

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT5638146

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Hyun Soo KO	09/03/2018
Kijun KIM	09/03/2018
Eunsun KIM	08/08/2018
Sukhyon YOON	09/04/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LG Electronics Inc.
<b>Street Address:</b>	128, Yeoui-daero, Yeongdeungpo-gu Seoul 07336
<b>Internal Address:</b>	Republic of Korea
<b>City:</b>	Seoul
<b>State/Country:</b>	Republic of Korea
<b>Postal Code:</b>	07336
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16242560
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
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<b>Phone:</b>	+1 (202) 626-6431
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<b>ATTORNEY DOCKET NUMBER:</b>	19819-0875002
<b>NAME OF SUBMITTER:</b>	MELISSA ANDERSEN
<b>SIGNATURE:</b>	/Melissa Andersen/
<b>DATE SIGNED:</b>	07/26/2019
<b>Total Attachments: 3</b>	

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ASSIGNMENT


For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, KO, Hyunsoo, KIM, Kijun, KIM, Eunsun, and YOON, Sukhyon each individually assign 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 subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DOWNLINK CHANNEL," and was filed in the United States Patent and Trademark Office on June 22, 2018, as application 16/065,754 (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.

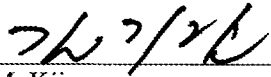
We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

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.

  
\_\_\_\_\_

Date: 2018. 9. 3

  
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Date: 2018 10/3

\_\_\_\_\_  
KIM, Eunsun

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

  
\_\_\_\_\_

Date: 2018-9. 4

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: LG ELECTRONICS INC.

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

Name: \_\_\_\_\_

Title: \_\_\_\_\_

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\_\_\_\_\_  
KO, Hyunsoo

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

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

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

  
\_\_\_\_\_  
KIM, Eunsun

Date: 8/8/2018

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

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

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: LG ELECTRONICS INC.

Signature: \_\_\_\_\_

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

Name: \_\_\_\_\_

Title: \_\_\_\_\_

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