### 502667980 02/05/2014

#### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
WILLIAM BANNING VAIL III	01/08/2014
ROBERT L DEKLE	01/09/2014
DAMIR S SKERL	01/09/2014
JAMES E CHITWOOD	01/10/2014

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Postal Code:	98012

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13068133

#### **CORRESPONDENCE DATA**

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NAME OF SUBMITTER:	MARILYN L VAIL
Signature:	/marilyn/
	PATENT

502667980 REEL: 032148 FRAME: 0194

Date:	02/05/2014
Total Attachments: 8 source=Single Assignment Document#page1.tif source=Single Assignment Document#page2.tif source=Single Assignment Document#page3.tif source=Single Assignment Document#page4.tif source=Single Assignment Document#page5.tif source=Single Assignment Document#page6.tif source=Single Assignment Document#page7.tif source=Single Assignment Document#page7.tif source=Single Assignment Document#page8.tif	



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) " Universal Drilling and Completion System " for which a Patent Application has been filed on May 2, 2011 in the United States Patent and Trademark Office, said application being identified as Serial No. 13/068,133; and (b) "Long-Lasting Hydraulic Seals for Smart Shuttles, for Coiled Tubing Injectors, and for Pipeline Pigs " for which a Provisional Patent Application has been filed on August 13, 2009 in the United States Patent and Trademark Office, said application being identified as Serial No. 61/274,215; and in addition, any of the following which may have my name as a named inventor on the appropriate Filing Receipt: (c) " Annular Pressure Smart Shuttle " for which a Provisional Patent Application has been filed on May 6, 2010 in the United States Patent and Trademark Office, said application being identified as Serial No. 61/395,081; (d) "The Hydroelectric Drilling Machine" for which a Provisional Patent Application has been filed on May 19, 2010, said application being identified as Serial No. 61/396,030 ; (e) " Universal Drilling and Completion System " for which a Provisional Patent Application has been filed on \_\_May 25, 2010\_, said application being identified as Serial No. 61/396,420; (f) "Subterranean Drilling Machine with Counter-Rotating Cutters" for which a Provisional Patent Application has been filed on June 5, 2010 , said application being identified as Serial No. 61/396,940; (g) "Drilling Machine with Counter-Rotating Cutters to Drill Multiple Slots in a Formation to Produce Hydrocarbons " for which а Patent Application has been filed on March 22, 2011, said application being identified as Serial No. 61/465,608; (h) "Modified Pelton Type Tangential Turbine Hydraulic Drives to Replace Electric Motors in Electrical Submersible Pumps " for which a Provisional Patent Application has been filed on June 16, 2010, said application being identified as Serial No. 61/397,848 ; (i) "Hydraulic Subsea System Used to Remove Hydrocarbons From Seawater in the Event of a Seafloor Oil/Gas Well Failure " for which a Provisional Patent Application has been filed on July 6, 2010, said application being identified as Serial No. 61/399,110; "Deep Upweller" for which a Provisional Patent Application has been filed on July 20, 2010, said application being identified as Serial No. 61/399,938; (k) "Universal Drilling and Completion System and Deep Upweller" for which a Provisional Patent Application has been filed on August 19, 2010, said application being identified as Serial No. 61/401,974; (I) "UDCS and Pelton-like Turbine Powered Pumps" for which a Provisional Patent Application has been filed on October 12, 2010; said application being identified as Serial No. 61/404,970; (m) "UDCS Presentation" for which a Provisional Patent Application has been filed on October 13, 2010 , said application being identified as Serial No. 61/455,123 ; (n) "New Vane Mud Motor for Downhole Drilling Applications" for which a Provisional Patent Application has been field on November 15, 2010, said application being identified as Serial No. 61/456,986; (o) "Leaky Seal for Universal Drilling and Completion System" for which a Provisional Patent Application has been filed on November 22, 2010, said application being identified as Serial No. 61/458,403; (p) "Transverse Flow Channel Mud Motor"

for which a Provisional Patent Application has been filed on November 24, 2010, said application being identified as Serial No. 61/458,490; (q) "The Force Sub" for which a Provisional Patent Application has been filed on December 20, 2010, said application being identified as Serial No. 61/459,896; (r) "The Force Sub - Part 2" for which a Provisional Patent Application has been filed on December 23, 2010, said application being identified as Serial No. 61/460,053; (s) "The Force Sub - Part 3" for which a Provisional Patent Application has been filed on January 14, 2011, said application being identified as Serial No. 61/461,266; (t) "UDCS, The Force Sub, and The Torque Sub" for which a Provisional Patent Application has been filed on February 2, 2011, said application being identified as Serial No. 61/462,393; and (u) "UDCS, The Force Sub, and The Torque Sub - Part 2", for which a Provisional Patent Application has been filed on April 15, 2011, said application being identified as Serial No. 61/517,218.

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 <u>Smart Drilling and Completion</u>, Inc., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

William Banning Vai/ III

01/08/2014



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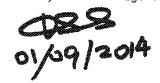
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Robert L. Dekle

1/9/14



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Damir S. Skerl

<u>51-09-201</u>4

PC 1-10-2014

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James E. Chitwood

Date

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