504114489 11/29/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4161159

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
B. RAGHAVA REDDY	08/21/2014
UBONG INYANG	08/22/2014

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	15314781		

CORRESPONDENCE DATA

Fax Number: (202)756-8087

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: 2027568000

Email: mweipdocket@mwe.com, ipdockethouston@mwe.com

Correspondent Name: MCDERMOTT WILL & EMERY LLP
Address Line 1: THE MCDERMOTT BUILDING

Address Line 2: 500 NORTH CAPITOL STREET, N.W.

Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	098273-1096
NAME OF SUBMITTER:	IONA N. KAISER
SIGNATURE:	/lona N. Kaiser/
DATE SIGNED:	11/29/2016

Total Attachments: 4

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PATENT 504114489 REEL: 040454 FRAME: 0478

DECLARATION AND ASSIGNMENT

As	As the below named inventor, I hereby declare that:							
Thi	is declaration	on is d	irected to:					
\boxtimes	The att	ached	application	ı to be	filed	as a United	States appli	cation or
	PCT int	ernatio	nal applica	tion, o	r			
	United	State	s application	on or	PCT	internationa	l application	number
		fil	ed on		; an	d,		
entitled	"METHODS	OF	FORMING	VARI	ABLE	STRENGTH	PROPPANT	PACKS."
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.

1 of 2

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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 2 day of _

B. RAGHAVA REDDY

(Notary)

STATE OF TEXAS

COUNTY OF HAKRIS

Before me personally appeared said B. RAGHAVA REDDY and acknowledged the foregoing instrument to be a free act and deed this 1 day of 1.2014.

Seal

DORI LYNN DAVILA
Notary Public, State of Texas
My Commission Expires
April 11, 2018

2 of 2

DECLARATION AND ASSIGNMENT

	As the below named inventor, I hereby declare that:								
	This declaration is directed to:								
		The att	ached	application	n to be	e filed	as a United	States appli	cation or
	PCT international application, or								
		United	States	applicati	on or	PCT	international	application	number
		,,,,.,.,,.,,,,,,,,,,,,,,,,,,,,	fil	ed on		; ar	ıd,		
entitle	d "M	ETHODS	OF	FORMING	VARI	ABLE	STRENGTH	PROPPANT	PACKS."
Regar	ding th	nat appli	cation,	I declare	the foll	lowing	**		

- The above-identified application was made, or authorized to be made, by me.
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1 of 2

2014-IP-089744 U1 PCT (087638-0928)

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 22 day of August

STATE OF TEXAS)
COUNTY OF HARRIS)

Before me personally appeared said UBONG INYANG and acknowledged the foregoing instrument to be a free act and deed this 22 day of Alloway 2014.

Seal

DORI LYNN DAVILA Notary Public, State of Texas My Commission Expires

(Notary)

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RECORDED: 11/29/2016