504833756 03/23/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SEUNG-HAK CHOI	03/17/2018
SARAH N. ALMAHFOODH	03/16/2018
SEBASTIEN A. DUVAL	03/15/2018
ABDULAZIZ Y. AMMAR	03/15/2018

RECEIVING PARTY DATA

Name:	SAUDI ARABIAN OIL COMPANY
Street Address:	1 EASTERN AVENUE
City:	DHAHRAN
State/Country:	SAUDI ARABIA
Postal Code:	31311

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15921228

CORRESPONDENCE DATA

Fax Number: (914)288-0023

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.

Phone: 9142880022

Email: uspto@leasonellis.com
Correspondent Name: LEASON ELLIS LLP
Address Line 1: ONE BARKER AVENUE

Address Line 2: FIFTH FLOOR

Address Line 4: WHITE PLAINS, NEW YORK 10601

ATTORNEY DOCKET NUMBER:	00501/006244-US0
NAME OF SUBMITTER:	DAVID LEASON
SIGNATURE:	/david leason/
DATE SIGNED:	03/23/2018

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> PATENT REEL: 045323 FRAME: 0916

ASSIGNMENT

- I, Seung-Hak Choi, having a residence of Dhahran, Saudi Arabia;
- I. Sarah N. Almahfoodh., having a residence of Dhahran, Saudi Arabia;
- I, Sebastien A. Duval, having a residence of Dhahran, Saudi Arabia; and
- 1. Abdulaziz Y. Ammar, having a residence of Dhahran, Saudi Arabia;

(hereinafter "ASSIGNORS") in consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, paid to ASSIGNORS by

Saudi Arabian Oil Company

a Corporation having a place of business at 1 Eastern Avenue, Dhahran 31311, Saudi Arabia (hereinafter "ASSIGNEE"), have sold and assigned and do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, throughout the world in and to my invention entitled:

MEMBRANE CONTACTOR

invented by me and described in U.S. Patent Application No. 15/921,228, filed March 14. 2018, in the United States of America; and all patents, divisions, reissues, continuations and any extensions thereof and rights of priority therein, said interest being my entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made, including all rights of Assignor to recover for past infringement thereof;

And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said

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PATENT REEL: 045323 FRAME: 0917 Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

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 have signed this document as my own free act and that all of the foregoing is true and correct.

Signature of Inventor:	Seung-Hak Choi	<u> </u>
	ornog-man Coon	2.7440
Signature of Inventor:	S.A	March 16th, 2018
	Saroh N. Almohfwith	Nate

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Saudi Aramco Docket No. SA498 Attorney Docket No. 00501/006244-US0

Signature of Inventor:	5. 0-1	Tal 6, 2018
	Schastien A. Duval	Date
Signature of Inventor:		March 15, 2018
	Abdalaziz V. Ammar	Desta

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Saudi Aramco Docket No. SA498 Attorney Docket No. 00501/006244-US0

ACCEPTANCE BY ASSIGNEE

In connection with an assignment in any jurisdiction in which an acceptance by ASSIGNEE is required, I hereby accept this assignment on behalf of **Saudi Arabian Oil 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 (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 the foregoing is true and correct.

Dated: March 23, 2018 By:

Name: Melton E. Knotts

Title: Assistant Corporate Secretary

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RECORDED: 03/23/2018