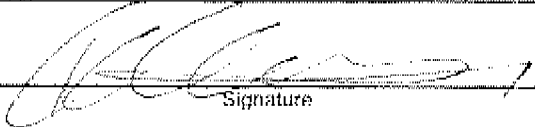
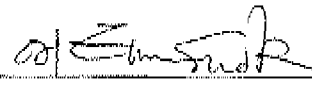


Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

<b>RECORDATION FORM COVER SHEET</b> <b>PATENTS ONLY</b>	
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
<b>1. Name of conveying party(ies)/Execution Date(s):</b> 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)  Execution Date(s): in parentheses after inventor name Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>2. Name and address of receiving party(ies)</b>  Name: <u>LG CHEM, LTD.</u> Internal Address: _____ Street Address: <u>LG TWIN TOWERS</u> <u>20, YEQUIDO-DONG</u> <u>YEONGDEUNGPO-GU</u>  City: <u>SEOUL</u> State: _____ Country: <u>Republic of Korea</u> Zip: <u>150-721</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>3. Nature of Conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	<b>4. Application or patent number(s):</b> <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>12/918,864</u>  B. Patent No.(s)  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5. Name and address to whom correspondence concerning document should be mailed:</b>  Name: <u>Kelly Y. Hwang</u> <u>LERNER, DAVID, LITTENBERG,</u> <u>KRUMHOLZ &amp; MENTLIK, LLP</u>  Internal Address: <u>Atty IDL: LGCHEM 3.3-155</u>  Street Address: <u>600 South Avenue West</u>  City: <u>Westfield</u> State: <u>NJ</u> Zip: <u>07090</u> Phone Number: <u>(908) 518-6320</u> Fax Number: <u>(908) 654-0415</u> Email Address: <u>khwang@ldlkm.com</u>	<b>6. Total number of applications and patents involved:</b> <span style="border: 1px solid black; padding: 2px 10px;">1</span>  <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41)</b> \$ <u>40.00</u>  <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)
<b>8. Payment Information</b> a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>12-1095</u> Authorized User Name <u>Kelly Y. Hwang</u>	
<b>9. Signature:</b> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">             Signature  <u>Kelly Y. Hwang - 51,831</u>            Name of Person Signing         </div> <div style="text-align: right;"> <u>August 24, 2010</u>            Date         </div> </div> <div style="text-align: right; margin-top: 10px;">           Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px 10px;">5</span> </div>	

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	<small>former PTO/SB/15 (8-00) Modified LDLKM</small> <b>Docket Number (Optional)</b>
<p>Whereas, I, <u>Eun Suok OH</u> of</p> <p><u>602-502, Banseok-maoul 6<sup>th</sup> Apt., Banseok-dong, Yoseong-gu, Daejeon, 305-150, REPUBLIC OF KOREA</u></p> <p>hereafter referred to as assignor, have with others invented certain new and useful improvements in</p> <p style="text-align: center;"><b>ANODE COMPOSITION COMPRISING ACRYLONITRILE-ACRYLIC ACID COPOLYMER AS BINDER, METHOD FOR PREPARING THE ANODE COMPOSITION AND LITHIUM SECONDARY BATTERY USING THE ANODE COMPOSITION</b></p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>Concurrently Herewith</u></p> <p style="padding-left: 40px;">Application Number _____</p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____</p> <p><input checked="" type="checkbox"/> for which an International Application was filed on <u>August 7, 2008</u>, as</p> <p style="padding-left: 40px;"><u>PCT/KR2008/004596</u>, designating the United States.</p> <p>And</p> <p>Whereas, <u>LG Chem, Ltd.</u></p> <p>a corporation of <u>Korea, Republic of</u> herein referred to as "assignee" whose mailing address is</p> <p style="padding-left: 40px;"><u>LG Twin Towers, 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, REPUBLIC OF KOREA 150-721</u></p> <p>is desirous of acquiring the entire right, title and interest in the same;</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u> ), 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 said 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 said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p> <p>And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"> <u>2010/07/02</u>  Date </div> <div style="text-align: center;">   Eun Suok OH </div> </div> <div style="margin-top: 20px;"> <p style="text-align: center;">_____ Witness</p> <p style="text-align: center;">_____ Typed Name of Witness</p> </div>	

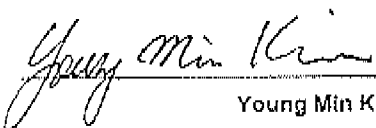
☒ \*Total of 4 forms are submitted.

