505804160 12/04/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KIJUN KIM	09/20/2019
SUKHYON YOON	09/20/2019
JIWON KANG	09/23/2019
EUNSUN KIM	09/07/2019

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:	16579783

CORRESPONDENCE DATA

Fax Number: (213)623-2211

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: 2136232221

Email: PATENT@LHLAW.COM

Correspondent Name: LEE, HONG, DEGERMAN, KANG & WAIMEY
Address Line 1: 660 S. FIGUEROA STREET, SUITE 2300
LOS ANGELES, CALIFORNIA 90017

ATTORNEY DOCKET NUMBER:	2101-71908
NAME OF SUBMITTER:	JUSTIN D. LEE
SIGNATURE:	/Justin D. Lee/
DATE SIGNED:	12/04/2019

Total Attachments: 4

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PATENT 505804160 REEL: 051182 FRAME: 0852

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PATENT REEL: 051182 FRAME: 0853

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound
legally, we, Kijun KIM; Sukhyon YOON; Jiwon KANG; Eunsun KIM, 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 USER EQUIPMENT FOR
EXECUTING BEAM RECOVERY, AND METHOD AND BASE STATION FOR
SUPPORTING SAME" and was filed in the United States Patent and Trademark Office on
, as application (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.

2/2/21	Date: 2018/8/20	
Kijun KIM	, ,	
Sukhyon YOON	Date: <u>2019. 9. 20</u>	
liwon KANG	Date: 2019/9/23	
Eunsun KIM	Date:	
The Assignee hereby acknowledges and	accepts the foregoing assignment.	
Assignee: LG ELECTRONICS INC.		
Signature:	Date:	
Name:		
Γitle:	·	

Assignment Page 2 of 2

41230980,doc

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound
legally, we, Kijun KIM; Sukhyon YOON; Jiwon KANG; Eunsun KIM, 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 USER EQUIPMENT FOR
EXECUTING BEAM RECOVERY, AND METHOD AND BASE STATION FOR
SUPPORTING SAME" and was filed in the United States Patent and Trademark Office on
, as application (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,

Kijun KIM	Date:
Sukhyon YOON	Date:
Jiwon KANG	Date:
Eurotus Kitvi	Date: 17/9/19
The Assignee hereby acknowledges a	and accepts the foregoing assignment.
Assignee: LG ELECTRONICS INC.	
Signature:	Date:
Name:	
Title:	
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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 2 of 2

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