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PATENT ASSIGNMENT COVER SHEET

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| CONVEYING PARTY D | ΑΤΑ | | | | | | |
| | | | Name | | Execution Date | | |
| DAEKEE SHIN | | | | | 05/26/2017 | | |
| HOPHIL LEE | | | | 05/26/2017 | | | |
| OUNGHWAN LEE 05/26/2017 | | | | | 05/26/2017 | | |
| RECEIVING PARTY DA | ΑΤΑ | | | | | | |
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| Property TypeApplication Number:3550- | | Number 4042 | | | | | |
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| ATTORNEY DOCKET NUMBER: | | | 0465-6590PUS1 | | | | |
| NAME OF SUBMITTER: | | | CHRISTOPHER SMITH | | | | |
| SIGNATURE: | | | /Christopher Smith/ | | | | |
| DATE SIGNED: | | | 04/24/2018 | | | | |
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Attorney Docket No. 0465-6590PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

ASSIGNMENT

| Application | 35/504,042 | Filed: | May 26, 2017 | | | | | | |
|---------------------------------------|--|--|---|----------|--|--|--|--|--|
| | WHEREAS, | .v NAME (ALL CAPS))™ i as the undersign | ed) has (have) invented certain new and useful improver | nents in | | | | | |
| Insert Title of Invention | HOME AUTOMATION HUB | | | | | | | | |
| | for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application) | | | | | | | | |
| Insert Date of Signing of Appin | | | | | | | | | |
| Insert Name of Assignee | WHEREAS, LG Electronics Inc. | | | | | | | | |
| Insert Address of Assignce | of 128, Yeoui-daero, Y | eongdeungpo-gu, (| Seoul, 07336, Republic of Korea, | | | | | | |
| | | ght, title and intere | is and assigns (hereinafter designated as the Assignee) st in and to said invention and in and to any Letters Pate of America and | | | | | | |
| Check Boz if Appropriate | in any foreign co | untries. | | | | | | | |
| | | ** | able consideration, the receipt of which is hereby ackn ad transferred, and by these presents does (da) sell, assig | | | | | | |

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has (have) 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.

<OrgName>

BSKB-ASSIGN-SINGLE (09-12) JTE/cdr

PATENT REEL: 045635 FRAME: 0165

Attorney Docket No .:

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

The undersigned agree(s) 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 agree(s) 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

The undersigned agree(s) 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 authorize(s) and request(s) 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 (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment. In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s)

Date 26. May . 2011 Name of Inventor

in

(Signature) Daekee SHIN

(Signature) Hophii LEE

Date 26 May . 2019 Name of Inventor

26. May . 2017 Name of Date______Inventor

(Signature) Younghwan LEE



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daekeelshin/&/CII/21/10.177.132.184/2017-05-26.10/35

PATENT REEL: 045635 FRAME: 0166

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