504481199 07/31/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4527901

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KE ZHANG	07/27/2017

RECEIVING PARTY DATA

Name:	ARAMCO SERVICES COMPANY	
Street Address:	9009 WEST LOOP SOUTH	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77096	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15662756	

CORRESPONDENCE DATA

Fax Number: (937)449-6405

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.

Phone: 9374496400

Email: katherine.ghearing@dinsmore.com

Correspondent Name: DINSMORE & SHOHL LLP

Address Line 1: FIFTH THIRD CENTER, ONE S. MAIN ST.

Address Line 2: SUITE 1300

Address Line 4: DAYTON, OHIO 45402

ATTORNEY DOCKET NUMBER:	SA 6136 PA
NAME OF SUBMITTER:	KATHERINE GHEARING
SIGNATURE:	/Katherine Ghearing/
DATE SIGNED:	07/31/2017

Total Attachments: 2

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PATENT 504481199 REEL: 043145 FRAME: 0404

CONFIDENTIAL

ASSIGNMENT OF INTELLECTUAL PROPERTY

In consideration of my continued employment with Aramco Services Company ("ASC" or the "Company"), I have executed this Assignment of Intellectual Property ("Assignment") relating to the Intellectual Property more fully described in the document identified by ASC Tracking No. _______ ("Invention Disclosure"), and agree to the following:

- 1. I do hereby assign to the Company all of my right, title and interest in the Invention Disclosure, including, but not limited to, proprietary information and Intellectual Property (the "Assigned Interests").
- 2. If requested by the Company, and at no expense to me, I agree to execute and deliver all papers and make all rightful oaths deemed useful or necessary by the Company in connection with the preparation, assignment, filing, and prosecution of applications for patents covering all such Assigned Interests and to lend such other assistance in obtaining, perfecting or enforcing such patents as the Company may request.
- I agree to cooperate, both during my employment with the Company and for a reasonable time thereafter, in the prosecution or defense of any patent claims, litigation, and any other proceeding involving the Assigned Interests.
- 4. I understand that all Works I have created for the Company, or in pursuit of my duties to the Company, that relate to the Assigned Interests are Works made for hire and are owned by the Company.
- 5. For purposes of this Assignment, I agree that the following definitions apply:

"Intellectual Property" or "IP" includes patents, patent applications, utility models, industrial designs, inventions, trademarks, service marks, logos, trade dress, brand names, goodwill, domain names or other sources of origin, copyrights and moral rights, trade secrets, proprietary know-how and know-how, including, but not limited to Inventions, conceptions, developments, books, articles, workbooks, manuals, lab manuals, bibliographies, video or audio recordings, films, slides, website content, transparencies, charts, graphic materials, photographic or similar visual materials, film strips, multi-media materials, three-dimensional materials, presentations, exhibits, computer programs, software, and databases.

"Works" includes works of authorship fixed in a tangible medium of expression from which they can be perceived, reproduced, or otherwise communicated, either directly or with the aid of a machine or device, and include the product and results of services rendered to the Company, invention disclosures, drawings, plans, documents, flow charts, original photographs, graphics, graphic design, computer

PATENT REEL: 043145 FRAME: 0405 files, work-up files, simulations, simulation files, formulations, source codes, software and/or programming.

- 6. I understand and agree that the foregoing covenants shall inure to the benefit of the Company, its successors, assigns or designees, meaning that ASC, its successors, assigns and designees shall have the right to make, sell, use, assign, license and take any and all other actions as the owner of all rights associated with the Assigned Interests.
- 7. I understand and agree that this Assignment shall be binding upon me during and after my assignment by the Company and upon my heirs, executors, administrators and assigns.

Signature	7le		
Name (printed):	KE.	Z. +	MOG
Dated this day	of	<u></u>	<u>, 20 j ~ 7</u>
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RECORDED: 07/31/2017