

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4866656

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MIKKO JAASKELAINEN	12/14/2015
BRIAN PARK	12/14/2015
NORMAN WARPINSKI	12/14/2015
KENNETH SMITH	12/14/2015
RECEIVING PARTY DATA	
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City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77032
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15760155
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ATTORNEY DOCKET NUMBER:	164.2015-IPM-099549 U1 US
NAME OF SUBMITTER:	MORGAN BRYANT
SIGNATURE:	/Morgan Bryant/
DATE SIGNED:	03/14/2018
Total Attachments: 5	
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PATENT

REEL: 045209 FRAME: 0753

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, **NORMAN WARPINSKI, MIKKO JAASKELAINEN, KENNETH SMITH, and BRIAN PARK** having made an invention in **“Real-Time Bottom-Hole Flow Measurements for Hydraulic Fracturing with a Doppler Sensor in Bridge Plug Using DAS Communication”**, 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, TX 77032-3219, USA, (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 **“Real-Time Bottom-Hole Flow Measurements for Hydraulic Fracturing with a Doppler Sensor in Bridge Plug Using DAS Communication”**. The International PCT Patent Application on said invention, filed as PCT Patent Application No. PCT/US15/65970 filed December 16, 2015, (Attorney's File No. HESME-062A; attorney is authorized to fill in the application number and filing date after the USPTO assigns them), entitled **“Real-Time Bottom-Hole Flow Measurements for Hydraulic Fracturing with a Doppler Sensor in Bridge Plug Using DAS Communication”**. 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;

2. 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;

3. 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;

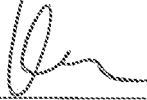
4. All rights of action on account of past, present and future unauthorized use of said invention for infringement of said patents and like protection;

5. 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

6. 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.

EXECUTED at Harris County, Texas, on the 14th day of December, 2015.

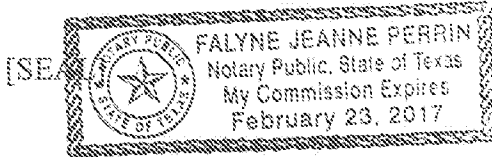


MIKKO JAASKELAINEN

STATE OF TEXAS §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared MIKKO JAASKELAINEN 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 14th day of December, 2015.


Notary Public

My Commission Expires: Feb. 23 2017

EXECUTED at Harris County, Texas, on the 14th day of December, 2015.

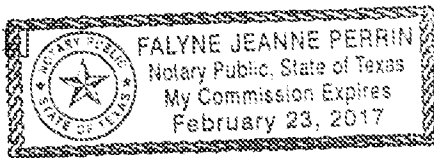
Brian Park
BRIAN PARK

STATE OF TEXAS §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared BRIAN PARK 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 14th day of December, 2015.

[SEAL]



Falyne Perrin
Notary Public

My Commission Expires: Feb 23 2017

EXECUTED at Harris County, Texas, on the 14th day of December, 2015.

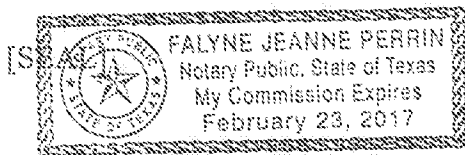


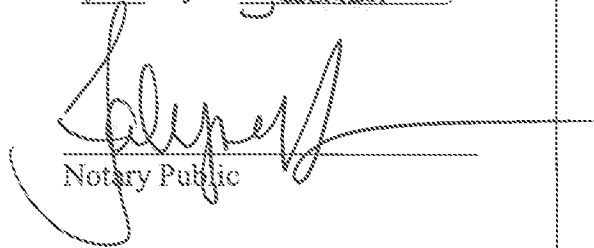
NORMAN WARPINSKI

STATE OF TEXAS §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared NORMAN WARPINSKI 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 14th day of December, 2015.





Notary Public

My Commission Expires: Feb 23 2017

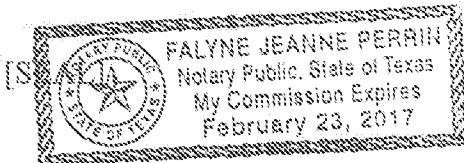
EXECUTED at Harris County, Texas, on the 14th day of December, 2015.

Kenneth Smith
KENNETH SMITH

STATE OF TEXAS §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared **KENNETH SMITH** 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 14th day of December, 2015.



Falyne Perrin
Notary Public

My Commission Expires: Feb 23 2017