

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAMEEH ISSA BATARSEH	11/17/2019
WISAM JAMAL ASSIRI	11/17/2019
ABDULLAH M. AL-HARITH	11/17/2019
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:	16439405
CORRESPONDENCE DATA	
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<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>	
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ATTORNEY DOCKET NUMBER:	2012738-0130
NAME OF SUBMITTER:	ALEXANDER D. AUGST
SIGNATURE:	/Alexander D. Augst/
DATE SIGNED:	11/18/2019
Total Attachments: 8	
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COMBINED JOINT ASSIGNMENT & DECLARATION

A. ASSIGNMENT

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. Sameeh Issa Batarseh	Dhahran, Saudi Arabia
2. Wisam Jamal Assiri	Dhahran, Saudi Arabia
3. Abdullah M. Al-Harith	Dhahran, Saudi Arabia

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

**HYBRID PHOTONIC-PULSED FRACTURING TOOL AND RELATED METHODS;
and**

☐ prepared for filing in the United States Patent and Trademark Office; or

☒ identified by United States Application No. 16/439405
filed in the United States Patent and Trademark Office on June 12, 2019; and

☐ identified by International Patent Application No. _____
filed on _____; and

☐ and is also aware of the following priority applications:

Application No.	Filed

WHEREAS, **Saudi Arabian Oil Company** (hereinafter "ASSIGNEE"), having a usual place of business at **1 Eastern Avenue, Dhahran 31311, SAUDI ARABIA**, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, each of us has sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout

the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above, including any right of priority thereto; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. Our sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including any divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use 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 each of us had this sale, assignment and transfer not been made;

AND, each of us hereby acknowledges that this Assignment, being of our entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

AND, each of us hereby further agrees for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts we know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

AND, each of us further hereby authorizes 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, each of us hereby appoints ASSIGNEE as our common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, each of us hereby requests the Commissioner for Patents of the United States Patent and Trademark Office to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, each of us covenants with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

B. DECLARATION (37 CFR 1.63)

As below named inventors, we hereby declare that:

This declaration is directed to the patent application entitled:

HYBRID PHOTONIC-PULSED FRACTURING TOOL AND RELATED METHODS; and

☐ attached hereto or prepared for filing in the United States Patent and Trademark Office; or

☒ identified by United States Application No. 16/439405
filed in the United States Patent and Trademark Office on June 12, 2019; or

☐ identified by International Patent Application No. _____
filed on _____.

The above-identified application was made or authorized to be made by us.

We believe that we are each an original joint inventor of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

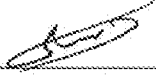
We have reviewed and understand the contents of the application, including the claims and are aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

Signature: 
Sameeh Issa Batarsch

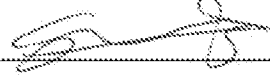
Date: 11/17/2017

Witness Signature: 

Witness Name (printed): Wisam Assiri

Signature: 
Wisam Jamal Assiri

Date: 11/17/19

Witness Signature: 
Witness Name (printed): Jameeh Baturseh

Signature: Abdullah M. Al-Harith
Abdullah M. Al-Harith

Date: 11/17/2019

Witness Signature: [Signature]
Witness Name (printed): Sameeh Batarsoh

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 Arabian Oil 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: November 1, 2018

NAME: Aaron K. Adkins
TITLE: Assistant Corporate Secretary
COMPANY: 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 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 Arabian Oil Company** as ASSIGNEE.

SIGNATURE: /Charles E. Lyon/ DATE: November 18, 2019

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

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