Form PTO-1595 (Rev. 03-11) OMB No. 0651-0027 (exp. 03/31/2015)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office	
RECORDATIO	N FORM COVER SHEET	
PATENTS ONLY		
To the Director of the U.S. Patent and Trademark Office	e: Please record the attached documents or the new address(es) below.	
1. Name of conveying party(les):	2. Name and address of receiving party(les)	
Ok Sun Kim (09/26/2012), Young-Min Kim	Name: LG Chem, Ltd.	
(09/13/2012), and MinAh Kang (09/13/2012)	Internal Address:	
Additional name(s) of conveying party(les) attached?	X No Street Address:	
3. Nature of conveyance/Execution Date(s):	LG Twin Towers	
Execution Date(s): in parentheses after inventor name	20, Yeouldo-dong	
X Assignment Merger Change of Nam	reongaeungpo-gu	
Security Agreement Joint Research Agreeme	nt City: Seoul	
Government Interest Assignment	State:	
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip: 150-721	
Other	Additional name(s) & address(es) Yes X No	
Other	attached?	
4. Application or patent number(s):	This document is being filed together with a new application.	
A. Patent Application No.(s)	B. Patent No.(s)	
13/574,043		
Additional numbers a	itached? Yes X No	
Name and address to whom correspondence concerning document should be malled:	6. Total number of applications and patents involved:	
Name: Kelly Y. Hwang LERNER, DAVID, LITTENBERG KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	
Internal Address; Atty. Dkt.: LGCHEM 3.3-269		
(LGCHEM.335) Street Address: 600 South Avenue West	X Authorized to be charged to deposit account	
	Enclosed	
	None required (government interest not affecting title)	
City: Westfield	8. Payment Information	
State: NJ Zip: 0709	- Company - Comp	
Phone Number: 908-654-5000		
Fax Number: 908-654-7866	Deposit Account Number 12-1095	
Email Address: ataylor@ldlkm.com	Authorized User Name Kelly Y. Hwang	
9. Signature:		
// <i>///////////////////////////////////</i>	October 3, 2012	
Signature	Date	
Kelly Y. Hwang - 51,831	Total number of pages Including cover 4	
Name of Person Signing	sheet, sitachments, and documents:	

2021585

PATENT REEL: 029101 FRAME: 0480

	former PTO/SB/15 (8-00) Modified LDLKAM			
	Docket Number (Optional)			
ASSIGNMENT OF UTILITY APPLICATION	LGCHEM 3.3-269			
Whereas, I, Ok Sun Kim	of			
1102, Honorsville, 1380-1.; Dunsan 1-dong, Seo-gu; Da	ejeon; REPUBLIC OF KOREA 302-831			
hereafter referred to as assignor, have with others invented certs BINDER FOR SECONDARY BATTERY PROVIDING AND CYCLE PROPERTY	EXCELLENT ADRESION STRENGTH			
x for which an application for a United States Letters Pate Application Number 13/574,043	ont was filed on July 19, 2012			
for which an application for a United States Letters Pater	t was executed by me on,			
x for which an International Application was filed on	January 19, 2011 , as			
PCT/KR2011/000395 , designating the United States.				
And				
Whereas, LG Chem, Ltd. a corporation of herein referred to as "assignee" whose mailing address is LG Twin Towers; 20, Yeouldo-dong; Yeongdeungpo-gu; Seoul; REPUBLIC OF KOREA 150-721				
is desirous of acquiring the entire right, title and interest in the sa	me;			
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration. I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify In any interferences or other legal proceedings in which any of sald applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for sald improvements in all countries, the expenses inc				
And I do hereby authorize my attorneys to insert on this deed the when known.	_			
2012-09-26	mem_			
Date	Ok Sun Kim			
Witness Typed Name of Witness				
x *Total of 3 forms are submitted.				

