506004850 04/08/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6051561

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| IL GEUN OH | 12/09/2019 |
| EUN KYUNG KIM | 12/09/2019 |
| YONG JU LEE | 12/09/2019 |
| RAE HWAN JO | 12/09/2019 |
| SU MIN LEE | 12/09/2019 |
| JUNG HYUN CHOI | 12/09/2019 |
| DONG HYUK KIM | 12/09/2019 |
| SE MI PARK | 12/09/2019 |

RECEIVING PARTY DATA

| Name: | LG CHEM, LTD. |
|-----------------|-----------------------------------|
| Street Address: | 128, YEOUI-DAERO, YEONGDEUNGPO-GU |
| City: | SEOUL |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 07336 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16754388 |

CORRESPONDENCE DATA

Fax Number: (202)739-3001

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.

Phone: 2027393000

Email: patents@morganlewis.com, kathy.casavecchia@morganlewis.com

Correspondent Name: COLLIN W. PARK

Address Line 1: MORGAN, LEWIS & BOCKIUS LLP Address Line 2: 1111 PENNSYLVANIA AVENUE NW

Address Line 4: WASHINGTON, D.C. 20004

| ATTORNEY DOCKET NUMBER: | 129873-5030 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | TOYOMI OHARA |
| SIGNATURE: | /Toyomi Ohara/ |

PAIENI REEL: 052340 FRAME: 0657 506004850

| DATE SIGNED: | 04/08/2020 |
|-----------------------------------|--|
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| Total Attachments: 6 | |
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| source=129873-5030_CombDecAssign# | tpage2.tif |
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| source=129873-5030_CombDecAssign# | tpage6.tif |

PATENT REEL: 052340 FRAME: 0658

COMBINED DECLARATION AND ASSIGNMENT

| TITLE OF TH | E INVENTION: METHOD OF PREPARING NEGATIVE ELECTRODE ACTIVE MATERIAL |
|------------------|--|
| As a below na | ned inventor(s), I/We hereby declare that: |
| This declaration | on is directed to: |
| | The application as filed, or United States Patent Application or PCT Nofiled on |
| The above-ide | ntified application was made or authorized to be made by me/us. |
| I/We believe th | nat I am/we are the original inventor(s) of a claimed invention in the application. |
| | cknowledge that any willful false statement made in this declaration is punishable under 18 fine or imprisonment of not more than five (5) years, or both. |
| WHE | REAS, the undersigned, (1) [OH, Il Geun], resident of [LG Chem Research Park, 188, Munji-ro, |
| Yuseong-gu, D | aejeon 34122, Republic of Korea], and (2) [KIM, Eun Kyung], resident of [LG Chem Research |
| Park, 188, Mu | inji-ro, Yuseong-gu, Daejeon 34122, Republic of Koreal, and (3) [LEE, Yong Jul, resident of |
| [LG Chem Re | search Park, 188, Munji-ro, Yuseong-gu, Daejeon 34122, Republic of Korcaj, and (4) [JO, Rae |
| Hwan], reside | nt of [LG Chem Research Park, 188, Munji-ro, Yuseong-gu, Daejeon 34122, Republic of Korea, |
| and (5) [LEE, | Su Min], resident of [LG Chem Research Park, 188, Munji-ro, Yuseong-gu, Daejeon 34122, |
| Republic of K | orea], and (6) [CHOI, Jung Hyun], resident of [LG Chem Research Park, 188, Munji-ro, |
| Yuseong-gu, D | aejeon 34122, Republic of Koreal, and (7) [KIM, Dong Hyukl, resident of [LG Chem Research |
| Park, 188, Mu | nji-ro, Yuseong-gu, Daejeon 34122, Republic of Korea], and (8) [PARK, Se Mi], resident of [LG |
| Chem Resear | ch Park, 188, Munji-ro, Yuseong-gu, Daejeon 34122, Republic of Koreal (heteinafter termed |
| "Inventor(s)"), | respectively, have invented certain new and useful improvements in [|
| | METHOD OF PREPARING NEGATIVE ELECTRODE ACTIVE MATERIAL |

WHEREAS, [LG CHEM, LTD.], a corporation of the Republic of Korea, having a place of business at [128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea], (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventor(s) (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's

and executed therefore an application for Letters Patent of the United States and

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Page 1 of 3

certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and

foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

- 1. Said Inventor(s) does/do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
- 2. Said Inventor(s) do hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.
- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.
- 4. Said Inventor(s) does/do hereby individually/jointly and severally warrant and represent that he/she/they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

Said Inventor(s) has/have executed and delivered this instrument to said Assignee as follows:

(1) [OH, Il Geun]

| Date: _ | December 9, 2019 | 里望老. | şınınıra |
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| | | | |
| 2018-OPI | .C-1501PC/US | Page 2 of 3 | |

| | | (2) [KIM, Eun Kyung] |
|---------|------------------|-----------------------|
| Date: _ | December 9, 2019 | 13/M |
| | | (3) [LEE, Yong Ju] |
| Date: | December 9, 2019 | J. Gy |
| | | (4) [JO, Rae Hwan] |
| Date: | | |
| | | (5) [LEE, Su Min] |
| Date: _ | December 9, 2019 | 8/5/11/ |
| | | (6) [CHOI, Jung Hyun] |
| Date: | December 9, 2019 | hoppedos |
| | | (7) [KIM, Dong Hyuk] |
| Date: _ | December 9, 2019 | 7.6号前 |
| | | (8) [PARK, Se Mi] |
| Date; | December 9, 2019 | HY MIOI |
| | | |

