

## PATENT ASSIGNMENT COVER SHEET

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<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	04/26/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAUDI ARABIAN OIL COMPANY
<b>Street Address:</b>	1 EASTERN AVENUE
<b>City:</b>	DHAHRAN
<b>State/Country:</b>	SAUDI ARABIA
<b>Postal Code:</b>	31311
<b>PROPERTY NUMBERS Total: 8</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16745420
Application Number:	16745422
Application Number:	16745426
Application Number:	16745428
Application Number:	16831660
Application Number:	62979234
Application Number:	16808956
Application Number:	16809464
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<b>ATTORNEY DOCKET NUMBER:</b>	38136-0001001
<b>NAME OF SUBMITTER:</b>	KIRSTIN MATTEO
<b>SIGNATURE:</b>	/kirstin matteo/

PATENT

<b>DATE SIGNED:</b>	04/28/2020
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**Total Attachments: 6**

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- source=SIGNED - Q2 2020 - SAUTC to SAO#page2.tif
- source=SIGNED - Q2 2020 - SAUTC to SAO#page3.tif
- source=SIGNED - Q2 2020 - SAUTC to SAO#page4.tif
- source=SIGNED - Q2 2020 - SAUTC to SAO#page5.tif
- source=SIGNED - Q2 2020 - SAUTC to SAO#page6.tif

ASSIGNMENT

This PATENT ASSIGNMENT ("ASSIGNMENT"), dated as of April 26, 2019 ("Effective Date"), is made and entered into by and between **SAUDI ARAMCO UPSTREAM TECHNOLOGY COMPANY** ("SAUTC" or "ASSIGNOR"), a Corporation organized and existing under the laws of Saudi Arabia and having a place of business at 1 Eastern Avenue Dhahran Saudi Arabia 31311, and **SAUDI ARABIAN OIL COMPANY** ("SAO" or "ASSIGNEE"), a Corporation organized and existing under the laws of Saudi Arabia and having a place of business at 1 Eastern Avenue Dhahran Saudi Arabia 31311.

WHEREAS, SAUTC is the sole owner of certain patent applications mentioned in Appendix A ("the Patent Applications"); and

WHEREAS, SAUTC is willing and able to sell, convey, assign, and transfer, to SAO on the Effective Date of this ASSIGNMENT, all right, title, and interest, worldwide, in the Patent Applications; and

WHEREAS, SAO is desirous of acquiring the Patent Applications, including all right, title, and interest in the Patent Applications in exchange for mutually agreed upon consideration.

NOW, THEREFORE, in consideration of the mutual covenants contained herein and other good and valuable consideration, the sufficiency of which is hereby acknowledged, the parties agree as follows:

**1. CONVEYANCE OF THE PATENT APPLICATIONS**

a. SAUTC does hereby sell, assign and transfer to SAO, its successors, assigns and other legal representatives, and SAO does hereby accept, the entire right, title and interest, worldwide, in and to the Patent Applications, including, without limitation, the rights to: (i) file and prosecute, in its own name wherever so permitted by law or in the name of SAO wherever necessary, patent applications, including corresponding and continuing applications, reissues, re-examinations, certificates of invention, and the like, based on any of the Patent Applications; (ii) to claim priority to any of the Patent Applications pursuant to the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and (iii) to protect and enforce any of the foregoing, including, without limitation, all rights to income, royalties, damages and payments now due or hereafter due or payable in respect thereto, and all rights of recovery and of legal action for past or future infringements and of interference proceedings and reexaminations involving any of the foregoing. SAUTC acknowledges receipt of fair and adequate consideration for this Assignment.

b. SAUTC shall, when requested by SAO and at no cost to SAUTC, (i) execute or cause to be executed all rightful oaths, assignments, and powers of attorney to SAO or to agents and legal representatives of SAO, and all other papers necessary and proper to carry out the intent and purpose of this Assignment, (ii) execute all papers necessary in connection with the Patent Applications, and any continuing, divisional, reissue, reexamination or other

corresponding application thereof or post-grant proceeding relating thereto and to execute any separate assignment in connection with any such application as SAO may deem necessary or expedient; and (iii) perform all affirmative acts that may be necessary to obtain a grant of a valid patent to SAO on any of the inventions claimed or disclosed in the Patent Applications.

c. SAUTC agrees that SAO may, at its discretion, record this Assignment with the United States Patent Office or a Patent Office in any other jurisdiction.

