

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5579209

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRIAN HANNA	04/08/2019
RECEIVING PARTY DATA	
Name:	ARAMCO SERVICES COMPANY
Street Address:	1200 SMITH STREET
Internal Address:	TWO ALLEN BUILDING
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77002
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16156616
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	937/449-6400
Email:	daytonipdocket@dinsmore.com
Correspondent Name:	DINSMORE & SHOHL LLP
Address Line 1:	FIFTH THIRD CENTER, ONE S. MAIN STREET
Address Line 2:	SUITE 1300
Address Line 4:	DAYTON, OHIO 45402
ATTORNEY DOCKET NUMBER:	SA6178/SA 6178 PA
NAME OF SUBMITTER:	THERESA OLDFIELD
SIGNATURE:	/Theresa Oldfield/
DATE SIGNED:	06/19/2019
Total Attachments: 3	
source=SA6178 - Assignment - Hanna to Aramco Services Co#page1.tif	
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ASSIGNMENT

WHEREAS, I, **Brian Hanna** of West Roxbury, MA hereinafter called the *ASSIGNOR*, invented certain new and useful CATALYSTS SYSTEMS THAT INCLUDE METAL CO-CATALYSTS FOR THE PRODUCTION OF PROPYLENE, for which the *ASSIGNOR* executed a United States Non-Provisional Patent Application, filed on October 10, 2018, under

Patent Application Serial No.: 16/156,616 _____;
Attorney Docket No.: SA6178/SA 6178 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, Texas 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 *ASSIGNOR* 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, *ASSIGNOR* does 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;

ASSIGNOR does 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

Assignment: Page 1 of 3
[SA6178/SA 6178 PA]

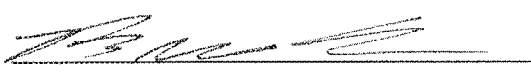

held by *ASSIGNOR* had this assignment and sale not been made; and

ASSIGNOR does 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

ASSIGNOR does hereby agree that, upon request, *ASSIGNOR* 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.

ASSIGNOR:

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

Inventor 1: Brian Hanna	
Signed:	
Date:	04/08/19
Witness:	
Signed:	
Printed Name:	Michele L. Ostraat
Title:	Research Center Leader - Dows House

Assignment: Page 2 of 3
[SA6178/SA 6178 PA]


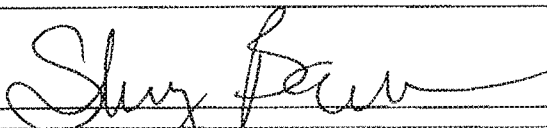
ACCEPTANCE OF ASSIGNMENT

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;

<i>Application Data:</i>	
Application Number:	16/156,616
Filing Date:	October 18, 2018
Attorney Docket No.	SA6178/ASC0381-US01-NP/SA6178PA

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

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