PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3912587

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DONALD LEE WHITFILL	01/14/2014
SHARATH SAVARI	01/14/2014
MATTHEW L. MILLER	05/09/2014
DALE E. JAMISON	01/14/2014
ROBERT J. MURPHY	01/14/2014

RECEIVING PARTY DATA

Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	10200 BELLAIRE BOULEVARD
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77072

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15103509

CORRESPONDENCE DATA

Fax Number:

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: 202 756 8000

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:	098273-0581
NAME OF SUBMITTER:	IONA N. KAISER
SIGNATURE:	/lona N. Kaiser/
DATE SIGNED:	06/10/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 503865938 REEL: 038878 FRAME: 0040

Total Attachments: 10 source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page1.tif source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page2.tif source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page3.tif source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page4.tif source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page5.tif source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page6.tif source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page7.tif source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page8.tif source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page9.tif source=2013-IP-077475U1US_SignedDeclAsmt_098273-0581#page9.tif

PATENT REEL: 038878 FRAME: 0041

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 or					
PCT international application, or					
United States application or PCT international application number					
filed on; and,					
entitled "METHODS OF ENHANCING FLUID LOSS CONTROL USING ADDITIVES."					
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

1 of 2

DM_US 49076182-1.091721.0870

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 _____ H h day of

, 2014

DONALD LEE WHITFILL

STATE OF TEVAS

COUNTY OF HALRIS

Before me personally appeared said DONALD LEE WHITFILL and acknowledged the foregoing instrument to be a free act and deed this 14 day of 34nuary, 2014.

Seal

Misha Pratt
My Commission Expires
04/19/2016

Notone

AS	tne	pelow i	named ii	iventor, I	nere	by dec	lare tha	:		
Th	is de	eclaratio	on is dire	ected to:						
\boxtimes]	The att	ached a	pplication	to be	e filed	as a U	nited Sta	ites appli	cation o
		PCT inte	ernation	al applicati	on, c	or				
]	United	States	application	n or	PCT	internat	cional ap	plication	numbe
			filed	d on		; an	d,			
entitled	"ME	THODS	OF EN	HANCING	FLUI	D LOS	S CON	TROL US	ING ADE	DITIVES.
Regardin	a tha	at appli	cation. I	declare th	e fol	lowing	1:			

- 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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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

1 of 2

DM US 49076340-1.091721.0870

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 ________

SHARATH SAVAR

STATE OF TEXAS

COUNTY OF WARRIES

Before me personally appeared said SHARATH SAVARI and acknowledged the foregoing instrument to be a free act and deed this 14 day of 3 day

Seal

Misha Pratt
My Commission Expires
04/19/2016

(Notary)

As the below named inventor,	I hereb	y 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/US2014/11396 filed on January 14, 2014; and,

entitled "METHODS OF ENHANCING FLUID LOSS CONTROL USING ADDITIVES."
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

the Patent Application identified above, and any divisional, continuing 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

day of May 9th , 2014

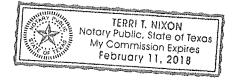
MATTHEW L. MILLER

STATE OF TEXAS

COUNTY OF Harris

Before me personally appeared said MATTHEW L. MILLER and acknowledged the foregoing instrument to be a free act and deed this $\frac{Q}{2}$ day of $\frac{May}{2}$, 2014.

Seal



(Notary) Sem Hein

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 "METHODS OF ENHANCING FLUID LOSS CONTROL USING ADDITIVES."
Regarding that application, I declare the following:

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 Patent and Trademark Office all information known to me to be material to
 patentability under 37 CFR 1.56; including, for continuation-in-part
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 the prior application and the filing of the continuation-in-part application.

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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

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 January, 2014

STATE OF TEXAS

DALE E. JAMISON

STATE OF CYAS)

COUNTY OF HARRIS)

Before me personally appeared said DALE E. JAMISON and acknowledged the foregoing instrument to be a free act and deed this $\c U$ day of $\c SANDANOL$, 2014.

Seal Misha Pratt
My Commission Expires
04/19/2016

(Notary

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 "METHODS OF ENHANCING FLUID LOSS CONTROL USING ADDITIVES."
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- 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.

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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 this 14 TH day of JANUARY, 2014

STATE OF TOPAS)

COUNTY OF WALKES)

Before me personally appeared said ROBERT J. MURPHY and acknowledged the foregoing instrument to be a free act and deed this $\frac{14}{14}$ day of $\frac{1}{14}$ day of $\frac{1}{14}$.

Seal

Misha Pratt
My Commission Expires
04/19/2016

(Notary)

2 of 2

RECORDED: 06/10/2016