orm PTO-1595 (Rev. 03-11) MB No. 0651-0027 (exp. 03/31/2012)	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			
Name of conveying party(les):	2. Name and address of receiving party(ies)		
Su-Jin Yoon (12/28/2011), Sung-Hoon Yu (12/28/2011), and Jong-Ho Jeon (12/28/2011)	Name: LG Chem, Ltd.		
(12/28/2011), and Jong-no 3601 (12/28/2011)	Internal Address:		
Additional name(s) of conveying party(ies) ettached? Yes X No	Street Address:		
3. Nature of conveyance/Execution Date(s):	LG Twin Towers		
Execution Date(s): in parentheses after inventor name	20, Yeouido-dong		
X Assignment Merger Change of Name	Yeongdeungpo-gu		
Security Agreement Joint Research Agreement	City: Seoul		
	City: Seoul State:		
Government Interest Assignment			
Executive Order 9424, Confirmatory License			
Other	Additional name(s) & address(es) Yes X No attached?		
Additional numbers attached			
6. 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 3.3-176			
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: 07090			
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:	January 4, 2012  Date		
Kelly Y. Hwang - 51,831	Total number of pages including cover 4		
Name of Person Signing	sheet, attachments, and documents:		

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PATENT REEL: 027532 FRAME: 0675

