PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Young Woo YUN	05/11/2009
Hak Seong KIM	05/11/2009
Bong Hoe KIM	05/11/2009
Joon Kui AHN	05/11/2009
Dong Youn SEO	05/11/2009
Jung Hoon LEE	05/11/2009
Ki Jun KIM	05/11/2009
Suk Hyon YOON	05/11/2009
Eun Sun KIM	06/02/2009

RECEIVING PARTY DATA

Name:	LG Electronics Inc.	
Street Address:	20 Yoido-dong, Yongdungpo-ku	
City:	Seoul	
State/Country:	REPUBLIC OF KOREA	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12509307

CORRESPONDENCE DATA

Fax Number: (202)496-7756

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 2024967106

Email: mlaip@mckennalong.com

Correspondent Name: McKenna Long & Aldridge LLP

Address Line 1: 1900 K Street NW

Address Line 2: Attorney Docket No. 8737.090.20

Address Line 4: Washington, DISTRICT OF COLUMBIA 20006

PATENT

REEL: 023011 FRAME: 0545

00 12509

CH \$40 0C

500920645 "

ATTORNEY DOCKET NUMBER:	8737.090.20
NAME OF SUBMITTER:	Michael I. Angert
Total Attachments: 2 source=8737-090-20_Assignment#page1.tif source=8737-090-20_Assignment#page2.tif	

PATENT REEL: 023011 FRAME: 0546



Assignment of Application

WHEREAS, I (WE)	Young Woo YUN, Hak Seong k	IM, Bong Hoe	KIM,
Joon Kui AHN, Dong Youn S YOON and Eun Sun KIM	SEO, Jung Hoon LEE, Ki Jun Kl	M, Suk Hyon	, respectively,
have invented certain new and useful improvements in:		*	
METHOD FOR TRANS	SMITTING PILOT FOR MULT	IPLE CARRIE	R SYSTEM
for which an application for	Letters Patent was executed on		

(Application No.	12/278,564	, Filed	August 6, 2008), and
WHEREAS,	LG Electronics Inc.			
	ed to as "ASSIGNEE") having oungdungpo-gu, Seoul, 150-7			

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.

Page 1 of 2

DC:50615813-E

Date: 2019 5-1	/rb/3
	Signature of Inventor)
	Young Woo YUN
0.016.4	71 35 /
Date: 2009 5.11	(Signature of Inventor)
	(Signature of inventor)
	Hak Seong KIM
	$\alpha A \alpha \alpha$
2 2008 to 1/2	alle
Date: 2009 5.11	
	(Signature of Inventix) Bong Hoe KIM
Date: 2009, 5, 11	
Date.	(Signature of Inventor)
	Joon Kui AHN
Date: 2009. 5. 11	
	(Signature of Inventor)
	Dong Youn SEO
Date: 3009, 511	
	(Signature of Inventor) Jung Hoon LEE
지내는 회사 시민들은 함께 경기를 받는다.	
Date: 200 P. 5. 11	
Date: 1	(Signature of Inventor)
	Ki Jun KIM
A	and the public of the first of the second of
Date: 2009 5 14	Thirth
	(Signature of Inventor)
	Suk Hyon YOON
	님님이 많은 병학 배를 하루고 말을 하는데 가는 다른 회에 많아 없는데?
	A RANGE TO THE REAL PROPERTY OF THE REAL PROPERTY O
Date: 2007. 6. 2	(IIV)
	(Signature of Inventor)

McKenna Long & Aldridge LLP Attorneys At Law

1900 K Street, N.W. Washington, D.C. 20006

Page 2 of 2

DC,5061581J.1