

Form PTO-1595
1-3-92**RECORDATION FORM COVER LETTER
PATENTS ONLY**U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 2080-3729

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party: Chul Soo Lee, In Hwan Choi, Ho Taek Hong, Kook Yeon Kwak, Hyoung Gon Lee, Jae Hyung Song, Jin Pil Kim, Won Gyu Song, Joon Hui Lee, Jin Woo Kim, Byoung Gill Kim, Jong Yeul Suh, and Kyu Tae Ahn

2. Name and address of receiving party(ies):

LG ELECTRONICS INC.
20, Yeouido-dong, Yeongdeungpo-gu
Seoul, 150-721 Republic of Korea2. Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 8424, Confirmatory License
☐ Other _____

Execution Date: January 4, 2010; January 5, 2010; December 30, 2009; January 21, 2010; January 5, 2010; January 6, 2010; January 21, 2010; January 5, 2010; December 30, 2009; January 5, 2010; January 5, 2010; January 14, 2010; December 30, 2009, respectively

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s) 12/670,394

B. Patent No.(s) N/A

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

JONATHAN Y. KANG, ESQ.
LEE, HONG, DEGERMAN, KANG & WAIMEY
660 South Figueroa Street
Suite 2300
Los Angeles, CA 90017

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) \$40

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number: 502290

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

 Harry S. Lee, Reg. No. 56,814

Date: January 22, 2010

OMB No. 0651-0011 (exp. 4/94)

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services
Director of the U.S. Patent and Trademark Office
 P.O. Box 1450
 Alexandria, VA 22313-1450

CH \$40.00 502290 12670394

700427707

PATENT
REEL: 023838 FRAME: 0931

Attorney Docket No. 2080-3729

ASSIGNMENT**(1-8) Insert Name(s) of Inventor(s)**

- | | |
|--------------------|----------------------|
| (1) Chul Soo LEE | (8) Won Gyu SONG |
| (2) In Hwan CHOI | (9) Joon Hui LEE |
| (3) Ho Taek HONG | (10) Jin Woo KIM |
| (4) Kook Yeon KWAK | (11) Byoung Gill KIM |
| (5) Hyoung Gon LEE | (12) Jong Yeul SUH |
| (6) Jae Hyung SONG | (13) Kyu Tae AHN |
| (7) Jin Pil KIM | |

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert name of Assignee

(9) LG Electronics Inc.

(10) Insert state of Incorporation of Assignee

(10) Republic of Korea

(11) Insert address of Assignee

(11) 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721, Republic of Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number

(12) **DIGITAL BROADCASTING SYSTEM AND METHOD OF PROCESSING DATA IN DIGITAL BROADCASTING SYSTEM** for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

(13) Insert Date of Signing of Application

(13)

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints the Attorneys associated with Customer No. 035884 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 United States Patent and Trademark Office for recordation of this document.

PATENT**REEL: 023838 FRAME: 0932**

04-01-10;09:49 ;

;3777-7575

3/ 3

Date: Jan 21, 2010 Signature of inventor (1): [Signature]

Date: _____ Signature of Inventor (2) _____

Date: _____ Signature of Inventor (3) _____

Date: _____ Signature of Inventor (4) _____

Date: _____ Signature of Inventor (5) _____

Date: _____ Signature of Inventor (6) _____

Date: _____ Signature of Inventor (7) _____

Date: _____ Signature of Inventor (8) _____

Date: _____ Signature of Inventor (9) _____

Date: _____ Signature of Inventor (10) _____

Date: _____ Signature of Inventor (11) _____

Date: _____ Signature of Inventor (12) _____

Date: _____ Signature of Inventor (13) _____

PATENT

REEL: 023838 FRAME: 0933

Attorney Docket No. 2080-3729

ASSIGNMENT**(1-8) Insert Name(s) of Inventor(s)**

- | | |
|--------------------|----------------------|
| (1) Chul Soo LEE | (8) Won Gyu SONG |
| (2) In Hwan CHOI | (9) Joon Hui LEE |
| (3) Ho Taek HONG | (10) Jin Woo KIM |
| (4) Kook Yeon KWAK | (11) Byoung Gill KIM |
| (5) Hyoung Gon LEE | (12) Jong Yeul SUH |
| (6) Jae Hyung SONG | (13) Kyu Tae AHN |
| (7) Jin Pil KIM | |

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert name of Assignee**(9) LG Electronics Inc.****(10) Insert state of Incorporation of Assignee****(10) Republic of Korea****(11) Insert address of Assignee****(11) 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721, Republic of Korea**

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) Insert identification of Invention, such as Title, Case Number or Foreign Application Number

(12) DIGITAL BROADCASTING SYSTEM AND METHOD OF PROCESSING DATA IN DIGITAL BROADCASTING SYSTEM
for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

(13) Insert Date of Signing of Application**(13)**

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints the Attorneys associated with Customer No. 035884 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 United States Patent and Trademark Office for recordation of this document.

