Form PTO-1595 (Rev. 03-11) DMB No. 0651-0027 (exp. 03/31/2012)	U.S. DEPARTMENT OF COMMERCE United States Patent and <u>Trademark Office</u>
RECORDATION FOR	M COVER SHEET
PATENTS	S ONLY
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.
Name of conveying party(ies):	2. Name and address of receiving 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(les) attached? X Yes No	Name: LG Chem, Ltd. Internal Address: Street Address: LG Twin Towers
Execution Date(s): In parentheses after inventor name X Assignment Merger Change of Name Security Agreement Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License	20, Yeouido-dong Yeongdeungpo-gu City: Seoul State: Country: Republic of Korea Zip: 150-721
Other 4. Application or patent number(s): A. Patent Application No.(s) 13/343,302	Additional name(s) & address(es) Yes X No attached? This document is being filed together with a new application. B. Patent No.(s)
Additional numbers attached 5. Name and address to whom correspondence concerning document should be malled:	Yes X No 6. Total number of applications and patents involved:
Name: Kelly Y, Hwang LERNER, DAVID, LITTENBERG, KRUMHOLŽ & MENTLIK, LLP Internal Address: Atty, Dkt.: LGCHEM 3.3-051 CON Street Address: 600 South Avenue West	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 X Authorized to be charged to deposit account Enclosed None required (government interest not affecting title
City: Westfield State: NJ Zip: 07090 Phone Number: 908-654-5000 Fax Number: 908-654-7866 Email Address: ataylor@ldlkm.com	8. Payment Information Deposit Account Number 12-1095 Authorized User Name Kelly Y. Hwang
9. Signature: Kelly Y. Hwang - 51,831 Name of Person Signing	January 5, 2012 Date Total number of pages including cover sheet, attachments, and documents:

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PATENT REEL: 027532 FRAME: 0868

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	RECORDATION (:	FORM COVER SHEET (PTO-1595) supplemental sheet)	
Additional Conveyir	ng Party(ies)/Exec	cution Date(s) (1. Continued):	
John E. Namgoong (01	/20/2009)		
Additional Assignee	es (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:			
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Additional Applicat	ions and/or Paten	nts (4. Continued):	***
Additional Patent Application 4A, Continued:		Additional Patent Numbers 4B. Continued;	
	Additional numbe	rs attached? Yes No	· ·

