### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5497638

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SEUNGRYUL YANG	07/05/2017
JINWON LEE	07/05/2017
KYOUNGSOO MOON	07/05/2017
WOOSUK KO	07/05/2017
SUNGRYONG HONG	07/06/2017

#### **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:	16397463

### **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: mlaip@dentons.com

Correspondent Name: DENTONS US LLP

Address Line 1: 1900 K. STREET, N.W.

Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	8736.01761.US11
NAME OF SUBMITTER:	YONG S. CHOI
SIGNATURE:	/Yong S. Choi/
DATE SIGNED:	04/29/2019

**Total Attachments: 8** 

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PATENT REEL: 049023 FRAME: 0440

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PATENT REEL: 049023 FRAME: 0441

WHEREAS, I (	WE)	YANG, Seungryul KO, Woosuk; HO			N, Kyoung	soo;
	·			••	, respe	ctively,
have invented certain	new a	nd useful improvem	ents in:		·	
BROADCASTING SIGNAL RECE TRANSMISSION I METHOD	PTIO	N APPARATU	IS, B	ROADCAST	'ING S	IGNAL
for which an applicati	on for	Letters Patent was e	executed o	on		
			1	T		1
(Application No.			, Filed			), and
WHEREAS, L	G ELI	ECTRONICS INC				
(hereinafter referred to 128, Yeoui-daero Ye					a	

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.

### Docket No.:

LEE REF. 16FASL148PC01US01\_myl

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: 7-5-2017	(Signature of Inventor)
Date:	YANG, Seungryul  (Signature of Inventor)
Date:	LEE, Jinwon  (Signature of Inventor)
Date: 5 Tuly 2017	MOON, Kyoungsoo  (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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Date:	
	(Signature of Inventor) YANG, Seungryul
Date: 1/5 /2019	(Signature of Inventor) LEE, Jinwon
Date:	(Signature of Inventor) MOON, Kyoungsoo
Date:	(Signature of Inventor) KO, Woosuk
Date:	(Signature of Inventor)

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for which an applic	ation fo	r Letters Patent was e	executed o	n			
(Application No.			, Filed	i			), and
WHEREAS,	LG EL	ECTRONICS INC					
,		ASSIGNEE") having eungpo-gu Seoul 07					
		-					

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Date:		
	(Signature of Inventor) YANG, Seungryul	
Date:	(Signature of Inventor) LEE, Jinwon	
Date: 2017. 7.	(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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for which an application for Letters Patent was executed on						
(Application No.			, Filed			), and
WHEREAS,	LG EL	ECTRONICS INC				
(hereinafter referred to as "ASSIGNEE") having a place of business at:  128, Yeoui-daero Yeongdeungpo-gu Seoul 07336, Republic of Korea						
			_	-		

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Date:	(Signature of Inventor)
	YANG, Seungryul
Date:	(Simple Shareta)
	(Signature of Inventor) LEE, Jinwon
Date:	
	(Signature of Inventor) MOON, Kyoungsoo
Date:	Circums (Lucya)
	(Signature of Inventor)  KO, Woosuk
Date: July 6, 2011)	149
,	(Signature of Inventor) HONG, Sungryong

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