Form PTO-1595 (Rev. 09: 04) OMB No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMMERC Unded States Patent and Trademark Off
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(cs) below	
EUN SUOK OH (07/02/2010), YOUNG MIN KIM (07/20/2010), OK SUN KIM (07/20/2010), AND MIN AH KANG (07/20/2010)	Name: LG CHEM, UTD.
Execution Date(s): in parentheses after inventor name	Street Address:
Additional name(s) of conveying party(ies) attached? Yes x No 3. Nature of Conveyance: x Assignment Merger Socurity Agreement Change of Name	LG TWIN TOWERS 20, YEOUHO-DONG YEONGDEUNGPO-GU city:
Covernment Interes! Assignment	State:
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip: 150-721
Other	Additional name(s) & address(es) Yes X No attached:
12/918,864 Additional numbers attached	? Yes XNO
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_Dkt.: LGCHEM 3.3-155	Authorized to be charged by credit card
Street Address: 600 South Avenue West	x Authorized to be charged to deposit account Enclosed Enclosed None required (government interest not affecting title)
City: Westfield	8. Payment Information
State: NJ zip: 07090	a. Credit Card Last 4 Numbers
Phone Number: (908) 518-6320	Expiration Date
Fax Number: (908) 654-0415	b. Deposit Account Number 12-1095
Email Addross: khwang@idlkm.com	Authorized User Name Kelly Y. Hwang
). Signature:	27 August 24, 2010 Date
Kelly Y. Hwang - 51,831 Name of Person Signing	Total number of pages including cover 5 shoel, attachments, and documents:

1244376

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ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
Whereas, I, Euri Suok OH	of
602-502, Banseok-maeul 6 th Apt., Banseok-do OF KOREA	ng, Yoseong-gu, Daejeon, 305-150, REPUBLIC
hereafter reforred to as assignor, have with others invent ANODE COMPOSITION COMPRISING COPOLYMER AS BINDER, METHOD F COMPOSITION AND LITHIUM SECON COMPOSITION	ACRYLONITRILE-ACRYLIC ACID OR PREPARING THE ANODE
X for which an application for a United States Letter Application Number	ers Patent was filed on Concurrently Herowith
for which an application for a United States Letter	s Patent was executed by me on
\mathbf{x} for which an International Application was file	ed on <u>August 7, 2008</u> , as
PCT/KR2008/004596 , designating the	United States.
And	
Whereas, LG Chem, Ltd.	// // // // // // // // // // //
a corporation of Korea, Republic of herein referred to as	
LG Twin Towers: 20. Yeouido-dong; Yeongdeungpo- s desirous of acquiring the entire right, title and interest in	
potent application and all original, divisional, continuation, sub therefor in the United States of America and all other countries patents for said invention claiming priority or benefit of the afore- claims for damages by reason of past infringement with the right successors, assigns and legal representatives, and including t Patents and Trademarks is hereby authorized and requested to i assignee herein, as assignee of the entire interest therein; an assigne herein, as assignee of the entire interest therein; an assigns do hereby agree and coverant without further remunt relasue and other opplications for Letters Patent on said improve communicate to suid assignee or its representatives all facts k requested, to testify in any interferences or other legal proce involved, to sign all lawful papers, make all rightful oaths, and to assigns and nominees to obtain patent protection for said improv- be borne and paid by said assignee.	d all other countries in and to said invention and the aforesaid util actitute or relasue applications and patents applied for or grant is, for said invention, including without limitation all applications a said utility application pursuant to any law or treaty, and including it to sue for and collect the same for its own uso and the use of he right to claim such priority or benefit and the Commissioner issue all patents on said improvements or resulting therefrom to said the undersigned for me and my legal representatives, here a aration, to execute and deliver all original, divisional, continuallo ments and all assignments thereof to said assigned its assigns, nown to the undersigned respecting said improvements, wherever edings in which any of said applications or patents may becom a do generally everything necessary to aid basignee, its successor ements in all countries, the expensed incident to said applications filing date and application number of said application when known
2010/01/02	of Etm Studte
Date	Eun Suok OH
Witness	
Typed Name of Witness	
A Transfer & Frances	аналананан ^{ал} ийий жалагаасаа алагаасаа алагаасаа алагаасаа алагаасаа алагаасаа алагаасаа алагаасаа алагаасаа алагаа
x *Total of 4 forms are submitted, -515:	

