

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4162597

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JIHYUN KIM | 01/04/2016 |
| RECEIVING PARTY DATA | |
| Name: | LG CHEM, LTD. |
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| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 07336 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14766018 |
| CORRESPONDENCE DATA | |
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| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
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| ATTORNEY DOCKET NUMBER: | LGCHEM 3.3F-678 |
| NAME OF SUBMITTER: | TRACI KRAUSS |
| SIGNATURE: | /Traci Krauss/ |
| DATE SIGNED: | 11/30/2016 |
| This document serves as an Oath/Declaration (37 CFR 1.63). | |
| Total Attachments: 2 | |
| source=Declaration and Assignment#page1.tif | |
| source=Declaration and Assignment#page2.tif | |

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| DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS | Attorney Docket Number: LGCHEM 3.3F-678 |
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| Title of Invention | METHOD OF MANUFACTURING SECONDARY BATTERY AND SECONDARY BATTERY USING THE SAME |
|---------------------------|--|

As the below named inventor(s) (hereinafter designated as the undersigned), I/We hereby declare that:

This declaration is directed to:

The attached application, or

United States application or PCT international application number 14/766,018 filed on August 5, 2015

The above-identified application was made or authorized to be made by me/us.

I/We believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I/We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, the undersigned as a sole inventor (if only one name is listed below) or as a joint inventor (if plural names are listed below) has invented certain new and useful improvements in the application identified above.

AND, WHEREAS LG Chem, Ltd., (hereinafter referred to as assignee), a corporation of Korea 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 and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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|---------------------------------|--------------------------------|
| FULL NAME OF INVENTOR(S) | |
| Inventor One: <u>Jihyun Kim</u> | Date: <u>January 4th, 2016</u> |
| Signature: <u>김지현</u> | |

Additional inventors or a legal representative are being named on 1 additional form(s) attached hereto.

PLEASE SEE THE WARNINGS ON THE LAST PAGE OF THIS FORM.

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| DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS | ADDITIONAL INVENTOR(S) Supplemental Sheet |
|--|---|
| Inventor two: <u>Youn Kyoung Lee</u> Signature: _____ | Date: _____ |
| Inventor three: _____ Signature: _____ | Date: _____ |
| Inventor four: _____ Signature: _____ | Date: _____ |
| Inventor five: _____ Signature: _____ | Date: _____ |
| Inventor six: _____ Signature: _____ | Date: _____ |
| Inventor seven: _____ Signature: _____ | Date: _____ |
| Inventor eight: _____ Signature: _____ | Date: _____ |
| Inventor nine: _____ Signature: _____ | Date: _____ |
| Inventor ten: _____ Signature: _____ | Date: _____ |
| <p style="text-align: center;">WARNING:</p> <p>According to 37 C.F.R. 1.63 (c), "(a) person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including the claims and is aware of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56."</p> <p>Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.</p> | |

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