

Form PTO-1595 (Rev. 03-11)  
OMB 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 record the attached documents or the new address(es) below.

### 1. Name of conveying party(ies):

Su-Jin Yoon (12/28/2011), Sung-Hoon Yu  
(12/28/2011), and Jong-Ho Jeon (12/28/2011)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

### 2. Name and address of receiving party(ies)

Name: LG Chem, Ltd.

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

LG Twin Towers  
20, Yeouido-dong  
Yeongdeungpo-gu

City: Seoul

State: \_\_\_\_\_

Country: Republic of Korea Zip: 150-721

Additional name(s) & address(es) attached? ☐ Yes ☒ No

### 3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name

☐ Security Agreement ☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other \_\_\_\_\_

### 4. Application or patent number(s):

A. Patent Application No.(s)

13/203,061

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

### 5. Name and address to whom correspondence concerning document should be mailed:

Name: Kelly Y. Hwang  
LERNER, DAVID, LITTENBERG,  
KRUMHOLZ & MENTLIK, LLP

Internal Address: Atty. Dkt.: LGCHEM 3.3-176

Street Address: 600 South Avenue West

City: Westfield

State: NJ Zip: 07090

Phone Number: 908-654-5000

Fax Number: 908-654-7866

Email Address: ataylor@ldlkm.com

### 6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☒ Authorized to be charged to deposit account

☐ Enclosed

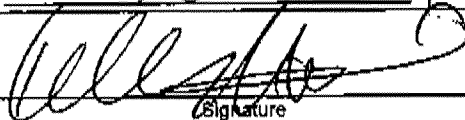
☐ None required (government interest not affecting title)

### 8. Payment information

Deposit Account Number 12-1095

Authorized User Name Kelly Y. Hwang

### 9. Signature:



January 4, 2012

Date

Kelly Y. Hwang - 51,831

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

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

<b>ASSIGNMENT OF PATENT APPLICATION</b>	Docket Number (Optional) <b>LGCHEM</b>
---	---


Whereas, 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 certain new and useful improvements in  
**LITHIUM SECONDARY BATTERY WITH ANODE CONTAINING AQUEOUS BINDER**  
☒ 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 \_\_\_\_\_  
☒ for which an International Application was filed on February 26, 2010, as  
PCT/KR2010/001264, designating the United States.


And  
 Whereas, LG Chem, Ltd.  
 a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is  
20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 REPUBLIC OF KOREA  
 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.

December 8, 2011  
 Date

  
 YOUN, Su-Jin

  
 Witness

PARK, Seong-hye  
 Typed Name of Witness

☒ Total of 1 forms are submitted.

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

<b>ASSIGNMENT OF PATENT APPLICATION</b>	Docket Number (Optional) <b>LGCHEM</b>
---	---

Whereas, I, YU, Sung-Hoon of  
503-1203, Baengma Maeul 5 Danji Apt., Madu 1-dong, Ilsandong-gu, Gyeonggi-do  
411-709 Republic of Korea

hereafter referred to as assignor, have with others invented certain new and useful improvements in  
**LITHIUM SECONDARY BATTERY WITH ANODE CONTAINING AQUEOUS BINDER**

☒ 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 \_\_\_\_\_

☒ for which an International Application was filed on February 26, 2010, as  
PCT/KR2010/001264, designating the United States.


And

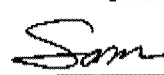
Whereas, LG Chem, Ltd.  
 a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is  
20, Yoldo-dong, Youngdungpo-gu, Seoul 150-721 REPUBLIC OF KOREA  
 is desirous of acquiring the entire right, title and interest in the same;

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.

28 December 2011  
 Date

  
 YU, Sung-Hoon

  
 Witness  
PARK, Seong-hye  
 Typed Name of Witness

☒ Total of 2 forms are submitted.

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

<b>ASSIGNMENT OF PATENT APPLICATION</b>	Docket Number (Optional) LGCHEM
---	------------------------------------

Whereas, I, JEON, Jong-Ho of  
9-505, LG Employee Apt., Doryong-dong, Yuseong-gu, Daejeon 305-340 Republic of Korea

hereafter referred to as assignor, have with others invented certain new and useful improvements in  
**LITHIUM SECONDARY BATTERY WITH ANODE CONTAINING AQUEOUS BINDER**

☒ 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 \_\_\_\_\_

☒ for which an International Application was filed on February 26, 2010, as  
PCT/KR2010/001264, designating the United States.

And

Whereas, LG Chem, Ltd.  
a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is  
20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 REPUBLIC OF KOREA  
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.

2011. 12. 28  
Date

[Signature]  
JEON, Jong-Ho

[Signature]  
Witness

PARK, Seong-hye  
Typed Name of Witness

☒ \*Total of 3 forms are submitted.

PATENT

RECORDED: 01/04/2012

REEL: 027532 FRAME: 0678