

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>So Yeon KIM</td> <td>05/15/2012</td> </tr> <tr> <td>Sung Ho MOON</td> <td>07/06/2012</td> </tr> <tr> <td>Jae Hoon CHUNG</td> <td>05/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	So Yeon KIM	05/15/2012	Sung Ho MOON	07/06/2012	Jae Hoon CHUNG	05/14/2012
Name	Execution Date								
So Yeon KIM	05/15/2012								
Sung Ho MOON	07/06/2012								
Jae Hoon CHUNG	05/14/2012								
RECEIVING PARTY DATA									
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>13521205</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13521205				
Property Type	Number								
Application Number:	13521205								
CORRESPONDENCE DATA									
Fax Number:	(202)496-7756								
Phone:	202.496.7500								
Email:	mlaip@mckennalong.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	MCKENNA LONG & ALDRIDGE LLP								
Address Line 1:	1900 K STREET, NW								
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20006								
ATTORNEY DOCKET NUMBER:	8737.00549.US00								
NAME OF SUBMITTER:	Michael I. Angert								
<p>Total Attachments: 6 source=8737_00549_US00_Assignment#page1.tif</p>									

CH \$40.00 13521205

source=8737_00549_US00_Assignment#page2.tif
source=8737_00549_US00_Assignment#page3.tif
source=8737_00549_US00_Assignment#page4.tif
source=8737_00549_US00_Assignment#page5.tif
source=8737_00549_US00_Assignment#page6.tif

Assignment of Application

WHEREAS, I (WE)	KIM, So Yeon; Moon, Sung Ho and CHUNG, Jae Hoon		
			, respectively,
have invented certain new and useful improvements in:			
METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING PDCCH USING DCI HAVING ADJUSTED SIZE			
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: 15th. MAY. 2012



(Signature of Inventor)
KIM, So Yeon

Date: _____

(Signature of Inventor)
MOON, Sung Ho

Date: _____

(Signature of Inventor)
CHUNG, Jae Hoon

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

Assignment of Application

WHEREAS, I (WE)	KIM, So Yeon; Moon, Sung Ho and CHUNG, Jae Hoon
	, respectively,
have invented certain new and useful improvements in:	
METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING PDCCH USING DCI HAVING ADJUSTED SIZE	
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)

KIM, So Yeon

Date: July 6, 2012

(Signature of Inventor)

MOON, Sung Ho

Date: _____

(Signature of Inventor)

CHUNG, Jae Hoon

McKenna Long & Aldridge LLP

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

Assignment of Application

WHEREAS, I (WE)	KIM, So Yeon; Moon, Sung Ho and CHUNG, Jae Hoon
	, respectively,
have invented certain new and useful improvements in:	
METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING PDCCH USING DCI HAVING ADJUSTED SIZE	
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)

KIM, So Yeon

Date: _____

(Signature of Inventor)

MOON, Sung Ho

Date: 14 May, 2012

(Signature of Inventor)

CHUNG, Jae Hoon

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