#### 503654446 01/19/2016

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SANGCHUL MOON	12/29/2015
WOOSUK KO	12/29/2015
SUNGRYONG HONG	12/29/2015
JINWOO KIM	12/29/2015
JONGWOONG SHIN	12/29/2015

#### **RECEIVING PARTY DATA**

Name:	LG ELECTRONICS INC.
Street Address:	128, YEOUI-DAERO, YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	150-721

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14905692

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	0465-5382PUS1
NAME OF SUBMITTER:	THUY-KIM T. NGUYEN
SIGNATURE:	/Thuy-Kim T. Nguyen/
DATE SIGNED:	01/19/2016

**Total Attachments: 3** 

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> PATENT REEL: 037522 FRAME: 0565

Attorney Docket No. 0465-5382PUS1

#### BIRCH, STEWART, KOLASCH & BIRCH, LLP

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### DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

United States Patent Rights, or United States Plus all Poreign Patent Rights Title of Invention " APPARATUS FOR TRANSMITTING BROADCAST SIGNALS, APPARATUS FOR RECEIVING BROADCAST SIGNALS, METHOD FOR TRANSMITTING BROADCAST SIGNALS AND METHOD FOR RECEIVING BROADCAST SIGNALS As a below named inventor (hereinafter designated as the undersigned), I hereby declare that: This declaration is directed to the application attached hereto. Application not The application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following: Enter Apple. No. Durited States Application Number or PCT International Applin. No. PCT/KR2014/007127 Enter Filing Date == filed on August 1, 2014 The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understand the contents of the above-identified application, including the claims. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56. WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified. Insert Name WHEREAS, LG ELECTRONICS INC. of Assignee Insert Address 🗢 of 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea, of Assignee its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and Check Box if in any foreign countries. Appropriate

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to

any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or

terms for which the same may be granted.

B6KB-DECASSIGN-SINGLE (09-12)

LGE Ref.: 14FCIC202US02 Attorney Docket No. 0465-5382PUS1

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

#### LEGAL NAME OF INVENTOR

Inventor's Name	⇔ Inventor:	MOON, Sangchul	Date:	29.	2015	
Inventor's Signature	· * Signature:	36			 	

An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.

Additional inventors are being named on the 1 supplemental sheet(s) attached hereto.

LGE Ref.: 14FCIC202US02 Attorney Docket No. 0465-5382PUS1

# SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

# ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name	⇒ Inventor:	KO, Woosuk	Date:	29	Dec.	2015
Inventor's Signature	Signature:	第	•			
	LEGAL N	AME OF JOINT INVENTOR, IF ANY				
hoventor's Name 1	<sup>5</sup> Inventor:	HONG, Sungryong	Date:	29	De	>0/5-
inventor's Signature	Signature:	<u>ー</u> ち		- /		······································
	LEGAL N	AME OF JOINT INVENTOR, IF ANY				
Inventor's Name	™Inventor:	KIM, Jinwoo	Dates	Dec	29, 2	1014
Inventor's Signature	<sup>a</sup> Signature:	-42n	************	·		
		AME OF JOINT INVENTOR, IF ANY				
Inventor's Name	™inventor:		Date:	Per	-29	-2015
Inventor's Signature	<sup>∞</sup> Signature:	915	*************	************	***************************************	
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Inventor's Name	⇔Inventor:		Date:		······································	<del></del>
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**RECORDED: 01/19/2016**