### 504637862 11/10/2017

# **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4684580

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

### **CONVEYING PARTY DATA**

Name	Execution Date
PHILIP EDMUND FOX	06/02/2016
FNU SUPARMAN	06/01/2016
MICHAEL JASON ENGLAR	10/17/2016
GARY JAMES FRISCH	10/18/2016

### **RECEIVING PARTY DATA**

Name:	HALLIBURTON ENERGY SERVICES, INC.	
Street Address:	3000 N. SAM HOUSTON PKWY E.	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77032-3219	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15565132

### **CORRESPONDENCE DATA**

**Fax Number:** (949)851-9348

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.

**Phone:** 9498510633

**Email:** ocrayton@mwe.com, dstokes@mwe.com

Correspondent Name: MCDERMOTT WILL & EMERY LLP

Address Line 1: 4 PARK PLAZA

Address Line 2: 1700

Address Line 4: IRVINE, CONNECTICUT 92614-2559

ATTORNEY DOCKET NUMBER:	098273-2102
NAME OF SUBMITTER:	MARK J. ITRI
SIGNATURE:	/Mark J. Itri/
DATE SIGNED:	11/10/2017

## **Total Attachments: 8**

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PATENT 504637862 REEL: 044096 FRAME: 0488

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PATENT REEL: 044096 FRAME: 0489

### **DECLARATION AND ASSIGNMENT**

As th	e below named inventor, I hereby declare that:
This	declaration is directed to:
$\boxtimes$	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 "Ro	DTATING SPECTRAL DENSITY TOOL FOR BEHIND PIPE EVALUATION."
Regarding t	hat 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.

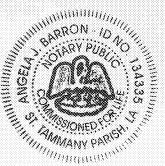
Executed this Seland day of June

PHILIP EDMUND FOX

STATE OF LOWISIANA )
COUNTY OF St. Tammany)

Before me personally appeared said PHILIP EDMUND, FOX and acknowledged the foregoing instrument to be a free act and deed this  $2^{nd}$  day of  $3^{nd}$ .

Seal



Anglity bauonon

### **DECLARATION AND ASSIGNMENT**

As the below named inventor, I hereby declare that:
This declaration is directed to:
$oxed{\boxtimes}$ The attached application to be filed as a United States application of
PCT international application, or
United States application or PCT international application number
filed on; and,
entitled "ROTATING SPECTRAL DENSITY TOOL FOR BEHIND PIPE EVALUATION.
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.

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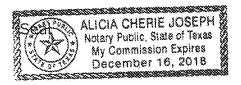
And I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed th	is <sup>  &gt;</sup> 1	_day of _	June	, 2016
			Lapa	Museum
		F	NU SUPARMAN	

STATE OF TEXAS )

COUNTY OF HAM'S )

Before me personally appeared said FNU SUPARMAN and acknowledged the foregoing instrument to be a free act and deed this 1 day of June, 2016.



Motary)

### **DECLARATION AND ASSIGNMENT**

As th	e below named inventor, I hereby declare that:
This	declaration is directed to:
$\boxtimes$	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 "Re	OTATING SPECTRAL DENSITY TOOL FOR BEHIND PIPE EVALUATION."
Regarding t	hat 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.
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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 thisMbday of	<u>October</u> , 2016
	MICHAEL JASON ENGLAR
STATE OF LOUISIANA,	
COUNTY OF MEANS)	

Seal

MARIA H. ROMANO
Notary Public - Orleans Parish, LA
Notary ID No. 12380
Commissioned For Life

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As th	ne below named inventor, I hereby declare that:
This	declaration is directed to:
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entitled "R	OTATING SPECTRAL DENSITY TOOL FOR BEHIND PIPE EVALUATION.
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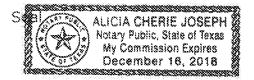
And I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

GARY JAMES FRISCH

STATE OF TEXAS

COUNTY OF HATTIS

Before me personally appeared said GARY JAMES FRISCH and acknowledged the foregoing instrument to be a free act and deed this 18 day of 10tober , 2016.



RECORDED: 11/10/2017