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Mheroas, I, YOON, Su-Jin of 392 bunji, Young-Jin Jeonwon Maeul, Samhap-ri, Slichon-eup, Gwangju-si, Gyeonggi-do 464-871 Republic of Korea hereafter referred to as assignor, have with others invented cenain new and useful improvements in LITTITUM SECONDARY BATTERY WITH ANODE CONTAINING AQUEOUS BINDER    X   for which an application for a United States Letters Patent was filed on		Docket Number (Optional)	
392 bunji, Young-Jin Jeonwon Maeul, Samhap-ri, Silchon-eup, Gwangju-si, Gyeonggi-do 464-871 Republic of Korea erester referred to as assignor, have with others invented certain new and useful improvements in LITHIUM SECONDARY BATTERY WITH ANODE CONTAINING AQUEOUS BINDER.    X   for which an application for a United States Letters Patent was filed on 8/24/11 Application Number 13/203,061 for which an application for a United States Letters Patent was executed by me on   X   for which an application for a United States Letters Patent was executed by me on   X   for which an international Application was filed on   February 25, 2010   as   PCT/KR2010/001264   designating the United States.   designating address is 20, yoido-dong, Youngdungo-qu, Seoul 150-721 REPUBLIC OF KOREA   designating the entire right, title and interest in the same:   NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00   ), the receipt when sea acknowledged, and other good and valuable consideration, I as assignor hereby selt, assign and set over to a segment of the patent application and all original, divisional, continuation, substitute or reiss projection and the enforesald utility patent application and all original, divisional, continuation, substitute or reiss projections and patents applied for or granted theretor in the United States of America and all other countries, and internation, including without limitation all applications and patents applied for or granted theretor in the United States of America and all other countries, and internatives, and including the right to claim such profit or benefit and the Commissioner of Patents and assigned on present to any law or treaty, and including all claims for damages by reason of printingement with the right to sue for and collect the same for its own use and the use of its successors, assigns of the entire interest therein; and the undersigned for me and my legeresentatives, and including the right to claim such priority or benefit and the Commissioner of Patents a frad	ASSIGNMENT OF PATENT APPLICATION	LGCHEM	
392 bunji, Young-Jin Jeonwon Maeul, Samhap-ri, Silchon-eup, Gwangju-si, Gyeonggi-do 464-877 Republic of Korea revealer refered to as assignor, have with others invented cenain new and useful improvements in LITTITUM SECONDARY BATTERY WITH ANODE CONTAINING AQUEOUS BINDER.    X   for which an application for a United States Letters Patent was filed on	Whereas I YOON Stislin	of	
LITTITUM SECONDARY BATTERY WITH ANODE CONTAINING AQUEOUS BINDER	392 bunji, Young-Jin Jeonwon Maeul, Samhap-ri, Silo	chon-eup, Gwangju-si, Gyeonggi-do 464-	
Application Number 13/203,061  for which an application for a United States Letters Patent was executed by me on  if or which an International Application was filed on February 26, 2010 as PCT/KR2010/001264 , designating the United States.  PCT/KR2010/001264 , designating the United States.  And  Whereas, LG Chem, Ltd.  Corporation of Korsa, Republic of herein referred to as "assignee" whose mailing address is 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 REPUBLIC OF KOREA sedesirous of acquiring the entire right, title and interest in the same:  NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt when a acknowledged, and other good and valuable consideration, I as assignor hereby selt, assign and set over to a seignee my entire right, title and interest for the United States of America and all other countries in and to seignee my entire right, title and interest for the United States of America and all other countries in a seignee my entire right, application all applications and patents applied for or granted therefor in the United States of America and all other countries, and incursing including without limitation all applications and patents for said invention, including without limitation all applications and patents for said invention, including without limitation all applications and patents for said invention, including without limitation all applications and patents for said invention, substitute or relax applications and patents for said until yapplication pursuant to any law or treaty, and including all calms for damages by reason of presentatives, and including the right to deim such priority or benefit and the Commissioner of Patents a sagal representatives, and including the right to deim such priority or benefit and the Commissioner of Patents are admarks is hereby authorized and requested to issue all patents on said improvements or resultant provements or resultant provements and assignee herein, as assignee of the entire interest therein; and the undersigned for	LITITUM SECONDARY BATTERY WITH A	ath new and useful Improvements in NODE CONTAINING AQUEOUS	
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Whereas, LG Chem, Ltd. It corporation of Korsa Republic of herein referred to as "assignee" whose mailing address is 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 REPUBLIC OF KOREA  Sidesirous of acquiring the entire right, title and interest in the same:  INOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt when is acknowledged, and other good and valuable consideration, I as assignor hereby selt, assign and set over to assignee my entire right, title and interest for the United States of America and all other countries in and to assignee my entire right, title and interest for the United States of America and all other countries, aid invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reiss applications and patents applied for or granted therefor in the United States of America and all other countries, said invention, including without limitation all applications and patents for said invention claiming priority or benefit he aforesaid utility application pursuant to any law or fresty, and including all cities for damages by reason of pursuant with the right to sue for and collect the same for its own use and the use of its successors, assigns agail representatives, and including the right to claim such priority or benefit and the Commissioner of Patents a reademarks is hereby authorized and requested to issue all patents on said improvements presentating thereform all original, divisional, continuation, reissue and other applications for Letters Patent or said improvements and assignments thereof to said assignee or its assigns of other applications for Letters Patent or said improvements and assignments thereof to said assignee or its assigns or opatents may become involved, to sign all favilly papers, make giptiful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees when known.  December 4, 2011  Date  PARK, Seong-hye	x for which an International Application was filed on	February 26, 2010 , as	
