

Form PTO-1595 (Rev. 09/04)
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U.S. DEPARTMENT OF COMMERCE
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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)/Execution Date(s):
JEONG-JU CHO (10/27/2009), HO-CHUN LEE
(10/28/2009), SU-JIN YOON (11/20/2010), AND
SOO-MIN PARK (10/28/2009)

Execution Date(s): In parentheses after inventor name:
Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

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

4. Application or patent number(s):
A. Patent Application No.(s)
12/447,042

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 3.3-100

Street Address: 600 South Avenue West

City: Westfield

State: NJ Zip: 07090

Phone Number: (908) 518-6320

Fax Number: (908) 654-0415

Email Address: khwang@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 by credit card

Authorized to be charged to deposit account

Enclosed

None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 12-1095
Authorized User Name Kelly Y. Hwang

9. Signature:

Signature

April 27, 2011
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 12447042

former PTO/SU/15 (R-00) Modified LDLKAM

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

Whereas, I, CHO, Jeong-Ju of 108-1201, Daejeok Techno Valley Apartment, Gwanngyeons-dong, Yuseong-gu, Daejeon 305-509, Republic of Korea

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

NON-AQUEOUS ELECTROLYTE AND ELECTROCHEMICAL DEVICE COMPRISING THE SAME

- for which an application for a United States Letters Patent was filed on _____ 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 October 19, 2007 as PCT/KR2007/005125, 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.

2009-10-27
Date


CHO, Jeong-Ju


Witness

SKIM Young PARK
Typed Name of Witness

*Total of 4 forms are submitted.

PATENT

Form PTO/SB16 (8-00) Modified LDLKM

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

Whereas, I, LEE, Ho-Chun of 508-1803, Sindonga Familie Apartment, Gwanpyeong-dong, Yuseong-gu, Daejeon 305-745, Republic of Korea

hereafter referred to as assignor, have with others invented certain new and useful improvements in NON-AQUEOUS ELECTROLYTE AND ELECTROCHEMICAL DEVICE COMPRISING THE SAME

- for which an application for a United States Letters Patent was filed on _____ 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 October 19, 2007, as PCT/KR2007/005125, 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.

10/28/09
Date


LEE, Ho-Chun


Witness

Shin Kyung PARK
Typed Name of Witness

Total of 4 forms are submitted.

PATENT

former PTO/SB/15 (3-00) Modified LDLKM

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

Whereas, I, YOON, Su-Jin of 392, Youngin Jeonwon-maeul, Samhap-d, Silchon-eup, Gwangju-si, Gyeonggi-do 464-674, Republic of Korea 51-4, Jeongja-dong Buridang-gu, Seongnam-si, Gyeonggi-do 463-874, Republic of Korea

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

NON-AQUEOUS ELECTROLYTE AND ELECTROCHEMICAL DEVICE COMPRISING THE SAME

- for which an application for a United States Letters Patent was filed on _____ 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 October 19, 2007 as PCT/KR2007/005125, 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.



2007/11/20
Date


YOON, Su-Jin


Witness
JO, Kyong-Nam
Typed Name of Witness

*Total of 4 forms are submitted.

former PTO/SB/15 (5-00) Modified 1,DLK&M

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
<p>Whereas, I, <u>PARK, Soo-Min</u> of <u>LG Chem Research Park Patent Management Team, 104-1, Munil-dong, Yuseong-gu, Daejeon 305-380, Republic of Korea</u></p> <p>hereafter referred to as assignor, have with others invented certain new and useful improvements in <u>NON-AQUEOUS ELECTROLYTE AND ELECTROCHEMICAL DEVICE COMPRISING THE SAME</u></p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was filed on _____ 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>October 19, 2007</u>, as <u>PCT/KR2007/005125</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>20, Yoido-dong, Youngdungpo-gu, Seoul 150-721, Republic of Korea</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 style="text-align: center;"> <u>2009-10-28</u> Date  _____ PARK, Soo-Min </p> <p style="text-align: center;">  _____ Witness <u>Shin Kwang PARK</u> Typed Name of Witness </p>	
<input checked="" type="checkbox"/> *Total of <u>4</u> forms are submitted.	

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