

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6043652

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Sungyong KANG	12/11/2019
Hanbyul SEO	10/25/2019
Youngtae Kim	11/06/2019
Hyukjin CHAE	10/24/2019
Heejin Kim	10/23/2019
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:	16604074
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	+1 (202) 626-6431
Email:	apsi@fr.com
Correspondent Name:	WON S. YOON
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	19819-1160US1
NAME OF SUBMITTER:	AMANDA PETERSEN
SIGNATURE:	/Amanda Petersen/
DATE SIGNED:	04/02/2020
Total Attachments: 8	

source=Executed Assignment#page1.tif
source=Executed Assignment#page2.tif
source=Executed Assignment#page3.tif
source=Executed Assignment#page4.tif
source=Executed Assignment#page5.tif
source=Executed Assignment#page6.tif
source=Executed Assignment#page7.tif
source=Executed Assignment#page8.tif

18ASL289PC01US01_sync

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, KANG, Sungyong; SEO, Hanbyul; KIM, Youngtae; CHAE, Hyukiin and KIM, Heejin, 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 ALLOCATING TRANSMISSION RESOURCE FOR DEVICE TO DEVICE DIRECT COMMUNICATION IN WIRELESS COMMUNICATION SYSTEM AND APPARATUS THEREFOR", and was filed in the United States Patent and Trademark Office on October 9, 2019, as application 16/604014 (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

18ASL289PC01US01_sync



KANG, Sungyong Date: Dec. 11 2019

SEO, Hanbyul Date: _____

KIM, Youngtae Date: _____

CHAE, Hyukjin Date: _____

KIM, Heejin Date: _____

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, KANG, Sungyong; SEO, Hanbyul; KIM, Youngtae; CHAE, Hyukjin and KIM, Heejin, 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 ALLOCATING TRANSMISSION RESOURCE FOR DEVICE TO DEVICE DIRECT COMMUNICATION IN WIRELESS COMMUNICATION SYSTEM AND APPARATUS THEREFOR", and was filed in the United States Patent and Trademark Office on October 9, 2019, as application 16164074 (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.

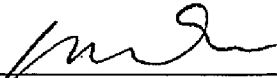
We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

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 |

KANG, Sungyong

Date: _____



SEO, Hanbyul

Date: 10/25/2019

KIM, Youngtae

Date: _____

CHAE, Hyukjin

Date: _____

김희진

KIM, Heejin

Date: 2019/10/23

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, KANG, Sungyong; SEO, Hanbyul; KIM, Youngtae; CHAE, Hyukjin and KIM, Heejin, 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 ALLOCATING TRANSMISSION RESOURCE FOR DEVICE TO DEVICE DIRECT COMMUNICATION IN WIRELESS COMMUNICATION SYSTEM AND APPARATUS THEREFOR", and was filed in the United States Patent and Trademark Office on October 9, 2019, as application 16/604074 (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.

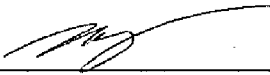
18ASL289PC01US01_syc

KANG, Sungyong

Date: _____

SEO, Hanbyul

Date: _____



KIM, Youngtae

Date: 2019 / 11 / 06

CHAE, Hyukjin

Date: _____

KIM, Heejin

Date: _____

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, KANG, Sungvong; SEO, Hanbyul; KIM, Youngtae; CHAE, Hyukjin and KIM, Heejin, 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 ALLOCATING TRANSMISSION RESOURCE FOR DEVICE TO DEVICE DIRECT COMMUNICATION IN WIRELESS COMMUNICATION SYSTEM AND APPARATUS THEREFOR", and was filed in the United States Patent and Trademark Office on October 9, 2019, as application 16/604274 (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.

KANG, Sungyong

Date: _____

SEO, Hanbyul

Date: _____

KIM, Youngtae

Date: _____



CHAE, Hyukjin

Date: 10/24/2019

KIM, Heejin

Date: _____