

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT6537501

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	ARAMCO SERVICES COMPANY	06/10/2020
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	SAUDI ARAMCO UPSTREAM TECHNOLOGY 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: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	17117689
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(617)502-5002	
<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>	617-248-5000	
<b>Email:</b>	PatentDocket@choate.com	
<b>Correspondent Name:</b>	CHOATE HALL & STEWART LLP-PATENT DOCKET	
<b>Address Line 1:</b>	TWO INTERNATIONAL PLACE	
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110	
<b>ATTORNEY DOCKET NUMBER:</b>	2012737-0066	
<b>NAME OF SUBMITTER:</b>	MICHAEL D. SCHMITT	
<b>SIGNATURE:</b>	/Michael Schmitt/	
<b>DATE SIGNED:</b>	02/05/2021	
<b>Total Attachments: 5</b>		
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**ASSIGNMENT**

This Intellectual Property Assignment ("Assignment") is made by **Aramco Services Company** (hereinafter "ASSIGNOR"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at **1200 Smith Street, Two Allen Building, Houston, Texas 77002, USA**, in favor of **Saudi Aramco Upstream Technology Company** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Kingdom of Saudi Arabia, and having a usual place of business at **1 Eastern Avenue, Dhahran 31311, SAUDI ARABIA**, together recognized as "PARTIES";

WHEREAS, the PARTIES previously executed a Research Services Agreement, dated as of January 1, 2017, and a Research License Agreement, dated as of January 1, 2017, in which the PARTIES agreed that ASSIGNOR shall assign intellectual property to ASSIGNEE;

WHEREAS, ASSIGNOR is the owner by assignment of patent(s), patent application(s) and the invention(s) listed on Schedule A, including the rights in and to any provisionals, continuations, divisionals, reissues or re-examinations, the corresponding foreign patent applications and foreign patents arising out of the aforementioned patent(s) and patent application(s), any future patents related thereto, in whole or in part, or issuing therefrom, and any and all inventions described and/or claimed in said patent(s) and patent application(s) (referred to collectively hereinafter as the "PATENT RIGHTS"), and

WHEREAS, ASSIGNEE desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby mutually acknowledged, ASSIGNOR has sold, assigned, and transferred and/or by these presents does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the inventions described and/or claimed in said PATENT RIGHTS, together with ASSIGNOR's entire right, title and interest in and to the patent application(s) as noted above and such other patent(s) as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said patent(s) and patent application(s); said invention(s), patent application(s) and patent(s) to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made; ASSIGNOR hereby conveys all of its rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment;

AND, ASSIGNOR hereby acknowledges that this assignment, being of its entire right, title and interest in and to said inventions, patent application(s) and patent(s), carries with it the right in ASSIGNEE to apply for an obtain from competent authorities in all countries of the

world any and all patents by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all patents to ASSIGNEE in its own name as assignee of ASSIGNOR's entire right, title and interest therein;

AND, ASSIGNOR hereby further agrees for itself and its successors, assigns, agents, and legal representatives to provide statements or testimony in any interference or proceeding in which said patent(s) or patent application(s) or inventions directed thereto may be involved; to communicate to ASSIGNEE, its successors, assigns and legal representatives, any facts known to ASSIGNOR regarding said inventions, and to testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid inventions to ASSIGNEE, its successors, assignees, and legal representatives, including the execution of non-provisional, continuation, divisional, reissue, reexamination, extension, substitution, or corresponding foreign or international patent applications, and generally do everything possible to aid ASSIGNEE, its successors, assigns and legal representatives, to obtain, record and enforce full protection for the inventions in all countries, but in each instance at ASSIGNEE's reasonable expense;

AND, ASSIGNOR does hereby authorize ASSIGNEE or its attorneys or agents to insert the correct application number(s) and/or filing date(s) into this assignment document, if appropriate;

AND, ASSIGNOR does hereby authorize and request the Director of the United States Patent and Trademark Office and any officials of any country or countries other than the United States, whose duty is to issue patents or other forms of industrial property protection, to issue the same as shall be granted upon any application relating to said PATENT RIGHTS to ASSIGNEE, its successors, assigns, or legal representatives;

AND, ASSIGNOR covenants and agrees that it has full right to convey the entire right, title, and interest assigned, and it has not executed and will not execute any agreement in conflict herewith;

**IN TESTIMONY WHEREOF**, ASSIGNOR and ASSIGNEE by their duly authorized representative acting on their own free will have caused this instrument to be duly executed and have hereunto set his hand and affixed our seal on the dates set forth below.

The undersigned (whose title is supplied below) is authorized to act on behalf of  
**Aramco Services Company**

Signature: Jeffrey L. O'Maley Date: 6-10-2020  
Name (printed): Bobby J. Horton JEFFREY L. O'Maley  
Title (printed): General Counsel and Corporate Secretary Senior Counsel

Docket No. 2012737-0066  
(SA 2145)

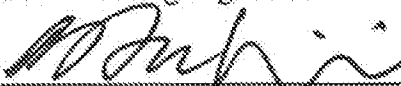
**POWER OF ATTORNEY AND ACCEPTANCE BY ASSIGNEE**

I hereby appoint the attorneys associated with United States Patent & Trademark Office Customer Number 148219 (as that term is used in 37 C.F.R. 1.32(a)(5)) as my/our attorneys for the purpose of accepting assignments in any jurisdiction in which acceptance by **Saudi Aramco Upstream Technology Company** as ASSIGNEE is necessary or desirable. I also hereby authorize the attorneys associated with Customer Number 148219 to insert any information necessary or desirable to identify the subject matter of the assignment into this Acceptance by Assignee (including, but not limited to, docket number, SA reference and/or application number). I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that (check all that apply):

☒ I am an officer of the above-identified ASSIGNEE,

☒ I have signed this document on behalf of ASSIGNEE with the full authority of its board of directors,

and that all of the foregoing is true and correct.

SIGNATURE:  DATE: October 9, 2019

NAME: Ashraf M. Tahini  
TITLE: Chief Executive Officer  
COMPANY: Saudi Aramco Upstream Technology Company

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I am an attorney associated with Customer Number 148219; and, based on the foregoing Power of Attorney, I hereby accept this assignment on behalf of **Saudi Aramco Upstream Technology Company** as ASSIGNEE.

SIGNATURE: /Charles E. Lyon/ DATE: February 4, 2021

NAME: Charles E. Lyon, DPhil, JD  
USPTO REG. NO.: 56,630

SCHEDULE A

Reference No.	Application No.	Filing Date	Title
SA2146/ASC0430PR1	62/930,805	05-Nov-2019	LEAF CELL SENSOR
SA2145/ASC0428-US01-P	62/946,363	10-Dec-2019	ELECTROMAGNETIC METAMATERIAL CELLS, DETECTORS COMPRISING THE SAME, AND METHODS OF THEIR USE