already been transferred to the assignee, I warrant that I have made no assignment of the inventions, application or patent therefore to a party other than Smart Drilling and Completion, Inc. and I am under no obligation to make any assignment of the inventions, application, or patent therefore to any other party other than a successor of Smart Drilling and Completion, Inc.; and I further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment to Smart Drilling and Completion, Inc., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.


William Banning Vail III

Nov. 12, 2016
Date