PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hee Soo YOON	08/16/2010
Shinichi JINUSHI	08/08/2010
Jin Kyu LEE	08/04/2010
Dal Mo KANG	08/06/2010
Jongmoon YOON	08/05/2010

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:	12742011	

CORRESPONDENCE DATA

Fax Number: (703)205-8050

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Phone: 703-205-8000 Email: tisdale@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:	5097-0169PUS1
NAME OF SUBMITTER:	Craig A. McRobbie

PATENT REEL: 024983 FRAME: 0205 H \$40 00

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Total Attachments: 6
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PATENT REEL: 024983 FRAME: 0206

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

ASSIGNMENT

Application No.	12/742,011	Filed _	May 7, 2010			
Insert Name(s) of Inventor(s)	***(Given Name FAMILY NAME (ALL CAPS))***					
	WHEREAS, Hee Soo YOON YOON (hereinafter designate improvements in:	N; Shinichi JINUSHI; Jin K ed as the undersigned) has	yu LEE; Dal Mo KANG; and Jongmoo (have) invented certain new and useful			
Insert Title of Invention	BATTERY MODULE OF EXCHANGE MEMBER	EXCELLENT HEAT DIS	SSIPATION PROPERTY AND HEA			
	for which an application for L undersigned (except in the case	etters Patent of the United S of a provisional application)	tates of America has been executed by th			
Insert Date of Signing of	on 08/16/10		; and			
Application Insert Name of Assignee	WHEREAS, LG CHEM, LTI)				
Insert Address of Assignee	of 20, Yoido-dong, Korea	Youngdungpo-gu,	Seoul 150-721, Republic o			
CHECK BOX IF APPROPRIATE	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and x in any foreign countries.					
ii Arronane	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, rei or terms for which the same ma		ions and extensions thereof for the full term			

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	Aug. 16. 2010	,	Name of Inventor	(signature) Hee Soo YOON	
			'	(Signature) free 300 100N	
Date		,	Name of Inventor		
			Ì	(signature) Shinichi JINUSHI	
Date		,	Name of Inventor		
			Ī	(signature) Jin Kyu LEE	_
Date		,	Name of Inventor		
			Ī	(signature) Dal Mo KANG	
Date			Name of Inventor_		
				(signature) Jongmoon YOON	

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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Insert Title of Invention	BATTERY MODULE OF EX EXCHANGE MEMBER	CELLENT HEAT DISSIE	ATION PROPERTY AND	HEAT		
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Insert Date of Signing of	on08/08/10			; and		
Application Insert Name of Assignee	WHEREAS, LG CHEM, LTD					
Insert Address of Assignee	of 20, Yoido-dong, Korea	Youngdungpo-gu, Seou	d 150-721, Republic	of		
CHECK BOX IF APPROPRIATE	its heirs, successors, legal repres desirous of acquiring the entire rigil Patent(s) that may be granted there x in any foreign countries.	ht, title and interest in and to s	aid invention and in and to any	nee) is Letters		
E AFFROFRIATE	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, reissue or terms for which the same may be		and extensions thereof for the fu	ıll term		

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

Date		.9	Name of Inventor
_		•	(signature) Hee Soo YOON
Date	08/08/2010	,	Name of Inventor Shiricki Jinushi
		•	(signature) Shinichi JINUSHI
Date		_,	Name of Inventor
_			(signature) Jin Kyu LEE
Date_		. ,	Name of Inventor
_			(signature) Dal Mo KANG
Date_			Name of Inventor
			(signature) Jongmoon YOON

Page 2 of 2

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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ASSIGNMENT

Application No.		Filed	May 7, 2010				
Insert Name(s) of Inventor(s)	***(Given Name FAM	IILY NAME (ALL CAI	PS))***				
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Insert Title of Invention	BATTERY MODULE OF EXCELI EXCHANGE MEMBER	LENT HEAT DIS	SIPATION PROPERTY AND HEA	ΑT			
	for which an application for Letters Pat undersigned (except in the case of a prov	ent of the United Statistics of the United Statistics (Statistics of the United Statistics of th	ates of America has been executed by	the			
Insert Date of Signing of	on 08/04/10; 08/06/10 and 08/	05/10; respectiv	/ely; and				
Application Insert Name of Assignee	WHEREAS, LG CHEM, LTD						
Insert Address of Assignee	of 20, Yoido-dong, Your Korea	ngdungpo-gu, S	eoul 150-721, Republic	of			
CHECK BOX	its heirs, successors, legal representativesirous of acquiring the entire right, title Patent(s) that may be granted therefor in x in any foreign countries.	e and interest in and	to said invention and in and to any Lette	is ers			
PATROINATE	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	tinuations, conversio	ns and extensions thereof for the full ter	m			

Attorney Docket No. 5097-0169PUS1

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Date		Name of Inventor
		(signature) Hee Soo YOON
Date	,	Name of Inventor
		(signature) Shinichi JINUSHI
Date Awr. 04.	20/0	Name of Inventor
		(signature) Jin Kyu LEE
Date August 06.2	2010	Name of Inventor (molalico)
	_	(signature) Dal Mo KANG
Date Aup ofth Dol	เจ	Name of Inventor
V		(signature) Jongmoon YOON

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RECORDED: 09/14/2010