PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5710216

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

CONVEYING PARTY DATA

| Name | Execution Date | | |
|---------------|-----------------------|--|--|
| JEE HEUM PAIK | 08/30/2019 | | |
| YOON TAI KIM | 08/30/2019 | | |

RECEIVING PARTY DATA

| Name: | LG INNOTEK CO., LTD. | |
|-----------------|----------------------|--|
| Street Address: | 98, HUAM-RO, JUNG-GU | |
| City: | SEOUL | |
| State/Country: | KOREA, REPUBLIC OF | |
| Postal Code: | 04637 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16492535 |

CORRESPONDENCE DATA

Fax Number: (703)205-8050

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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Address Line 4: FALLS CHURCH, VIRGINIA 22042

| ATTORNEY DOCKET NUMBER: | 3449-3823PUS1 |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | TUYET ANH NGUYEN |
| SIGNATURE: | /TUYET ANH NGUYEN/ |
| DATE SIGNED: | 09/10/2019 |

Total Attachments: 4

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> **PATENT** REEL: 050325 FRAME: 0107

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SN: 16/492,535

Filed on September 9, 2019

Attorney Docket No.: 3449-3823PUS1

Attorney Docket No. P2018-S0022US

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

Title of Invention

⇒ METAL PLATE, DEPOSITION MASK, AND MANUFACTURING METHOD THEREFOR

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|---------------|-------|---|---|-------------|---|---|-----|--|
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As a below named inventor (hereinafter designated as the undersigned). I hereby declare that:

Application not Attached ⇒ This declaration is directed to the application attached hereto. If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:

Enter Appln. No. ⇒ United States Application Number or PCT International Appln. No. PCT/KR2018/002742

Enter Filing Date ⇒ filed on March 8, 2018

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

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

I have reviewed and understand the contents of the above-identified application, including the claims.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

Insert Name of Assignee ⇒ WHEREAS, LG INNOTEK CO., LTD.

Insert Address of Assignee ⇒ 98, Huam-ro, Jung-gu, Seoul, 04637, Republic of Korea

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

Check Box if Appropriate

ightharpoonup in any foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

SN: 16/492,535

Filed on September 9, 2019

Attorney Docket No.: 3449-3823PUS1

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges 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.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

LEGAL NAME OF INVENTOR

| Inventor's Name ⇒ Inventor: | PAIK, Jee Heum | | Date: | 2019. | 8. | 30 |
|-----------------------------------|----------------|-----|-------|-------|----|----|
| Inventor's Signature ⇔ Signature: | ry | 116 | - | | | |

An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.

Additional inventors are being named on the 1 supplemental sheet(s) attached hereto.

PATENT BSKB-DECASSIGN\(09-12) **REEL: 050325 FRAME: 0109**

SN: 16/492,535 Filed on September 9, 2019

Attorney Docket No.: 3449-3823PUS1

Doc code: Oath

Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)
Approved for use through 01/31/2014. OMB 0651-0032
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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

| $\overline{}$ | | | | | | |
|---|---|-------------------------------|-----------------------------|-------------------------|--|--|
| Title of Invention | METAL PLATE, DEPOSITION | MASK, AND MANUE | ACTURING METHO | D THEREFOR | | |
| This stateme | ent is directed to: | | | | | |
| The atta | ached application, | | | | | |
| OR | | | | | | |
| United 8 | States application or PCT international | application number | filed on | | | |
| LEGAL NA | ME of inventor to whom this sul | bstitute statement appl | ies: | | | |
| | Name (first and middle (if any)) and F | | | | | |
| Yoon Tai KIM | | | | | | |
| Residence (e | except for a deceased or legally incapa | acitated inventor): | | | | |
| City Seoul | | State | Country KR | | | |
| | ss (except for a deceased or legally incapac | citated inventor): | Country | | | |
| City Seoul | | State | Zip 04637 | Country KR | | |
| I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. | | | | | | |
| The above-id | lentified application was made or author | orized to be made by me. | | | | |
| I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | | | | | | |
| Relationship | to the inventor to whom this substitute | e statement applies: | | | | |
| Legal Representative (for deceased or legally incapacitated inventor only), Assignee, | | | | | | |
| — | Person to whom the inventor is under an obligation to assign, | | | | | |
| Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or | | | | | | |
| | at Inventor. | proprietary interest in the m | atter (petition under 57 Gr | R 1.46 is required), or | | |
| | | | | | | |

