PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Seung Hee HAN	06/29/2012
Hyun Soo KO	06/29/2012
Jae Hoon CHUNG	06/29/2012
Moon II LEE	06/07/2012

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

Property Type	Number
Application Number:	13583577

CORRESPONDENCE DATA

 Fax Number:
 2024967756

 Phone:
 202.496.7500

Email: mlaip@mckennalong.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: MCKENNA LONG & ALDRIDGE LLP

Address Line 1: 1900 K STREET, NW

Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20006

ATTORNEY DOCKET NUMBER: 8737.00587.US00

NAME OF SUBMITTER: Michael I. Angert

Total Attachments: 6

PATENT REEL: 028919 FRAME: 0761 :H \$40.00

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PATENT REEL: 028919 FRAME: 0762

Assignment of Application

WHEREAS, I	(WE)	HAN, Seunghee; KO		,	1	
					, respect	ively,
have invented certain	n new ar	nd useful improvemen	its in:			
		APPARATUS FOR T N IN WIRELESS CO				
for which an applica	tion for	Letters Patent was exc	ecuted o	n		
(Application No.		,	Filed)	, and
WHEREAS, I	G ELE	ECTRONICS INC.				
•		ASSIGNEE") having a angpo-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.

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KBK No. OPP-TZ-2011-0158-US-00

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: 29, Jun	e,rol2	
	(Signature of Inventor) HAN, Seunghee	A
Date:		
	(Signature of Inventor) KO, Hyunsoo	
Date:		
,	(Signature of Inventor) CHUNG, Jachoon	
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)	HAN, Seunghee; KO, Hyunsoo;	
		CHUNG, Jachoon and LEE, Mo	oonil
			, respectively,
have invented cert	ain new a	and useful improvements in:	
		APPARATUS FOR TRANSMITT N IN WIRELESS COMMUNICA	
for which an appli-	cation for	r Letters Patent was executed on	
(Application No.		, Filed), and
WHEREAS,	LG EL	ECTRONICS INC.	
` ` ·		ASSIGNEE") having a place of busing a place of b	

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Date:	
	(Signature of Inventor)
	HAN, Seunghee
Date: 29 June 2012	
	(Signature of Inventor)
	KO, Hyunsoo
Date: 27 June, 2012	Jae Hoon Olig
	(Signature of Inventor)
	CHUNG, Jachoon
Date:	
	(Signature of Inventor)
	LEE Magnil

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

Assignment of Application

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			, respectively,
have invented cert	ain new a	nd useful improvements in:	
		APPARATUS FOR TRANSMIT N IN WIRELESS COMMUNIC.	
for which an appli	cation for	Letters Patent was executed on	
(Application No.		, Filed), and
WHEREAS,	LG ELE	CCTRONICS INC.	
		ASSIGNEE") having a place of building polynomial (SSIGNEE) having	

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and Trademark Office for recordat	ion of this document
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Date:	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Signature of Inventor)
	HAN, Seunghee
Date:	
The second secon	(Signature of Inventor)
	KO, Hyunsoo
Date:	
	(Signature of Inventor)
	CHUNG, Jaehoon
Date: 7-6-2012	
	(0: 4 - 61 -)
	(Signature of Inventor)

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

LEE, Moonil

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KBK No. OPP-TZ-2011-0158-US-00

PATENT REEL: 028919 FRAME: 0768