

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
<b>CONVEYING PARTY DATA</b>																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Seong Ho Lee</td> <td>08/09/2012</td> </tr> <tr> <td>Woo Jin Lee</td> <td>08/06/2012</td> </tr> <tr> <td>Young Eun Cheon</td> <td>08/07/2012</td> </tr> <tr> <td>Seung Hoon Oh</td> <td>08/06/2012</td> </tr> <tr> <td>Sung Hwan Kim</td> <td>08/06/2012</td> </tr> <tr> <td>Hong Seok Jung</td> <td>08/06/2012</td> </tr> <tr> <td>Yong Woo Kim</td> <td>08/06/2012</td> </tr> <tr> <td>Gi Ho Goh</td> <td>08/06/2012</td> </tr> </tbody> </table>		Name	Execution Date	Seong Ho Lee	08/09/2012	Woo Jin Lee	08/06/2012	Young Eun Cheon	08/07/2012	Seung Hoon Oh	08/06/2012	Sung Hwan Kim	08/06/2012	Hong Seok Jung	08/06/2012	Yong Woo Kim	08/06/2012	Gi Ho Goh	08/06/2012
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<b>RECEIVING PARTY DATA</b>																			
Name:	SK Innovation Co., LTD.																		
Street Address:	99, Seorin-dong, Jongno-gu,																		
City:	Seoul																		
State/Country:	KOREA, REPUBLIC OF																		
Postal Code:	110-110																		
<b>PROPERTY NUMBERS Total: 1</b>																			
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13510182</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13510182														
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<b>CORRESPONDENCE DATA</b>																			
Fax Number:	4129455933																		
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
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ATTORNEY DOCKET NUMBER:	5038-121566
NAME OF SUBMITTER:	Richard L. Byrne
Total Attachments: 3 source=566RECORD#page1.tif source=566ASSIGN#page1.tif source=566ASSIGN#page2.tif	

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**  
 Seong Ho LEE            Sung Hwan KIM  
 Woo Jin LEE            Hong Seok JUNG  
 Young Eun CHEON      Yong Woo KIM  
 Seung Hoon OH        Gi Ho GOH

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**  
 Name: SK INNOVATION CO., LTD.  
 Internal Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Street Address: 99, Seorin-dong  
Jongno-gu, Seoul  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_  
 Country: REPUBLIC OF KOREA Zip: 110-110

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**  
 Execution Date(s) August 6, 7, and 9, 2012

Assignment                       Merger  
 Security Agreement             Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

**4. Application or patent number(s):**                       This document is being filed together with a new application.

A. Patent Application No.(s)                      B. Patent No.(s)  
13/510,182

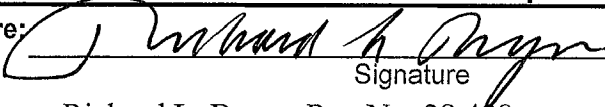
Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**  
 Name: Richard L. Byrne  
 Internal Address: The Webb Law Firm  
 \_\_\_\_\_  
 Street Address: One Gateway Center  
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 City: Pittsburgh  
 State: PA    Zip: 15222  
 Phone Number: 412-471-8815  
 Fax Number: 412-945-5933  
 Email Address: assignments@webblaw.com

**6. Total number of applications and patents involved:** 1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40**  
 Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

**8. Payment Information**  
 a. Credit Card Last 4 Numbers 4775  
 Expiration Date 05/2015  
 b. Deposit Account Number 23-0650  
 Authorized User Name \_\_\_\_\_

**9. Signature:**     October 5, 2012  
 \_\_\_\_\_    Signature    Date  
Richard L. Byrne, Reg No. 28,498    Total number of pages including cover sheet, attachments, and documents: 3  
 Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

Docket No.:

5038-121566

This is an Assignment of the following rights, title and interest:

- United States of America rights, title and interest in the invention
- Foreign rights, title and interest in the invention
- International Patent Application No. PCT/KR2010/007810

Date of Filing: 19 November 2010 (19.11.2010)

For which an application for a U.S. Patent was executed on 05/16/2012

United States Patent Application Serial No. 13/510,182

Date of Filing: \_\_\_\_\_

Title of the Invention: CATALYST FOR SELECTIVE OXIDATION OF NH3 TO N2 AND METHOD FOR PREPARING THE SAME

Inventors (Assignors): LEE, Seong Ho/ LEE, Woo Jin/ CHEON, Young Eun/ OH, Seung Hoon/ KIM, Sung Hwan/ JUNG, Hong Seok/ KIM, Yong Woo/ GOH, Gi Ho

Assignee(s): SK INNOVATION CO., LTD.

(99, Seorin-dong, Jongno-gu, Seoul 110-110 Republic of Korea)

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the invention to the above-identified assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said invention, said applications(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, which may be granted or have granted for said invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States, unto said Assignee.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

*Lee S.H.*

LEE, Seong Ho

*9/8/2012*

Date

*W. J. Lee*

LEE, Woo Jin

*6/8/2012*

Date

*Y. E. Cheon*

CHEON, Young Eun

*7/8/2012*

Date

*Oh S.H.*

OH, Seung Hoon

*6/8/2012*

Date

*[Signature]*

KIM, Sung Hwan

*6/8/2012*

Date

*Jung HS*

JUNG, Hong Seok

*6/8/2012*

Date

*KIM Yong Woo*

KIM, Yong Woo

*6/8/2012*

Date

*Goh G. Ho*

GOH, Gi Ho

*6/8/2012*

Date