PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Chulkeun KIM	03/15/2018
Junghak NAM	03/15/2018
Jaehyun LIM	02/09/2018
Naeri PARK	03/15/2018
Jungdong SEO	03/09/2018

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:	15764816

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	AMANDA PETERSEN
SIGNATURE:	/Amanda Petersen/
DATE SIGNED:	04/03/2018

Total Attachments: 4

PATENT REEL: 045427 FRAME: 0280



PATENT REEL: 045427 FRAME: 0281 16FASL946PC01US02 Attorney Docket No.:

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, <u>CHULKEUN KIM</u>, <u>JUNGHAK NAM</u>, <u>JAEHYUN LIM</u>, <u>NAERI PARK</u>, and <u>JUNGDONG SEO</u>, each individually assign to <u>LG ELECTRONICS INC</u>., a corporation formed under the laws of <u>Republic of Korea</u>, and having a principal place of business at <u>128</u>, <u>Yeouidaero</u>, <u>Yeongdeungpo-gu</u>, <u>Seoul 07336 Republic of Korea</u>, 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 "<u>METHOD AND APPARATUS OF FILTERING IMAGE IN IMAGE CODING SYSTEM</u>," and was filed in the United States Patent and Trademark Office on, as application <u>PCT/KR2016/010668</u> (the "Application").

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

Assignment Page 1 of 4

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.

/\	1	
Chulkeun	KIM	

Date: _ 2 . 18. 3, 15

Witnessed by:

Signature: Lyvinn

Print Name: Hydim PARK

Signature:

Print Name: Eunhye Jo

Date: 2018 3 15

Date: 2018 . 3.15

Junghak Nam

Date: 20/8.

2018. 3.15

Witnessed by:

Signature:

lyvinn

Date: 2014. 3.15

Print Name: Hydrim PARK

Signature:

Date: 2018, 3.15

Print Name: Eunhye Jo

Jachyun LIM	Date:
Witnessed by:	
Signature:	Date: 2018, 3.15
Print Name: Myorim PARK	•
Signature:	Date: 2018. 3.15
Print Name: <u>Eunhyle</u> Jo	•
Naeri PARK	Date:
Witnessed by:	
Signature: <u>luyurinu</u> Print Name: Hydrim PARK	Date: 2018. 3.15
Print Name: Hydim PARK	•
Signature:	Date: 2018. 3.15
Print Name: Eunhyle Jo	•

Assignment Page 3 of 4

Tunda Sea

Assignee: LG ELECTRONICS INC.

Signature: _

miles in	Date:	
Jungdong SEO		
Witnessed by:		
Signature: Lyvinu	Date: 2018. 3.15	
Signature: Myorim PARK Print Name: Hyorim PARK	•	
Signature:	Date: 20 18 3.15	
Print Name: <u>Funhyle</u> Jo		
The Assignee hereby acknowledges and acc	cepts the foregoing assignment.	

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PATENT REEL: 045427 FRAME: 0285

Date: March 20, 2018