

PATENT ASSIGNMENT

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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>Jong Soo Jurng</td> <td>11/20/2012</td> </tr> <tr> <td>Sung Min Chin</td> <td>11/20/2012</td> </tr> <tr> <td>Eun Seuk Park</td> <td>11/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jong Soo Jurng	11/20/2012	Sung Min Chin	11/20/2012	Eun Seuk Park	11/20/2012
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CORRESPONDENCE DATA									
<p>Fax Number: 2023153758 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-429-0020 Email: info@nsiplaw.com Correspondent Name: NSIP LAW Address Line 1: P.O. Box 34688 Address Line 4: Washington, DISTRICT OF COLUMBIA 20043</p>									
ATTORNEY DOCKET NUMBER:	021069.0058								
NAME OF SUBMITTER:	George N. Phillips								
<p>Total Attachments: 2 source=NewApp_0210690058_AssignmentExecuted#page1.tif source=NewApp_0210690058_AssignmentExecuted#page2.tif</p>									

OP \$40.00 13686232

ASSIGNMENT

For valuable consideration, we,

JURNG, Jong Soo	#101-405, Jinheung Apt., HONGEUN-dong, Seodaemun-gu, Seoul, 120-100, Republic of Korea
CHIN, Sung Min	#108-1203, Songsan Jugong 1-Danji Apt., Yonghyeon-dong, Uijeongbu-si, Gyeonggi-do, 480-901, Republic of Korea
PARK, Eun Seuk	3024-202, Geumgwang 2-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do, 462-803, Republic of Korea

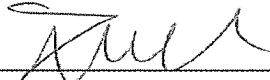
hereby assign to:

KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY, a Republic of Korea corporation/institution/foundation/institute having principal executive office(s) or place of business at: 39-1, Hawolgok-dong, Seongbuk-gu, Seoul, 136-791, Republic of Korea; and


its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of U.S. Patent Application Number 13/686,232 filed November 27, 2012 at the U.S. Patent & Trademark Office signed by us, with title **VANADIA-TITANIA CATALYST FOR REMOVING NITROGEN OXIDES AND METHOD FOR MANUFACTURING THE SAME**, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and application serial number of said application when known; this Assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, preliminary statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

IN TESTIMONY/WITNESS WHEREOF, we, undersigned inventors (Assignors) intending to be legally bound, have hereto affixed our signatures.

This 20th day of Nov., 2012


Signature: JUNG, Jong Soo

This 20 day of Nov, 2012


Signature: CHIN, Sung Min

This 20 day of Nov, 2012


Signature: PARK, Eun Seuk