

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5944416

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Jongwon KIM	12/10/2019
Jungdae LEE	12/10/2019
Myungkeun YOO	12/10/2019
Junho AHN	12/10/2019
Jungik HA	12/10/2019
Sungho JUNG	12/10/2019
Jaeyong PARK	12/10/2019
<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>
Application Number:	15766701
<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>	+1 202-626-7708
<b>Email:</b>	andersen@fr.com, apsi@fr.com
<b>Correspondent Name:</b>	MINSEUNG AHN
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	20349-0337US1
<b>NAME OF SUBMITTER:</b>	MELISSA ANDERSEN
<b>SIGNATURE:</b>	/Melissa Andersen/

PATENT

<b>DATE SIGNED:</b>	02/04/2020
<b>Total Attachments: 2</b> source=Executed_Assignment#page1.tif source=Executed_Assignment#page2.tif	

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, Jongwon KIM, Jungdae LEE, Myungkeun YOO, Junho AHN, Jungik HA, Sungho JUNG, and Jaeyong PARK, 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 SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION, a corporation formed under the laws of KOREA and having a principal place of business at Gwanak-ro 1, Gwanak-gu, Seoul 08826 Republic of Korea, and its successors, transferees, and assignees (collectively the "Assignees"), 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 "MOTOR DRIVING APPARATUS AND HOME APPLIANCE COMPRISING SAME", and was filed in the United States Patent and Trademark Office on April 6, 2018 as application 15/766,701 (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.

Jongwon Kim  
Jongwon KIM

Date: 12/10/2019

Jungdae Lee  
Jungdae LEE

Date: 12/10/2019

Myungkeun Yoo  
Myungkeun YOO

Date: 12/10/2019

Junho Ahn  
Junho AHN

Date: 12/10/2019

Jungik HA  
Jungik HA

Date: 12/10/2019

Sungho Jung  
Sungho JUNG

Date: 12/10/2019

Jaeyong Park  
Jaeyong PARK

Date: 12/10/2019