PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kyung-Seop NOH	03/08/2013
Won-Hee KIM	03/08/2013
Nan-Young LEE	03/08/2013
Sang-Jin JEON	03/08/2013
Sang-Eun AN	03/08/2013

RECEIVING PARTY DATA

Name:	LG CHEM, LTD.	
Street Address:	20, Yoido-dong	
Internal Address:	Youngdungpo-gu	
City:	Seoul	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	150-721	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13980870	

CORRESPONDENCE DATA

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NAME OF SUBMITTER: Mark R. Kresloff

> PATENT REEL: 030894 FRAME: 0868

Signature:	/Mark R. Kresloff, #42,766/
Date:	07/29/2013
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif	

PATENT REEL: 030894 FRAME: 0869

Assignment of Application

WHEREAS, 1	I (WE)	NOH, Kyung-Seop KIM, Won-Hee LEE, Nan-Young JEON, Sang-Jin AN, Sang-Eun		
				, respectively,
have invented certa	in new a	nd useful improvements in:		
for which an applica		Letters Patent was executed o	n	
(Application No.		, Filed), and
WHEREAS,	LG CH	EM, LTD.		'
		ASSIGNEE") having a place of gpo-gu, Seoul 150-721, Repub		

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said

Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date:_	March 8, 2013	(Signature of Inventor) NOH, Kyung-Seop
Date:_	March 8, 2013	(Signature of Inventor) KIM, Won-Hee
Date:_	March f. 2013	(Signature of Inventor) LEE, Nan-Young
Date:_	March 8, 2013	(Signature of Inventor) JEON, Sang-Jin
Date:_	March 8, 2013	(Signature of Inventor) AN, Sang-Eun

McKenna Long & Aldridge LLP
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