

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jin Young Chun</td> <td>12/29/2012</td> </tr> <tr> <td>Jin Sam Kwak</td> <td>12/29/2012</td> </tr> <tr> <td>Wook Bong Lee</td> <td>12/29/2012</td> </tr> <tr> <td>Bin Chul Ihm</td> <td>01/24/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jin Young Chun	12/29/2012	Jin Sam Kwak	12/29/2012	Wook Bong Lee	12/29/2012	Bin Chul Ihm	01/24/2013
Name	Execution Date										
Jin Young Chun	12/29/2012										
Jin Sam Kwak	12/29/2012										
Wook Bong Lee	12/29/2012										
Bin Chul Ihm	01/24/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>LG Electronics Inc.</td> </tr> <tr> <td>Street Address:</td> <td>20 Yeouido-dong, Yeongdeungpo-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>150-721</td> </tr> </table>		Name:	LG Electronics Inc.	Street Address:	20 Yeouido-dong, Yeongdeungpo-gu	City:	Seoul	State/Country:	KOREA, REPUBLIC OF	Postal Code:	150-721
Name:	LG Electronics Inc.										
Street Address:	20 Yeouido-dong, Yeongdeungpo-gu										
City:	Seoul										
State/Country:	KOREA, REPUBLIC OF										
Postal Code:	150-721										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13807703</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13807703						
Property Type	Number										
Application Number:	13807703										
CORRESPONDENCE DATA											
<p>Fax Number: 2136232211 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 213-623-2221 Email: patent@lhlaw.com Correspondent Name: LEE, HONG, DEGERMAN, KANG & WAIMEY Address Line 1: 660 S. FIGUEROA STREET Address Line 2: Suite 2300 Address Line 4: LOS ANGELES, CALIFORNIA 90017</p>											
ATTORNEY DOCKET NUMBER:	2101-5407										
NAME OF SUBMITTER:	Harry S. Lee										
<p>Total Attachments: 2 source=2101-5407_Assignment#page1.tif source=2101-5407_Assignment#page2.tif</p>											

CH \$40.00 13807703

ASSIGNMENT

- (1-8) Insert Name(s) of Inventor(s)
- | | |
|---------------------|-----|
| (1) CHUN, Jin Young | (5) |
| (2) KWAK, Jin Sam | (6) |
| (3) LEE, Wook Bong | (7) |
| (4) IHM, Bin Chul | (8) |

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, Yeoungdeungpo-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) **METHOD AND DEVICE FOR TRANSMITTING MIDAMBLE SIGNALS IN WIRELESS COMMUNICATION SYSTEM**

(Application Serial No. 13/807,103)
 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)

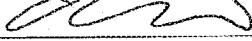
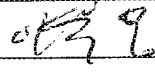
1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem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

Date: Dec. 29th, 2012 Signature of Inventor 
 Date: _____ Signature of Inventor _____
 Date: Dec. 29th, 2012 Signature of Inventor 
 Date: _____ Signature of Inventor _____

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

(1) CHUN, Jin Young (5)
 (2) KWAK, Jin Sam (6)
 (3) LEE, Wook Bong (7)
 (4) IHM, Bin Chul (8)

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, Yeoungdeungpo-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) **METHOD AND DEVICE FOR TRANSMITTING MIDAMBLE SIGNALS IN WIRELESS COMMUNICATION SYSTEM**

(Application Serial No. 1310811.1103)
 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.

Date: _____ Signature of Inventor _____
 Date: Dec. 29, 2012 Signature of Inventor [Signature]
 Date: _____ Signature of Inventor _____
 Date: 27 Jan 2013 Signature of Inventor [Signature]