

## 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>Dongcheol Kim</td> <td>12/17/2012</td> </tr> <tr> <td>Hyunsoo Ko</td> <td>12/17/2012</td> </tr> <tr> <td>Hangyu Cho</td> <td>12/17/2012</td> </tr> <tr> <td>Jaehoon Chung</td> <td>12/17/2012</td> </tr> <tr> <td>Moonil Lee</td> <td>01/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	Dongcheol Kim	12/17/2012	Hyunsoo Ko	12/17/2012	Hangyu Cho	12/17/2012	Jaehoon Chung	12/17/2012	Moonil Lee	01/22/2013
Name	Execution Date												
Dongcheol Kim	12/17/2012												
Hyunsoo Ko	12/17/2012												
Hangyu Cho	12/17/2012												
Jaehoon Chung	12/17/2012												
Moonil Lee	01/22/2013												
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>13704165</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13704165								
Property Type	Number												
Application Number:	13704165												
CORRESPONDENCE DATA													
<p>Fax Number: 2024967756  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2024967500        Email: mlaip@mckennalong.com        Correspondent Name: McKenna Long &amp; Aldridge LLP        Address Line 1: 1900 K Street NW        Address Line 4: Washington, DISTRICT OF COLUMBIA 20006</p>													
ATTORNEY DOCKET NUMBER:	8737.00640.US00												
NAME OF SUBMITTER:	Michael I. Angert												
<p>Total Attachments: 4        source=8737_00640_US00_Assignment#page1.tif        source=8737_00640_US00_Assignment#page2.tif        source=8737_00640_US00_Assignment#page3.tif        source=8737_00640_US00_Assignment#page4.tif</p>													

CH \$40.00 13704165

## Assignment of Application

WHEREAS, I (WE) **KIM, Dongcheol, KO, Hyunsoo, CHO, Hangyu, CHUNG, Jaehoon, LEE, Moonil**, respectively, have invented certain new and useful improvements in:

**METHOD FOR CONTROLLING UPLINK TRANSMISSION POWER FOR TRANSMITTING A PLURALITY OF CODE WORDS IN A WIRELESS COMMUNICATION SYSTEM THAT SUPPORTS A PLURALITY OF ANTENNAS, AND APPARATUS FOR PERFORMING THE METHOD**

- ☐ for which an application for a Letters Patent was executed on \_\_\_\_\_
- ☒ for which an application for a Letters Patent was filed on December 13, 2012  
as Application No. 13/704,165

WHEREAS, **LG Electronics Inc.**  
(hereinafter referred to as "ASSIGNEE") having a place of business at:  
**20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, REPUBLIC OF 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.

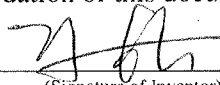
I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the 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.

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.

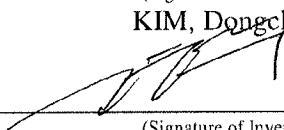
Date: Dec. 17th, 2012



(Signature of Inventor)

KIM, Dongcheol

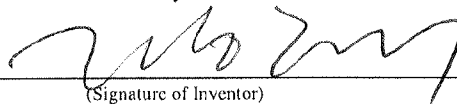
Date: 17th. Dec. 2012



(Signature of Inventor)

KO, Hyunsoo

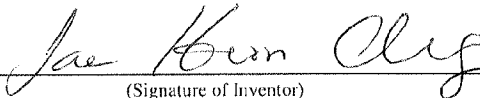
Date: 17th. Dec. 2012



(Signature of Inventor)

CHO, Hangyu

Date: 17 Dec., 2012



(Signature of Inventor)

CHUNG, Jaehoon

Date: \_\_\_\_\_

(Signature of Inventor)

LEE, Moonil

**McKenna Long & Aldridge LLP**

Attorneys At Law  
1900 K Street, N.W.  
Washington, D.C. 20006

## Assignment of Application

WHEREAS, I (WE) **KIM, Dongcheol, KO, Hyunsoo, CHO, Hangyu, CHUNG, Jachoon, LEE, Moonil**, respectively, have invented certain new and useful improvements in:

**METHOD FOR CONTROLLING UPLINK TRANSMISSION POWER FOR TRANSMITTING A PLURALITY OF CODE WORDS IN A WIRELESS COMMUNICATION SYSTEM THAT SUPPORTS A PLURALITY OF ANTENNAS, AND APPARATUS FOR PERFORMING THE METHOD**

☐ for which an application for a Letters Patent was executed on \_\_\_\_\_  
☒ for which an application for a Letters Patent was filed on December 13, 2012  
as Application No. 13/704,165

WHEREAS, **LG Electronics Inc.**  
(hereinafter referred to as "ASSIGNEE") having a place of business at:  
**20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, REPUBLIC OF 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;

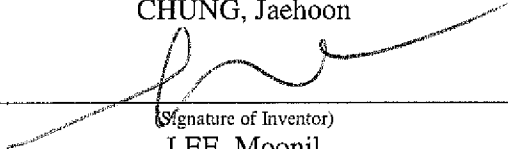
NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United 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.

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: _____	_____ (Signature of Inventor) KIM, Dongcheol
Date: _____	_____ (Signature of Inventor) KO, Hyunsoo
Date: _____	_____ (Signature of Inventor) CHO, Hangyu
Date: _____	_____ (Signature of Inventor) CHUNG, Jaehoon
Date: <u>1-22-13</u>	 _____ (Signature of Inventor) LEE, Moonil

**McKenna Long & Aldridge LLP**  
Attorneys At Law  
1900 K Street, N.W.  
Washington, D.C. 20006