PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Byungchul Jang	07/21/2008
Youngsu Jiong	07/21/2008
Youngtaek Kim	07/21/2008

RECEIVING PARTY DATA

Name:	Hanwha Chemical Corporation	
Street Address:	Hanwha Building, 1 Janggyo-dong, Jung-gu	
City:	Seoul	
State/Country:	REPUBLIC OF KOREA	
Postal Code: 100-797		

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	12282087	

CORRESPONDENCE DATA

Fax Number: (412)471-4094

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 412-471-8815

Email: webblaw@webblaw.com

Correspondent Name: Richard L. Byrne

Address Line 1: 700 KOPPERS BUILDING Address Line 2: 436 SEVENTH AVENUE

Address Line 4: PITTSBURGH, PENNSYLVANIA 15219

ATTORNEY DOCKET NUMBER:	5038-082871

NAME OF SUBMITTER: Richard L. Byrne

Total Attachments: 3

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RECORDATION FORM COVER SHEET PATENTS ONLY		
	e record the attached documents or the new address(es) below.	
1. Name of conveying party(ies) Byungchul JANG Youngsu JIONG Youngtaek KIM	2. Name and address of receiving party(ies) Name: Hanwha Chemical Corporation Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) July 21, 2008 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 of A. Patent Application No.(s)	Street Address: Hanwha Building, 1 Janggyo-dong	
Additional numbers att		
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1	
Name: Richard L. Byrne Internal Address: The Webb Law Firm	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card	
Street Address: 436 Seventh Avenue 700 Koppers Building	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)	
City: Pittsburgh	8. Payment Information	
State: <u>PA</u> Zip: <u>15219</u>	a. Credit Card Last 4 Numbers 1059 Expiration Date 08/2010	
Phone Number: 412-471-8815 Fax Number: 412-471-4094	b. Deposit Account Number 23-0650	
Email Address: webblaw@webblaw.com	Authorized User Name	
9. Signature: () Whard h On	September 8, 2008	
Signature Richard L. Byrne, Registration No. 28,4 Name of Person Signing	Date Total number of pages including cover sheet, attachments, and documents: 3	

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

Doc. No. OQ2879

Application No.: 12/282,087

ASSIGNMENT

WHEREAS We,
1 [JANG, Byungchul]
of [305-104, Dongyang Paragon Apt., Taepyeong2-dong, Jung-gu, Daejeon 301-784,
Republic of Korea],
2 [JIONG, Youngsu]
of [102-706, Daerimdurae Apt., Sinseong-dong, Yuseong-gu, Daejeon 305-720,
Republic of
Korea],
3 [KIM, Youngtaek]
of [#204, Seongjin Joon Villart., 48-5 Jamwon-dong, Seocho-gu, Seoul 137-906,
Republic of Korea],

have invented certain new and useful improvements in:

(hereinafter referred to as "ASSIGNORS");

PROCESS FOR THE ELECTROCHEMICAL CATALYSTS OF FUEL CELLS BASED ON POLYMER ELECTROLYTES

WHEREAS, [HANWHA CHEMICAL CORPORATION] (hereinafter referred to as "ASSIGNEE"), a research institute organized and existing under the laws of the Country of [Republic of Korea], having a place of business at [1 Janggyo-dong, Jung-gu, Seoul 100-797, Republic of Korea], is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and Letters Patent to be obtained therefore;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof,

PATENT REEL: 021496 FRAME: 0480 to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behalf of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date:	July 21, 2008	J. J
		JANG, Byungchul
Date:	July 21, 2008	28 run
		JIONG, Youngsu
Date:	July 21, 2008	
	-	KIM, Youngtaek

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RECORDED: 09/08/2008