PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6139632

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
JASON EDWARD THERRIEN	01/03/2018
MIKKO JAASKELEAINEN	01/08/2018
YIJIE SHEN	01/03/2018

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:	16770223

CORRESPONDENCE DATA

Fax Number: (512)670-8904

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: 5127108326

Email: uspto@gilliamip.com

GILLIAM IP PLLC (HALLIBURTON) **Correspondent Name:**

Address Line 1: 7200 N. MOPAC

Address Line 2: SUITE 440

Address Line 4: AUSTIN, TEXAS 78731

ATTORNEY DOCKET NUMBER:	164.2017-IPM-101199 U1 US
NAME OF SUBMITTER:	MELISSA R. LUCAS
SIGNATURE:	/Melissa R. Lucas/
DATE SIGNED:	06/05/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

source=2017-IPM-101199 U1 US AssignmentDeclaration Filed20200605#page1.tif source=2017-IPM-101199 U1 US AssignmentDeclaration Filed20200605#page2.tif

PATENT REEL: 052850 FRAME: 0716 506092912

source=2017-IPM-101199 U1 US_AssignmentDeclaration_Filed20200605#page3.tif source=2017-IPM-101199 U1 US_AssignmentDeclaration_Filed20200605#page4.tif source=2017-IPM-101199 U1 US_AssignmentDeclaration_Filed20200605#page5.tif source=2017-IPM-101199 U1 US_AssignmentDeclaration_Filed20200605#page6.tif

PATENT REEL: 052850 FRAME: 0717

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,			
1	14000	DIVICTION MONITORDIC", Describe de la confession. I deden de Callerine.			

entitled "PRODUCTION MONITORING" 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

1 of 2

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.

And I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority.

Executed this 3 day of January

Jason Edward THERRIEN

STATE OF TEXAS

COUNTY OF HARY'S

Before me personally appeared said Jason Edward THERRIEN and acknowledged the foregoing

instrument to be a free act and deed this 3rd day of January, 2012

FALYNE PERRIN KIRKPATRICK Notary ID #12681418-9 My Commission Expires 🖁 February 23, 2021

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 "PRODUCTION MONITORING" 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

1 of 2

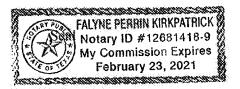
reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

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.

And I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority.

Executed this 2th day of	January , 201 2.
Bruttano.	Mikko JAASKELAINEN
STATE OF CXPS)
COUNTY OF HAVY'S)

Before me personally appeared said Mikko JAASKELAINEN and acknowledged the foregoing instrument to be a free act and deed this day of _______, 2012.



Jalyne P. Kithpotrick

DECLARATION AND ASSIGNMENT

Α	As the below named inventor, I hereby declare that:			
T	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		United States application or PCT international application number		
		filed on; and,		
entitled "	'PRO	DUCTION MONITORING" 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

1 of 2

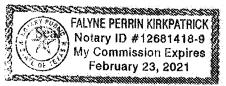
reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

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.

And I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority.

Executed this _	<u>02</u> , day of _	January	_, 201 <u> </u>
		$\mathcal{I}_{V!}$	greenen
	_	Yijie SHEN	V
STATE OF	lexas)		
COUNTY OF	Houris) 	

Before me personally appeared said Yijie SHEN and acknowledged the foregoing instrument to be a free act and deed this 3° day of 4° , 4° .



Notary

RECORDED: 06/05/2020