504723546 01/10/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTOPHER LEE STOKELY	08/31/2015

RECEIVING PARTY DATA

Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	3000 N. SAM HOUSTON PKWY. E.
City:	HOUSTON
State/Country:	TEXAS
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15743587

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NAME OF SUBMITTER:	MORGAN BRYANT
SIGNATURE:	/Morgan Bryant/
DATE SIGNED:	01/10/2018

Total Attachments: 2

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PATENT 504723546 REEL: 044588 FRAME: 0835

ASSIGNMENT

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that the undersigned inventor(s), for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Christopher Lee STOKELY, having made an invention in "METHODS AND SYSTEMS EMPLOYING A FLOW PREDICTION MODEL THAT IS A FUNCTION OF PERFORATION CLUSTER GEOMETRY, FLUID CHARACTERISTICS, AND ACOUSTIC ACTIVITY", while in the employment of HALLIBURTON ENERGY SERVICES, INC., a corporation organized and existing under the laws of the State of Delaware, doing business at 3000 N. Sam Houston Parkway E, Houston, Texas 77032, (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to:

- 1. Said invention in "METHODS AND SYSTEMS EMPLOYING A FLOW PREDICTION MODEL THAT IS A FUNCTION OF PERFORATION CLUSTER GEOMETRY, FLUID CHARACTERISTICS, AND ACOUSTIC ACTIVITY";
- 2. The International PCT Patent Application on said invention, filed concurrently herewith or as PCT Patent Application No. PCT/US2015/047707, filed August 31 2015, (Attorney's File No. 1392-087.00; attorney is authorized to fill in the application number and filing date after the USPTO assigns them), entitled "METHODS AND SYSTEMS EMPLOYING A FLOW PREDICTION MODEL THAT IS A FUNCTION OF PERFORATION CLUSTER GEOMETRY, FLUID CHARACTERISTICS, AND ACOUSTIC ACTIVITY";
- 3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, whether in the United States of America or any other place anywhere in the world;
- 4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
- 5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitations, those obtained or permissible under past, present and future law and statutes;
- 6. All rights of action on account of past, present and future unauthorized use of said invention for infringement of said patents and like protection;
- 7. The right to ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
- 8. All international rights of priority associated with said invention, applications, patents and like protection; and
- I (or We) covenant that I (or We), my (our) 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.

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EXECUTED at Harris County, TX, on the 31 day of August 2015.	
Christopher Lee STOKELY	
Christopher Lee STOKELY	
STATE OF TEXAS & COUNTY OF <u>Hayris</u> &	
BEFORE ME, the undersigned authority, on this day personally appeared Christopher Lev STOKELY, 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.	
GIVEN UNDER my hand and seal of office, this the 31 st day of Anagras + . 2015.	
(SEAL) UNDA GAIL TONGBERG (SEAL) UNDA GAIL TONGBERG (SEAL)	201
My Commission Expires: 4-18 - 2018	