

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6595872

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	SAUDI ARAMCO UPSTREAM TECHNOLOGY COMPANY	10/24/2019
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	SAUDI ARABIAN OIL COMPANY	
<b>Street Address:</b>	P.O. BOX 5000	
<b>City:</b>	DHAHRAN	
<b>State/Country:</b>	SAUDI ARABIA	
<b>Postal Code:</b>	31311	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	17090138
<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>	9374496400	
<b>Email:</b>	daytonipdocket@dinsmore.com	
<b>Correspondent Name:</b>	DINSMORE & SHOHL LLP	
<b>Address Line 1:</b>	FIFTH THIRD CENTER, ONE SOUTH MAIN STREET	
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<b>Address Line 4:</b>	DAYTON, OHIO 45402	
<b>ATTORNEY DOCKET NUMBER:</b>	SA6363/SA 6363 PA	
<b>NAME OF SUBMITTER:</b>	SARAH WILSON	
<b>SIGNATURE:</b>	/Sarah Wilson/	
<b>DATE SIGNED:</b>	03/11/2021	
<b>Total Attachments: 3</b>		
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## ASSIGNMENT

WHEREAS the inventors in the United States Patent Application identified below have assigned or are under an obligation to assign their entire right, title, and interest in and to the aforementioned patent application, and to all US or foreign patent applications claiming priority thereto (hereinafter the Patent Family), and the inventions therein described, to **Aramco Services Company**;

WHEREAS **Aramco Services Company**, a corporation of the State of Delaware, with a place of business at 1200 Smith Street, Two Allen Building, Houston, Texas 77002 has assigned or is under an obligation to assign its entire right, title, and interest in and to the Patent Family, and the inventions therein described, to **Saudi Aramco Upstream Technology Company**, a Limited Liability Company organized under the laws of the Kingdom of Saudi Arabia, with a business address of 1 Eastern Avenue, Dhahran 31311, Saudi Arabia;

WHEREAS, **Saudi Arabian Oil Company**, a corporation of Saudi Arabia, with a place of business at P.O. Box 5000, Dhahran 31311, Saudi Arabia (hereinafter referred to as *ASSIGNEE*) is desirous of acquiring the entire right, title and interest in and to the Patent Family, and the inventions therein described;

WHEREAS, it is the intent of **Saudi Aramco Upstream Technology Company** 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 *ASSIGNEE*;

AND WHEREAS, **Saudi Aramco Upstream Technology Company** hereby authorizes and requests the attorneys and/or agents recording the aforementioned ASSIGNMENT, to insert the application number, filing date, and attorney docket number of the United States Patent Application that is the subject of this ASSIGNMENT below;

<b><i>Application Data:</i></b>	
Application Number:	17/090,138
Filing Date:	November 5, 2020
Attorney Docket No.	SA6363/ASC0431-US01-NP/SA 6363 PA

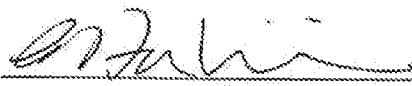
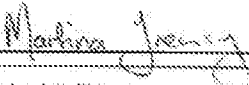
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, **Saudi Aramco Upstream Technology Company** hereby sells, assigns, and transfers unto *ASSIGNEE*, its successors and assigns, the entire right, title and interest, including the right to sue for past infringement, 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;

**Saudi Aramco Upstream Technology Company** hereby authorizes and requests 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 *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 Saudi Aramco Upstream Technology Company had this assignment and sale not been made;

**Saudi Aramco Upstream Technology Company** hereby authorizes 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

**Saudi Aramco Upstream Technology Company** hereby does agree that, upon request, it 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.

IN WITNESS WHEREOF, for Saudi Aramco Upstream Technology Company:

<b>Saudi Aramco Upstream Technology Company</b>	
Signed:	
Printed Name:	Ashraf M. Al-Tahini
Title:	Chief Operating Officer of SAUTC
Date:	October 24, 2019
<b>Witness:</b>	
Signed:	
Printed Name:	Martina Treacy
Title:	Sr. Secretary, EXPEC ARC


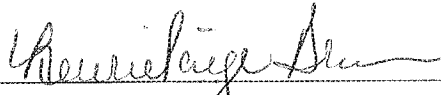
## Acceptance of Assignment

WHEREAS, from time to time, *ASSIGNORS* named as inventors in particular United States Patent Applications filed on behalf of the Saudi Arabian Oil Company, a corporation of Saudi Arabia, with a place of business at P.O. Box 5000, Dhahran 31311, Kingdom of Saudi Arabia, hereinafter called the *ASSIGNEE*, including those inventors named in the ASSIGNMENT attached hereto, will assign particular rights in the patent application, and related patent applications, to the *ASSIGNEE*;

WHEREAS, the *ASSIGNEE* hereby authorizes and requests the attorneys and/or agents recording the aforementioned ASSIGNMENT, to insert the application number, filing date, and attorney docket number of the patent application that is the subject of the aforementioned ASSIGNMENT, below;

<i>Application Data:</i>	
Application Number:	17/090,138
Filing Date:	November 5, 2020
Attorney Docket No:	SA6363/ASC0431-US01-NP/SA 6363 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:

<i>Assignee:</i>	
Signed:	
Printed Name:	Aaron K. Adkins
Title:	Assistant Corporate Secretary
Date:	September 9, 2018
<i>Witness:</i>	
Signed:	
Printed Name:	Laurie Paige Burns
Title:	Paralegal I
Date:	September 9, 2018