502644545 01/21/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
JIN YOUNG CHUN	12/20/2013
KI TAE KIM	12/20/2013
SU NAM KIM	12/20/2013
JI WON KANG	12/26/2013
BIN CHUL IHM	12/26/2013
SUNG HO PARK	12/20/2013

RECEIVING PARTY DATA

Name:	LG ELECTRONICS INC.	
Street Address:	20 YEOUIDO-DONG, YEONGDUNGPO-GU	
City:	SEOUL	
State/Country:	KOREA, REPUBLIC OF	
Postal Code: 150-721		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14234110

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 2101-5628
PATENT

502644545 REEL: 032012 FRAME: 0929

NAME OF SUBMITTER:	HARRY S. LEE	
Signature:	/Harry S. Lee/	
Date:	01/21/2014	
Total Attachments: 4 source=9_2101-5628_Assignment#page1.tif source=9_2101-5628_Assignment#page2.tif source=9_2101-5628_Assignment#page3.tif source=9_2101-5628_Assignment#page4.tif		

PATENT REEL: 032012 FRAME: 0930 12FCCM798US02

Attorney Docket No.

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)

(1) CHUN, Jin Young

(5) IHM, Bin Chul

(2) KIM, Ki Tae

(6) PARK, Sung Ho

(3) KIM, Su Nam

(7)

(4) KANG, Ji Won

(8)

(1) 10 1110, 01 11011

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert name of Assignee

(9) LG ELECTRONICS INC.

(10) Insert state of Incorporation of Assignee

(10) Republic of Korea

(11) Insert address of Assignee

(11) 20 Yeouido-dong, Yeoungdeungpo-gu, Seoul 150-721 Republic of Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) Insert identification of Invention, such as Title, Case Number or Foreign Application Number (12) METHOD AND APPARATUS FOR BIT MAPPING FOR DOWNLINK CONTROL CHANNEL IN WIRELESS COMMUNICATION SYSTEM

(Application Serial No.

for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

(13) Insert Date of Signing of Application (13)

- 1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints the Attorneys Associated with Customer No. 035884 the power to insert on this assignment any further identification 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	.20+4.	2013

Signature of Inventor(1)

Date: Dec. 20th. 2013

Signature of Inventor(2)

Date: Del 20th. 2013

Signature of Inventor(3)

Date: Dec 26th 2013

Signature of Inventor(4)

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12FCCM798US02	Atto	orney Docket No.
Date:	Signature of Inventor(5)	
Date: 00 th. Dec. 20/3	Signature of Inventor(6)	

12FCCM798US02

Attorney Docket No.

ASSIGNMENT

(1 0)	Inpart Nama(a) of Inventor(a)	(4) (SUILIN En Marina	(E) II III Bin Ohul	
(1-8)	Insert Name(s) of Inventor(s)	• ,	CHUN, Jin Young	(5) IHM, Bin Chul	
		• , ,	(IM, Ki Tae	(6) PARK, Sung Ho	
		(3) 1	(IM, Su Nam	(7)	
		(4) H	(ANG, Ji Won	(8)	
		cons		m of one dollar (\$1.00) and other good of the undersigned, the undersigned agreensfer and set over to	
<i>(9)</i>	Insert name of Assignee	(9)	LG ELECTRONICS IN	IC.	
(10)	Insert state of Incorporation o Assignee	f (10)	Republic of Korea		
(11)	Insert address of Assignee	(11)	20 Yeouido-dong, Ye	oungdeungpo-gu, Seoul 150-721 Republic of	Korea
			einafter designated as t e invention known as	ne Assignee) the entire worldwide right, title a	and interest
(12) Insert identification of Inventio such as Title, Case Number o Foreign Application Number		.,	(12) METHOD AND APPARATUS FOR BIT MAPPING FOR DOWNLINK CONTROL CHANNEL IN WIRELESS COMMUNICATION SYSTEM		
	γρασιού	for v Stat) as (have) executed an application for patent tent applications in foreign countries corresp	
(13)	Insert Date of Signing of Application	(13)			
and o	continuing United States and	foreign	applications for the al	cessary in connection with any original, reissove-identified invention and also to execute the deem necessary or expedient.	sue, divisional sute separate
declar	The undersigned a red concerning this application aining evidence and going forw	or continu	ation or division thereof	cessary in connection with any interference and to cooperate with the Assignee in every	which may be way possible
in con	The undersigned annection with claims or provision	gree(s) to as of the Ir	execute all papers and ternational Convention	documents and perform any act which may for Protection of Industrial Property or simila	be necessary r agreements.
United	4) The undersigned a States patent to the Assignee	agree(s) to	perform all affirmative	acts which may be necessary to obtain a gr	rant of a valid
said A intere The u this a	its of the United States resultin Assignee, as Assignee of the e st herein assigned, and that he undersigned hereby appoint:	g from sa entire inter has (they s the Atte fication v	d application or any divest, and hereby covena have) not executed any orneys Associated vehich may be necessa	the Commissioner of Patents to issue any a rision or divisions or continuing applications into that he has (they have) full right to convagreement in conflict herewith. With Customer No. 035884 the power to ary or desirable in order to comply with the of this document.	thereof to the vey the entire insert on
	Date: Signature of Inventor(1)				
Date:	Sign	ature of In	ventor(3)		
Date:	Date: Signature of Inventor(4)				

12FCCM798US02

Attorney Docket No.

Date:	26. Dec 20/3	Signature of Inventor(5)	01 H m
Date:		Signature of Inventor(6)	

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PATENT REEL: 032012 FRAME: 0934