PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Junill YOON	12/16/2009
Jong-yul RO	01/12/2010
Heekook YANG	12/09/2009
Jongmoon YOON	01/07/2010
Do Yang JUNG	01/20/2010

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12516267

CORRESPONDENCE DATA

Fax Number: (703)205-8050

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

Phone: (703) 205-8000

Email: oanh.k.dong@bskb.com

Correspondent Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Address Line 1: P. O. BOX 747

Address Line 4: FALLS CHURCH, VIRGINIA 22040-0747

ATTORNEY DOCKET NUMBER:	5097-0129PUS1
NAME OF SUBMITTER:	Craig A. McRobbie

PATENT REEL: 023983 FRAME: 0266 125

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Total Attachments: 10
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PATENT REEL: 023983 FRAME: 0267

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No.	12/516,267	Filed	May 26, 2009		
Insert Name(s) of Inventor(s)	***(Given Name FAM	ILY NAME (ALL CAPS))***		
WHEREAS, Junill YOON; Jong-yul RO; Heekook YAN (hereinafter designated as the undersigned) has (have) in:					
Insert Title of Invention	POWER SWITCHING MODULE FOR	BATTERY MODULE	ASSEMBLY		
	for which an application for Letters Pat- undersigned (except in the case of a prov		es of America has been exec	cuted by the	
Insert Date of Signing of Application	on12/16/2009; 01/12/2010; 12/09/2009	01/07/2010; 01/20/201	0	; and	
Insert Name	WHEREAS, LG CHEM, LTD.				
of Assignee Insert Address of Assignee	of 20, Yoido-dong, Youngdungpo-gu, Se	oul, , REPUBLIC OF	KOREA 150-721		
CHECK BOX IF APPROPRIATE	its heirs, successors, legal representative desirous of acquiring the entire right, title Patent(s) that may be granted therefor in any foreign countries.	and interest in and to	said invention and in and to		
IF AFT KOFKIATE	NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;				
	and to any and all divisions, reissues, con or terms for which the same may be grant	•	s and extensions thereof for	the full term	

Page 1 of 2

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 <u>2009 - 12 - 16</u>	, Na	me of Inventor Youn Junio YOON
Date	, Na	me of Inventor (signature) Jong-yul RO
Date	, Na	me of Inventor (signature) Heekook YANG
Date	, Na	me of Inventor (signature) Jongmoon YOON
Date	, Na	me of Inventor (signature) Do Yang JUNG

Page 2 of 2

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\-	WHEREAS, Junill YOON; Jong-yul R (hereinafter designated as the undersignin:			
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	for which an application for Letters Pa undersigned (except in the case of a pro-		s of America has been exe	ecuted by the
Insert Date of Signing of	on 12/16/2009; 01/12/2010; 12/09/2009	;01/07/2010; 01/20/2010)	; and
Application Insert Name	WHEREAS, LG CHEM, LTD.			
of Assignee Insert Address of Assignee	of 20, Yoido-dong, Youngdungpo-gu, S	eoul, , REPUBLIC OF k	OREA 150-721	
СНЕСК ВОХ	its heirs, successors, legal representat desirous of acquiring the entire right, tit Patent(s) that may be granted therefor in x in any foreign countries.	e and interest in and to	said invention and in and t	
IF APPROPRIATE	<u> </u>			
	NOW, THEREFORE, in consideration paid, the receipt of which is hereby a undersigned has (have) sold, assigned transfer unto said Assignee the full and America, its territories, dependencies an and all Letters Patent(s) which may be dependencies and possessions, and if the	cknowledged, and other and transferred, and b I exclusive right to the I possessions and the en granted therefor in the U	good and valuable consi y these presents does sel said invention in the Uni tire right, title and interest United States of America,	ideration, the il, assign and ited States of in and to any its territories,
	and to any and all divisions, reissues, co		and extensions thereof for	the full term

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

Date,	Name of Inventor
	(signature) Junill YOON
Date Jan. 12, 2010,	Name of Inventor Jang Yul Ra
	(signature) long-yul RO
Date ,	Name of Inventor
	(signature) Heekook YANG
Date	Name of Inventor
	(signature) Jongmoon YOON
Date,	Name of Inventor
	(signature) Do Yang JUNG

Page 2 of 2

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Insert Date of Signing of	on _12/16/2009; 01/12/2010; 12/09/2009	9;01/07/2010; 01/20/201	0	; and
Application Insert Name of Assignee	WHEREAS, LG CHEM, LTD.			
Insert Address of Assignee	of 20, Yoido-dong, Youngdungpo-gu, S	eoul, , REPUBLIC OF I	OREA 150-721	
CHECK BOX IF APPROPRIATE	its heirs, successors, legal representat desirous of acquiring the entire right, tit Patent(s) that may be granted therefor in x in any foreign countries.	le and interest in and to	said invention and in and to ar	
	NOW, THEREFORE, in consideration paid, the receipt of which is hereby as undersigned has (have) sold, assigned transfer unto said Assignee the full and America, its territories, dependencies an and all Letters Patent(s) which may be dependencies and possessions, and if the	cknowledged, and othe and transferred, and b I exclusive right to the d possessions and the er granted therefor in the	r good and valuable considers y these presents does sell, as said invention in the United tire right, title and interest in a Jnited States of America, its to	ation, the ssign and States of nd to any erritories,
	and to any and all divisions, reissues, co or terms for which the same may be gran		and extensions thereof for the	full term

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

Date,	Name of Inventor (signature) Junill YOON
Date,	Name of Inventor
	(signature) Jong-yul RO
Date Dec. 9th 2009.	Name of Inventor
	(signature) Heekook YANG
Date,	Name of Inventor
	(signature) Jongmoon YOON
Date,	Name of Inventor
	(signature) Do Yang JUNG

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of Signing of Application Insert Name of Assignee Insert Address	WHEREAS, LG CHEM, LTD. of 20, Yoido-dong, Youngdungpo-gu, Seoul, , R	EPUBLIC OF	KOREA 150-721
of Assignee CHECK BOX IF APPROPRIATE	its heirs, successors, legal representatives and desirous of acquiring the entire right, title and in Patent(s) that may be granted therefor in the Unix in any foreign countries.	nterest in and to	said invention and in and to any Letters
IF AFFROPRIATE	NOW, THEREFORE, in consideration of the st paid, the receipt of which is hereby acknowle undersigned has (have) sold, assigned and tra transfer unto said Assignee the full and exclus America, its territories, dependencies and posses and all Letters Patent(s) which may be granted dependencies and possessions, and if the box abo	edged, and other insferred, and be sive right to the sions and the end therefor in the	er good and valuable consideration, the by these presents does sell, assign and a said invention in the United States of ntire right, title and interest in and to any United States of America, its territories,

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Date		Name of Inventor	
			(signature) Junill YOON
Date	,	Name of Inventor	
			(signature) Jong-yul RO
Date		Name of Inventor	
			(signature) Heekook YANG
Date	2010. 1.7	Name of Inventor	
			(signature) Longmoon YOON
Date	,	Name of Inventor	
			(signature) Do Yang JUNG

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СНЕСК ВОХ	its heirs, successors, legal representati desirous of acquiring the entire right, titl Patent(s) that may be granted therefor in	e and interest in and to	said invention and in and to any Letter	
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Date,	Name of Inventor
	(signature) Heekook YANG
Date	Name of Inventor
	(signature) Jongmoon YOON
Date 20/0 - 20 - 5AN	Name of Inventor
	(signature) DU Yang JUNG

PATENT REEL: 023983 FRAME: 0277

RECORDED: 02/24/2010