F2008-0087US Assignment

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ASSIGNMENT OF UTILITY APPLICATION	termer PTO/SB/15 (8-00) MediBed 3.017 Docket Number (Optional)
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vhereas, (. Young Min KIM	
8-1002 Garam Apt., Samcheon-dong, Seo-gu, Daeleon 30	
ereafter referred to as assigner, have with others invented certain ne ANODE COMPOSITION COMPRISING ACRYLON COPOLYMER AS BINDER, METHOD FOR PREP COMPOSITION AND LITHIUM SECONDARY BA COMPOSITION	TITRILE-ACRYLIC ACID ARING THE ANODE
X for which an application for a United States Letters Patent was Application Number	
for which an application for a United States Letters Patent was	
$\overline{\mathbf{x}}$ for which an International Application was filed on $\underline{\Lambda u}$	gust 7, 2008 , as
PCT/KR2008/004596 , designating the United Stat	
nd	
/hereas, LG Chem, Ltd.	
corporation of Korea, Republic of herein referred to as "assignce" w	hose mailing address is
LG Twin Towers; 20, Yeouido-dong; Yeongdeungpo-gu; Seoul; F	EPUBLIC OF KOREA 150-721
desirous of acquiring the entire right, title and interest in the same;	
Seknowledged, and other good and valuable consideration, i as assigner bitro right, title and interest for the United States of America and all other co- atent application and all original, divisional, continuation, subalitule or role erefor in the United States of America and all other countries, for said low atents for said invention claiming priority or benefit of the aforesaid utility app aims for damages by reason of past infringement with the right to sue for a accessors, assigns and legal representatives, and including the right to cla atents and Tradomarks is hereby authorized and requested to issue all pater isignee herein, as assignee of the entire interest therein; and the undersi issue and other applications for Letters Patent on said improvements and all ommunicate to said assignee or its representatives all facts known to the quested, to testify in any interferences or other legal proceedings in while volved, to sign all lawful papers, make all rightful oaths, and to do generally isigns and nominees to obtain patent protection for said improvements in all borne and paid by sold assignee.	untries in and to said investion and the atoressia usua ssue applications and patents applied for or grant antion, including without limitation all applications ar blicelion pursuant to any low or treaty, and including a and collect the same for its own use and the use of it aim such priority or benefit and the Commissioner - its on said improvements or resulting thereform to sa- gned for me and my legal representatives, heirs ar ecute and deliver all original, divisional, continuation assignments thereof to said assignee or its assigns, i undersigned respecting said improvements, whenevi- ich any of said applications or patents may becom everything necessary to ald assignee, its successor countries, the expenses incident to said applications i
Tube so so Maria	Min KIM
July 20, 20/0 Jouly	
Witness	
Witness Typed Name of Witness	



	former PTO/GB/15 (6-00) Modified (DuksM
ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
	<u> </u>
Whereas, I, Ok Sun KIM	Of
<u>1003 Honorsville, Dunsan1-dong, Seo-gu, Daejeon, 3</u>	302-121, REPUBLIC OF KOREA
hereafter referred to as assignor, have with others invented cer ANODE COMPOSITION COMPRISING ACR COPOLYMER AS BINDER, METHOD FOR I COMPOSITION AND LITHIUM SECONDAR COMPOSITION	YLONITRILE-ACRYLIC ACID PREPARING THE ANODE
X for which an application for a United States Letters Pa	1
Application Number	
for which an application for a United States Letters Pate	
For which an International Application was filed on	
PCT/KR2008/004596 , designating the Unite	d States.
And	
Whereas, LG Chem, Ltd. a corporation of <u>Korea, Republic of</u> herein referred to as "assig LG Twin Towers, 20, Yeouido-dong; Yeongdeungpo-gu; Si is desirous of acquiring the online right, title and interest in the si	eoul; REPUBLIC OF KOREA_150-721
NOW, THEREFORE, in consideration of the sum of <u>one</u> is acknowledged, and other good and valuable consideration. I as as entire right, fittle and interest for the United States of America and all o patont application and all original, divisional, continuation, substitute therefor in the United States of America and all other countries, for 4 patents for said invention claiming priority or banefit of the aforesaid ut claims for damages by reason of past infringement with the right to a successors, assigns and legal representatives, and including the rig- Patents and Trademarks is hereby authorized and requested to issue a assignee herein, as assigned of the entire interest therein; and the assigns do hereby agree and covenant without further remuneration reissue and other applications for Latters Patent on said improvements communicate to said assignee or its representatives all facts known requested, to testify in any interferences or other legal proceedings involved, to sign all lawful papers, make all rightful oaths, and to do gr assigns and nominees to obtain patent protection for said improvement be borne and paid by said assignee.	ther countries in and to said invention and the antiesald utility or relissue applications and patents applied for or granted said invention, including without limitation all applications and filly application pursuant to any law or treaty, and including all use for and collect the same for its own use and the use of its ht to claim such priority or benefit and the Commissioner of all patents on said improvements or resulting therefrom to said undersigned for me and my legal representatives, hors and a, to execute and deliver all original, divisional, continuation, and all assignments thereof to said assignee or its assigns, to to the undersigned respecting said improvements, whenever is in which any of said applications or patents may become enerally everything necessary to aid assignee, its successors, is in all countries, the expenses incident to said applications to the index of the expenses incident to said applications to
And I do hereby authorize my attorneys to insert on this deed the filling	date and application number of said application when known.
July 20. 2010	OK SUN KIM
Date	Ok Sun KIM
Witness	
lyped Name of Witness	
x Total of 4 forms are submitted.	
x *Total of 4 forms are submitted. LD-St5	

