

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5340035

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|---|-----------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| LILONG LI | 04/27/2018 |
| SONGHUA CHEN | 04/24/2018 |
| MARK CHEIRON BUTLER | 04/24/2018 |
| 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: | 16320155 |
| CORRESPONDENCE DATA | |
| Fax Number: | (512)670-8904 |
| <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> | |
| Phone: | 5127108326 |
| Email: | uspto@gilliamip.com |
| Correspondent Name: | GILLIAM IP PLLC (HALLIBURTON) |
| Address Line 1: | 7200 N. MOPAC EXPY. #440 |
| Address Line 4: | AUSTIN, TEXAS 78731 |
| ATTORNEY DOCKET NUMBER: | 164.2017-IPM-101904 U1 US |
| NAME OF SUBMITTER: | MORGAN BRYANT |
| SIGNATURE: | /Morgan Bryant/ |
| DATE SIGNED: | 01/24/2019 |
| Total Attachments: 5 | |
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| source=2017_IPM_101904_U1_US_Assignment_Filed20190124#page4.tif | |

ASSIGNMENT

APPLICATION NO.: PCT/US2018/019637

DOCKET NUMBER: 2017 101904U1

**TITLE: ACCOUNTING FOR TOOL BASED EFFECTS IN NUCLEAR MAGNETIC
RESONANCE LOGGING DATA**

WHEREAS, Lilong Li, Songhua Chen, and Mark Cheiron Butler (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are identified above and accompanying this Assignment.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Halliburton Energy Services, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 3000 N. Sam Houston Parkway E., Houston, TX 77032-3219, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above- identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignor:

(Signature):

[Handwritten Signature]

Name: Lilong Li

City/State: Houston, TX

Date:

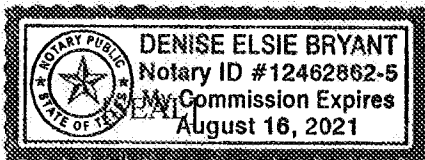
4/27/18

STATE OF Texas)

)ss

COUNTY OF Harris)

On this 27th day of April, 2018 before me personally appeared Lilong Li, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



[Handwritten Signature]

Notary Public

Assignor:

(Signature): *[Handwritten Signature]*

Name: Songhua Chen

City/State: Katy, TX

Date: 4/24/2018

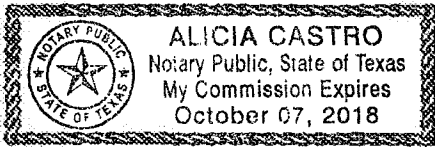
STATE OF Texas)

)ss

COUNTY OF Harris)

On this 24 day of April, 2018 before me personally appeared Songhua Chen, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



[Handwritten Signature]

Notary Public

Assignor:

(Signature):

Mark Cheiron Butler

Name: Mark Cheiron Butler

City/State: Kingwood, TX

Date: 4/24/2018

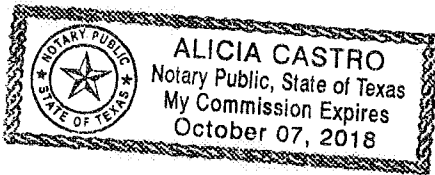
STATE OF Texas)

)ss

COUNTY OF Harris)

On this 24 day of April, 2018 before me personally appeared Mark Cheiron Butler, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Alicia Castro

Notary Public