

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4745986

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JUNSEOK CHANG	12/21/2017
JAEHEON SIM	12/21/2017
SEUNG-HAK CHOI	12/21/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAUDI ARABIAN OIL COMPANY
<b>Street Address:</b>	P.O. BOX 5000
<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>	15475383
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	SA 6122 PA/77097-6122
<b>NAME OF SUBMITTER:</b>	KATHERINE GHEARING
<b>SIGNATURE:</b>	/Katherine Ghearing/
<b>DATE SIGNED:</b>	12/21/2017
<b>Total Attachments: 3</b>	
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## ASSIGNMENT

WHEREAS, we, **Junseok Chang**, of Dhahran, Saudi Arabia, **Jacheon Sim** of Dhahran, Saudi Arabia and **Seung-Hak Choi**, of Dhahran, Saudi Arabia hereinafter called the *ASSIGNORS*, invented certain new and useful NITROGEN ENRICHED AIR SUPPLY FOR GASOLINE COMPRESSION IGNITION COMBUSTION, for which the *ASSIGNORS* executed a United States Non-Provisional Patent Application, filed on March 31, 2017, under

Patent Application Serial No.: 15,475,383 ;  
Attorney Docket No.: SA 6122 PA/77097-6122 ;

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 North Park 1, 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 which said Letters Patents may be granted, as fully and entirely as the same would have been

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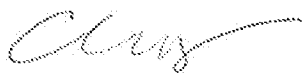
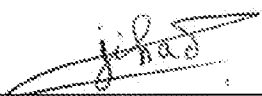
held by *ASSIGNORS* had this assignment and sale not been made; and

*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

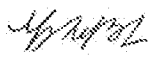
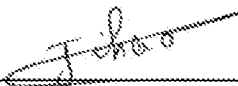
*ASSIGNORS* hereby do agree that, upon request, *ASSIGNORS* will sign all papers, and make all rightful oaths, and do all acts which said *ASSIGNEE*, its successors or assigns, may consider necessary in connection with said United States application, and in connection with any other United States or 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.

<b><i>Inventor 1: Junseok Chang</i></b>	
Signed:	
Printed Name:	JUNSEOK CHANG
Date:	Dec. 21st 2017
<b><i>Witness:</i></b>	
Signed:	
Printed Name:	J I HAD BADRA
Title:	Lab. Scientist
Date:	12/21/2017

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<b>Inventor 2: Jaehoon Sim</b>	
Signed:	
Printed Name:	JAEHEON SIM
Date:	Dec. 21, 2017
<b>Witness:</b>	
Signed:	
Printed Name:	Jihad Badra
Title:	Lab. Scientist
Date:	12/21/2017

<b>Inventor 3: Seung-Hak Choi</b>	
Signed:	
Printed Name:	SEUNG-HAK CHOI
Date:	21 / Dec. / 2017
<b>Witness:</b>	
Signed:	
Printed Name:	Abdulrahman Ali Alswaidan
Title:	Lab TEC
Date:	21 / Dec / 2017

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