LD-515:

P2008-0087US Assignment

**PATENT**  
**REEL: 024910 FRAME: 0005**

former PTO/SB/15 (8-00) Modified LDLKM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
<p>Whereas, I, <u>Young Min KIM</u> of</p> <p><u>8-1002 Garam Apt., Samcheon-dong, Seo-gu, Daejeon 305-150, REPUBLIC OF KOREA</u></p> <p>hereafter referred to as assignor, have with others invented certain new and useful improvements in</p> <p><b>ANODE COMPOSITION COMPRISING ACRYLONITRILE-ACRYLIC ACID COPOLYMER AS BINDER, METHOD FOR PREPARING THE ANODE COMPOSITION AND LITHIUM SECONDARY BATTERY USING THE ANODE COMPOSITION</b></p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>Concurrently Herewith</u></p> <p>Application Number _____</p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____</p> <p><input checked="" type="checkbox"/> for which an International Application was filed on <u>August 7, 2008</u>, as</p> <p><u>PCT/KR2008/004596</u>, designating the United States.</p> <p>And</p> <p>Whereas, <u>LG Chem, Ltd.</u></p> <p>a corporation of <u>Korea, Republic of</u> herein referred to as "assignee" whose mailing address is</p> <p><u>LG Twin Towers; 20, Yeouido-dong; Yeongdeungpo-gu; Seoul; REPUBLIC OF KOREA 150-721</u></p> <p>is desirous of acquiring the entire right, title and interest in the same;</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), 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 said 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 said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p> <p>And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"> <p><u>July 20, 2010</u></p> <p>Date</p> </div> <div style="text-align: center;">   <p>Young Min KIM</p> </div> </div> <div style="margin-top: 20px;"> <p>_____ Witness</p> <p>_____ Typed Name of Witness</p> </div>	

☒ \*Total of 4 forms are submitted.

LD-5131



<b>ASSIGNMENT OF UTILITY APPLICATION</b>	<small>(former PTO/SB/15 (8-00) Modified: DUK&amp;M)</small> <b>Docket Number (Optional)</b>
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Whereas, I, Ok Sun KIM of

1003 Honorsville, Dunsan1-dong, Seo-gu, Daejeon, 302-121, REPUBLIC OF KOREA

hereafter referred to as assignor, have with others invented certain new and useful improvements in

**ANODE COMPOSITION COMPRISING ACRYLONITRILE-ACRYLIC ACID COPOLYMER AS BINDER, METHOD FOR PREPARING THE ANODE COMPOSITION AND LITHIUM SECONDARY BATTERY USING THE ANODE COMPOSITION**

☒ for which an application for a United States Letters Patent was filed on Concurrently Herewith

Application Number \_\_\_\_\_

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_

☒ for which an International Application was filed on August 7, 2008, as

PCT/KR2008/004596, designating the United States.

And

Whereas, LG Chem, Ltd.

a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is

LG Twin Towers, 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, REPUBLIC OF KOREA 150-721

is 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 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 said 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 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 insert on this deed the filing date and application number of said application when known.

July 20, 2010 Ok Sun KIM VSM

Date Ok Sun KIM

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Typed Name of Witness

☒ \*Total of 4 forms are submitted.

former PTO/SB/15 (8-00) Modified LDLK&amp;M

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional)
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Whereas, I, Min Ah KANG of

828 Honorsville, Dunsan 1-dong, Seo-gu, Daejeon, 302-121, REPUBLIC OF KOREA

hereafter referred to as assignor, have with others invented certain new and useful improvements in

**ANODE COMPOSITION COMPRISING ACRYLONITRILE-ACRYLIC ACID  
COPOLYMER AS BINDER, METHOD FOR PREPARING THE ANODE  
COMPOSITION AND LITHIUM SECONDARY BATTERY USING THE ANODE  
COMPOSITION**

☒ for which an application for a United States Letters Patent was filed on Concurrently Herewith  
Application Number \_\_\_\_\_

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_

☒ for which an International Application was filed on August 7, 2008, as  
PCT/KR2008/004596, designating the United States.

And

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a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is  
LG Twin Towers, 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, REPUBLIC OF KOREA 150-721  
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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, 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 said 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 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 insert on this deed the filing date and application number of said application when known.

July 20, 2010

Date

Min Ah KANG

Min Ah KANG

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Typed Name of Witness

☒ \*Total of 4 forms are submitted.

LD-515

F2008-0087US Assignment

**PATENT****RECORDED: 08/24/2010****REEL: 024910 FRAME: 0008**