

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):

Hey Woong Park (02/10/2009), Seungtaek Hong
(02/10/2009), Ra Young Hwang (02/10/2009),
Jisang Yu (02/10/2009), and

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)
13/343,302

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 3.3-051 CON
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:

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

Authorized to be charged to deposit account

Enclosed

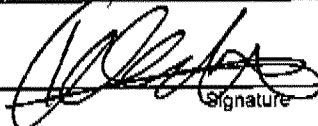
None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 12-1095

Authorized User Name Kelly Y. Hwang

9. Signature:



Signature

January 5, 2012

Date

Kelly Y. Hwang - 51,831

Name of Person Signing

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

CH \$40.00 121095 13343302

RECORDATION FORM COVER SHEET (PTO-1595) (supplemental sheet)	
Additional Conveying Party(ies)/Execution Date(s) (1. Continued): John E. Namgoong (01/20/2009)	
Additional Assignees (2. Continued): Assignee Name: _____ Internal Address: _____ Street Address: _____ City: _____ State: _____ Country: _____ Zip: _____	
Assignee Name: _____ Internal Address: _____ Street Address: _____ City: _____ State: _____ Country: _____ Zip: _____	
Assignee Name: _____ Internal Address: _____ Street Address: _____ City: _____ State: _____ Country: _____ Zip: _____	
Additional Applications and/or Patents (4. Continued):	
Additional Patent Application Numbers 4A. Continued:	Additional Patent Numbers 4B. Continued:
Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	

former PTO/5815 (8-00) Modified LOLLGM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
	LGCHEM 3.3-051

Whereas, I, Hey Woong Park of
108-1 Techno Valley Hanwa Gaumegreen Apt.; Gwanpyeong-dong, Yuseong-gu; Daejeon; ;
REPUBLIC OF KOREA 305-509

hereafter referred to as assignor, have with others invented certain new and useful improvements in
STACKING-TYPED SECONDARY BATTERY PROVIDING TWO OR MORE OPERATION
VOLTAGES

- for which an application for a United States Letters Patent was filed on 1/4/2012,
Application Number 13/343,302
- for which an application for a United States Letters Patent was executed by me on _____
- for which an International Application was filed on June 5, 2007, as
PCT/KR2007/002710, 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.

109.02.10 Date Hey Woong Park
[Signature]
Witness
Young Tae Kim
Typed Name of Witness

*Total of 5 forms are submitted.

LD-5151

former PTO/SB/16 (8-00) Modified LDLKM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
	LGCHEM 3.3-051

Whereas, I, Seungtaek Hong of

3-803 Hangang Apt; Jamwon-dong, Seocho-gu; Seoul; REPUBLIC OF KOREA 137-798

hereafter referred to as assignor, have with others invented certain new and useful Improvements in
STACKING-TYPED SECONDARY BATTERY PROVIDING TWO OR MORE OPERATION VOLTAGES

for which an application for a United States Letters Patent was filed on 1/4/2012

Application Number 13/343,302

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

for which an International Application was filed on June 5, 2007, as

PCT/KR2007/002710, 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.

109.02.10

Date

Seungtaek Hong

Witness

Yong Taek Kim

Typed Name of Witness

*Total of 5 forms are submitted.

LD-515

former PTO/SB/15 (E-01) Modified LDLKM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) LGCHEM 3.3-051
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Whereas, I, Ra Young Hwang of
303, Sinyeollip, LG Chem Sawon Apt., Doryong-dong, Yuseong-gu, Daejeon, REPUBLIC OF KOREA 305-340

hereafter referred to as assignor, have with others invented certain new and useful improvements in
STACKING-TYPED SECONDARY BATTERY PROVIDING TWO OR MORE OPERATION VOLTAGES

for which an application for a United States Letters Patent was filed on 1/4/2012
 Application Number 13/343,302

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

for which an International Application was filed on June 5, 2007, as
PCT/KR2007/002710, designating the United States.

And

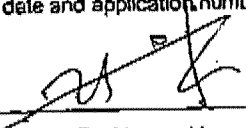
Whereas, LG Chem, Ltd.
 a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is
LG Twin Towers, 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, REPUBLIC OF KOREA 150-721
 is desirous of acquiring the entire right, title and interest in the same;

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.

109.02.10

 Date



 Ra Young Hwang



 Witness

Young Taek Kim

 Typed Name of Witness

*Total of 5 forms are submitted.

LD-515A

former PTO/BB/15 (8-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) LGCHEM 3.3-051
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Whereas, I, Jisang Yu of
41, Daedeok Techno Valley 2-danji, 666, Gwanpyeong-dong, Yuseong-gu, Daejeon; REPUBLIC OF KOREA 305-509

hereafter referred to as assignor, have with others invented certain new and useful improvements in
STACKING-TYPED SECONDARY BATTERY PROVIDING TWO OR MORE OPERATION VOLTAGES

for which an application for a United States Letters Patent was filed on 1/4/2012
 Application Number 13/343,302

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

for which an International Application was filed on June 5, 2007, as
PCT/KR2007/002710, 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.

109.02.10

 Date

Jisang Yu

 Jisang Yu

[Signature]

 Witness



Young Eal Kim

 Typed Name of Witness

*Total of 5 forms are submitted.

LD-515

former PTO/BB15 (8-00) Modified LDLKM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) LGCHEM 3.3-051
Whereas, I, <u>John E. Namgoong</u> of	
<u>7-402, LG Chem Sawon Apt.; Doryong-dong, Yuseong-gu; Daejeon; : REPUBLIC OF KOREA</u> <u>305-340</u>	
hereafter referred to as assignor, have with others invented certain new and useful improvements in STACKING-TYPED SECONDARY BATTERY PROVIDING TWO OR MORE OPERATION VOLTAGES	
<input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>1/4/2012</u> Application Number <u>13/343,302</u>	
<input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____	
<input checked="" type="checkbox"/> for which an International Application was filed on <u>June 5, 2007</u> , as <u>PCT/KR2007/002710</u> , designating the United States.	
And	
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;	
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.	
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.	
<u>1/20/09</u> Date	 John E. Namgoong
 Witness	
<u>Youn-Tal Kim</u> Typed Name of Witness	

*Total of 5 forms are submitted.

LD-515