LD-515\

	former PTO/SB/15 (8-00) Modified LDLK&M			
	Docket Number (Optional)			
ASSIGNMENT OF UTILITY APPLICATION	LGCHEM 3.3-269			
Whereas, I, Young-Min Kim	of			
8-1002, Garam Apt.; Samcheon-dong, Seo-gu; Daeleon; REPUBLIC OF KOREA 302-744				
hereafter referred to as assignor, have with others invented certain new and useful improvements in BINDER FOR SECONDARY BATTERY PROVIDING EXCELLENT ADHESION STRENGTH AND CYCLE PROPERTY				
x for which an application for a United States Letters Pate	ent was filed on July 19, 2012			
Application Number 13/574,043	**************************************			
for which an application for a United States Letters Pater	nt was executed by me on ,			
x for which an International Application was filed on				
PCT/KR2011/000395 , designating the United States.				
And				
Whereas, LG Chem, Ltd. a corporation of herein referred to as "assignee" whose mailing	address is			
LG Twin Towers; 20, Yeouldo-dong; Yeongdeungpo-gu; Se	oul; REPUBLIC OF KOREA 150-721			
Is desirous of acquiring the entire right, title and interest in the sa	ame;			
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said Invention claiming priority or benefit of said invention, including without limitation all applications and patents for said Invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to representatives, helrs and assignee of the entire interest therein; and the undersigned for me and my legal representatives, helrs and assignee of the entire interest therein; and the undersigned for me and my legal original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify				
And I do hereby authorize my attorneys to insert on this deed the when known.				
Sept. 13,2012	Joury Mr. Kim			
Date	Young-Min Kim			
	-			
Witness				
Typed Name of Witness				
x Total of 3 forms are submitted.				

LD-515\

PATENT REEL: 029101 FRAME: 0482

	former PTC/SB/15 (8-00) Modified LDL K&I Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	LGCHEM 3.3-269
	of
Whereas, I, <u>MinAh Kang</u> 702, Honorsville; <u>Dunsan-dong, Seo-qu; Daeieon;</u> REF	
to the section of the	rtain new and useful improvements in
BINDER FOR SECONDARY BATTERY PROVIDING AND CYCLE PROPERTY	S EXCELLENT ADHESION STRENGTH
x for which an application for a United States Letters Pa Application Number 13/574,043	atent was filed on
for which an application for a United States Letters Pati	ent was executed by me on
x for which an International Application was filed on	
PCT/KR2011/000395 , designating the Unite	d States.
And	
Whereas, LG Chem, Ltd. a corporation of herein referred to as "assignee" whose mailin	g address is
LG Twin Towers: 20, Yeouldo-dong; Yeongdeungpo-gu; S	eoul; REPUBLIC OF KOREA 150-/21
is desirous of acquiring the entire right, title and interest in the	same;
NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Stainvention and the aforesaid utility patent application and all applications and patents applied for or granted therefor in the sald invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty, infringement with the right to sue for and collect the same for legal representatives, and including the right to claim such provided in the same for legal representatives, and including the right to claim such provided in the same for legal representatives, helrs and assignee of the entire interest representatives, helrs and assigns do hereby agree and covernall original, divisional, continuation, reissue and other applications assignments thereof to sald assignee or its assigns, to commit known to the undersigned respecting said improvements, whe legal proceedings in which any of said applications or patents all rightful oaths, and to do generally everything necessary to obtain patent protection for said improvements in all countries and paid by said assignee. And I do hereby authorize my attorneys to insert on this deed to	original, divisional, continuation, substitute or reissue e United States of America and all other countries, for patents for said Invention claiming priority or benefit of and including all claims for damages by reason of past its own use and the use of its successors, assigns and ribrity or benefit and the Commissioner of Patents and patents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal ant without further remuneration, to execute and deliver attorns for Letters Patent on said improvements and all aunicate to said assignee or its representatives all facts may become involved, to sign all lawful papers, make aid assignee, its successors, assigns and nominees to, the expenses incident to said applications to be borne.
when known.	110 mmg and 110 mmg
September 13. 2012	11/2 11/00
Date	MinAh Kang
Witness	
Typed Name of Witness	
x *Total of 3 forms are submitted.	
1D-515\	

2653713

PATENT

REEL: 029101 FRAME: 0483