503311607 05/18/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

rsion v1.1 EPAS ID: PAT3358225

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------|----------------|
| DONGWOOK SEO | 05/14/2015 |

RECEIVING PARTY DATA

| Name: | LG ELECTRONICS INC. |
|-----------------|-----------------------------------|
| Street Address: | 128, YEOUI-DAERO, YEONGDEUNGPO-GU |
| City: | SEOUL |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 150-721 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | | | |
|---------------------|----------|--|--|--|
| Application Number: | 14443153 | | | |

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| ATTORNEY DOCKET NUMBER: | 0465-4848PUS1 |
|-------------------------|---------------|
| NAME OF SUBMITTER: | ANH-VU DAO |
| SIGNATURE: | /anh-vu dao/ |
| DATE SIGNED: | 05/15/2015 |

Total Attachments: 2

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PATENT 503311607 REEL: 035662 FRAME: 0608

LG Ref. : 14FMHL242US02 KBK No. OPP-BZ-2014-0119-US-00

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

ASSIGNMENT

| Application No | о.: | : 14/443,153 | Filed: | | May 15, 2015 |
|--|-----|--|---|--------------------------|---|
| Inventor(s) Insert Title of Invention | | (hereinafter designated as the undersigned) has | | | |
| | | 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 Appln. | ⇔ | on May 14, 2015 | | | ; and |
| Insert Name of Assignee | ⇔ | WHEREAS, LG ELECTRONICS INC. | | | |
| Insert Address of Assignee | ⇔ | of 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 15 | 0-721, Re _l | p | ublic of Korea, |
| | | its heirs, successors, legal representatives and as of acquiring the entire right, title and interest in that may be granted therefor in the United States | and to sa | aic | d invention and in and to any Letters Patent(s) |
| Check Box if Appropriate | ⇔ | in any foreign countries. | | | |
| | | NOW, THEREFORE, for good and valuable continuous the undersigned has (have) sold, assigned and and transfer unto said Assignee the full and excamerica, its territories, dependencies and posses and all Letters Patent(s) which may be granted dependencies and possessions, and if the box about any and all divisions, reissues, continuations, corfor which the same may be granted. | transferre clusive rig ssions and therefor ove is des | ec gl d i si | I, and by these presents does (do) sell, assign not to the said invention in the United States of the entire right, title and interest in and to any nother United States of America, its territories, gnated, in any and all foreign countries; and to |

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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BSKB-ASSIGN-SINGLE (09-12) EHC/EHC/jdb

Attorney Docket No. 0465-4848PUS1

LG Ref.: 14FMHL242US02 KBK No. OPP-BZ-2014-0119-US-00

The undersigned agree(s) 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 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 agreements.

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).

Name of Inventor

BIRCH, STEWART, KOLASCH & BIRCH, LLP.

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