

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3861466

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MINSUNG KWAK	12/22/2015
SEUNGRYUL YANG	12/22/2015
KYOUNGSOO MOON	01/18/2016
WOOSUK KO	12/22/2015
SUNGRYONG HONG	12/22/2015
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:	15034718
CORRESPONDENCE DATA	
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<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:	(703)205-8000
Email:	mailroom@bskb.com, tuyet.a.nguyen@bskb.com
Correspondent Name:	BIRCH, STEWART, KOLASCH & BIRCH, LLP
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Address Line 4:	FALLS CHURCH, VIRGINIA 22040-0747
ATTORNEY DOCKET NUMBER:	0465-5568PUS1
NAME OF SUBMITTER:	TUYET ANH NGUYEN
SIGNATURE:	/TUYET ANH NGUYEN/
DATE SIGNED:	05/05/2016
Total Attachments: 6	
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BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No.: 15/034,718 Filed: May 5, 2016

****(Given Name FAMILY NAME (ALL CAPS))****
Insert Name(s) of Inventor(s) ⇒ WHEREAS, KWAK, Minsung; YANG, Seungryul; MOON, Kyoungsoo; KO, Woosuk; and HONG, Sungryong
(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title of Invention ⇒
**BROADCAST SIGNAL TRANSMITTING APPARATUS, BROADCAST SIGNAL RECEIVING APPARATUS,
METHOD FOR TRANSMITTING BROADCAST SIGNAL, AND METHOD FOR RECEIVING BROADCAST
SIGNAL**

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date of Signing of Appln. ⇒ on December 22, 2015; and

Insert Name of Assignee ⇒ WHEREAS, LG ELECTRONICS INC.

Insert Address of Assignee ⇒ of 128, Yeoui-daero Yeongdeungpo-gu Seoul 150-721 Republic of Korea

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 Appropriate ⇒ in any foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has (have) 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.

SN: 15/034,718
Filed on May 5, 2016

Attorney Docket No.: 0465-5568PUS1

IJM
LGE Ref. : 15FASL382US02
KBK No. OPP-XZ-2015-0033-US-00

The undersigned agree(s) 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 agree(s) 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 agree(s) 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.

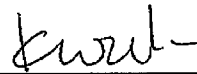
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee 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 authorize(s) and request(s) 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 (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

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

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

Date Dec. 22. 2015 Name of Inventor 
(Signature) KWAK, Minsung

Date 12-22-2015 Name of Inventor 
(Signature) YANG, Seungryul

Date _____ Name of Inventor _____
(Signature) MOON, Kyoungsoo

SN: 15/034,718
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Date 22 Dec. 2015

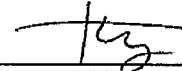
Name of Inventor



(Signature) **KO, Woosuk**

Date 22 Dec. 2015

Name of Inventor



(Signature) **HONG, Sungryong**

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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Insert Title of Invention ⇒

BROADCAST SIGNAL TRANSMITTING APPARATUS, BROADCAST SIGNAL RECEIVING APPARATUS, METHOD FOR TRANSMITTING BROADCAST SIGNAL, AND METHOD FOR RECEIVING BROADCAST SIGNAL

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date of Signing of Appln. ⇒ on January 18, 2016; and

Insert Name of Assignee ⇒ WHEREAS, LG ELECTRONICS INC.

Insert Address of Assignee ⇒ of 128, Yeoui-daero Yeongdeungpo-gu Seoul 150-721 Republic of Korea

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Check Box if Appropriate ⇒ in any foreign countries.

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The undersigned agree(s) 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.

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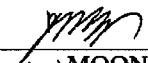
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The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

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

Date _____ Name of Inventor _____
(Signature) KWAK, Minsung

Date _____ Name of Inventor _____
(Signature) YANG, Seungryul

Date 2016. 1. 18 Name of Inventor 
(Signature) MOON, Kyoungsoo

SN: 15/034,718
Filed on May 5, 2016

Attorney Docket No.: 0465-5568PUS1

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LGE Ref. : 15FASL382US02
KBK No. OPP-XZ-2015-0033-US-00

Date _____ Name of Inventor _____
(Signature) **KO, Woosuk**

Date _____ Name of Inventor _____
(Signature) **HONG, Sungryong**