

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	PAUL F. RODNEY	02/21/2018
RECEIVING PARTY DATA		
Name:	HALLIBURTON ENERGY SERVICES, INC.	
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City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77032-3219	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16466563	
CORRESPONDENCE DATA		
Fax Number:		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
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Address Line 1:	PO BOX 890226	
Address Line 4:	HOUSTON, TEXAS 77062-9998	
ATTORNEY DOCKET NUMBER:	1560-085501	
NAME OF SUBMITTER:	DANIEL MASTERS	
SIGNATURE:	/dlm/	
DATE SIGNED:	06/04/2019	
Total Attachments: 2		
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DECLARATION AND ASSIGNMENT

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☒ The attached application to be filed as a United States application or PCT international application, or
- ☐ United States application or PCT international application number filed _____ on _____; and,

entitled **"INFERRING ORIENTATION PARAMETERS OF A STEERING SYSTEM FOR USE WITH A DRILL STRING."** Regarding that application, I declare the following:

- The above-identified application was made, or authorized to be made, by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Moreover, Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 3000 N. Sam Houston Parkway E., Houston, TX 77032-3219 (hereinafter "Assignee") is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We, by these presents do sell, assign and transfer and convey unto Assignee, its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application identified above, and any national phase, divisional, continuing, continuation-in-part, or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or

reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

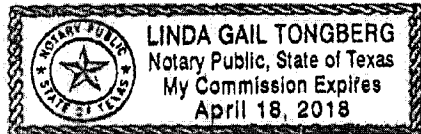
Executed this 21st day of February, 2018

Paul F. Rodney
Paul F. Rodney

STATE OF Texas)
COUNTY OF Harris)

Before me personally appeared said PAUL F. RODNEY and acknowledged the foregoing instrument to be a free act and deed this 21st day of February 2018.

Seal



Linda Gail Tongberg
(Notary)