

## 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>
AYMAN R. AL-NAKHLI	05/04/2015
HAZIM H. ABASS	05/02/2015
VICTOR V. HILAB	05/04/2015
MIRAJUDDIN R. KHAN	05/04/2015
AHMAD S. AL-OTAIBI	05/04/2015
<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: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14689874
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)221-3291
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<b>Address Line 1:</b>	P.O. BOX 61389
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<b>ATTORNEY DOCKET NUMBER:</b>	004159.005309 (SA5309)
<b>NAME OF SUBMITTER:</b>	CONSTANCE G. RHEBERGEN
<b>SIGNATURE:</b>	/Constance G. Rhebergen/
<b>DATE SIGNED:</b>	05/07/2015
<b>Total Attachments: 6</b>	
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**PATENT**

**REEL: 035589 FRAME: 0853**

## ASSIGNMENT

WHEREAS, we, AYMAN R. AL-NAKHLI, a citizen of Saudi Arabia, HAZIM H. ABASS, a citizen of the United States of America, VICTOR V. HILAB, a citizen of the Republic of the Philippines, MIRAJUDDIN R. KHAN, a citizen of Pakistan, and AHMAD S. AL-OTAIBI, a citizen of Saudi Arabia, are the sole inventors of CHEMICALLY-INDUCED PULSED FRACTURING METHOD, for which an application for United States Letters was filed on April 17, 2015, as U.S. Non-Provisional Application No. 14/689,874; 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;

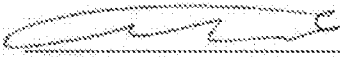
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by SAUDI ARAMCO and for other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer and set over to SAUDI ARAMCO, all right, title and interest in and 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 our 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 me, 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 4 day of May, 2015.

  
AYMAN R. AL-NAKHLI

EXECUTED THIS 2 day of May, 2015.

*Hazim H. Abass*

HAZIM H. ABASS

EXECUTED THIS 4 day of May, 2015.

Vic Hilab  
VICTOR V. HILAB

EXECUTED THIS 04 day of May, 2015.

  
MIRAJUDDIN R. KHAN

EXECUTED THIS 4 day of May, 2015.

  
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AHMAD S. AL-OTAIBI