

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>SUNG KYU LEE</td> <td>07/10/2013</td> </tr> <tr> <td>JOON HO SHIN</td> <td>07/10/2013</td> </tr> <tr> <td>JONG KU LEE</td> <td>07/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	SUNG KYU LEE	07/10/2013	JOON HO SHIN	07/10/2013	JONG KU LEE	07/10/2013				
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>LG CHEM, LTD.</td> </tr> <tr> <td>Street Address:</td> <td>128, YEQUI-DAERO</td> </tr> <tr> <td>Internal Address:</td> <td>YEONGDEUNGPO-GU</td> </tr> <tr> <td>City:</td> <td>SEOUL</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>150-721</td> </tr> </table>		Name:	LG CHEM, LTD.	Street Address:	128, YEQUI-DAERO	Internal Address:	YEONGDEUNGPO-GU	City:	SEOUL	State/Country:	KOREA, REPUBLIC OF	Postal Code:	150-721
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number:	(202)496-7756												
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NAME OF SUBMITTER:	MARK R. KRESLOFF												

Signature:	/Mark R. Kresloff/
Date:	11/08/2013
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif	

Assignment of Application

WHEREAS, I (WE)	Sung Kyu LEE, Joon Ho SHIN, Jong Ku LEE,
	, respectively,
have invented certain new and useful improvements in:	
DUAL-MODE DNIDING WALL COLUMN	
for which an application for Letters Patent was executed on	

(Application No.		, Filed), and
WHEREAS,	LG CHEM , LTD.			
(hereinafter referred to as "ASSIGNEE") having a place of business at: 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 150-721, Republic of Korea				

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: 2013/7/10 8 | 김기영
(Signature of Inventor)
LEE, Sung Kyu

Date: 2013/7/10 SHIN
(Signature of Inventor)
SHIN, Joon Ho

Date: 2013/7/10 LEE
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