

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>IL-DOO KIM</td><td>09/11/2015</td></tr><tr><td>SANG-JOON KIM</td><td>09/11/2015</td></tr><tr><td>SEON-JIN CHOI</td><td>09/11/2015</td></tr></tbody></table>	Name	Execution Date	IL-DOO KIM	09/11/2015	SANG-JOON KIM	09/11/2015	SEON-JIN CHOI	09/11/2015	
Name	Execution Date								
IL-DOO KIM	09/11/2015								
SANG-JOON KIM	09/11/2015								
SEON-JIN CHOI	09/11/2015								
RECEIVING PARTY DATA									
Name:	KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY								
Street Address:	291 DAEHAK-RO								
Internal Address:	YUSEONG-GU								
City:	DAEJEON								
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF								
Postal Code:	34141								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>14855975</td></tr></tbody></table>	Property Type	Number	Application Number:	14855975					
Property Type	Number								
Application Number:	14855975								
CORRESPONDENCE DATA									
Fax Number:	(202)772-5858								
<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:	202-772-5800								
Email:	mlewis@blankrome.com								
Correspondent Name:	BLANK ROME LLP								
Address Line 1:	600 NEW HAMPSHIRE AVENUE, NW								
Address Line 4:	WASHINGTON, D.C. 20037								
ATTORNEY DOCKET NUMBER:	143271.00104								
NAME OF SUBMITTER:	MICHAEL C. GREENBAUM								
SIGNATURE:	/Michael C. Greenbaum/								
DATE SIGNED:	09/22/2015								
Total Attachments: 2 source=Filing#page1.tif source=Filing#page2.tif									

ASSIGNMENT

- Insert Name(s)
of inventor(s)
- (1) II Doo KIM
 - (2) Sang Joon KIM
 - (3) Seon Jin CHOI

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the said assignors have sold, assigned, transferred and set over, and by these presents do sell assign, transfer and set over, unto the assignee,

Insert Name of Assignee
Korea Advanced Institute of Science and Technology

Insert Address of Assignee
291 Daehak-ro
Yuseong-gu Daejeon 34141
Republic of Korea

(hereinafter designated as the Assignee) the entire right, title and interest in the invention for patent in the United States of America

Insert
GAS SENSOR AND MEMBER USING METAL OXIDE SEMICONDUCTOR NANOFIBERS INCLUDING NANOPARTICLE CATALYST FUNCTIONALIZED BY BIFUNCTIONAL NANO-CATALYST INCLUDED WITHIN APOFERRITIN, AND MANUFACTURING METHOD THEREOF

Identification of Invention, such as Title, Case # or For. Appl. No.
14/855,975

for which the undersigned has filed an application for patent in the United States of America

Insert Date of signing of application
on September 11, 2015

and any and all applications for patent and patents in any and all countries, including all divisions, continuations, reissues, and extensions thereof and all rights of priority resulting from the filing of said United States application.

1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.


3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

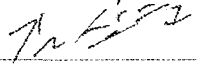
4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.


5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

6) The undersigned hereby grant(s) the firm of BLANK ROME LLP, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Sep. 11, 2015 Signature of Inventor  (seal)
Il-Doo KIM

Date Sep. 11, 2015 Signature of Inventor  (seal)
Sang-Joon KIM

Date Sep. 11, 2015 Signature of Inventor  (seal)
Seon-Jin CHOI

Assignment:101567533_1

PATENT

RECORDED: 09/22/2015

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