

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6201178

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RUIJIA WANG	08/26/2016
CHUNG CHANG	08/26/2016
JOHN PHILIP GRANVILLE	08/26/2016
GARY WAYNE KAINER	09/28/2016
<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
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16068967
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)374-1601
<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>	713-374-1600
<b>Email:</b>	salaniz@polsinelli.com
<b>Correspondent Name:</b>	POLSINELLI PC
<b>Address Line 1:</b>	1000 LOUISIANA STREET
<b>Address Line 2:</b>	SUITE 6400
<b>Address Line 4:</b>	HOUSTON, TEXAS 77002
<b>ATTORNEY DOCKET NUMBER:</b>	1380US-579231
<b>NAME OF SUBMITTER:</b>	SABRINA ALANIZ
<b>SIGNATURE:</b>	/Sabrina Alaniz/
<b>DATE SIGNED:</b>	07/15/2020
<b>Total Attachments: 6</b>	
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**WORLDWIDE ASSIGNMENT**

WHEREAS, WE, (hereinafter referred to as the “ASSIGNOR(S)”):

Ruijia WANG, 548 Jurong West Street 42 #06-163, Singapore 640548  
SINGAPORE

Chung CHANG, 13610 Comely Ln., Houston, TX 77079  
UNITED STATES OF AMERICA

John Philip GRANVILLE, 8135 Caroline Ridge Drive, Humble, TX 77396  
UNITED STATES OF AMERICA

Gary Wayne KAINER, 19302 Cougar Peak, Tomball, TX 77377  
UNITED STATES OF AMERICA

has/have invented a **SLOWNESS DISPERSION ASYMPTOTES AND LOW FREQUENCY ANSWER VALIDATION** (“Invention”) for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries (“Applications”), as further described below:

Provisional Application No. 62/317,222, filed April 1, 2016.

AND WHEREAS, **HALLIBURTON ENERGY SERVICES, INC.**, (hereinafter referred to as the “ASSIGNEE”), a company organized under the laws of Delaware, having a place of business at 3000 N. SAM HOUSTON PARKWAY E., HOUSTON, TEXAS 77032, is desirous of acquiring the full and exclusive right, title and interest in and to said Invention, said Applications inclusive of all ancillary rights relating thereto, any and all priority rights derived from said Applications, and all patents, design registrations, utility model registrations and other forms of protection, rights and titles relating to said Invention, in any country or countries and in respect of the whole or any part or parts of or improvements to the Invention;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S) does/do hereby confirm that ASSIGNOR(S) has/have transferred, conveyed and assigned, and by way of further assurance does/do hereby transfer, convey and assign, any and all of ASSIGNOR(S)’s respective rights, title and interest in and to: the Invention; the Applications; any further applications for patent, design registration, utility model registration or other forms of protection, rights or titles for the whole or any part or parts of or improvements to the Invention in any country or countries (“Further Applications”) together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications (“Divisionals”); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals (“Grants”); and the right to obtain any extensions / supplementary protection certificates (“Extensions”); together with the right to bring proceedings to recover damages and/or to obtain other remedies for acts committed

in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

ASSIGNOR(S) does/do hereby agree, upon request, to provide assistance and to execute any and all further documents, at the expense of ASSIGNEE and/or its successors and assigns (as applicable), which may be necessary or desirable to enable ASSIGNEE, and/or its successors and assigns (as applicable), to file, prosecute, bring proceedings and take other actions with respect to any and all of the Invention, Applications, Further Applications, Divisionals, Grants and Extensions, and any and all patents and registrations granted thereon and other forms of protection, rights and titles relating thereto, and ASSIGNOR(S) further agrees/agree to execute, upon request and at the expense of ASSIGNEE and/or its successors and assigns (as applicable), any and all further documents which may be necessary or desirable to vest or perfect the title of ASSIGNEE therein.

ASSIGNOR(S) does/do hereby authorize ASSIGNEE or its patent agents or attorneys to insert, above, the jurisdictions, application numbers, filing dates and any other indicia identifying the Applications when such information is available for the purpose of recording this assignment.


ASSIGNOR(S) does/do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS WORLDWIDE ASSIGNMENT shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon ASSIGNOR(S) and their successors and permitted assigns.

DELIVERY of this Worldwide Assignment by copy, however transmitted, constitutes valid and effective delivery. This Worldwide Assignment may be executed in one or more counterparts, each of which when so executed and delivered shall be an original, and such counterparts shall together constitute one and the same instrument.

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:

Date: 26-AUG-2016

  
\_\_\_\_\_  
Ruijia WANG  
548 Jurong West Street 42 #06-163  
Singapore 640548  
SINGAPORE

STATE OF Singapore

COUNTY OF Singapore

BEFORE ME, the undersigned authority, on this day personally appeared \_\_\_\_\_, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the \_\_\_\_\_ day of \_\_\_\_\_, 2016

[SEAL]

My Commission Expires:  
\_\_\_\_\_

  
\_\_\_\_\_  
Notary Signature

Witness

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:

Date: 8/26/2016

[Signature]  
Chung CHANG  
13610 Comely Ln.  
Houston, TX 77079  
UNITED STATES OF AMERICA

STATE OF Texas

COUNTY OF Harris

BEFORE ME, the undersigned authority, on this day personally appeared Chung Chang, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he executed the same for the purposes and considerations therein expressed.

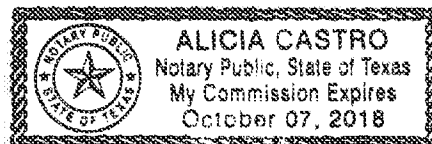
GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 26 day of August, 2016

[SEAL]

[Signature]  
Notary Signature

My Commission Expires:

10-7-2018



IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:

Date: 8/26/2016

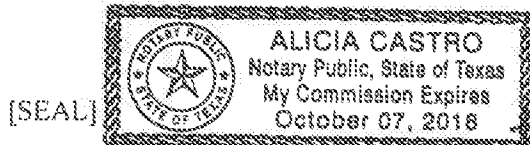
  
John Philip GRANVILLE  
8135 Caroline Ridge Drive  
Humble, TX 77396  
UNITED STATES OF AMERICA

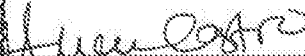
STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared JOHN P. GRANVILLE, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 26 day of AUGUST, 2016



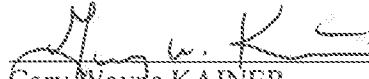
  
Notary Signature

My Commission Expires:

10-07-2018

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:

Date: 9/28/16

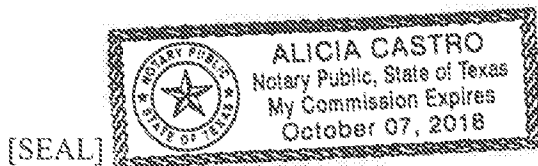
  
\_\_\_\_\_  
Gary Wayne KAINER  
19302 Cougar Peak  
Tomball, TX 77377  
UNITED STATES OF AMERICA

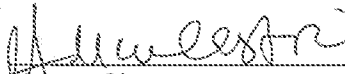
STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared GARY W. KAINER, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 29<sup>th</sup> day of SEPTEMBER, 2016



  
\_\_\_\_\_  
Notary Signature

My Commission Expires:

10-07-2018