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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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EPAS ID: PAT5501522

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MINSUNG KWAK	08/01/2016
JANGWON LEE	08/02/2016
KYOUNGSOO MOON	07/29/2016
WOOSUK KO	08/01/2016
SUNGRYONG HONG	08/08/2016

RECEIVING PARTY DATA

Name:	LG ELECTRONICS INC.
Street Address:	128, YEOUI-DAERO, YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	07336

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16400153

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 202-496-7500

Email: mlapto@mckennalong.com

Correspondent Name: DENTONS US LLP
Address Line 1: 1900 K. STREET, N.W.
Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	8736.01604.US21
NAME OF SUBMITTER:	BRUCE B. VANCE
SIGNATURE:	/Bruce B. Vance/
DATE SIGNED:	05/01/2019

Total Attachments: 4

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PATENT REEL: 049045 FRAME: 0943

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> PATENT REEL: 049045 FRAME: 0944

Assignment of Application

WHEREAS, I	(WE)	KWAK, Minsung; LEE, Jan	gwon; MOON,	Kyoungsoo;
KO, Woosuk and HONG, Sungryong			, respectively,	
have invented certai	n new a	and useful improvements in:		
SIGNAL RECEI	PTION	GNAL TRANSMISSION DE DEVICE, BROADCASTING ROADCASTING SIGNAL R	SIGNAL TRA	NSMISSION
for which an applica	ation for	Letters Patent was executed on		
(Application No.		, Filed	***************************************), and
WHEREAS, I	LG EL	ECTRONICS INC.		
		ASSIGNEE") having a place of angpo-gu Seoul 07336, Republic		

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 Dentons, 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: 1. Aug. 2016	Much
-	(Signature of Inventor) KWAK, Minsung
Date: 2. Aug. 2016	(Signature of Inventor)
	LEE, Jangwon
Date:	(Signature of Inventor)
	MOON, Kyoungsoo
Date: 1 Aug. 2016	<u>45</u>
	(Signature of Inventor) KO, Woosuk
Date: 8 Aug. 20/6	-15
•	(Signature of Inventor) HONG, Sungryong

Dentons US LLP 1900 K. Street, N.W. Washington, D.C. 20006

DC 51245461.1

Gar april 1948 REEL: 049045 FRAME: 0946 8 194

Assignment of Application

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KO, Woosuk and HONG, Sungryong		, respectively,		
have invented cert	ain new a	and useful improvements in:	THE COLUMN THE PROPERTY OF THE	SOCIETATION
SIGNAL RECI	EPTION	GNAL TRANSMISSION DE DEVICE, BROADCASTING ROADCASTING SIGNAL F	SIGNAL TRA	NSMISSION
for which an appli	cation for	r Letters Patent was executed o	n	
(Application No.		, Filed), and
WHEREAS,	LG EL	ECTRONICS INC.		
		ASSIGNEE") having a place o ungpo-gu Seoul 07336, Republ		

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;

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Date:	
	(Signature of Inventor) KWAK, Minsung
Date:	(Signature of Inventor) LEE, Jangwon
Date: 2016.7.29	(Signature of Inventor) / MOON, Kyoungsoo
Date:	(Signature of Inventor) KO, Woosuk
Date:	(Signature of Inventor) HONG, Sungryong

Dentons US LLP 1900 K Street, N.W. Washington, D.C. 20006

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