503297679 05/07/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY DA	ATA		
		Name	Execution Date
YUNJUNG YI			04/28/2015
SUCKCHEL YANG			04/28/2015
JOONKUI AHN			04/28/2015
DONGYOUN SEO			04/28/2015
INKWON SEO			04/28/2015
HYANGSUN YOU			04/28/2015
RECEIVING PARTY DA	 ГА		
Name:	LG ELF	LG ELECTRONICS INC.	
Street Address:	20 YEC	DUIDO-DONG, YEONGDEUNGPO-GU	
City:	SEOUL	-	
State/Country:	KORE	A, REPUBLIC OF	
Postal Code:	150-72	1	
PROPERTY NUMBERS Property Type	Total: 1	Number	
Application Number:		14438856	
	 ATA		
Fax Number:		(213)623-2211	
Fax Number: Correspondence will be		(213)623-2211 5 the e-mail address first; if that is uns 1; if that is unsuccessful, it will be sent	
Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone:	provided	<i>the e-mail address first; if that is unsu</i> <i>i; if that is unsuccessful, it will be sent</i> 2136232221	
Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone: Email:	provideo	<i>the e-mail address first; if that is unsu</i> <i>t; if that is unsuccessful, it will be sent</i> 2136232221 PATENT@LHLAW.COM	t via US Mail.
Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name:	provideo	<i>the e-mail address first; if that is unsu</i> <i>t; if that is unsuccessful, it will be sent</i> 2136232221 PATENT@LHLAW.COM LEE, HONG, DEGERMAN, KANG & WA	t via US Mail. IMEY
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Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NU	providec	b the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 2136232221 PATENT@LHLAW.COM LEE, HONG, DEGERMAN, KANG & WA 660 SOUTH FIGUEROA STREET SUITE LOS ANGELES, CALIFORNIA 90017	t via US Mail. IMEY
Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUNNAME OF SUBMITTER:	providec	b the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 2136232221 PATENT@LHLAW.COM LEE, HONG, DEGERMAN, KANG & WA 660 SOUTH FIGUEROA STREET SUITE LOS ANGELES, CALIFORNIA 90017 2101-70065	t via US Mail. IMEY
Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	providec	b the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 2136232221 PATENT@LHLAW.COM LEE, HONG, DEGERMAN, KANG & WA 660 SOUTH FIGUEROA STREET SUITE LOS ANGELES, CALIFORNIA 90017 2101-70065 HARRY S. LEE	t via US Mail. IMEY

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ASSIGNMENT

1-8) Insert Name(s) of Inventor(s)	(1) YI, Yunjung (2) YANG, Suckchel (3) AHN, Joonkui (4) SEO, Dongyoun	(5) SEO, Inkwon (6) YOU, Hyangsun (7) (8)
	In consideration of the su valuable considerations	m of one dollar (\$1.00) and other good paid to each of the undersigned, issign, and hereby does assign, transfer

- (9) Insert name of Assignee
- (9) LG ELECTRONICS INC.(10) Republic of Korea
- (10) Insert state of Incorporation of Assignee
- (11) Insert address of Assignee

(11) 20 Yeouido-dong, Yeongdeungpo-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 TRANSCEIVING REFERENCE SIGNAL IN WIRELESS COMMUNICATION SYSTEM 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.

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.

PATENT REEL: 035590 FRAME: 0777

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Attorney Docket No.

Date:	20/5.4.28.	Signature of Inventor (1)
Date:	2015, 4.28	Signature of Inventor (2)
Date:	2015. 4.28	Signature of Inventor (3)
Date:		Signature of Inventor (4)
Date:	4/28/2015	Signature of Inventor (5) 2000
Date:	2015.4.28.	Signature of Inventor (6)

Attorney Docket No.

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)	(1) YI, Yunjung	(5) SEO, Inkwon
	(2) YANG, Suckchel	(6) YOU, Hyangsun
	(3) AHN, Joonkui	(7)
	(4) SEO, Dongyoun	(8)

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
- (10) Republic of Korea

(9) LG ELECTRONICS INC.

- (10) Insert state of Incorporation of Assignee
- (11) Insert address of Assignee

Invention, such as Title, Case Number or Foreign

Application Number

(12) Insert identification of

(11) 20 Yeouido-dong, Yeongdeungpo-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) METHOD AND APPARATUS FOR TRANSCEIVING REFERENCE SIGNAL IN WIRELESS COMMUNICATION SYSTEM

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.

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.

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PATENT REEL: 035590 FRAME: 0779

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Attorney Docket No.

Date:	Signature of Inventor (1)
Date:	Signature of Inventor (2)
Date:	Signature of Inventor (3)
Date: <u>2015.04.28</u>	Signature of Inventor (4)
Date:	Signature of Inventor (5)
Date:	Signature of Inventor (6)

RECORDED: 05/07/2015