PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4742645

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
B. RAGHAVA REDDY	10/30/2013
FENG LIANG	10/30/2013
RONNIE G. MORGAN	10/31/2013

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:	15788562		

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: svelazquez@mwe.com

Correspondent Name: MARK J. ITRI Address Line 1: 4 PARK PLAZA Address Line 2: **SUITE 1700**

Address Line 4: IRVINE, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER:	098273-2109
NAME OF SUBMITTER:	MARK J. ITRI, REG. NO. 36,171
SIGNATURE:	/Mark J. Itri/
DATE SIGNED:	12/19/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

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> **PATENT** REEL: 044441 FRAME: 0701 504695923

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> PATENT REEL: 044441 FRAME: 0702

DECLARATION AND ASSIGNMENT

As the	below	named	inventor,	I	hereby	declare	that:
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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 PCT/US2013/67398 filed on October 30, 2013; and,

entitled "VULCANIZED OIL AND WATER SWELLABLE PARTICULATE COMPOSITE COMPOSITIONS." 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.
- I have reviewed and understand the subject matter of the above-identified application, including the claims.
- I am aware of and acknowledge my duty to disclose to the United States
 Patent and Trademark Office all information known to me to be material to
 patentability under 37 CFR 1.56; including, for continuation-in-part
 applications, material information that became available between the filing of
 the prior application and the filing of the continuation-in-part application.

Moreover, Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, TX 77072 (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 divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent

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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 30	_day of October	, 2013
	B. Ra	Chara Phy
	B. RAGHAVA	REDDY
STATE OF TEXAS)	
COUNTY OF HARRIS))	

DORFLYNN DAVILA
AVY COMMISSION EXPIRES
April 11, 2014

(Notary)

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	_day of <u>latobers</u> , 2013
	FENG LIANG
STATE OF TEXAS COUNTY OF HARRIS)))
Before me personally appeare	d said FENG LIANG and acknowledged the foregoing deed this 30 day of 0000, 2013.
	deed this day of
Seal	(Notary)

AY COMMISSION EXPIRES

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 3/5	tay of October, 2013
	Rosinie of Morgan RONNIE G. MORGAN
	RONNIE G. MORGAN
STATE OF QUANTIN)
COUNTY OF WITHIN	Ś

Before me personally appeared said RONNIE G. MORGAN and acknowledged the foregoing instrument to be a free act and deed this $\frac{31}{2}$ day of $\frac{1}{2}$ day of $\frac{1}{2}$ day of $\frac{1}{2}$ day of $\frac{1}{2}$

Seal

Notary Public, State of Oklahoma
TIFFANY KYLE
Commission # 10009641
Expires 11-15-2014

(Notary)

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RECORDED: 12/19/2017