Form PTO-1595 (Rev. 03-11) O <u>MB No. 0651-0027 (</u> exp. 03/31/2015)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office		
RECORDATION FORM COVER SHEET			
PATENTS ONLY			
To the Director of the U.S. Patent and Trademark Office: 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)		
MinAh Kang (04/05/2013), Young-Min Kim (04/05/2013), Chang Bum Ko (04/05/2013), and Ok Sun Kim (04/02/2013) Additional name(s) of conveying party(les) attached? Yes XNo 3. Nature of conveyance/Execution Date(s):	Name: LG Chem, Ltd.		
Execution Date(s): In parentheses after inventor name X Assignment Merger Change of Name Security Agreement Joint Research Agreement	LG Twin Towers 20, Yeouido-dong Yeongdeungpo-gu City: <u>Seoul</u>		
Government Interest Assignment	Slate:		
Executive Order 9424. Confirmatory License	State.		
Application or patent number(s): A. Patent Application No.(s) 13/805,675 Additional numbers attached?	This document is being filed together with a new application. B. Patent No.(s) P. Yes XNo		
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 1		
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, Dkl.: LGCHEM 3.3-295 Street Address: 600 South Avenue West	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)		
City: Westfield	8. Payment Information		
State: NJ Zip: 07090 Phone Number: 908-654-5000 908-654-7866 908-654-7866 Email Address: ataylor@ldikm.com 908-654-7866 908-654-7866	Deposit Account Number 12-1095 Authorized User Name Kelly Y. Hwang		
9, Signature:	April 22, 2013		
Kelly Y. Hwang - 51,831 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:		

PATENT REEL: 030297 FRAME: 0083

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ASSIGNMENT OF UTILITY APPLICATION	Dockel Number (Optional)	
	LGCHEM 3.3-295	
Whereas, I, Young-Min Kim	of	
6-1002, Garam Apl.: Samcheon-dong, Seo-gu; Daelson	REPUBLIC OF KOREA 302-744	
hereafter referred to as assigner, have with others invented certi	ain new and useful improvements in	
BINDER FOR SECONDARY BATTERY EXHIBITING	EXCELLENT ADHESION FORCE	
x for which an application for a United States Letters Patent was filed on December 20, 2012		
Application Number 13/805,875		
for which an application for a United States Letters Patent was executed by me on		
x for which an international Application was filed on		
	a a financia de concessa de la Concessiona de Concessiona de Concessiona de Concessiona de Concessiona de Conce	
PCT/KR2011/005143 . designating the United	States.	
And		
Whereas, LG Chern, Ltd.		
a corporation of herein referred to as "assignee" whose meiling		
LG Twin Towers; 20, Yeouido-dong: Yeangdoungpo-gu; Se		
Is deskous of acquiring the church right, title and interest in the su	aulo:	
assignee my entire right, tills and interest for the United Stat invention and the aforesaid utility patent applications and all applications and patents applied for or granted therefor in the said invention, including without limitation all applicatione and g the aforesaid utility application pursuant to any law or treaty, at infringement with the right to sue for and collect the same for it tegal representatives, and including the right to claim such prix trademarks is hereby authorized and requested to issue all pa- said assignee herein, as assignee of the entire interest to representatives, heirs and assigns do hereby agree and covena sill original, divisional, continuation, reissue and other applications assignments thereof to said assignee or its easigns, to commu known to the undersigned respecting said improvements, when legel proceedings in which any of said applications or patents all rightful ceths, and to do generally everything necessary to a obtain patent protection for said improvements in all countries, and paid by said assignee.	anginal, divisional, continuation, substitute or release United States of Armerica and all other countries, for , batents for said invention claiming priority or benefit of nd including all claims for damages by reason of past s own use and the use of its successors, sesigns and ority or benefit and the Commissioner of Patents and herein; and the undersigned for ms and my legal in without further remuneration, to execute and deliver lons for Letters Patent on said improvements and all nicate to said assignee or its representatives all facts ever requested, to tatify in any interferances or other may become involved, to sign all lawful papers, make id assignee, its successors, sesigns and nominees to the expenses incident to said applications to be borne	
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of seid application when known Apprind 5, 2013 Apprind 5, 2013 Appr		
Opril 5. 2013 Date	Young-Min Kim	
Witness		
Typed Name of Witness		
x *Total of 4 forms are submitted.	-	
11.11		