Docket No.: LGCHEM 3.3-051 CON

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	Docket Nu	inber (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	LGCHE	M 3.3-051	
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108-1 Techno Valley Hanwa Goumegreen Apt.; Gwani	<u>yeong-dong, Yuseong-g</u>	<u>u; Daejeon; ;</u>	
REPUBLIC OF KOKEK SUPSUS reafter referred to as assignor, have with others invented cereafter referred to as assignor, have with others invented cereafter referred to as assignor, have with others invented cereafter referred to as assignor.	iolna TWO OR MORE	OPERATION	
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x for which an International Application was filed or		•	
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hereas, LG Chem, Ltd.	and the police and the	ss is	
hereas. LG Chem, Ltd. corporation of Korea, Republic of herein referred to as "ass	gnee" Whose Halling addit	REA 150-721	
LG Twin Towers; 20, Yeouldo-dong; Yeongdeungpo-gu; desirous of acquiring the entire right, title and interest in the	/ / / / / / / / / / / / / / / / / / / /	·	
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OW, THEREFORE, in consideration of the sum of <u>one</u> : acknowledged, and other good and valuable consideration ssignee my entire right, title and interest for the United States and interest for the United States and acknowledged to the states of the states	dollars (\$ 1.00) I, I as assignor hereby se rates of America and all (I original, divisional, cont	II. assign and set over to other countries in and to inuation, substitute or re-	o sak o sak sissu es. fo
OW, THEREFORE, in consideration of the sum of <u>one</u> acknowledged, and other good and valuable consideration segme my entire right, fittle and interest for the United Segment on the aforesaid utility patent application and applications and patents applied for or granted therefor in the aid invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty infringement with the right to sue for and collect the same for again representatives, and including the right to claim such frademarks is hereby authorized and requested to issue all aid assignee herein, as assignee of the entire interest expresentatives, heirs and assignee of the entire interest expresentatives, heirs and assignee or its assigns, to contain the interest of the entire interest and other applications thereof to said assignee or its assigns, to contain the interest of the entire interest and other application of the undersigned respecting said improvements, we egal proceedings in which any of said applications or pater all rightful oaths, and to do generally everything necessary obtain patent protection for said improvements in all countries.	dollars (\$ 1.00 a. I as assignor hereby set ates of America and all of original, divisional, contine United States of America patents for sald invention and including all claims in its own use and the use priority or benefit and the patents on said improver therein; and the undernant without further remulcations for Letters Patent municate to said assigned the said assi	II. assign and set over to other countries in and to inuation, substitute or recall and all other countries and all other countries of claiming phority or berior damages by reason to of its successors, assignents or resulting therefisigned for me and my heration, to execute and on said improvements are or its representatives a sity in any interferences of to sign all lawful papers isors, assigns and nomition said applications to be	o said o pas o said o pas o said o pas o said o la said o la said o
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	former PTO/SB/16 (8-00) Modified LDUKSM
	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	LGCHEM 3.3-051
Whereas, I. Seungtaek Hong	of
Seocho-du: Seocho-du: Seocho-du: Seouli	REPUBLIC OF KOREA 137-798
3-803 Hangang Apt., Janiworpuchig. hereafter referred to as assignor, have with others invented cert STACKING-TYPED SECONDARY BATTERY PROV VOLTAGES	IDING TWO OR MORE OPERATION
Caption for a Hollert States Letters Par	tent was filed on 1/4/2012
13/3/3 302	
Application Number 197343, 302 Enters Pater for which an application for a United States Letters Pater	nt was executed by me on
x for which an international Application was filed on	June 5, 2007 , as
PCT/KR2007/002710 , designating the Unite	d States.
And	·
Whereas, LG Chem, Ltd. a corporation of Korea, Republic of herein referred to as "assignment of the corporation of the corporat	nee" whose mailing address is
a corporation of Korea, Republic of herein referred to as assistance LG Twin Towers; 20, Yeouido-dong; Yeongdeungpo-gu; S	eoul; REPUBLIC OF KOREA 150-721
is desirous of acquiring the entire right, title and interest in the	şame;
NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration assignee my entire right, title and interest for the United St invention and the aforesald utility patent application and all applications and patents applied for or granted therefor in the said Invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty, infringement with the right to sue for and collect the same for legal representatives, and including the right to claim such particularly said assignee herein, as assignee of the entire interest said assignee herein, as assignee of the entire interest all original, divisional, combinuation, reissue and other applications thereof to said assignee or its assigns, to combine the undersigned respecting said improvements, which any of said applications or patenall rightful oaths, and to do generally everything necessary to obtain patent protection for said improvements in all countries and pald by said assignee.	original, divisional, continuation, substitute of research to United States of America and all other countries, for an united states of America and all other countries, for an including all claims for damages by reason of past and including all claims for damages by reason of past its own use and the use of its successors, assigns and priority or benefit and the Commissioner of Patents and patents on said Improvements or resulting therefrom to therein; and the undersigned for me and my legal mant without further remuneration, to execute and deliver sations for Letters Patent on said improvements and all municate to said assignee or its representatives all facts therefore requested, to testify in any interferences or other its may become involved, to sign all lawful papers, make to aid assignee, its successors, assigns and nominees to so, the expenses incident to said applications to be borned.
And I do hereby authorize my attorneys to Insert on this deed	the filing date and application number of said application
when known.	a well
109.02.10	2000
Date	Seungtaek Hong
Witness	
Typed Name of Witness	· ·

LDLKM

LD-515\

*Total of

forms are submitted.

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

Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION **LGCHEM 3.3-051** Whereas, I. Ra Young Hwang 303, Sinyeollip, LG Chem Sawon Apt.; Doryong-dong, Yuseong-qu; 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** 1/4/2012 for which an application for a United States Letters Patent was filed on 13/343,302 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 June 5, 2007 PCT/KR2007/002710 , designating the United States. 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; Seoui; REPUBLIC OF KOREA 150-721 Is desirous of acquiring the entire right, title and interest in the same;), the receipt whereof dollars (\$ 1.00 NOW, THEREFORE, In consideration of the sum of one 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 aforesald 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 aforesald 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 filling date and application, number of said application when known. 49. oz 、ん Ra Young Hwang TOUS TOLKIN Typed Name of Witness

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LD-5153

*Total of

forms are submitted.

