

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT6012548

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ARAMCO SERVICES COMPANY	04/04/2016
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:	16816058
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<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>	
Phone:	(612) 335-5070
Email:	matteo@fr.com, apsi@fr.com
Correspondent Name:	ROBERT A. GERHART
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	38136-0165002
NAME OF SUBMITTER:	KIRSTIN MATTEO
SIGNATURE:	/kirstin matteo/
DATE SIGNED:	03/13/2020
Total Attachments: 4	
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**INTELLECTUAL PROPERTY ASSIGNMENT
FROM ARAMCO SERVICES COMPANY
TO SAUDI ARABIAN OIL COMPANY**

This Intellectual Property Assignment ("**Assignment**"), dated as of April 1, 2016, is made by Aramco Services Company, a Delaware corporation, having offices at 9009 West Loop South, Houston, Texas 77096-1719 ("**Assignor**"), in favor of Saudi Arabian Oil Company, a company with limited liability, duly organized and existing under the laws of the Kingdom of Saudi Arabia and established by Royal Decree M/8 dated 4/4/1409 H. ("**Assignee**") together recognized as "**Parties**".

RECITALS

WHEREAS, the parties previously executed an Intellectual Property Assignment, dated as of April 13, 2015, in which the Parties agreed that Assignor shall continue to assign intellectual property to Assignee on a quarterly basis; and

WHEREAS, Assignor is the present owner of the rights, title and interest in the invention disclosures, patents and patent applications set forth in the attached Schedule A (the "**Intellectual Property**") as of April 1, 2016;

NOW, for good and valuable consideration, the receipt and sufficiency of which is acknowledged, the Parties agree as follows:

1. Assignment of Intellectual Property. Assignor assigns to Assignee all of its rights, title and interest in and to the Intellectual Property, including, but not limited to:

(a) the right to make, use and sell the inventions associated with the Intellectual Property;

(b) the right to take all legal actions on account of past, present and future infringement of the Intellectual Property;

(c) the right to conduct and control all protection activities associated with the Intellectual Property as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made, including for example: the filing and prosecution of any and all patent applications, including divisions, continuations, and continuations-in-part of existing applications assigned by this Assignment; reexaminations, reissues or other administrative proceedings; and the payment of issuance and maintenance fees; and

(d) any and all rights and obligations held by the Assignor arising under the Assignment in relation to the Intellectual Property.

2. Further Assurances. Assignor hereby covenants and agrees that it will at any time, upon the request and at the expense of Assignee but without further compensation, cooperate with Assignee in the protection of the Intellectual Property, including: all lawful acts that may be necessary to perfect the title to the Intellectual Property, such as the execution and delivery of

formal documents; cooperate with Assignee in the enforcement or licensing of the Intellectual Property, including in any interference, reexamination, or other litigation; communicate to Assignee, its successors and assigns, any facts known respecting the Intellectual Property and its history, and generally do everything possible which the Assignee shall consider desirable for vesting title to improvements in the Intellectual Property.


3. Warranties. Assignor hereby warrants that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the Assignor, and that the full right to convey the same as herein expressed is possessed by the Assignor, to the extent set forth in Schedule A.

IN WITNESS WHEREOF, the Parties have executed this Assignment as of April 1, 2016.

ARAMCO SERVICES COMPANY

By: 
Basil A. Abul-Hamayel
President

SAUDI ARABIAN OIL COMPANY

By: 
Ahmad Khowaiter
Chief Technology Officer

**Intellectual Property Assignment
from Aramco Services Company to Saudi Arabian Oil Company**

**Schedule A
April 1, 2016**

Title	ASC Docket Number	SAO Docket Number	Application Date	Application Number	Inventors
Simulation Method to Optimize Hydraulic Fracturing in Kerogen-rich Unconventional Formations	ASC0092	SA7157			Yanhui Han (ASC) Leiming Li (ASC) Younane Abousleiman (ASC) Ghailban Al-Mutasheri (ASC) David Jacobi (ASC) Katherine Huff (ASC)
Mesoporous Zeolite Beta Templated with Crystalline Nanocellulose Emulsifiers for Invert Emulsion Drilling Fluids	ASC0104	SA5536			Tatiana Pilyugina (ASC)
Remedial Aqueous Resin compositions for Sealing off Flow Channels Bound by Set Portland Cement at Least on one Side and Methods of Using the Same	ASC0107				Matthew Gary Hilfger (ASC) Carl Thaemnitz (ASC)
Real Time Multi-physics Detection of Multimodal Tracers	ASC0106				B.Raghava Reddy (ASC) Matthew Gary Hilfger (ASC)
Real Time Multi-physics Detection of Multimodal Tracers	ASC0109	SA7153			Jason R. Cox (ASC) Martin Poitzsch (ASC) Shannon Eichelmann (ASC) Wei Wang (ASC) Hooisweng Ow (ASC) Sehoon Chang (ASC) Rena Shi (ASC) David Jung (ASC) Ayrat Gizzatov (ASC) Mohammad Haque (ASC) Anthony Kmetz (ASC) Hsieh Chen (ASC)

Low-Phosphorous Gelled Hydrocarbon Well Treatment Fluids	ASC0117	SA6063	Leiming Li (ASC) Ghaithan Al-Muntasheri (ASC) Feng Liang (ASC) Schmus Ozden (ASC)
Enhancements of Gelled Hydrocarbon System	ASC0119	SA6060	Schmus Ozden (ASC) Leiming Li (ASC) Ghaithan Al-Muntasheri (ASC) Feng Liang (ASC)
High Performance Brine Viscosifier	ASC0133	SA5537	Peter J. Boul (ASC)
Water Injection for Performance Enhancement of Spark-ignition Engines with Onboard Reforming Systems	ASC0138	SA3076	Alexander Karl Voice (ASC) Vincent Costanzo (ASC)
Controlling Gels Times of Remedial Aqueous Resin Compositions for Sealing off Flow Channels	ASC0148		B. Raghava Reddy (ASC) Matthew Gary Hillfiger (ASC)
Aminosiloxane as Effective Crosslinkers for Water-based Sealing Compositions Comprising Ethylene/Maleic Anhydride/Maleic Acid/Maleamic Acid Tetrapolymer Gels	ASC0150		B. Raghava Reddy (ASC) Matthew Gary Hillfiger (ASC)