

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5665036

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BRIAN HANNA	07/23/2019
MICHELE OSTRAT	07/24/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ARAMCO SERVICES COMPANY
<b>Street Address:</b>	1200 SMITH STREET
<b>Internal Address:</b>	TWO ALLEN BUILDING
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77002
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16256641
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(937)449-6405
<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>	937/449-6400
<b>Email:</b>	daytonipdocket@dinsmore.com
<b>Correspondent Name:</b>	DINSMORE & SHOHL LLP
<b>Address Line 1:</b>	FIFTH THIRD CENTER, ONE S. MAIN STREET
<b>Address Line 2:</b>	SUITE 1300
<b>Address Line 4:</b>	DAYTON, OHIO 45402
<b>ATTORNEY DOCKET NUMBER:</b>	SA6251/SA 6251 PA
<b>NAME OF SUBMITTER:</b>	THERESA OLDFIELD
<b>SIGNATURE:</b>	/Theresa Oldfield/
<b>DATE SIGNED:</b>	08/13/2019
<b>Total Attachments: 4</b>	
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source=Assignment - Inventors to ASC signed#page3.tif	



## ASSIGNMENT

WHEREAS, we, **Brian Hanna**, of West Roxbury, MA and **Michele Ostraat**, of Somerville, MA, hereinafter called the *ASSIGNORS*, invented certain new and useful **METHODS FOR REACTING CHEMICAL STREAMS WITH CATALYSTS COMPRISING SILICA, ALUMINA, AND TUNGSTEN**, for which the *ASSIGNORS* executed a United States Non-Provisional Patent Application, filed on January 24, 2019 under

Patent Application Serial No.: 16/256,641;

Attorney Docket No.: SA6251/ASC0276/SA 6251 PA;

WHEREAS, the *ASSIGNORS* hereby authorize and request the attorney(s) and/or agent(s) recording the present assignment, to insert above the filing date and application number of said application, when known;

WHEREAS, **Aramco Services Company**, a company in the State of Texas, with a place of business at 1200 Smith Street, Two Allen Building, Houston, TX 77002, hereinafter called the *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in and to said application and the inventions therein disclosed and any letters patent that may issue thereon;

AND, WHEREAS, it is the intent of the *ASSIGNORS* to assign all rights, including but not limited to all substantive rights as well as the (future) right to claim priority and the right to be granted a patent in any and all PCT Contracting States to the above referenced application to the Assignee;

NOW, THEREFORE, in consideration of the sum of One Dollar (US \$1.00) or other good and valuable consideration, the receipt of which is hereby acknowledged, *ASSIGNORS* hereby sell, assign and transfer unto said *ASSIGNEE*, its successors and assigns, the entire right, title and interest, including the right to sue for past infringement, if any, and the right to claim priority, in and to said application, the inventions therein disclosed, and any improvements thereon, and in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possession, in any and all foreign countries, including without limit all PCT Contracting States, all GCC Member States, and in and to any and all divisions, continuations, substitutions, renewals, re-examination, extension and reissues thereof, and any other applications claiming priority thereto;

*ASSIGNORS* hereby authorize and request the Patent Office Officials in the United States and its territorial possessions, and in any and all foreign countries, to issue, when granted, any and all Letters Patents thereon, and reissues thereof, to said *ASSIGNEE* as the assignee of the entire right, title and interest in and to the same, for the sole use and behalf of said *ASSIGNEE* and said *ASSIGNEE*'s successors and assigns, to the full end of the term for which said Letters Patents may be granted, as fully and entirely as the same would have been held by *ASSIGNORS* had this assignment and sale not been made; and


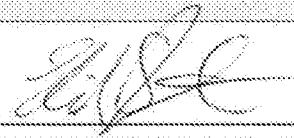
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*ASSIGNORS* hereby authorize said *ASSIGNEE*, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, and to secure in its own name the patent or patents issued thereon; and

*ASSIGNORS* hereby does agree that, upon request, *ASSIGNORS* will sign all papers, and make all rightful oaths, and do all acts which said *ASSIGNEE*, its successors or assigns, may consider necessary in connection with said United States application, and in connection with any other United States or foreign applications that may be filed in connection with said inventions, and with any improvements thereon, and in connection with any patents issued or reissued thereon.

*ASSIGNORS*:

IN WITNESS WHEREOF, the *ASSIGNORS* have hereunto set his hand and seal.

<b><i>Inventor 1: Brian Hanna</i></b>	
Signed:	
Date:	7-23-19
<b><i>Witness:</i></b>	
Signed:	
Printed Name:	Elisha Converse
Title:	Lab Scientist III

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<b>Inventor 2: Michele Ostraat</b>	
Signed:	<u>Michele Ostraat</u>
Date:	<u>July 24, 2019</u>
<b>Witness:</b>	
Signed:	<u>Mark P. Kamaskey</u>
Printed Name:	<u>Mark P. Kamaskey</u>
Title:	<u>Senior Specialist</u>

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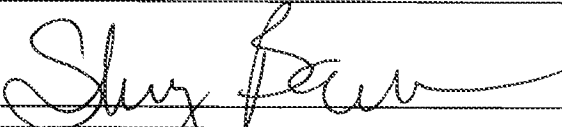
## ACCEPTANCE OF ASSIGNMENT

WHEREAS, from time to time, ASSIGNORS named as inventors in particular United States Patent Applications including those inventors named in the ASSIGNMENT attached hereto, will assign particular rights in the patent application, and related patent applications, to the ASSIGNEE, where the ASSIGNEE is Aramco Services Company, a Company in the State of Texas, with a place of business as 1200 Smith Street, Two Allen Building, Houston, Texas 77002;

WHEREAS, the ASSIGNEE hereby authorizes and requests the attorneys and/or agents of the law firm of Dinsmore & Shohl LLP recording the aforementioned ASSIGNMENT, to insert the particular application number, filing date, and attorney docket number of the particular patent application that is the subject of the aforementioned ASSIGNMENT below;

<b>Application Data:</b>	
Application Number:	16/256,641
Filing Date:	January 24, 2018
Attorney Docket No.	SA6251/ASC0276/SA 6251 PA

AND, WHEREAS, ASSIGNEE hereby accepts and receives the aforementioned ASSIGNMENT upon execution by ASSIGNOR, which execution may precede or follow ASSIGNEE'S execution below:

<b>Assignee: Aramco Services Company</b>	
Signed:	
Printed Name:	Bobby J. HORTON
Title:	General Counsel & Corporate Secretary
Date:	May 16, 2019
<b>Witness:</b>	
Signed:	
Printed Name:	Sherry Baner
Title:	Secretary
Date:	5/16/2019