	former PTO/SBV15 (8-00) Modified LDLK&M
	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	LGCHEM 3,3-051
Whereas, I, Jisang Yu	of OSPUBLIC
41. Daedeok Techno Valley 2-danii, 666, Gwanpyeong-	dong, Yuseong-gu; Daejeon; ; REPOBLIC
AC VAREA 305-509	i i i i i i i i i i i i i i i i i i i
hereafter referred to as assignor, have with others invented cert STACKING-TYPED SECONDARY BATTERY PROVI	DING TWO OR MORE OPERATION
CT)	ent was filed on1/4/2012
Application Number 13/343, 302	
for which an application for a United States Letters Pate	nt was executed by me on
x for which an International Application was filed on	
PCT/KR2007/002710 , designating the United	
And	
Whereas, LG Chern, Ltd.	#
by the series to formed to as "ASSIC	inee" whose mailing address is
C Twin Towers: 20 Yeouldo-dong; Yeongdeungpo-gu, S	duui, ryer oomis o
is desirous of acquiring the entire right, title and interest in the s	dollars (\$ 1.00), the receipt whereof
NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Stainvention and the aforesaid utility patent application and all applications and patents applied for or granted therefor in the said invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty, infringement with the right to sue for and collect the same for legal representatives, and including the right to claim such patentariks is hereby authorized and requested to issue all said assignee herein, as assignee of the entire interest representatives, helds and assignee of the entire interest all original, divisional, continuation, reissue and other applicationally assignments thereof to said assignee or its assigns, to commit known to the undersigned respecting said improvements, who legal proceedings in which any of said applications or patent all rightful calhs, and to do generally everything necessary to obtain patent protection for said improvements in all countries and paid by said assignee.	original, divisional, continuation, substitute or reissue a United States of America and all other countries, for patents for said invention claiming priority or benefit of and including all claims for damages by reason of past its own use and the use of its successors, assigns and clority or benefit and the Commissioner of Patents and patents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal sant without further remuneration, to execute and deliver after the transfer of the said assignee or its representatives all facts an acceptance of the said assignee, its successors, assigns and nominees to the expenses incident to said applications to be borne.
And I do hereby authorize my attorneys to insert on this deed when known.	the filling bate and application formal
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109. °Z. 10	Jisang Yu
Date	5002.0
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Witness	
Typed Name of Witness	

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Total of 5 forms are submitted.

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	I I
ASSIGNMENT OF UTILITY APPLICATION	LGCHEM 3.3-051
Whereas, I, John E. Namgoong	of
7-402, LG Chem Sawon Apt.; Doryong-dong, Yuseong-gt 305-340	
hereafter referred to as assignor, have with others invented certain STACKING-TYPED SECONDARY BATTERY PROVID VOLTAGES	ING TWO OR MORE DEERATION
for which an application for a United States Letters Pater Application Number 13/343,302	
for which an application for a United States Letters Patent	
x for which an International Application was filed on _	June 5, 2007 , as
PCT/KR2007/002710 , designating the United S	States.
Whereas, LG Chern, Ltd.	
a corporation of Korea, Republic of herein referred to as "assigned	ee" whose mailing address is
LG Twin Towers; 20, Yeouido-dong; Yeongdeungpo-gu; Seo	III; REPUBLIC OF KOREA 150-721
is desirous of acquiring the entire right, title and interest in the sar	ne; ollans (\$ 1,00), the receipt whereof
NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration. It assignee my entire right, title and interest for the United State invention and the aforesaid utility patent application and all or applications and patents applied for or granted therefor in the title said invention, including without limitation all applications and patent aforesaid utility application pursuant to any law or treaty, and infringement with the right to sue for and collect the same for its legal representatives, and including the right to claim such prior Trademarks is hereby authorized and requested to issue all patents assignee herein, as assignee of the entire interest the representatives, heirs and assigns do hereby agree and covenant all original, divisional, continuation, reissue and other application assignments thereof to said assignee or its assigns, to community the undersigned respecting said improvements, whene legal proceedings in which any of said applications or patents may all rightful oaths, and to do generally everything necessary to all obtain patent protection for said improvements in all countries, the and paid by said assignee.	s of America and all other countries in and of sactinginal, divisional, continuation, substitute or reissue united States of America and all other countries, for atents for said invention claiming priority or benefit of dincluding all claims for damages by reason of past own use and the use of its successors, assigns and rity or benefit and the Commissioner of Patents and tents on said improvements or resulting therefrom to terein; and the undersigned for me and my legal at without further remuneration, to execute and deliver one for Letters Patent on said improvements and all sicate to said assignee or its representatives all facts over requested, to testify in any interferences or other hay become involved, to sign all tawful papers, make the expenses incident to said applications to be borne.
And I do hereby authorize my attorneys to insert on this deed the when known.	filling date and application number of said application
1/20/09	(NV 5)
Date	John E. Namgoong
-A-M	
Witness	
Typed Name of Witness	
*Total of 5 forms are submitted.	

J.D-515\

RECORDED: 01/05/2012

REEL: 027532 FRAME: 0874

