

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3249621

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|---|-------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SONG YEUL SUH | 02/24/2010 |
| JAE HYUNG SONG | 03/03/2010 |
| CHANG SIK YUN | 03/11/2010 |
| GOMER THOMAS | 03/08/2010 |
| JUN HUI LEE | 02/24/2010 |
| JIN PIL KIM | 02/24/2010 |
| HO TAEK HONG | 02/24/2010 |
| KWAN SUK KIM | 02/24/2010 |
| RECEIVING PARTY DATA | |
| Name: | LG ELECTRONICS INC. |
| Street Address: | 128, YEOUI-DAERO |
| Internal Address: | YEONGDEUNGPO-GU |
| City: | SEOUL |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 150-721 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14637119 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)496-7756 |
| <i>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.</i> | |
| Phone: | 2024967106 |
| Email: | mlaip@mckennalong.com |
| Correspondent Name: | MCKENNA LONG & ALDRIDGE LLP |
| Address Line 1: | 1900 K STREET NW |
| Address Line 2: | ATTORNEY DOCKET NO. 8736.00374.US21 |
| Address Line 4: | WASHINGTON, D.C. 20006 |
| ATTORNEY DOCKET NUMBER: | 8736.00374.US21 |
| NAME OF SUBMITTER: | BRUCE B. VANCE |

PATENT

| | |
|---|-------------------------|
| SIGNATURE: | /Bruce B. Vance #66187/ |
| DATE SIGNED: | 03/03/2015 |
| Total Attachments: 6 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif | |

Assignment of Application

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| WHEREAS, I (WE) | Song Yeul SUH, Jae Hyung SONG, Chank Sik YUN, |
| Gomer THOMAS, Jun Hui LEE, Jin Pil KIM, Ho Taek HONG and Kwan Suk KIM | , respectively, |
| have invented certain new and useful improvements in: | |
| METHOD OF PROCESSING NON-REAL TIME SERVICE AND BROADCAST RECEIVER | |
| for which an application for Letters Patent was executed on | |

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|--|----------------------------|---------|------------------|--------|
| (Application No.) | 12/688,532 | , Filed | January 15, 2010 |), and |
| WHEREAS, | LG ELECTRONICS INC. | | | |
| (hereinafter referred to as "ASSIGNEE") having a place of business at: | | | | |
| 20 Yoido-dong, Youngdungpo-gu, Seoul, Korea | | | | |

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

Docket No.: 8736.374.00

Assignment of Application

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Page 1 of 2

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Docket No.: 8736.374.00

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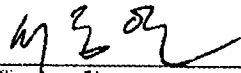
Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

Page 1 of 2

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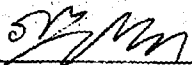
The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

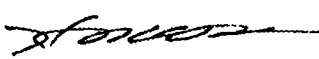
Date: 2010/2/24 
 (Signature of Inventor)
 Song Yeul SUH

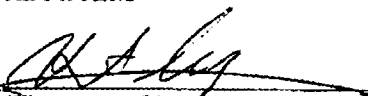
Date: 2010/3/3 
 (Signature of Inventor)
 Jae Hyung SONG

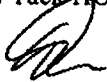
Date: _____
 (Signature of Inventor)
 Chang Sik YUN

Date: _____
 (Signature of Inventor)
 Gomer THOMAS

Date: 2010/2/24 
 (Signature of Inventor)
 Jun Hui LEE

Date: 2010/2/24 
 (Signature of Inventor)
 Jin Pil KIM

Date: 24 Feb. 2010 
 (Signature of Inventor)
 Ho Taek HONG

Date: 24 Feb 2010 
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Docket No.: 8736.374.00

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Date: _____
(Signature of Inventor)
Song Yeul SUH

Date: _____
(Signature of Inventor)
Jae Hyung SONG

Date: 11. MAR. 2010
(Signature of Inventor)
Chang Sik YUN

Date: _____
(Signature of Inventor)
Gomer THOMAS

Date: _____
(Signature of Inventor)
Jun Hui LEE

Date: _____
(Signature of Inventor)
Jin Pil KIM

Date: _____
(Signature of Inventor)
Ho Tack HONG

Date: _____
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Kwan Suk KIM

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Page 2 of 2

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Date: _____
(Signature of Inventor)
Song Yeul SUH

Date: _____
(Signature of Inventor)
Jae Hyung SONG

Date: _____
(Signature of Inventor)
Chang Sik YUN

Date: 8 March 2010 Gomer Thomas
(Signature of Inventor)
Gomer THOMAS

Date: _____
(Signature of Inventor)
Jun Hui LEE

Date: _____
(Signature of Inventor)
Jin Pil KIM

Date: _____
(Signature of Inventor)
Ho Taek HONG

Date: _____
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Kwan Suk KIM

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