503648842 01/14/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3695477

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOUNGSOO HAN	01/07/2016
JONGHO KIM	01/07/2016
SUNHA PARK	01/07/2016
YOUNGKYOUNG KIM	01/07/2016
NARI LEE	01/07/2016

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:	29551478		

CORRESPONDENCE DATA

Fax Number: (703)205-8050

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: (703)205-8000

Email: mailroom@bskb.com, Tuyet.A.Nguyen@bskb.com **Correspondent Name:** BIRCH, STEWART, KOLASCH & BIRCH, LLP

Address Line 1: P.O. BOX 747

Address Line 4: FALLS CHURCH, VIRGINIA 22040-0747

ATTORNEY DOCKET NUMBER:	3449-2630PUS1
NAME OF SUBMITTER:	TUYET ANH NGUYEN
SIGNATURE:	/TUYET ANH NGUYEN/
DATE SIGNED:	01/14/2016

Total Attachments: 3

source=2016-01-13_DecAssignment_3449-2630PUS1#page1.tif

PATENT REEL: 037489 FRAME: 0155

503648842

 $source = 2016-01-13_DecAssignment_3449-2630PUS1\#page2.tif\\ source = 2016-01-13_DecAssignment_3449-2630PUS1\#page3.tif\\$

PATENT REEL: 037489 FRAME: 0156 SN: 29/551,478

Filed on January 13, 2016

Attorney Docket No.: 3449-2630PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747 • Falls Church, Virginia 22040-0747

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bekb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

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

the of Investion	* TV RECEIVER
	As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
	This declaration is directed to the application attached hereto.
opplication not attached	If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:
nter Appln. No	* United States Application Number or PCT International Applin. No.
nter Filing Date	* filed on
	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.
nseri Saute L'Assignee	* WHEREAS, LG ELECTRONICS INC.
nsert Address f Assignee	[∞] of 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, 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
Deck Sox of Appropriate	in any foreign countries.
	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.

88KB-DECA9SIGN(09-12)

SN: 29/551,478

Filed on January 13, 2016

Attorney Docket No.: 3449-2630PUS1

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 Assigner and to vest all rights therein hereby conveyed to said Assigner 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	⇒ In	iventor;	Youngsoo Han	Date:	January 7, 2016
loventor's Signature	⇒ Si	gnature:	Hengen Alm		
			\mathcal{O}		
An application	date	sheet (PTC	D/SB/14 or equivalent), including naming the entire inventive	entity	, must accompany this form.
			wenter, or check the box below and complete the attached has		

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

BSKB-DECASSIGN-SINGLE (09-12)

SN: 29/551,478

Filed on January 13, 2016

RECORDED: 01/14/2016

Attorney Docket No.: 3449-2630PUS1

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	Jongho Kim	Date: January 7, 2016
Inventor's Signature s	* Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
loventor's Name	hventor:	Sunha Park	Date: January 7, 2016
Inventor's Signature s	* Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	*Inventor:	Youngkyoung Kim	Date: January 7, 2016
inventor's Signatore	*Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	**Inventor	Nari Lee	Date: January 7, 2016
Inventor's Signature	*Signature:	Jepy.	
	LEGALNA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	[⊅] Inventor.		Date:
Inventor's Signature	≈Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
inventor's Nome	"Inventor:		Date:
Inventor's Signature	~Signatura:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	*Inventor:		Date:
biventer's Signature	⇔Signature.		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	*Inventor:		Date:
Inventor's Signature	*Signature:		

88K8-DECA98IGM\(99-12)

PATENT REEL: 037489 FRAME: 0159