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Page 3 of 3

| PATENT |
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| Application No | | |
|----------------|-----|-------|
| Attorney Docke | No. | Blank |

COMBINED DECLARATION AND ASSIGNMENT

| | amed inventor(s), I/We hereby declare that: | |
|---|--|--|
| This declarat | tion is directed to: | |
| | The application as filed, or United States Patent Application or PCT No | filed on |
| The above-id | entified application was made or authorized to be made by | y me/us. |
| I/We believe | that I am/we are the original inventor(s) of a claimed inve | ntion in the application. |
| I/We hereby U.S.C. 1001 b | acknowledge that any willful false statement made in the op fine or imprisonment of not more than five (5) years, or | nis declaration is punishable under 18 both. |
| WHE | EREAS, the undersigned, (1) [OH, Il Geun], resident of [LC | G Chem Research Park, 188, Munji-ro, |
| Yuseong-gu, | Daejeon 34122, Republic of Korea], and (2) [KIM, Eun K | yung], resident of [LG Chem Research |
| Park, 188, M | lunji-ro, Yuseong-gu, Daejeon 34122, Republic of Korea] | , and (3) [LEE, Yong Ju], resident of |
| LG Chem R | esearch Park, 188, Munji-ro, Yuseong-gu, Daejeon 34122, | Republic of Koreal, and (4) [JO, Rae |
| | ent of [LG Chem Research Park, 188, Munji-ro, Yuseong- | gu, Daejeon 34122, Republic of Korea, |
| Hwan], reside | | |
| | C, Su Min], resident of [LG Chem Research Park, 188, N | Munji-ro, Yuscong-gu, Daejeon 34122, |
| and (5) [LEE | | |
| and (5) [LEE Republic of I | E, Su Min], resident of [LG Chem Research Park, 188, N | Chem Research Park, 188, Munji-ro, |
| and (5) [LEE Republic of I Yuseong-gu, I | C, Su Min], resident of [LG Chem Research Park, 188, N Korea], and (6) [CHOI, Jung Hyun], resident of [LG | Chem Research Park, 188, Munji-ro, Hyuk], resident of [LG Chem Research |
| and (5) [LEE Republic of I Yuseong-gu, I Park, 188, Mi | C, Su Min], resident of [LG Chem Research Park, 188, N Korea], and (6) [CHOI, Jung Hyun], resident of [LG Daejeon 34122, Republic of Korea], and (7) [KIM, Dong] | Chem Research Park, 188, Munji-ro, Hyuk], resident of [LG Chem Research nd (8) [PARK, Se Mi], resident of [LG |
| and (5) [LEE Republic of I Yuseong-gu, I Park, 188, Mi Chem Reseai | C., Su Min], resident of [LG Chem Research Park, 188, Norea], and (6) [CHOI, Jung Hyun], resident of [LG Daejeon 34122, Republic of Korea], and (7) [KIM, Dong Junji-ro, Yuscong-gu, Daejeon 34122, Republic of Korea], arch Park, 188, Munji-ro, Yuscong-gu, Daejeon 34122, For the Park, 188, Munji-ro, Yuscong-gu, Daejeon 34122, Munji-ro, Munji-ro, Munji-ro, Munji-ro, Munji-ro, Munji-ro, Mu | Chem Research Park, 188, Munji-ro, Hyuk], resident of [LG Chem Research and (8) [PARK, Se Mi], resident of [LG Republic of Korea] (hereinafter termed nents in / |
| and (5) [LEE Republic of I Yuseong-gu, I Park, 188, Mi Chem Reseau 'Inventor(s)'') | C., Su Min], resident of [LG Chem Research Park, 188, M Korea], and (6) [CHOI, Jung Hyun], resident of [LG Daejeon 34122, Republic of Korea], and (7) [KIM, Dong I unji-ro, Yuscong-gu, Daejeon 34122, Republic of Korea], a rch Park, 188, Munji-ro, Yuscong-gu, Daejeon 34122, F | Chem Research Park, 188, Munji-ro, Hyuk], resident of [LG Chem Research nd (8) [PARK, Se Mi], resident of [LG Republic of Korea] (hereinafter termed nents in / |

WHEREAS, [LG CHEM, LTD.], a corporation of the Republic of Korea, having a place of business at [128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea], (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventor(s) (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and

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Page 1 of 3

Application No. Attorney Docket No. Blank

foreign countries.

2018-OPLC-1501PC/US

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

- Said Inventor(s) does/do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
- 2. Said Inventor(s) do hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.
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Said Inventor(s) has/have executed and delivered this instrument to said Assignee as follows:

(1) OH, Il Geun]

| Date: | ************************************** | us established | |
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PATENT REEL: 052340 FRAME: 0663

| | (2) [KIM, Eun Kyung] |
|------------------|-----------------------|
| Date: | |
| | (3) [LEE, Yong Ju] |
| Date: | |
| | (4) [JO, Rae Hwan] |
| Date: 3019.11.09 | M |
| | (5) [LEE, Su Min] |
| Date: | |
| | (6) [CHOI, Jung Hyun] |
| Date: | |
| | (7) [KIM, Dong Hyuk] |
| Date: | |
| | (8) [PARK, Se Mi] |
| Date: | |
| | |
| | |

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