Whereas, LG Chem, Ltd.  Laptoration of Korsa, Republic of hersin referred to as "assignee" whose mailing address is 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 REPUBLIC OF KOREA  s desirous of acquiring the entire right, title and interest in the same:  NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt when s acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to as seignee my entire right, title and interest for the United States of America and all other countries in and to survention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reiss applications and patents for said invention, including without limitation all applications and patents for said invention, including without limitation all applications and patents for said invention claiming priority or benefit he aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of printingement with the right to sue for and collect the same for its own use and the use of its successors, assigns a signal representatives, and including the right to claim such priority or benefit and the Commissioner of Platints or Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom raid assignee herein, as assignee of the entire interest therein; and the understigned for me and my les presentatives, heirs and assignee to the entire interest therein; and the understigned for me and my les representatives, heirs and assignee of the entire interest therein; and the understigned for me and my less representatives, and its representatives all its mount to the understigned respecting said improvements, whenever requested, to testify in any interferences or other applications, and to do generally exceptions or patents may become involved, to sign all lawful papers, make location patent protection for said improvements in all countries, the expens	, booking the office	d States.	
a corporation of Korsa Republic of herein referred to as "assignee" whose mailing address is 20, Yoido-dong, Youngdungpo-qu, Secul 150-721 REPUBLIC OF KOREA sidesirous of acquiring the entire right, title and interest in the same:  NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt when a acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to a second representation, and the aforesaid utility patent application and att original, divisional, continuation, substitute or reiss applications and patents application and att original, divisional, continuation, substitute or reiss applications, including without limitation all applications and patents for said invention, including without limitation all applications and patents for said invention diaming priority or benefit he aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of profringement with the right to sue for and collect the same for its own use and the use of its successors, assigns a gray representatives, and including the right to claim such priority or benefit and the Commissioner of Patents a frademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom all assignee herein, as assignee of the entire interest therein; and the undersigned for me and my leap representatives, heirs and assignee or the realization and provements and assignee or the sensing of the entire interest therein; and the undersigned for me and my leap representatives, heirs and assignee or its representatives all farmown to the undersigned for me and my leap representatives and the reporting and applications or patents may become involved, to sign ellawful papers, make an application part and patents and to do generally everything necessary to aid assignee its representatives and applications to be bound paid by said assignee.  December 3 2011  Date  PARK, Seong-hye	And	•	
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acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to assignee my entire right, title and interest for the United States of America and all other countries in and to sinvention and the aforesaid utility patent application and all original, (divisional, continuation, substitute or reiss polications and patents applied for or granted therefor in the United States of America and all other countries, producing without limitation all applications and patents for said invention, including without limitation all applications and patents for said invention claiming priority or benefit as aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of printingement with the right to sue for and collect the same for its own use and the use of its successors, assigns a gall representatives, and including the right to claim such priority or benefit and the Commissioner of Patents are readerance is hereby authorized and requested to issue all patents on said improvements or resulting therefrom aid assignee herein, as assignee of the entire interest therein; and the undersigned for me and my lead respectively. The entire interest therein and the undersigned for me and my lead respectively. It is also the entire interest therein and the undersigned for me and my lead to the applications. It is assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all famount to the undersigned respecting said improvements, whenever requested, to leasify in any interferences or off egal proceedings in which any of said applications or patents may become involved, to sign all fawful papers, make girthul oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees bean patent protection for said improvements in all countries, the expenses incident to said applications then known.  December 4, 2011  Date YOON, Su-Jin  Pare Countries of the patents of the	desirous of acquiring the entire right, title and interest in the sa	ато:	
December 3, 2011  Date  YOON, Su-Jin  Wilness  PARK, Seong-hye	nvention and the aforesaid utility patent application and all of applications and patents applied for or granted therefor in the said invention, including without limitation all applications and phe aforesaid utility application pursuant to any law or treaty, a firmingement with the right to see for and collect the same for little again representatives, and including the right to claim such pheroperatures in hereby authorized and requested to issue all pisaid assignee herein, as assignee of the entire interest it epresentatives, heirs and assigne do hereby agree and covena all original, divisional, continuation, reissue and other applications and thereof to said assignee or its assigns, to communication to the undersigned respecting said improvements, when egal proceedings in which any of said applications or patents mightful oaths, and to do generally everything necessary to aid paid by said assignee.	original, divisional, continuation, substitute or reisst. United States of America and all other countries, for batents for said invention claiming priority or benefit and including all claims for damages by reason of points own use and the use of its successors, assigns are ority or benefit and the Commissioner of Patents are attents on said improvements or resulting therefrom therein; and the undersigned for me and my legant without further remuneration, to execute and doliver includes to said assignee or its representatives all factive requested, to testify in any interferences or other than the province of the said assignee, its successors, assigns and nominees the expenses incident to eald applications to be born	
Date YOON, Su-Jin Wilness PARK, Seong-hye		ອ filing date and application number of said ອຸກຸປາເວລາວ	
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Wilness PARK, Seong-hye		VOON Su lin	
PARK, Seong-hye	Date	10011, 36-311	
	Wilness		
Typed Name of Witness			
	Typed Name of Witness		

