

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2731301

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>HYEYOUNG CHOI</td> <td>01/27/2014</td> </tr> <tr> <td>JINMIN KIM</td> <td>01/27/2014</td> </tr> <tr> <td>SEUNGHEE HAN</td> <td>01/24/2014</td> </tr> <tr> <td>HYUKMIN SON</td> <td>01/28/2014</td> </tr> <tr> <td>HYUNWOO LEE</td> <td>01/27/2014</td> </tr> </tbody> </table>		Name	Execution Date	HYEYOUNG CHOI	01/27/2014	JINMIN KIM	01/27/2014	SEUNGHEE HAN	01/24/2014	HYUKMIN SON	01/28/2014	HYUNWOO LEE	01/27/2014
Name	Execution Date												
HYEYOUNG CHOI	01/27/2014												
JINMIN KIM	01/27/2014												
SEUNGHEE HAN	01/24/2014												
HYUKMIN SON	01/28/2014												
HYUNWOO LEE	01/27/2014												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>LG ELECTRONICS INC.</td> </tr> <tr> <td>Street Address:</td> <td>128, YEOUNI-DAERO</td> </tr> <tr> <td>Internal Address:</td> <td>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:	128, YEOUNI-DAERO	Internal Address:	YEONGDEUNGPO-GU	City:	SEOUL	State/Country:	KOREA, REPUBLIC OF	Postal Code:	150-721
Name:	LG ELECTRONICS INC.												
Street Address:	128, YEOUNI-DAERO												
Internal Address:	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>14239062</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14239062								
Property Type	Number												
Application Number:	14239062												
CORRESPONDENCE DATA													
Fax Number:	(202)496-7756												
Phone:	2024967500												
Email:	mlaip@mckennalong.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	MCKENNA LONG & ALDRIDGE LLP												
Address Line 1:	1900 K STREET NW												
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20001												
ATTORNEY DOCKET NUMBER:	8737.00889.US00												
NAME OF SUBMITTER:	MICHAEL I. ANGERT												

PATENT

Signature:	/Michael I. Angert, Reg. No. 46,522/
Date:	02/18/2014
Total Attachments: 8 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif	

Assignment of Application

WHEREAS, I (WE)	CHOI, Hyeyoung; KIM, Jinmin; HAN, Seunghee; SON, Hyukmin and LEE, Hyunwoo		
		, respectively,	
have invented certain new and useful improvements in:			
METHOD AND APPARATUS FOR TRANSRECEIVING SYNCHRONIZATION SIGNAL IN WIRELESS COMMUNICATION SYSTEM			
for which an application for Letters Patent was executed on			
(Application No.		, Filed), and
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.

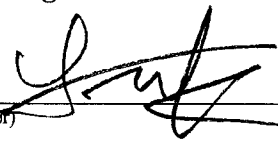
I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the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

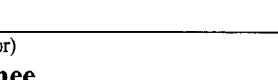
Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute 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.

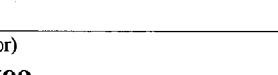
The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply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

Date: 2014. 01. 27

(Signature of Inventor)
CHOI, Hyeyoung

Date: 2014. 01. 27

(Signature of Inventor)
KIM, Jinmin

Date: _____

(Signature of Inventor)
HAN, Seunghee

Date: _____

(Signature of Inventor)
SON, Hyukmin

Date: _____

(Signature of Inventor)
LEE, Hyunwoo

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

Assignment of Application

WHEREAS, I (WE)	CHOI, Hyeyoung; KIM, Jinmin; HAN, Seunghee; SON, Hyukmin and LEE, Hyunwoo		
			, respectively,
have invented certain new and useful improvements in:			
METHOD AND APPARATUS FOR TRANSRECEIVING SYNCHRONIZATION SIGNAL IN WIRELESS COMMUNICATION SYSTEM			
for which an application for Letters Patent was executed on			
(Application No.		, Filed	
), and		
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

12FCCM890US02

KBK Ref. OPP-TZ-2012-0323-US-00/CT

Docket No.:

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)

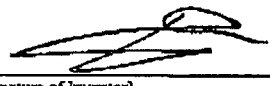
CHOI, Hyeyoung

Date: _____

(Signature of Inventor)

KIM, Jinmin

Date: 01/24/14



(Signature of Inventor)

HAN, Seunghee

Date: _____

(Signature of Inventor)

SON, Hyukmin

Date: _____

(Signature of Inventor)

LEE, Hyunwoo

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

Assignment of Application

WHEREAS, I (WE)	CHOI, Hyeyoung; KIM, Jinmin; HAN, Seunghee; SON, Hyukmin and LEE, Hyunwoo		
			, respectively,
have invented certain new and useful improvements in:			
METHOD AND APPARATUS FOR TRANSRECEIVING SYNCHRONIZATION SIGNAL IN WIRELESS COMMUNICATION SYSTEM			
for which an application for Letters Patent was executed on			
(Application No.		, Filed	
), and		
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)
CHOI, Hyeyoung

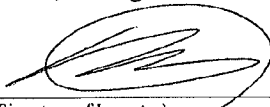
Date: _____

(Signature of Inventor)
KIM, Jinmin

Date: _____

(Signature of Inventor)
HAN, Seunghee

Date: 2014. 01. 28



(Signature of Inventor)
SON, Hyukmin

Date: _____

(Signature of Inventor)
LEE, Hyunwoo

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

Assignment of Application

WHEREAS, I (WE)	CHOI, Hyeyoung; KIM, Jinmin; HAN, Seunghee; SON, Hyukmin and LEE, Hyunwoo		
			, respectively,
have invented certain new and useful improvements in:			
METHOD AND APPARATUS FOR TRANSRECEIVING SYNCHRONIZATION SIGNAL IN WIRELESS COMMUNICATION SYSTEM			
for which an application for Letters Patent was executed on			
(Application No.		, Filed	
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

12FCCM890US02

KBK Ref. OPP-TZ-2012-0323-US-00/CT
Docket No.:

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)

CHOI, Hyeyoung

Date: _____

(Signature of Inventor)

KIM, Jinmin

Date: _____

(Signature of Inventor)

HAN, Seunghee

Date: _____

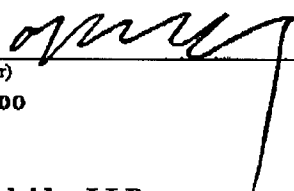
(Signature of Inventor)

SON, Hyukmin

Date: January 29, 2014

(Signature of Inventor)

LEE, Hyunwoo



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