505002469 07/13/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIE YANG	08/08/2017

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:	16069989

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ATTORNEY DOCKET NUMBER: 140846-043801US	
NAME OF SUBMITTER: MIMI CORONA	
SIGNATURE: /Mimi Corona/	
DATE SIGNED:	07/13/2018

Total Attachments: 2

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PATENT 505002469 REEL: 046343 FRAME: 0077

CH Docket No.: 140846-043800WO HAL Docket No.: 2016-IPM-100619U1 PCT

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, Jie Yang ("ASSIGNOR"), having jointly or solely made an invention in "Method and System to Improve Open Loop Systems" ("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 ("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 "Method and System to Improve Open Loop Systems;"
- 2. Patent Cooperation Treaty patent application on said INVENTION entitled, "Method and System to Improve Open Loop Systems," filed as:

PCT Patent Application No. PCT/US2017/046944
Filing Date: 15 August 2017
Attorney's Reference No. 140846-043800WO;

- 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;
- 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:
 - 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;
 - 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

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¹ ASSIGNOR further authorizes the handling attorneys to insert the serial number and filing date of the patent application identified by the listed file numbered 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.

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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	
Sie Yang	8/8/24] Date
THE STATE OF <u>ILLAS</u> COUNTY OF <u>Hadula</u>	§
to me to be the person whose name is subs- to me that he executed the same for the pur	ity, on this day personally appeared Jie Yang, known cribed to the foregoing instrument, and acknowledged poses and consideration therein expressed.
ALEX WEBSTER ALEX WEBSTER NOTARY PUBLIC, STATE OF TEXAS MY COMMISSION EXPIRES JANUARY 04, 2020 JANUARY 04, 2020 10 #12864075-3	Notary Public in and for the State of
My Commission Expires: <u>ロリロギ</u> ス	

RECORDED: 07/13/2018