PATENT REEL: 027532 FRAME: 0676

		former PTO/SB/15 (8-00) Modified LDLK&M	
	The second of th	Docket Number (Optional)	
ASSIGN	MENT OF PATENT APPLICATION	LGCHEM	
		,	
		of	
Whereas, I,	YU, Sung-Hoon		
503-120	03, Baengma Maeul 5 Danji Apt., Madu 1-dong 9 Republic of Korea	I, fisalidolig-gu, Goyang-si, Gysongg, so	
4119708	erred to as assignor, have with others invented certain	ain new and useful improvements in	
nereamer ren	UM SECONDARY BATTERY WITH AN	ODE CONTAINING AQUEOUS	
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<b>~~</b>	which an application for a United States Letters Pate	ent was filed on 8/24/11	
	12/202 061	Sile Well in the Sile	
	vhich an application for a United States Letters Pater	at was executed by me on	
<u></u>			
x for v	which an International Application was filed on	February 26, 2010 , as	
PO	CT/KR2010/001264 , designating the United	States.	
And			
	LG Chem, Ltd.		
Whereas,	of Korea, Republic of herein referred to as "assign	nee" whose mailing address is	
20. Yok	do-dong, Youngdungpo-gu, Seoul 150-721 RE	PUBLIC OF KOREA	
ls desirous o	f acquiring the entire right, title and interest in the sa	ame;	
NOW, THEREFORE, in consideration of the sum of one dollars (\$ 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, relssue 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 said applications or patents mey 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 said improvements in all countries, the expenses in			
And I do hereby authorize my attorneys to Insert on this deed the filing date and application number of said application			
when known	•	Frader	
	28 December 2011		
	Date	YU, Sung-Hoon	
_	Jam_		
_	Witness		
	PARK, Seong-hye		
	Typed Name of Witness		
X Tota	al of 2 forms are submitted.		

PATENT REEL: 027532 FRAME: 0677

	former PTO/SB/15 (8-00) Modified LDLK&M		
	Docket Number (Optional)		
ASSIGNMENT OF PATENT APPLICATION	LGCHEM		
	\-\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Whereas, I, JEON, Jong-Ho	of		
9-505, LG Employee Apt., Doryong-dong, Yuseong-gu	J, Daejeon 305-340 Republic of Korea		
hereafter referred to as assignor, have with others invented certain new end useful improvements in LITHIUM SECONDARY BATTERY WITH ANODE CONTAINING AQUEOUS BINDER			
for which an application for a United States Letters Pate	ent was filed on 8/24/11		
Application Number 13/203,061 for which an application for a United States Letters Pater	of was avacuted by me on		
for which an application for a United States Letters Fater	It was executed by the off		
x for which an International Application was filed on	February 26, 2010 , as		
PCT/KR2010/001264 , designating the United	States.		
And			
Whereas, LG Chem, Ltd.	11. 11. 11. 11. 11. 11. 11. 11. 11. 11.		
a corporation of Korea, Republic of herein referred to as "assign	DUBLIC OF KOREA		
20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 RE	POBLIC OF KOKEA		
is desirous of acquiring the entire right, title and interest in the sa	mie,		
NOW, THEREFORE, in consideration of the sum of one dollars (\$ 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 palent application and all original, divisional, continuation, substitute or relissue 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 assignse 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 representatives, heirs and assignse or its essigns, 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 said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to ald assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and pald by said assignee.			
And I do hereby authorize my attorneys to insert on this deed the filling date and application number of said application when known.			
(			
2011, 12, 28			
Date	JEON, Jong-Ho		
•			
Witness			
PARK, Seong-hye Typed Name of Witness			
Typed Marrie of Wildless			
x *Total of 3 forms are submitted.			

PATENT REEL: 027532 FRAME: 0678