

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5004584

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JING JIN	01/21/2016
CHUNG CHANG	10/26/2015
RECEIVING PARTY DATA	
Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	3000 N. SAM HOUSTON PARKWAY E.
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77032
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15317071
CORRESPONDENCE DATA	
Fax Number:	(713)658-2553
<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:	713-658-1818
Email:	patents@chamberlainlaw.com
Correspondent Name:	COLLIN A. ROSE
Address Line 1:	1200 SMITH STREET
Address Line 2:	14TH FLOOR
Address Line 4:	HOUSTON, TEXAS 77002
ATTORNEY DOCKET NUMBER:	140846-032601US
NAME OF SUBMITTER:	JESSICA STRYKER, IP PARALEGAL
SIGNATURE:	/Jessica Stryker, IP Paralegal/
DATE SIGNED:	06/13/2018
Total Attachments: 4	
source=2014-IPM-098056 U1 US_Signed Chang Assignment _140846-032601US#page1.tif	
source=2014-IPM-098056 U1 US_Signed Chang Assignment _140846-032601US#page2.tif	
source=2014-IPM-098056 U1 US_Signed Jin Assignment _140846-032601US#page1.tif	
source=2014-IPM-098056 U1 US_Signed Jin Assignment _140846-032601US#page2.tif	

ASSIGNMENT

For good and valuable consideration given to me by Halliburton Energy Services, Inc., and any other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, Chung Chang ("ASSIGNOR"), having jointly or solely made an invention in **"ACOUSTIC LOGGING TOOL UTILIZING FUNDAMENTAL RESONANCE ("INVENTION")**, while in the employ or hire either as an employee or consultant of Halliburton Energy Services, Inc., a corporation organized and existing under the laws of the State of Delaware, doing business at 3000 N. Sam Houston Parkway E., Houston, Texas 77032-3219, US ("ASSIGNEE"), do hereby assign, sell, and convey to ASSIGNEE, its successors, and assigns, ASSIGNOR's entire right, title, and interest throughout the world in and to:

1. Said INVENTION in **"ACOUSTIC LOGGING TOOL UTILIZING FUNDAMENTAL RESONANCE;"**
2. Utility patent application on said INVENTION entitled, **"ACOUSTIC LOGGING TOOL UTILIZING FUNDAMENTAL RESONANCE,"** filed as:¹
PCT Patent Application No. PCT/US2015/054240
Date: October 06, 2015
Attorney's Reference No. 140846-032600WO;
3. All applications for patent or like protection on the INVENTION that have now been or may in the future be made anywhere in the world, including any continuation, continuation-in-part, and any other utility applications;
4. All patents and like protection that have now been or may in the future be granted on the INVENTION anywhere in the world;
5. All substitutions, divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of the applications and patents and like grants, including without limitation, those obtained or permissible under past, present, and future laws and statutes;

¹ ASSIGNOR further authorizes the handling attorneys to insert the serial number and filing date of the patent application identified by the listed file number as soon as it is known as well as to attach and update a schedule of any further application serial numbers or patent numbers related to the INVENTION as they become known.

6. All rights of action on account of past, present, and future unauthorized use of the INVENTION and for infringement of the patents and like protection anywhere in the world;
7. The right in ASSIGNEE to file in its name applications for patents and like protection for the INVENTION in any country or countries in the world; and
8. All rights of priority associated with the INVENTION, applications, patents, and like protection anywhere in the world.

ASSIGNOR covenants that ASSIGNOR, its heirs, legal representatives, assigns, administrators, and executors will, at the expense of ASSIGNEE, its successors, and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors, and assigns, the full benefit of this Assignment. Further, ASSIGNOR warrants that the INVENTION is not encumbered by another assignment or obligation of assignment to a third-party and that ASSIGNOR has the full ability and authority to assign and encumber the INVENTION.

ASSIGNOR: [Signature]
Name: Chung Chang

Date: Oct 26, 2015

THE STATE OF: Texas

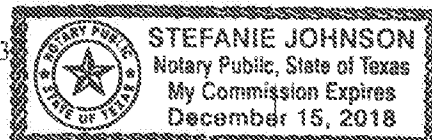
COUNTY OF: Harris

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 acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office, this the 26 day of October, 2015.

[Signature]
Notary Public in and for the State of
Texas

My commission expires: Dec 15, 2018



ASSIGNMENT

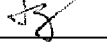
For good and valuable consideration given to me by Halliburton Energy Services, Inc., and any other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, Jing Jin ("ASSIGNOR"), having jointly or solely made an invention in "**ACOUSTIC LOGGING TOOL UTILIZING FUNDAMENTAL RESONANCE**" ("INVENTION"), while in the employ or hire either as an employee or consultant of Halliburton Energy Services, Inc., a corporation organized and existing under the laws of the State of Delaware, doing business at 3000 N. Sam Houston Parkway E., Houston, Texas 77032-3219, US ("ASSIGNEE"), do hereby assign, sell, and convey to ASSIGNEE, its successors, and assigns, ASSIGNOR's entire right, title, and interest throughout the world in and to:

1. Said INVENTION in "**ACOUSTIC LOGGING TOOL UTILIZING FUNDAMENTAL RESONANCE**;"
2. Utility patent application on said INVENTION entitled, "**ACOUSTIC LOGGING TOOL UTILIZING FUNDAMENTAL RESONANCE**," filed as:¹
PCT Patent Application No. PCT/US2015/054240
Date: October 06, 2015
Attorney's Reference No. 140846-032600WO;
3. All applications for patent or like protection on the INVENTION that have now been or may in the future be made anywhere in the world, including any continuation, continuation-in-part, and any other utility applications;
4. All patents and like protection that have now been or may in the future be granted on the INVENTION anywhere in the world;
5. All substitutions, divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of the applications and patents and like grants, including without limitation, those obtained or permissible under past, present, and future laws and statutes;

¹ ASSIGNOR further authorizes the handling attorneys to insert the serial number and filing date of the patent application identified by the listed file number as soon as it is known as well as to attach and update a schedule of any further application serial numbers or patent numbers related to the INVENTION as they become known.

6. All rights of action on account of past, present, and future unauthorized use of the INVENTION and for infringement of the patents and like protection anywhere in the world;
7. The right in ASSIGNEE to file in its name applications for patents and like protection for the INVENTION in any country or countries in the world; and
8. All rights of priority associated with the INVENTION, applications, patents, and like protection anywhere in the world.

ASSIGNOR covenants that ASSIGNOR, its heirs, legal representatives, assigns, administrators, and executors will, at the expense of ASSIGNEE, its successors, and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors, and assigns, the full benefit of this Assignment. Further, ASSIGNOR warrants that the INVENTION is not encumbered by another assignment or obligation of assignment to a third-party and that ASSIGNOR has the full ability and authority to assign and encumber the INVENTION.

ASSIGNOR: 
Name: Jing Jin

Date: 21/01/16

Witnessed By:



Signature

Xiang Wu
Printed Name of Witness

Date: 21/01/16

Witnessed By:



Signature

Wei Bin Ewe
Printed Name of Witness

Date: 21/01/16