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 116 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time your require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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SUBSTITUTE STATEMENT

| Circumstaneae new-14: | | | | | | |
|---|--|---|--|--|--|--|
| Circumstances permitting execution of this su | bstitute statement: | | | | | |
| Inventor is deceased, | | | | | | |
| Inventor is under legal incapacity, | | | | | | |
| Inventor cannot be found or reached after diligent effort, or | | | | | | |
| Inventor has refused to execute the o | oath or declaration under 37 | CFR 1.63. | | | | |
| If there are joint inventors, please check the a | ppropriate box below: | | | | | |
| ✓ An application data sheet under 37 C or is currently submitted. | FR 1.76 (PTO/AIA/14 or eq | uivalent) naming the er | ntire inventive entity has been | | | |
| OR | | | | | | |
| An application data sheet under 37 C Statement Supplemental Sheet (PTO information is attached. See 37 CFR | FR 1.76 (PTO/AIA/14 or eq /AIA/11 or equivalent) nami 1.64(b). | uivalent) has not been a ng the entire inventive a | submitted. Thus, a Substitute entity and providing inventor | | | |
| | WARNING: | | | | | |
| Petitioner/applicant is cautioned to avoid submitti contribute to identity theft. Personal information (other than a check or credit card authorization for to support a petition or an application. If this type petitioners/applicants should consider redacting s USPTO. Petitioner/applicant is advised that the rapplication (unless a non-publication request in captent. Furthermore, the record from an abandor referenced in a published application or an issued PTO-2038 submitted for payment purposes are necessary. | orm PTO-2038 submitted for of personal information is in such personal information for ecord of a patent application ompliance with 37 CFR 1.2- and application may also be a patent (see 37 CFR 1.14), of retained in the application of retained in the application. | to the stank account nur payment purposes) is notuded in documents sent orn the documents befor n is available to the public available to the public | nbers, or credit card numbers never required by the USPTO submitted to the USPTO, ore submitting them to the polic after publication of the polication) or issuance of a if the application is | | | |
| PERSON EXECUTING THIS SUBSTITUTE STA | TEMENT: | | | | | |
| Name: Yvnho SHIW | | | Date (Optional); | | | |
| Signature: 申】 とこ | | | | | | |
| APPLICANT NAME AND TITLE OF PERSON EX | ECUTING THIS SUBSTITU | TE STATEMENT: | | | | |
| If the applicant is a juristic entity, list the applicant | name and the title of the sig | ner: | | | | |
| Applicant Name: LG Innotek Co., Ltd | | | | | | |
| Title of Person Executing | | | | | | |
| This Substitute Statement: Manager The signer, whose title is supplied above, is autho Residence of the signer (unless provided in a | rized to act on babalf as #- | | | | | |
| Residence of the signer (unless provided in an | application data sheet, P | applicant. TO/AIA/14 or equivale | nt): | | | |
| | | | <u>.</u> | | | |
| City Secul | State | Country KR | | | | |
| Malling Address of the signer (unless provided LG INNOTEK CO., LTD. 98, Huam-ro, Jung-gu | in an application data sh | eet, PTO/AIA/14 or eq | uivalent) | | | |
| City Seoul | | | | | | |
| Sta Note: Use an additional PTO/AIA/02 form for each fter diligent effort, or has refused to execute the pa | inventor who is dosessed I | Zip 04637 | Country KR | | | |
| fter diligent effort, or has refused to execute the or | ath or declaration under 37 | egally incapacitated, ca CFR 1.63. | nnot be found or reached | | | |