502615187 12/27/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2661754

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| JIN KYU LEE | 10/22/2013 |
| JUNYEOB SEONG | 11/21/2013 |
| TAEHYUCK KIM | 10/22/2013 |
| JUNGMO KIM | 08/23/2013 |
| MYUNGKI PARK | 11/11/2013 |
| HYUNGJIN HWANG | 11/11/2013 |

RECEIVING PARTY DATA

| Name: | LG CHEM, LTD. |
|-----------------|--------------------------------|
| Street Address: | 20, YOIDO-DONG, YOUNGDUNGPO-GU |
| City: | SEOUL |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 150-721 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 13966518 | |

CORRESPONDENCE DATA

Fax Number: (703)205-8050 **Phone**: (703)205-8000

Email: mailroom@bskb.com, Kleithon.G.Sayson@bskb.com

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Correspondent Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Address Line 1: P.O. BOX 747

Address Line 4: FALLS CHURCH, VIRGINIA 22040-0747

| ATTORNEY DOCKET NUMBER: | 5097-0453PUS1 |
|-------------------------|-----------------|
| NAME OF SUBMITTER: | KLEITHON SAYSON |

502615187 REEL: 031854 FRAME: 0338

340.00 13966518

| Signature: | /kleithon sayson/ | | |
|--|---------------------------------|--|--|
| Date: | 12/27/2013 | | |
| Total Attachments: 15 | | | |
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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 BUS BAR HAVING NOVEL STRUCTURE AND BATTERY MODULE INCLUDING THE SAME As a below named inventor (hereinafter designated as the undersigned), I hereby declare that: This declaration is directed to the application attached hereto. Application not 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. 13/966,518 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 ⇒ WHEREAS, LG CHEM, LTD. of Assignee Insert Address of 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721, Republic of Korea, of Assignee 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 in any foreign countries. Appropriate 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

Page 1

terms for which the same may be granted.

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

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: | Jin Kyu LEE | Date: _ | 2013. 10. 22. | |
|----------------------|---|------------|--|---------|---------------|--|
| Inventor's Signature | ₽ | Signature: | of prode | | | |
| | | | O/SB/14 or equivalent), including naming the entire inventiventor; or check the box below and complete the attached pa | | | |

 \triangle Additional inventors are being named on the $\underline{1}$ supplemental sheet(s) attached hereto.

Page 2

ADDITIONAL INVENTOR(S) Supplemental Sheet Page $\underline{1}$ of $\underline{1}$

LEGAL NAME OF JOINT INVENTOR, IF ANY

| Inventor's Name | ⇔ Inventor: | JunYeob SEONG | Date: |
|----------------------|--------------|-------------------------------|------------------|
| Inventor's Signature | ⇒ Signature: | | |
| | LEGAL N | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇔ Inventor: | TaeHyuck KJM | Date: 2013/10/22 |
| Inventor's Signature | ⇔ Signature: | -A~ | |
| | LEGAL N | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇒Inventor: | JungMo KIM | Date: |
| Inventor's Signature | ⇔Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇔Inventor: | MyungKi PARK | Date: |
| Inventor's Signature | ⇔Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇔Inventor: | HyungJin HWANG | Date: |
| Inventor's Signature | ⇔Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇔Inventor: | | Date: |
| Inventor's Signature | ⇒Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇔Inventor: | | Date: |
| Inventor's Signature | ⇔Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇒Inventor: | | Date: |
| Inventor's Signature | ⇔Signature: | | |

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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 Bus bar having novel structure and battery module including the same As a below named inventor (hereinafter designated as the undersigned), I hereby declare that: This declaration is directed to the application attached hereto. Application not ⇒ If the application is not attached hereto, the application is as identified by the attorney docket number as Attached set forth above and/or the following: Enter Appln. No.

□ United States Application Number or PCT International Appln. No. 13/966,518 Enter Filing Date ⇒ filed on August 14, 2013 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 ⇒ WHEREAS, LG CHEM, LTD. of Assignee Insert Address of 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721, Republic of Korea, of Assignee 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 in any foreign countries. Appropriate 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.

Page 1

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: | Jin Kyu LEE | Date: |
|---------------------|-------|---------------|---|-------|
| Inventor's Signatur | re ⇔ | Signature: | | |
| | | | O/SB/14 or equivalent), including naming the entire inventive inventive overtions; or check the box below and complete the attached pag | |
| Additiona 🛚 | ıl in | ventors are b | being named on the $\underline{1}$ supplemental sheet(s) attached hereto. | |

Page 2

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

LEGAL NAME OF JOINT INVENTOR, IF ANY Date: Inventor's Name Sinventor: JunYeob SEONG Inventor's Signature ⇒ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Date: Inventor's Name □ Inventor: TaeHyuck KIM Inventor's Signature ⇒ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Date: _____ Inventor's Name ⇔Inventor: JungMo KIM Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name LEGAL NAME OF JOINT INVENTOR, IF ANY Finventor: Hyungjin HWANG Date: 2013 - 11 Inventor's Name Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Finventor: Date: Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Date: ⇔Inventor: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Date: ™Inventor: Inventor's Signature ⇔Signature:

