## 505693216 09/26/2019

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHANGHWAN PARK	09/11/2019
SEONWOOK KIM	09/11/2019
HANJUN PARK	09/24/2019
JOONKUI AHN	09/11/2019
SUCKCHEL YANG	09/11/2019
SEUNGGYE HWANG	09/11/2019

#### **RECEIVING PARTY DATA**

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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16491670

### **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@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:	8737.02399.US00	
NAME OF SUBMITTER:	MARK R. KRESLOFF	
SIGNATURE:	/Mark R. Kresloff/	
<b>DATE SIGNED:</b> 09/26/2019		

**Total Attachments: 4** 

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> PATENT REEL: 050504 FRAME: 0437

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## **ASSIGNMENT**

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, PARK, Changhwan; KIM, Seonwook; PARK, Hanjun; AHN, Joonkui; YANG, Suckehel and HWANG, Seunggye, each individually assign to LG Electronics Inc., a corporation formed under the laws of Korea and having a principal place of business at 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336 Republic of Korea, 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 "METHOD FOR TRANSMITTING AND RECEIVING SIGNAL BETWEEN TERMINAL AND BASE STATION IN WIRELESS COMMUNICATION SYSTEM, AND APPARATUS FOR SUPPORTING SAME", and was filed in the United States Patent and Trademark Office on Support Local as application [6/49], 600 (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.

Assignment Page 1 of 2

PARK, Changhwan	Date: 20/9. 9.//
KIM, Seonwook	Date: 20/9.9.1/
PARK, Hanjun	Date:
AHN, Joonkui	Date: 2019. 9. 11
YANG, Suckchel	Date: 2019. 9,11
HWANG, Seunggye	Date: 2019, 9.11

+16:39

**REEL: 050504 FRAME: 0439** 

1

#### ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, PARK, Changhwan; KIM, Seonwook; PARK, Hanjun; AHN, Joonkui; YANG, Suckehel and HWANG, Seunggye, each individually assign to LG Electronics Inc., a corporation formed under the laws of Korea and having a principal place of business at 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336 Republic of Korea, 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 "METHOD FOR TRANSMITTING AND RECEIVING SIGNAL BETWEEN TERMINAL AND BASE STATION IN WIRELESS COMMUNICATION SYSTEM, AND APPARATUS FOR SUPPORTING SAME", and was filed in the United States Patent and Trademark Office on Support Local And application In United States Patent and Trademark Office on Support Local And application In United States Patent and Trademark Office on Support Local And Application In United States Patent and Trademark Office on Support Local And Application In United States Patent and Trademark Office on Support Local And Application In United States Patent and Trademark Office on Support Local And Application In United States Patent and Trademark Office on Support Local And Application In United States Patent and Trademark Office on Support Local And Application In United States Patent and Trademark Office on Support Local Application In United States Patent and Trademark Office on Support Local Application In United States Patent and Trademark Office Office In Indiana And Application In United States Patent and Trademark Office Office Indiana And Application In United States Patent and Trademark Office Indiana And Indiana And Indiana India

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.

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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.

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Assignment Page 1 of 2

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PARK, Changhwan	Date:
KIM, Seonwook	Date:
박 항공 PARK, Hanjun	Date: 19. 9. 24
AHN, Joonkui	Date:
YANG, Suckehel	Date:
HWANG, Seunggye	Date:

Assignment Page 2 of 2

PATENT REEL: 050504 FRAME: 0441