

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):

Dae-Jong Seo (08/04/2008), Sang-Young Lee
(08/04/2008), Seok-Koo Kim (08/04/2008), and
Jang-Hyuk Hong (08/04/2008)

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)

13/327,976

☐ 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 3.3-018 DIV

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:


Signature

January 3, 2012

Date

Kelly Y. Hwang - 51,831

Name of Person Signing

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

5

CH \$40.00 121095 13327976

ASSIGNMENT OF UTILITY APPLICATION	former PTO/GB/15 (8-00) Modified LDLKM Docket Number (Optional) LGCHEM 3.3-018
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Whereas, I, SEO, Dae-Jong of
103-1904, Yangjimaegul 1Danji Sambu Apartment, Banseok-dong, Yuseong-gu, Daejeon 305-
750, Republic of Korea

hereafter referred to as assignor, have with others invented certain new and useful improvements in
ORGANIC/INORGANIC COMPOSITE ELECTROLYTE AND ELECTROCHEMICAL DEVICE
PREPARED THEREBY

☒ for which an application for a United States Letters Patent was filed on 12/16/11
 Application Number 13/327,976

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

☒ for which an International Application was filed on February 18, 2007, as
PCT/KR2007/000848, 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 or patents may become involved, to sign all lawful papers, make all
 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.

2008-8-4
 Date
[Signature]
 Witness
Jo, Kyong-Nam
 Typed Name of Witness

[Signature: SEO Dae-Jong]
 SEO, Dae-Jong

☒ Total of 4 forms are submitted.

LD-515



62-28-06511-12

former PTO/EIS/15 (8-03) Modified LDLKM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) LGCHEM 3.3-018
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Whereas, I, LEE, Sang-Young of
103-904, Expo Apartment, Jeonmin-dong, Yuseong-gu, Daejeon 305-761, Republic Of Korea
 hereafter referred to as assignor, have with others invented certain new and useful improvements in
ORGANIC/INORGANIC COMPOSITE ELECTROLYTE AND ELECTROCHEMICAL DEVICE
PREPARED THEREBY

☒ for which an application for a United States Letters Patent was filed on 12/16/11
 Application Number 13/327,976

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

☒ for which an International Application was filed on February 16, 2007, as
PCT/KR2007/000848, 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.

2008-8-4
 Date

[Signature]
 LEE, Sang-Young

[Signature]
 Witness

Jo, Kyung - Nam
 Typed Name of Witness

☒ Total of 4 forms are submitted.

LD-515



07-08-08 11:11

former PTO/SB/15 (8-07) Modified LDLKM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) LGCHEM 3.3-018
<p>Whereas, I, <u>KIM, Seok-Koo</u> of <u>317-8, Jangdae-dong, Yuseong-gu, Daejeon 305-308, Republic of Korea</u> hereafter referred to as assignor, have with others invented certain new and useful improvements in ORGANIC/INORGANIC COMPOSITE ELECTROLYTE AND ELECTROCHEMICAL DEVICE PREPARED THEREBY</p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>12-16-11</u> Application Number <u>13/327,976</u></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>February 16, 2007</u>, as <u>PCT/KR2007/000848</u>, designating the United States.</p> <p>And</p> <p>Whereas, <u>LG Chem, Ltd.</u> a corporation of <u>Korea Republic of</u>, herein referred to as "assignee" whose mailing address is <u>LG Twin Towers, 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, REPUBLIC OF KOREA 150-721</u> 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> <p><u>2012-8-11</u> Date</p> <p><u>[Signature]</u> KIM, Seok-Koo</p> <p><u>[Signature]</u> Witness</p> <p><u>JO, Kyung-Nam</u> Typed Name of Witness</p>	

<input checked="" type="checkbox"/>	Total of 4 forms are submitted.
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LD-515A

LGChem
200808151514010

01-000000

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

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) LGCHEM 3.3-018
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Whereas, I, HONG, Jang-Hyuk of
105-606, Gukhwa Apartment, 991, Samcheon-dong, Seo-gu, Daejeon 302-762, Republic of Korea
 hereafter referred to as assignor, have with others invented certain new and useful Improvements in
ORGANIC/INORGANIC COMPOSITE ELECTROLYTE AND ELECTROCHEMICAL DEVICE PREPARED THEREBY

☒ for which an application for a United States Letters Patent was filed on 12-16-11
 Application Number 13/327,976

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

☒ for which an International Application was filed on February 16, 2007, as
PCT/KR2007/000848, 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.

2008-8-4
 Date
[Signature]
 Witness
Jo, Kyong-Nam
 Typed Name of Witness

[Signature]
 HONG, Jang-Hyuk

☒ Total of 4 forms are submitted.

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 LGChem
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