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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 LINITED STATES PLUS ALL FOREIGN PATENT RIGHTS

| | GINTED STATEST LOS ALL FOREIGNT ATENT MIGHTS |
|-------------------------------|---|
| Title of Invention | ⇒ BUS BAR HAVING NOVEL STRUCTURE AND BATTERY MODULE INCLUDING THE SAME |
| | As a below named inventor (hereinafter designated as the undersigned), I hereby declare that: |
| | This declaration is directed to the application attached hereto. |
| Application not Attached | ⇒ 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. <u>13/966,518</u> |
| Enter Filing Date | ⇔ filed on _ August 14, 2013 |
| | 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 CHEM, LTD. |
| Insert Address of Assignee | ⇒ of 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721, 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 | 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. |

Page 1

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

LEGAL NAME OF INVENTOR

| Inventor's Name ⇒ I | nventor: | Jin Kyu LEE | Date: |
|--------------------------|---------------|---|-------|
| Inventor's Signature ⇒ S | Signature: | | |
| | | D/SB/14 or equivalent), including naming the entire inventive nventor; or check the box below and complete the attached pag | |
| Additional inve | entors are be | eing named on the $\underline{1}$ supplemental sheet(s) attached hereto. | |

Page 2

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

LEGAL NAME OF JOINT INVENTOR, IF ANY

| inventor's Name | ⇒ Inventor: | JunYeob SEONG | Date: |
|----------------------|--------------|--|-------------------|
| inventor's Signature | ⇒ Signature: | | |
| | LEGAL N | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇒ Inventor: | TaeHyuck KIM | Date: |
| (nventor's Signature | ⇒ Signature: | | |
| | LEGAL N | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇔Inventor: | JungMo KIM | Date: 20/3 /08/23 |
| Inventor's Signature | ⇔Signature: | | |
| | LEGAL N | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇔Inventor: | MyungKi PARK | Date: |
| Inventor's Signature | ⇔Signature: | | |
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| Inventor's Name | ⇔Inventor: | HyungJin HWANG | Date: |
| Inventor's Signature | ⇔Signature: | | |
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| inventor's Name | ⇔Inventor: | | Date: |
| inventor's Signature | ⇔Signature: | | |
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| | LEGAL N. | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇔Inventor: | | Date: |
| Inventor's Signature | ⇔Signature: | | |

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□ United States Application Number or PCT International Appln. No. 13/966,518 Enter Filing Date ⇒ filed on August 14, 2013 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 ⇒ WHEREAS, LG CHEM, LTD. of Assignee Insert Address ⇒ of 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721, Republic of Korea, of Assignee 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 in any foreign countries. Appropriate 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

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

LEGAL NAME OF INVENTOR

| Inventor's Name | ⇒ | Inventor: | Jin Kyu LEE | Date: | | | |
|--|------|------------|-------------|-------|--|--|--|
| Inventor's Signatur | ~c ⇔ | Signature: | | | | | |
| 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. | | | | | | | |
| \square Additional inventors are being named on the 1 supplemental sheet(s) attached hereto. | | | | | | | |

Page 2

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name of Inventor: Junyeob SEONG Date: November 2-1. 1013 laveator's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name → Inventor: TaeHyuck KIM Date: Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Date: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY *Inventor: MyungKi PARK Date: Inventor's Name LEGAL NAME OF JOINT INVENTOR, IF ANY →Inventor: HyungJin HWANG Date: Inventor's Name Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY *Inventor; Date: Inventor's Name Inventor's Signature ⇒Signature; LEGAL NAME OF JOINT INVENTOR, IF ANY Date: Inventor's Name ⇔Inventor: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name Date: [⇒]Inventor: _ Inventor's Signature ⇒Signature:

85KB-DECA5SIGN\(09-12)

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DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

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

Title of Invention BUS BAR HAVING NOVEL STRUCTURE AND BATTERY MODULE INCLUDING THE SAME

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

This declaration is directed to the application attached hereto.

Application not Attached Proceedings of 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. 13/966,518

Enter Filing Date \Rightarrow filed on August 14, 2013

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 CHEM, LTD.

Insert Address of Assignce of 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721, 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

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.

Page 1

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: | Jin Kyu LEE | | Date: | |
|---------------------|-------|---------------------|--|--------------------------|--|--|
| lnventक:ेऽऽऽङ्काatu | rc ⇒ | Signatu r e: | | | | |
| | | | D/SB/14 or equivalent), including noventor; or check the box below and | | re entity, must accompany this form. nge(s) to list additional inventors. | |
| Additiona | al in | ventors are b | eing named on the $\underline{1}$ supplemental s | neet(s) attached hereto. | | |

Page 2

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

LEGAL NAME OF JOINT INVENTOR, IF ANY

| Inventor's Name | * Inventor: | JunYeob SEONG | Date: |
|------------------------|------------------------|-------------------------------|-------|
| Inventor's Signature | • Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name = | * Inventor: | TaeHyuck KIM | Date: |
| Inventor's Signature = | ⇒ Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | [∞] Inventor: | JungMo KIM | Date: |
| Inventor's Signature | ⇒Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ♥Inventor: | Myungki PARK | Date: |
| Inventor's Signature | ⇔Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇔Inventor: | HyungJin HWANG | Date: |
| Inventor's Signature | ⇔Signature: | | |
| | LEGAL NA | AME OF JOINT INVENTOR, IF ANY | |
| Inventor's Name | ⇒Inventor: | | Date: |
| Inventor's Signature | ⇔Signature: | | |
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| Inventor's Name | ⇔Inventor: | | Date: |
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| Inventor's Name | ⇔Inventor: | | Date: |
| Inventor's Signature | ⇒Signature: | | |

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PATENT REEL: 031854 FRAME: 0354

RECORDED: 12/27/2013