### 507096397 01/26/2022

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7143235

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
JAMES WILLIAM OGLE	03/30/2017
AARON GENE RUSSELL	03/30/2017
UBONG AKPAN INYANG	03/30/2017
JANETTE CORTEZ MONTALVO	03/30/2017
PHILIP D. NGUYEN	03/30/2017
LOAN VO	03/30/2017

### **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:	16484084

### **CORRESPONDENCE DATA**

Fax Number: (703)712-5050

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: 7037125000

PATENTS@MCGUIREWOODS.COM Email:

**Correspondent Name:** MCGUIREWOODS, LLP Address Line 1: 1750 TYSONS BOULEVARD

Address Line 2: **SUITE 1800** 

Address Line 4: **TYSONS, VIRGINIA 22102-4215** 

ATTORNEY DOCKET NUMBER:	2069464-0726PTUS
NAME OF SUBMITTER:	CAMILLE J. BUTLER
SIGNATURE:	/Camille J. Butler/
DATE SIGNED:	01/26/2022

**PATENT** REEL: 058784 FRAME: 0144

507096397

# Total Attachments: 12 source=2069464-0726PTUS\_Assignment#page1.tif source=2069464-0726PTUS\_Assignment#page2.tif source=2069464-0726PTUS\_Assignment#page3.tif source=2069464-0726PTUS\_Assignment#page4.tif source=2069464-0726PTUS\_Assignment#page5.tif source=2069464-0726PTUS\_Assignment#page6.tif source=2069464-0726PTUS\_Assignment#page7.tif source=2069464-0726PTUS\_Assignment#page8.tif source=2069464-0726PTUS\_Assignment#page9.tif source=2069464-0726PTUS\_Assignment#page10.tif source=2069464-0726PTUS\_Assignment#page11.tif source=2069464-0726PTUS\_Assignment#page11.tif

i	As the below named inventor, I hereby declare that:								
•	This de	eclaratio	n is dire	cted to:					
District	$\boxtimes$	The attached application to be filed as a United States application or PCT							
		internat	ional ap	plication, or					
Action		United	States	application	or P	CT	international	application	number
				filed or	n	•••••	; a	nd,	
Entitled	<b>i</b> :								
STAGE	ED PR	OPPIN	G OF FR	ACTURE NI	ETWO	RKS	<b>*</b>		

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, I, 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.

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, at Assignee's expense.

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 patent office proceeding or litigation, at Assignee's expense.

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.

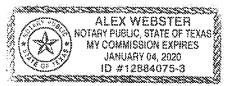
Executed this 32 day of 1

JAMES WILLÎAM OGLE

STATE OF Texas )
COUNTY OF Harris )

Before me personally appeared said JAMES WILLIAM OGLE and acknowledged the foregoing instrument to be a free act and deed this 3000 day of 4000, 2000.

Seal



<u>'UUIU</u> (Notary)

2 of 2

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
	; and,
Entitled:	
STAGED P	ROPPING OF FRACTURE NETWORKS

Regarding that application, I declare the following:

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1 of 2

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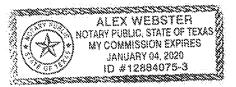
AARON GENE RUSSELL

STATE OF Texas )

COUNTY OF Harris )

Before me personally appeared said AARON GENE RUSSELL and acknowledged the foregoing instrument to be a free act and deed this  $\frac{30.40}{20}$  ay of  $\frac{10.40}{20}$ .

Seal



LH Nelister

Α	As the below named inventor, I hereby declare that:								
Т	his de	claratio	n is dire	cted to:					
Σ		The atta	ached ap	plication to	be filed	as ·	a United Stat	es applicatio	n or PCT
		internat	ional app	plication, or					
		United	States	application	or PC	J i	international	application	number
				filed or	n		; a	nd,	
Entitled:									
STAGE	D PR	OPPIN	G OF FR	ACTURE N	ETWOF	ŧκs			

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1 of 2

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, at Assignee's expense.

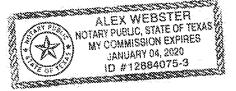
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I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of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

Executed this	day of	March	, 20_17	
		- Lake	Grand	
	Ü	BONG AKPAN IN		
STATE OF TEXAS	)			
COUNTY OF Harris	)			

Before me personally appeared said UBONG AKPAN INYANG and acknowledged the foregoing instrument to be a free act and deed this 300 day of 400 day. 2011.

Seal



NULL (Notary)

	As the below named inventor, I hereby declare that:				
	This d	leclaration 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 n	umber		
		; and,			
Entitle	d:				
STAGI	ED PR	OPPING OF FRACTURE NETWORKS			

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, I, 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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Executed this	; <u>30</u>	_day of _	March	, 20 🗍
		C	Forete (	ozi Montalio TEZMONTALVO
		J	METTE COR	TEŽ MONTALVO
STATE OF	Texas	)		
COUNTY OF	Hami o	) '		

Before me personally appeared said JANETTE CORTEZ MONTALVO and acknowledged the foregoing instrument to be a free act and deed this  $\frac{1}{20.000}$  day of  $\frac{1}{20.0000}$ ,  $\frac{1}{20.00000}$ .

Seal

ALEX WEBSTER

ALEX WEBSTER

NOTARY PUBLIC, STATE OF TEXAS

MY COMMISSION EXPIRES

JANUARY 04, 2020

JU #12884075-3

Let Milulia (Notary)

As	the below named inventor, I hereby declare that:
Th	is 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
	; and,
Entitled:	
STAGED	PROPPING OF FRACTURE NETWORKS

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Executed this 30 th day of 10 20/Z

PAILIP D. NOUYEN

STATE OF TEXAS

COUNTY OF Harris

Before me personally appeared said PHILIP D. NGUYEN and acknowledged the foregoing instrument to be a free act and deed this  $\frac{70\%}{20}$  day of  $\frac{100\%}{20}$ , 20 (1).

Seal ALEX WEBSTER
NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES

JANUARY 04, 2020 ID #12884075-3 Ay Wylstan

As	As the below named inventor, I hereby declare that:						
Th	is declaration is directed to:						
$\boxtimes$	The attached application to be filed as a United States application or PCT						
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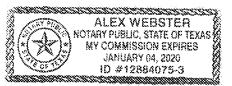
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Executed this	s30	day of	March	, 20 <u>17</u>	
			1,100		
			LOAN VO		**********
STATE OF	Texas	)			
COUNTY OF	Uzvris	)			

Before me personally appeared said LOAN VO and acknowledged the foregoing instrument to be a free act and deed this warday of

Seal



2 of 2

DM\_US 80756549-1.098273,1325