501759709 12/16/2011

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Joo Sung LEE	12/09/2011
Jang-Hyuk HONG	12/09/2011
Jong-Hun KIM	12/09/2011

RECEIVING PARTY DATA

Name:	LG CHEM, LTD.	
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City:	Seoul	
State/Country:	REPUBLIC OF KOREA	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13328607

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NAME OF SUBMITTER:	ESTHER H. CHONG

Total Attachments: 2

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PATENT REEL: 027403 FRAME: 0687 7 00 0V\$ HJ

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BIRCH, STEWART, KOLASCH & BIRCH, LLP

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ASSIGNMENT

Application No.	13/328,607	Filed	December 16, 2011
Insert Name(s) of Inventor(s)	***(Given Name FAMILY NAME (ALL CAPS))***		
	WHEREAS, LEE, Joo Sung; HONG, Jang-Hyu undersigned) has (have) invented certain new and us		
Insert Title of Invention	METHOD FOR MANUFACTURING SEPAR. THE METHOD AND METHOD FOR MANUF INCLUDING THE SEPARATOR for which are application for Letters Peters of the L	FACTU	RING ELECTROCHEMICAL DEVICE
	for which an application for Letters Patent of the Undersigned (except in the case of a provisional app.		
Insert Date of Signing of Application	on December 9, 2011		; and
Insert Name of Assignee	WHEREAS, LG CHEM, LTD.		
Insert Address of Assignee	Of 20, Yoido-dong, Youngdungpo-gu, Se	oul 1:	50-721 Republic of Korea
СНЕСК ВОХ	its heirs, successors, legal representatives and as desirous of acquiring the entire right, title and intere Patent(s) that may be granted therefor in the United Signal and foreign countries.	st in an	id to said invention and in and to any Letters
IF APPROPRIATE	NOW, THEREFORE, in consideration of the sum of paid, the receipt of which is hereby acknowledged undersigned has (have) sold, assigned and transfet transfer unto said Assignee the full and exclusive America, its territories, dependencies and possession any and all Letters Patent(s) which may be grant territories, dependencies and possessions, and if the countries;	d, and arred, a right to ons and the	other good and valuable consideration, the nd by these presents does sell, assign and to the said invention in the United States of the entire right, title and interest in and to refor in the United States of America, its

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full

term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s)

Date	12/9/2011.	, Name of Inventor	Joo Ly Lee
			(signature) LEE, Joo Sung
Date	p/9/2011	, Name of Inventor	- Company of the comp
	,		(signature) HONG, Jang-Hyuk
Date	12/9/2011	, Name of Inventor	
			(signature) KIM, Jong-Hun
Date		Name of Inventor	
			(signature)
Date		Name of Inventor	
			(signature)
Date		Name of Inventor	
			(signature)
Date			
		Page 2 of 2	

RECORDED: 12/16/2011