

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NEIL H. AKKERMAN	04/04/2018
RECEIVING PARTY DATA	
Name:	ABD TECHNOLOGIES LLC
Street Address:	2910 MID LANE
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77027
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	15946471
PCT Number:	US2018026303
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	JAMES A. HOOPER
SIGNATURE:	/James A. Hooper/
DATE SIGNED:	05/17/2018
Total Attachments: 2	
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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION given to me by **ABD Technologies LLC**, and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, **Neil H. Akkerman** (“ASSIGNOR”), having made an invention in “**TOP-DOWN FRATURING SYSTEMS AND METHODS**” (“INVENTION”), do hereby ASSIGN, SELL and CONVEY to **ABD TECHNOLOGIES LLC**, a Texas limited liability company doing business at 2910 Mid Lane, Houston, Texas 77027 (sometimes hereinafter called “ASSIGNEE”), its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said “INVENTION”;
2. United States of America provisional patent application, filed as U.S. Application No. 62/481,847 on April 5, 2017, entitled “TOP-DOWN FRACTURING SYSTEMS AND METHODS” (Atty. Docket No. 3351-00300);
3. United States of America provisional patent application, filed as U.S. Application No. 62/545,827 on August 15, 2017, entitled “TOP-DOWN FRACTURING SYSTEM” (Atty. Docket No. 3351-00301);
4. All applications for patent or like protection on the INVENTION that have now been or may in the future be made by me or my legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on the INVENTION, whether in the United States of America or any other place anywhere in the world;
5. All patents and like protection that have now been or may in the future be granted on the INVENTION to me or my legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
6. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of the applications and patents and like grants, including without limitation, those obtained or permissible under past, present, and future laws and statutes;
7. All rights of action on account of past, present, and future unauthorized use of the INVENTION and for infringement of the patents and like protection;
8. The right in ASSIGNEE to file in its name applications for patents and like protection for the INVENTION in any country or countries foreign to the United States; and
9. All international rights of priority associated with the INVENTION, applications, patents, and like protection; and

I covenant that I, and my heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors, and assigns, 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. Further, ASSIGNOR warrants that the INVENTION and the applications, patents, and like protection are not encumbered by another assignment or obligation of assignment to a third-party and that ASSIGNOR has the full ability and authority to assign and encumber the INVENTION and the applications, patents, and like protection.

EXECUTED on the date indicated below, opposite my signature.

Signature: 
Neil H. Akkerman

Date: 4-4-2018

Witnessed by: 
Signature

Date: 4-4-2018

DANIEL O. DEWEY
Printed Name of Witness