2004/240-1 0000

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······································	Docket Number (Optionel)	
ASSIGNMENT OF UTILITY APPLICATION	LIGCHEM 3.3-295	
Whereas I. <u>Chang Bum Ko</u> 103-1209, Hwangsil Town Apl.: Wolpycong-dong, Seo:	of au: Dapleon; REPUBLIC <u>QF KOREA</u> 302-	
280 hereafter referred to as assigner, have with others invented card BINDER FOR SECONDARY BATTERY EXHIBITING	EXCELLENT ADHESION FORCE	
X for which an application for a United States Letters Pat Application Number 13/805,875		
for which an application for a United States Latters Pate for which an international Application was filed on	an profilementaria de la constante de la consta	
PCT/KR2011/005143 , designating the United And	f Slates.	
Whereas. <u>LG Chem, Ltd.</u> a corporation of <u>herein referred to as "assignce" whose mailing</u> <u>LG Twin Towers; 20, Yeouido-dong; Yeongdeungpo-gu; Sc</u> is desirous of acquiring the entire right, title and interest in the s	oul: REPUBLIC OF KOREA 150-721	
NOW, THEREFORE, in consideration of the sum of <u>one</u> dollar (\$ <u>1,00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assigner hereby sell, assign and set over to said assignee my entire right, lills and interest for the United States of America and all other countries in and to said invention and the aforeasid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted theretor 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 aforeasid utility application pursuent 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 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 thereform to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and exerges do hereby agree and covenant without further remuneration, to execute and all easignments thereof to said assignee or its assigns, to communicate to cald 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 seid applications or patenta may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to all assignee, its auccessors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.		
And I do hereby authorize my attorneys to insort on this deed th when known.	•	
April. 5, 2013	Changlown Ko	
Palo	Chang out No	
Witness		
Typed Name of Wilness		
x 'Total of 4 forms are submitted.		

PATENT REEL: 030297 FRAME: 0086

	former PTC/SB/15 (8-00) Modified LOLKAM
ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
	LGCHEM 3.3-295
Whereas, I. Ok Sun Kim	10
1102, Honorsville; 1380-1, Dunsan 1-dong, Seo-gu: Dar	
hereafter referred to as assignor, have with others invented cart BINDER FOR SECONDARY BATTERY EXHIBITING	
X for which an application for a United States Letters Pat	ont was filed onDecamber 20, 2012
Application Number 13/805,875	
for which an application for a United States Letters Pater	nt was executed by me on
K for which an International Application was filed on	_July 13, 2011, as
PCT/KR2011/005143 designating the United	i States.
And	
Whereas, LG Chem, Ltd.	
a corporation of herein referred to as "assignee" whose mailing	
LG Twin Towers; 20, Yeouido-dong; Yeongdeungpo-gu; Se	
is dealrous of acquiring the entire right, title and interest in the s	ame:
applications and patents applied for or granted therefor in the said invention, including without limitation all applications and p the aforesaid utility application pursuant to any law or treaty, a infringament with the right to sue for and collect the same for it legal representatives, and including the right to claim such pri- Trademarks is hereby authorized and requested to issue all p said assignee herein, as assignee of the entire interest to representatives, heirs and assigns do hereby agree and covena all original, divisionel, continuation, relasue and other applicat assignments thereof to said assignee or its assigns, to commu known to the undersigned respecting said improvements, when legal proceedings in which any of said applications or patents oil rightful oaths, and to do generally everything necessary to a obtain patent protection for said improvements in all countries, and paid by said assignee.	batents for said invention claiming priority or benefit of not including all claims for damages by reason of pael is own use and the use of its successors, assigns and ority or benefit and the Commissioner of Patanta and atents on asid improvements or resulting therefrom to herein; and the undersigned for me and my legal int without further remuneration, to execute and deliver lons for Letters Petent on said improvements and ell inicate to said assignee or its representatives all facts ever requestad, to testify in any interferences or other may become involved, to sign all lawful papers, make ald assignee, its successors, easigns and nominees to the expenses incident to said applications to be borne
And I do hereby authorize my attorneys to insert on this deed th when known.	e filing date and application number of said application
2013.04.02	man
Date	Ok Sun Kim
Witness	
Typed Name of Witness	
X "Total of 4 forms are submitted.	
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RECORDED: 04/22/2013