PATENT**REEL: 023838 FRAME: 0934**

Date: _____	Signature of Inventor (1) _____
Date: _____	Signature of Inventor (2) _____
Date: _____	Signature of Inventor (3) _____
Date: _____	Signature of Inventor (4) _____
Date: _____	Signature of Inventor (5) _____
Date: _____	Signature of Inventor (6) _____
Date: _____	Signature of Inventor (7) _____
Date: _____	Signature of Inventor (8) _____
Date: _____	Signature of Inventor (9) _____
Date: _____	Signature of Inventor (10) _____
Date: _____	Signature of Inventor (11) _____
Date: <u>2010/1/18</u>	Signature of Inventor (12) <u>M. Y. A.</u>
Date: _____	Signature of Inventor (13) _____

Attorney Docket No. 2080-3729

ASSIGNMENT**(1-8) Insert Name(s) of Inventor(s)**

- | | |
|--------------------|---------------------|
| (1) Chul Soo LEE | (8) Won Gyu SONG |
| (2) In Hwan CHOI | (9) Joon Hui LEE |
| (3) Ho Taek HONG | (10) Jin Woo KIM |
| (4) Kook Yeon KWAK | (11) Byoung Gil KIM |
| (5) Hyoung Gon LEE | (12) Jong Yeul SUH |
| (6) Jae Hyung SONG | (13) Kyu Tas AHN |
| (7) Jin Pil KIM | |

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert name of Assignee**(9) LG Electronics Inc.****(10) Insert state of Incorporation of Assignee****(10) Republic of Korea****(11) Insert address of Assignee****(11) 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721, Republic of Korea**

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) Insert identification of Invention, such as Title, Case Number or Foreign Application Number

(12) DIGITAL BROADCASTING SYSTEM AND METHOD OF PROCESSING DATA IN DIGITAL BROADCASTING SYSTEM
for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

(13) Insert Date of Signing of Application**(13)**

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints the Attorneys associated with Customer No. 035884 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 United States Patent and Trademark Office for recordation of this document.

PATENT**REEL: 023838 FRAME: 0936**

Date: _____	Signature of Inventor (1) _____
Date: <u>Jan 05, 2010</u>	Signature of Inventor (2) <u>[Signature]</u>
Date: _____	Signature of Inventor (3) _____
Date: _____	Signature of Inventor (4) _____
Date: <u>Jan. 05, 2010</u>	Signature of Inventor (5) <u>[Signature]</u>
Date: <u>Jan. 06, 2010</u>	Signature of Inventor (6) <u>[Signature]</u>
Date: _____	Signature of Inventor (7) _____
Date: <u>Jan. 05, 2010</u>	Signature of Inventor (8) <u>[Signature]</u>
Date: _____	Signature of Inventor (9) _____
Date: <u>Jan 05, 2010</u>	Signature of Inventor (10) <u>[Signature]</u>
Date: <u>Jan. 05, 2010</u>	Signature of Inventor (11) <u>[Signature]</u>
Date: _____	Signature of Inventor (12) _____
Date: _____	Signature of Inventor (13) _____

Attorney Docket No. 2080-3729

ASSIGNMENT**(1-8) Insert Name(s) of Inventor(s)**

- | | |
|--------------------|---------------------|
| (1) Chul Soo LEE | (8) Won Gyu SONG |
| (2) In Hwan CHOI | (9) Joon Hui LEE |
| (3) Ho Taek HONG | (10) Jin Woo KIM |
| (4) Kook Yeon KWAK | (11) Byoung Gil KIM |
| (5) Hyoung Gon LEE | (12) Jong Yeul SUH |
| (6) Jae Hyung SONG | (13) Kyu Tae AHN |
| (7) Jin Pil KIM | |

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert name of Assignee**(9) LG Electronics Inc.****(10) Insert state of Incorporation of Assignee****(10) Republic of Korea****(11) Insert address of Assignee****(11) 20, Yeouldo-dong, Yeongdeungpo-gu, Seoul, 150-721, Republic of Korea**

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number

(12) DIGITAL BROADCASTING SYSTEM AND METHOD OF PROCESSING DATA IN DIGITAL BROADCASTING SYSTEM
for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

(13) Insert Date of Signing of Application**(13)**

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints the Attorneys associated with Customer No. 035884 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 United States Patent and Trademark Office for recordation of this document.

PATENT**REEL: 023838 FRAME: 0938**

Date: _____	Signature of Inventor (1) _____
Date: _____	Signature of Inventor (2) _____
Date: <u>30 Dec. 2009</u>	Signature of Inventor (3) <u>[Signature]</u>
Date: <u>2010, JAN. 21</u>	Signature of Inventor (4) <u>[Signature]</u>
Date: _____	Signature of Inventor (5) _____
Date: _____	Signature of Inventor (6) _____
Date: <u>2010, JAN. 21</u>	Signature of Inventor (7) <u>[Signature]</u>
Date: _____	Signature of Inventor (8) _____
Date: <u>December 30, 2009</u>	Signature of Inventor (9) <u>[Signature]</u>
Date: _____	Signature of Inventor (10) _____
Date: _____	Signature of Inventor (11) _____
Date: _____	Signature of Inventor (12) _____
Date: <u>2009, 12, 30</u>	Signature of Inventor (13) <u>[Signature]</u>

THE LAW FIRM OF
LEE, HONG, DEGERMAN, KANG & WAIMEY
A PROFESSIONAL CORPORATION

660 SOUTH FIGUEROA STREET
SUITE 2800
LOS ANGELES, CALIFORNIA 90017
TELEPHONE: (213) 623-2221
FACSIMILE: (213) 623-2211/8601



TO: Assignment Division
Facsimile number (571) 273-0140; Telephone No.: (571) 272-3350

RE: Serial No: 12/670,394
Filed: January 22, 2010
Confirmation No.: 2122
Attorney Docket No.: 2080-3729

DATE: January 22, 2010

TOTAL PAGES: **10** (including this page)

=====

Dear Sir:

Attached are the Recordation Form Cover Letter and the executed Assignment. Please charge the recordation fee to Deposit Account 502290. Please contact us if you have any questions. Thank you.

CONFIDENTIALITY NOTE: The information contained in this FAX transmission is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential or exempt from disclosure under applicable Federal or State Law. If the reader of this transmission is not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this transmission is strictly prohibited. If you receive this transmission in error, please notify us immediately by telephone at (213) 623-2221. Thank you.