

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5426565

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
XINWEI LAN	01/20/2018
LI GAO	01/04/2018
DANIEL STARK	01/04/2018
YENNY NATALI MARTINEZ	02/02/2018
MICHEL JOSEPH LEBLANC	01/22/2018
GIREESH K BHAT	01/23/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HALLIBURTON ENERGY SERVICES, INC.
<b>Street Address:</b>	3000 N. SAM HOUSTON PARKWAY E.
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77032-3219
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16333140
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)973-1170
<i>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.</i>	
<b>Phone:</b>	(713)465-2340
<b>Email:</b>	info@hspeight.com
<b>Correspondent Name:</b>	HOWARD L. SPEIGHT
<b>Address Line 1:</b>	742 CENTRAL AVENUE
<b>Address Line 4:</b>	NAPA, CALIFORNIA 94558
<b>ATTORNEY DOCKET NUMBER:</b>	2016-IPM-100864 U1 US
<b>NAME OF SUBMITTER:</b>	HOWARD L. SPEIGHT
<b>SIGNATURE:</b>	/Howard L. Speight, Reg. No. 37733/
<b>DATE SIGNED:</b>	03/18/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 12**

source=2016IPM100864DeclarationandAssignmentU1Lan#page1.tif  
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source=2016IPM100864DeclarationandAssignmentU1Bhat#page2.tif

## DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Title of Invention: Detecting a Fraction of a Component in a Fluid

Attorney Docket Number: 001001.2016-IPM-100864 PCT

As a below named inventor, I hereby declare that:

This declaration is directed to PCT international application number PCT/US17/68495 filed on December 27, 2017.

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 hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

I am aware of and acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

WHEREAS, the undersigned has made certain new and useful inventions and improvements described in the above-identified application.

WHEREAS, Halliburton Energy Services, Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 3000N. Sam Houston Parkway E., Houston, TX 77032-3219 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor.

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the above-identified application, and in and to the above-identified application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights, including the right to claim priority, under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of January, 2018.

Name: Xinwei Lan

Residence Address: 28215 Madella Manor Lane, Spring, TX 77386, United States

Citizenship: CN

Signature: [Signature] Date: 1/20/2018

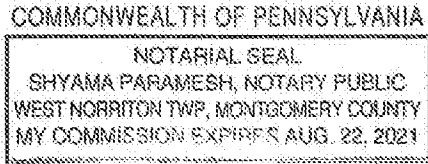
State of ~~Texas~~ Pennsylvania §  
County of ~~Harris~~ Montgomery §

Before me, SHYAMA PARAMESH, on this day personally appeared Xinwei Lan, known to me (or proved to me through presentation of a driver's license) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 20<sup>th</sup> day of JANUARY, 2018.

Signature of Notary Public: [Signature]

(Personalized Seal)



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Attorney Docket Number: 001001.2016-IPM-100864 PCT

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the above-identified application, and in and to the above-identified application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights, including the right to claim priority, under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of January, 2018.

Name: Li Gao

Residence Address: 5618 Grandwood Lane, Katy, TX 77450, United States

Citizenship: US

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

1-4-2018

State of Texas

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County of Harris

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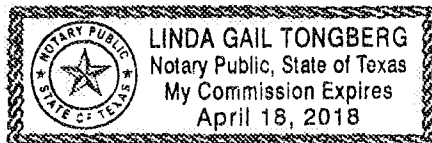
Before me, Linda Tongberg, on this day personally appeared Li Gao, known to me (or proved to me through presentation of a driver's license) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 4th day of January 2018.

Signature of Notary Public: \_\_\_\_\_

Linda Gail Tongberg

(Personalized Seal)



## DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Title of Invention: Detecting a Fraction of a Component in a Fluid

Attorney Docket Number: 001001.2016-IPM-100864 PCT

As a below named inventor, I hereby declare that:

This declaration is directed to PCT international application number PCT/US17/68495 filed on December 27, 2017.

The above-identified application was made or authorized to be made by me.

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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 hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the above-identified application, and in and to the above-identified application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights, including the right to claim priority, under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 4<sup>th</sup> day of January, 2018.

Name: Daniel Stark

Residence Address: 8423 Heart Drive, Apt. 3, Houston, Texas 77054,

Citizenship: US

Signature: [Signature] Date: 1/4/18

State of Texas §

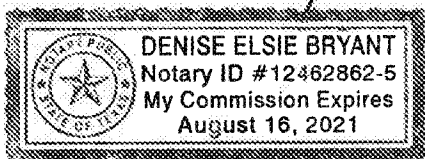
County of Harris §

Before me, Denise Bryant, on this day personally appeared Daniel Stark, known to me (or proved to me through presentation of a driver's license) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 4<sup>th</sup> day of January, 2018.

Signature of Notary Public: [Signature]

(Personalized Seal)





## DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Title of Invention: Detecting a Fraction of a Component in a Fluid

Attorney Docket Number: 001001.2016-IPM-100864 PCT

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the above-identified application, and in and to the above-identified application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights, including the right to claim priority, under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

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IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of January, 2018.

Name: Yenny Natali Martinez

Residence Address: 21717 Inverness Forest Blvd., Apt. 1105, Houston, TX 77074, United States

Citizenship: US

Signature: \_\_\_\_\_

Date: 2 February 2018

State of Texas

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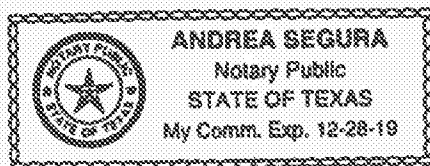
County of Harris

Before me, Andrea Segura, on this day personally appeared Yenny Natali Martinez, known to me (or proved to me through presentation of a driver's license) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 2 day of February, 2018.

Signature of Notary Public: \_\_\_\_\_

(Personalized Seal)



## DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Title of Invention: Detecting a Fraction of a Component in a Fluid

Attorney Docket Number: 001001.2016-IPM-100864 PCT

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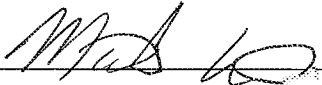
AND, furthermore, I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22 day of January, 2018.

Name: Michel Joseph LeBlanc

Residence Address: 8510 Parmer, Houston, TX 77064, United States

Citizenship: US

Signature:  Date: 2018-Jan-22

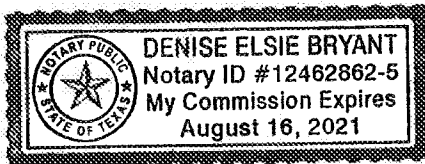
State of Texas §  
§  
County of Harris §

Before me, Denise E. Bryant, on this day personally appeared Michel Joseph LeBlanc, known to me (or proved to me through presentation of a driver's license) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 22ND day of January, 2018.

Signature of Notary Public: 

(Personalized Seal)



## DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Title of Invention: **Detecting a Fraction of a Component in a Fluid**

Attorney Docket Number: **001001.2016-IPM-100864 PCT**

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 23<sup>rd</sup> day of January, 2018.

Name: Gireesh K. Bhat

Residence Address: 62 WYATT OAKS DR, TOMBALL, TX 77375

Citizenship: US INDIA

Signature:  Date: 01/23/2018

State of Texas §

§

County of Harris §

Before me, Gireesh K. Bhat, on this day personally appeared Gireesh K. Bhat, known to me (or proved to me through presentation of a driver's license) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 23<sup>rd</sup> day of January, 2018.

Signature of Notary Public: 

(Personalized Seal)

