

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Kyuseok KIM	10/25/2019
Jiwon KANG	10/28/2019
Kijun KIM	10/25/2019
Hyungtae KIM	10/28/2019
Minki AHN	11/03/2019
Sukhyon YOON	10/28/2019
Kilbom LEE	11/22/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LG ELECTRONICS INC.
<b>Street Address:</b>	128, YEOUNI-DAERO, YEONGDEUNGPO-GU
<b>City:</b>	SEOUL
<b>State/Country:</b>	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
<b>Postal Code:</b>	07336
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17343247
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<i>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.</i>	
<b>Phone:</b>	+1 (202) 626-6431
<b>Email:</b>	haider@fr.com, apsi@fr.com
<b>Correspondent Name:</b>	KRISTIE HAIDER
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
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<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	20211-0400002
<b>NAME OF SUBMITTER:</b>	KRISTIE HAIDER
<b>SIGNATURE:</b>	/Kristie Haider/
<b>DATE SIGNED:</b>	06/12/2021

PATENT

**Total Attachments: 5**

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## ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, Kyuseok KIM, Jiwon KANG, Kijun KIM, Hyungtae KIM, Minki AHN, Sukhyon YOON and Kilbom LEE each individually assigns to LG ELECTRONICS INC., a corporation formed under the laws of Republic 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 invention(s) (the "Subject Matter") described in a patent application that names us as inventors, is titled "METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING REFERENCE," and was or will be filed in the United States Patent and Trademark Office on September 30, 2019, as application 16/499740 (the "Application"). We authorize the insertion of the filing date and application number above.

This Assignment assigns, in addition to the Subject Matter of the Application, (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 and under every treaty or convention, (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.

KYUSEOK  
Kyuseok KIM

Date: Oct. 25. 2019

[Signature]  
Jiyon KANG

Date: 2019.10.28

[Signature]  
Kijun KIM

Date: 2019/10/28

[Signature]  
Hyungtae KIM

Date: 2019.10.28

\_\_\_\_\_   
Minki AHN

Date: \_\_\_\_\_

[Signature]  
Sukhyon YOON

Date: 2019.10.28

\_\_\_\_\_   
Kilbom LEE

Date: \_\_\_\_\_

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\_\_\_\_\_  
Kyuseok KIM

Date: \_\_\_\_\_

\_\_\_\_\_  
Jiwon KANG


Date: \_\_\_\_\_

\_\_\_\_\_  
Kijun KIM

Date: \_\_\_\_\_

\_\_\_\_\_  
Hyungtae KIM

Date: \_\_\_\_\_

  
\_\_\_\_\_  
Minki AHN

Date: 11/03/2019

\_\_\_\_\_  
Sukhyon YOON

Date: \_\_\_\_\_

\_\_\_\_\_  
Kilbom LEE

Date: \_\_\_\_\_

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..... Date: .....

Kyuseok KIM

..... Date: .....

Jiwon KANG

..... Date: .....

Kijun KIM

..... Date: .....

Hyungtae KIM

..... Date: .....

Minki AHN

..... Date: .....

Sukhyon YOON

..... Date: 19. 11. 22

  
Kibom LEE

Witnessed by:

Signature: .....

Date: .....

Print Name: .....

Signature: .....

Date: .....

Print Name: .....

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: LG ELECTRONICS INC.

Signature: .....

Date: .....

Name: .....

Title: .....

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