## 506030007 04/24/2020

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Kyuhwan KWAK	05/12/2019
Seungmin LEE	05/09/2019
Yunjung YI	05/09/2019
Hyunho LEE	05/09/2019

## **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:	16797217

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	19819-1071002
NAME OF SUBMITTER:	JAKE DRAGONETTI
SIGNATURE:	/Jake Dragonetti/
DATE SIGNED:	04/24/2020

# **Total Attachments: 4**

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PATENT REEL: 052485 FRAME: 0687

#### **ASSIGNMENT**

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, <a href="Kyuhwan KWAK: Seungmin LEE: Yunjung YI: Hyunho LEE">Kyuhwan KWAK: Seungmin LEE: Yunjung YI: Hyunho LEE</a>, each individually assign to <a href="LG Electronics Inc.">LG Electronics Inc.</a>, a corporation formed under the laws of <a href="Republic of Korea">Republic of Korea</a>, and having a principal place of business at <a href="128">128</a>, <a href="Yeoui-daero">Yeongdeungpo-gu</a>, <a href="Seoul 07336 Republic of Korea</a>, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "<a href="METHOD FOR TRANSMITTING AND RECEIVING REFERENCE SIGNAL AND APPARATUS THEREFOR</a>," and was filed in the United States Patent and Trademark Office on <a href="16/397">16/397</a>,671</a>, as application <a href="Application">April 29</a>, 2019 (the "Application"). We authorize the insertion of the filing date and application number above.

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

PATENT REEL: 052485 FRAME: 0688

Kyuhwan KWAK	Date: 2019. 5. 12.
Seungmin LEE	Date:
Yunjung YI	Datc:
Hyunho LEE	Date:
•	
The Acciones becaby ask powled	as and recents the foregoing agricument
· ·	es and accepts the foregoing assignment.
Assignee: LG ELECTRONICS II	NC.
Assignee: LG ELECTRONICS II Signature:	NC.

Assignment Page 2 of 2

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Kyuhwan KWAK	Date:
Seungmin LEE	Date: _ ケックリタ
Yunjung YI	Date:
Hyunho LEE	Date: 30/9/05/69
The Assignee hereby acknowledges and	accents the forecoing accimpment
Assignee: LG ELECTRONICS INC.	accepts the foregoing assignment.
Signature:	Date:
13110-	

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Kyuhwan KWAK	Date:	
Seungmin LEE	Date:	
Yunjung YI	Date:5/9/2019	
Hyunho LEE	Date:	<del></del>
The Assignee hereby acknowledges an	d accepts the foregoing ass	ignment.
Assignee: LG ELECTRONICS INC.		
Signature:		Date:
Name:		
Title:		
41230980.4pc		

**RECORDED: 04/24/2020** 

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