F2008-0087US Assignment

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ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
ASSIGNMENT OF OTHER AFFEICATION	
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Whereas, I, Min Ah KANG	of
828 Honorsville, Dunsan 1-dong, See-gu, Daejeon, 302-1	
hereafter referred to as assignor, have with others invented cert ANODE COMPOSITION COMPRISING ACR	TIONITRILE-ACRYLIC ACID
COPOLYMER AS BINDER, METHOD FOR H	
COMPOSITION AND LITHIUM SECONDARY	BATTERY USING THE ANODE
COMPOSITION	
X for which an application for a United States Letters Pat	ent was filed on Concurrently Herewith
Application Number	
for which an application for a United States Letters Pate	
$\overline{\mathbf{x}}$ for which an International Application was filed on	August 7, 2008 . as
1	
PCT/KR2008/004596 , designating the United	d States.
And	
Whereas, LG Chem, Ltd.	
a corporation of Korea, Republic of herein referred to as "assig	nee" whose mailing address is
LG Twin Towers: 20, Yeouido-dong: Yeongdeungpo-gu; So is desirous of acquiring the entire right, title and interest in the s	
is desired s of acquiring the entire right, non and interest in the s	
NOW, THEREFORE, in consideration of the sum of <u>one</u> is acknowledged, and other good and valuable consideration, I as as entire right, title and interest for the United States of America and all of patent application and all original, divisional, continuation, substitute therefor in the United States of America and all other countries, for s patents for said invention claiming priority or benefit of the aforesaid ut claims for damages by reason of past infringement with the right to su successors, assigns and legal representatives, and including the right Patents and Trademarks is hereby authorized and requested to issue a assignee herein, as assignee of the entire interest therein; and the assigne of hereby agree and covenant without further remuneration reissue and other applications for Letters Patent on said improvements communicate to said assignee or its representatives all facts known i requested, to itsdin any interferences or other legal proceedings involved, to sign all lawful papers, make all rightful eaths, and to do ge assignes and nominees to obtain patent protection for said improvement be borne and paid by said assignee.	ther countries in and to said invention and the atoresaid utility or reissue applications and patents applied for or granted aid invention, including without limitation all applications and ality application pursuant to any law or treaty, and including all let for and collect the same for its own use and the use of its it to claim such priority or bonefit and the Commissioner of apatents on said improvements or resulting therefrom to said undersigned for me and my legal representatives, heirs and , to execute and deliver all original, divisional, continuation, and all assignments thereof to said assignce or its assign, to to the undersigned respecting said improvements, whenever in which any of said applications or patents may become increally everything necessary to aid assignee, its successors, s in all countries, the expenses incident to said applications to
July 201 2010	MIN AD KANG
Dale	Min Ah KANG
	AND IN A REAL PARTY OF A REAL
Witness	
Typed Name of Witness	
x Total of 4 forms are submitted.	
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F2008-0087US Assignment

RECORDED: 08/24/2010