2. **REPRESENTATIONS AND WARRANTIES**

a. SAUTC represents that it is the owner of the Patent Applications, and of all foreign and domestic patents, patent applications, including continuation-in-part applications, reissues, re-examinations, certificates of invention, and the like that derive priority from, or claim the benefit of the filing date of, the Patent Applications and of all new and useful inventions and improvements that are disclosed in the Patent Applications.

3. **PARAGRAPH HEADINGS**

The paragraph headings are inserted only for purpose of reference. Such captions shall not affect the scope, meaning or intent of the provisions of this Assignment nor shall such headings otherwise be given any legal effect.

4. **ASSIGNMENT BINDING**

This Assignment shall bind the heirs, releases, personal representatives, successors and assigns of the Parties to this Assignment and inure to the benefit of their agents, directors, officers, employees, attorneys, successors and assigns, except as specifically excluded herein.

5. **ENTIRE AGREEMENT**

This Assignment contains the entire agreement between the Parties hereto and constitutes the complete, final and exclusive embodiment of their agreement with respect to the subject matters covered in this Assignment. All prior or contemporaneous agreements, understandings, representations, duties, obligations, and statements, oral or written, are merged into, terminated and/or superseded by this Assignment.

6. **COUNTERPARTS**

This Assignment may be executed in two or more counterparts. Facsimile signatures and electronic signatures shall be acceptable as original signatures.

7. **SEVERABILITY**

In the event that for any reason, one or more of the provisions of this Assignment or their application to any person or company, is held to be invalid, illegal, or unenforceable in any respect or to any extent, such provisions will, nevertheless remain valid, legal, and enforceable in all other respects and to such extent as may be permissible. In addition, any such invalidity, illegality, or unenforceability will not affect any other provision herein, but this Assignment will be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

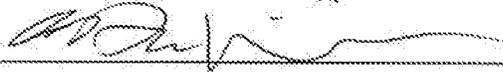
8. **AUTHORITY TO ENTER INTO ASSIGNMENT**

The persons signing this Assignment each warrant and represent that they are duly authorized, with full authority to bind the Parties, and that no signature of any other person or entity is necessary to bind the Parties.

[ASSIGNMENT CONTINUES ON SIGNATURE PAGE]

SAUTC hereby executes this Assignment.

Assignor: Saudi Aramco Upstream Technology Company

Signature:  \_\_\_\_\_

Date: April 26, 2020

Name: Ashraf M. Al-Tahini

Title: Chief Executive Officer

SAO hereby acknowledges and accepts the foregoing assignment.

Assignee: Saudi Arabian Oil Company

Signature: 

Date: April 26, 2020

Name: Kwadjo S. Adusei-Poku

Title: Sr. Counsel, IP Practice Lead

**APPENDIX A**

Country	Application No.	Filing Date	Title	Attorney Docket No.	Client Reference No.
United States	16/745,420	1/17/2020	DELIVERY OF HALOGENS TO SUBTERRANEAN FORMATION	38136-0859001	SA7958 / ASC0408-US01-NP1
United States	16/745,422	1/17/2020	DELIVERY OF HALOGENS TO SUBTERRANEAN FORMATION	38136-0897001	SA71015 / ASC0408-US02-NP2
United States	16/745,426	1/17/2020	DELIVERY OF HALOGENS TO SUBTERRANEAN FORMATION	38136-0898001	SA71016 / ASC0408-US03-NP3
United States	16/745,428	1/17/2020	DELIVERY OF HALOGENS TO SUBTERRANEAN FORMATION	38136-0899001	SA71017 / ASC0408-US04-NP4
United States	16/831,660	3/26/2020	TESTING CEMENT SHEAR BOND STRENGTH AT RESERVOIR CONDITIONS	38136-0886001	SA7997 / ASC0427-US01-P
United States	62/979,234	2/20/2020	CONTROLLED MANUFACTURE AND NANO-LEVEL EVALUATION OF KEROGEN-RICH RESERVOIR ROCK	38136-0875P01	SA7910 / ASC0424-US01-P
United States	16/808,956	3/4/2020	PERFORMING MICROWAVE MEASUREMENTS ON SAMPLES UNDER CONFINING PRESSURE USING COAXIAL RESONATORS	38136-0995001	SA71163 / ASC0418-US01-P
United States	16/809,464	3/4/2020	SYSTEMS AND METHODS FOR DETERMINING MUD WEIGHT WINDOW DURING WELLBORE DRILLING	38136-0810001	SA7886 / ASC0402-US01-NP