

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5418586

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NAMES OF THE INVENTORS previously recorded on Reel 048495 Frame 0361. Assignor(s) hereby confirms the INCLUSION OF INVENTOR ALI AL-YOUSEF TO THE ASSIGNMENT.										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>SUBHASH C. AYIRALA</td><td>02/26/2019</td></tr><tr><td>AMMAR ALSHEHRI</td><td>02/26/2019</td></tr><tr><td>SULTAN ENEZI</td><td>02/26/2019</td></tr><tr><td>ALI AL-YOUSEF</td><td>02/28/2019</td></tr></tbody></table>	Name	Execution Date	SUBHASH C. AYIRALA	02/26/2019	AMMAR ALSHEHRI	02/26/2019	SULTAN ENEZI	02/26/2019	ALI AL-YOUSEF	02/28/2019	
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<table border="1"><tr><td>Name:</td><td>SAUDI ARABIAN OIL COMPANY</td></tr><tr><td>Street Address:</td><td>1 EASTERN AVENUE</td></tr><tr><td>City:</td><td>DHAHRAN</td></tr><tr><td>State/Country:</td><td>SAUDI ARABIA</td></tr><tr><td>Postal Code:</td><td>31311</td></tr></table>	Name:	SAUDI ARABIAN OIL COMPANY	Street Address:	1 EASTERN AVENUE	City:	DHAHRAN	State/Country:	SAUDI ARABIA	Postal Code:	31311	
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Application Number:	16291789										
CORRESPONDENCE DATA											
Fax Number:	(800)404-3970										
<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>											
Email:	docketing@bracewell.com										
Correspondent Name:	BRACEWELL LLP										
Address Line 1:	PO BOX 61389										
Address Line 4:	HOUSTON, TEXAS 77208-1389										
ATTORNEY DOCKET NUMBER:	0004159.051006										
NAME OF SUBMITTER:	BRIAN H. TOMPKINS										
SIGNATURE:	/Brian H. Tompkins/										
DATE SIGNED:	03/13/2019										
Total Attachments: 7											
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

Stylesheet Version v1.2

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PATENT**REEL: 048581 FRAME: 0609**

3/4/2019, 3:55 PM

Fax Number: (800)404-3970
Email: docketing@bracewell.com
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.
Correspondent Name: BRACEWELL LLP
Address Line 1: P.O. BOX 61389
Address Line 4: HOUSTON, TEXAS 77208-1389

**ATTORNEY DOCKET
NUMBER:**

0004159.051006

NAME OF SUBMITTER:

BRIAN H. TOMPKINS

Signature:

/Brian H. Tompkins/

Date:

03/04/2019

Total Attachments: 5

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RECEIPT INFORMATION**EPAS ID:** PAT5403363**Receipt Date:** 03/04/2019

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ASSIGNMENT

WHEREAS, WE, **Subhash C. Ayirala**, a citizen of the United States of America, **Ammar AlShehri**, a citizen of Saudi Arabia, **Sultan Enezi**, a citizen of Saudi Arabia and **Ali Al-Yousef**, a citizen of Saudi Arabia are co-inventors of **TAILORED INJECTION WATER SLUG DESIGNS FOR ENHANCED OIL RECOVERY IN CARBONATES**, for which an application for United States Letters Patent was filed on March 4, 2019 and assigned U.S. Serial No. 16/291,789; and

WHEREAS, Saudi Arabian Oil Company, a Company with Limited Liability of Saudi Arabia, with a business address of 1 Eastern Avenue, Dhahran 31311, Saudi Arabia, hereafter "SAUDI ARAMCO," is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

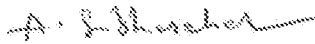
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by SAUDI ARAMCO and for other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer and set over to SAUDI ARAMCO, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, reexaminations and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by them for their own use and benefit, and for the use and benefit of their successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted, reexamined or reissued, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to SAUDI ARAMCO, as assignee of my entire interest, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith.

And I further hereby covenant and agree that I will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to SAUDI ARAMCO, its successors, assigns, or other legal representatives and that if SAUDI ARAMCO shall desire to file any divisional or continuation applications or to secure a reexamination or reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

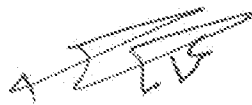
And I do further covenant and agree that I will, at any time upon request, communicate to SAUDI ARAMCO, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 26 day of February, 2019



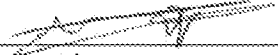
Subhash C. Ayirala

EXECUTED THIS 26 day of February, 2019.

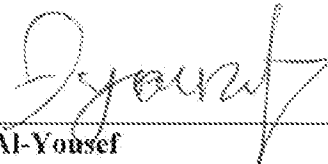
A handwritten signature in black ink, appearing to read 'A. AlShehri', written over a horizontal line.

Ammar AlShehri

EXECUTED THIS 26 day of Feb., 19.


Sultan Enezi

EXECUTED THIS 28 day of Feb., 2019



Ali Al-Yousef