PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KAREEMUDDIN SHAIK	07/18/2018
LIANHUI DING	07/18/2018
MAZIN TAMIMI	07/18/2018
IBRAHIM ABBA	08/08/2018
ABDENNOUR BOURANE	08/08/2018

RECEIVING PARTY DATA

Name:	SAUDI ARABIAN OIL COMPANY
Street Address:	P.O. BOX 5000
City:	DHAHRAN
State/Country:	SAUDI ARABIA
Postal Code:	31311

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16036260

CORRESPONDENCE DATA

Fax Number: (937)449-6405

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.

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Email:daytonipdocket@dinsmore.comCorrespondent Name:DINSMORE & SHOHL LLP

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Address Line 2: SUITE 1300

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Total Attackments C	
DATE SIGNED:	08/09/2018
SIGNATURE:	/Theresa Oldfield/
NAME OF SUBMITTER:	THERESA OLDFIELD
ATTORNEY DOCKET NUMBER:	SA6159/SA 6159 PA1

Total Attachments: 6

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ASSIGNMENT

WHEREAS, we, **Kareemuddin Shaik**, of Dhahran, Saudi Arabia, **Lianhui Ding** of Dhahran, Saudi Arabia, **Mazin Tamimi** of Dhahran, Saudi Arabia, **Ibrahim Abba** of Dhahran, Saudi Arabia and **Abdennour Bourane** of Dhahran, Saudi Arabia hereinafter called the *ASSIGNORS*, invented certain new and useful SYSTEMS AND METHODS FOR PROCESSING HEAVY OILS BY OIL UPGRADING FOLLOWED BY STEAM CRACKING, for which the *ASSIGNORS* executed a United States Non-Provisional Patent Application, filed on July 16, 2018, under

Patent Application Seri	al No.:	16/036,260	;
Attorney Docket No.:	SA6159	/ SA 6159 PA1	

WHEREAS, the ASSIGNORS hereby authorize and request the attorney(s) and/or agent(s) recording the present assignment, to insert above the filing date and application number of said application, when known;

WHEREAS, Saudi Arabian Oil Company, a corporation of Saudi Arabia, with a place of business at P.O. Box 5000, Dhahran 31311, Kingdom of Saudi Arabia, hereinafter called the *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in and to said application and the inventions therein disclosed and any letters patent that may issue thereon;

AND, WHEREAS, it is the intent of the ASSIGNORS to assign all rights, including but not limited to all substantive rights as well as the (future) right to claim priority and the right to be granted a patent in any and all PCT Contracting States to the above referenced application to the Assignee;

NOW, THEREFORE, in consideration of the sum of One Dollar (US \$1.00) or other good and valuable consideration, the receipt of which is hereby acknowledged, *ASSIGNORS* hereby sell, assign and transfer unto said *ASSIGNEE*, its successors and assigns, the entire right, title and interest, including the right to sue for past infringement, if any, and the right to claim priority, in and to said application, the inventions therein disclosed, and any improvements thereon, and in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possession, in any and all foreign countries, including without limit all PCT Contracting States, all GCC Member States, and in and to any and all divisions, continuations, substitutions, renewals, re-examination, extension and reissues thereof, and any other applications claiming priority thereto;

ASSIGNORS hereby authorize and request the Patent Office Officials in the United States and its territorial possessions, and in any and all foreign countries, to issue, when granted, any and all Letters Patents thereon, and reissues thereof, to said ASSIGNEE as the assignee of the entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE and said ASSIGNEE's successors and assigns, to the full end of the term for

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which said Letters Patents may be granted, as fully and entirely as the same would have been held by ASSIGNORS had this assignment and sale not been made; and

ASSIGNORS hereby authorize said ASSIGNEE, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, and to secure in its own name the patent or patents issued thereon; and

ASSIGNORS hereby does agree that, upon request, ASSIGNORS will sign all papers, and make all rightful oaths, and do all acts which said ASSIGNEE, its successors or assigns, may consider necessary in connection with said United States application, and in connection with any other United States or foreign applications that may be filed in connection with said inventions, and with any improvements thereon, and in connection with any patents issued or reissued thereon.

ASSIGNORS:

IN WITNESS WHEREOF, the ASSIGNORS have hereunto set his hand and seal.

Inventor 1: Ka	Inventor 1: Kareemuddin Shaik	
Signed:	Smitkare	
Printed Name:	KAREEMUDDIN SHALK	
Date:	07/18/18	
Witness:		
Signed:	Simon Leg	
Printed Name:	SIMBNE LESS	
Title:	SCIENTIST	

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inventor 2: Liv	mnui Ding
Signed:	25
Printed Name:	Lianhui Ding
Date:	7/18/2018
Witness:	
Signed:	Mars Justin
Printed Name:	ALBERTO SOLANO
Title:	SR LAB SCIENTIST
Inventor 3: M	azin Tamimi
Signed:	
Printed Name:	
Date:	
Witness:	
Signed:	
The second of Torrespond	

Title:

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Signed:	
Printed Name:	
Date:	
Witness:	
Signed:	
Printed Name:	
Title:	

Inventor 3: Ma	azin Tamimi
Signed:	Mary San
Printed Name:	MAZIN TAMMI
Date:	7-18-2018
Witness:	
Signed:	I brake
Printed Name:	Ibrahim Al-Nutaif;
	EngineerII

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Inventor 4: Ibrahim Abba		
Signed:	Aleujumu	
Printed Name:	Mahin Abba	
Date:	8.8.18	
Witness:	第二章	
Signed:		
Printed Name:	Abdullah Acmalt	
Title:	Townkeds	
Inventor 4: Abdennour Bourane		
Signed:	<u>057</u>	
Printed Name:	Abdennan Bougative	
Date:	08/08/2018	
Witness:		
Signed:	Photol Pahman AKHRK	
Printed Name:	Abdul Rahman AKHRAS	
Title:	8/8/218	

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Acceptance of Assignment

WHEREAS, from time to time, ASSIGNORS named as inventors in particular United States Patent Applications filed on behalf of the Saudi Arabian Oil Company, a corporation of Saudi Arabia, with a place of business at P.O. Box 5000, Dhahran 31311, Kingdom of Saudi Arabia, hereinafter called the ASSIGNEE, including those inventors named in the ASSIGNMENT attached hereto, will assign particular rights in the patent application, and related patent applications, to the ASSIGNEE;

WHEREAS, the ASSIGNEE hereby authorizes and requests the attorneys and/or agents recording the aforementioned ASSIGNMENT, to insert the application number, filing date, and attorney docket number of the patent application that is the subject of the aforementioned ASSIGNMENT, below;

Application Data:	
Application Number:	16/036,260
Filing Date:	07/16/2018
Attorney Docket No:	SA6159/SA 6159 PA1

AND, WHEREAS, ASSIGNEE hereby accepts and receives the aforementioned ASSIGNMENT upon execution by ASSIGNOR, which execution may precede or follow ASSIGNEE'S execution below:

Assignee:	
Signed:	
Printed Name:	Melton E. Knotts
Title:	Assistant Corporate Secretary
Date:	February 11, 2018
Witness:	
Signed:	Chemielage Sures
Printed Name:	Laurie Paige Burns
Title:	Paralegal
Date:	February 11, 2018

RECORDED: 08/09/2018