### 503502070 09/30/2015

### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
YOUNGSOO HAN	07/08/2015
YOONKYEONG LEE	07/08/2015
BYUNGMU HUH	07/08/2015
MYUNGWHOON LEE	07/08/2015
ANGUS DICK	08/05/2015

#### **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:	29530838		

#### **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, brian.olive@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:	3449-2284PUS1
NAME OF SUBMITTER:	BRIAN OLIVE
SIGNATURE:	/brian olive/
DATE SIGNED:	09/28/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).
	•

Total Attachments: 5

PATENT REEL: 036719 FRAME: 0124

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> PATENT REEL: 036719 FRAME: 0125

Atterney Docket No. 3449-2284PUS1

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

P.O. Box 747 \* Falls Church, Virginia 22040-0747 Telephone: (703) 205-8000 \* Facsimile: (703) 205-8050 \* Email: mailroom@bskb.com

# DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

United States Patent Rights, or United States Plus all Foreign Patent Rights

This of Invention (S. PROJECTOR

	As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
	This declaration is directed to the application attached hereto.
Application (to) 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:
Emer Apphi No.	* United States Application Number or PCT International Applin, No.
Sinser 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.
insen Name of Assigner	* WHEREAS, LG ELECTEONICS INC.
Insert Address of Assigner	* 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, tifle 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
Clock Box & Appropriate	in any foreign countries.
	NOW, THEREPORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has soid, 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 erapical.

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BSK8-DECASHGN(09-12)

Attorney Darket No. 3449-2284PUS1

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

			· · · · · · · · · · · · · · · · · · ·		
Inventoris Dame	4	Inventor	Youngsoo Han	Date:	July 8, 2015
Inventor's lignour	9- NF	Signature:	- Jangaran III.	garlere .	
e					
An application Use a separate	8 (0) 8 (0)	sta sheet (i?) rm for each i	O/SB/14 or equivalent), including naming the entire inventive inventor; or check the box below and complete the attached pa	e entity ge(s) to	, must accompany this form.  Sist additional inventors.
Additiona	Fin	venturs are l	ising named on the 1 supplemental sheet(s) attached hereto.		

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BSKB-DECASSEJV-GIDGLE (B9-12)

Attorney Docket No. 3449-2284PUS1

# 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 - 3	Inventor.	Yoonkyeong Lee	Date: July 8, 2015
loventor's Signature 🌣	Signature:	<u> </u>	
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
hivenuose Jame 🤏		Byungmu Hah	Date: July 8, 2015
Inventor etilgneture &	Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
		Myungwhoon Lee	Date: July 8, 2015
Inventor's Signature	°Signature:		
	LEGALN	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	Sinventor.	Angus Dick	Date: <u>July 8, 2015</u>
Inventor's Signature	<sup>©</sup> Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒inventor:		Date:
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Inventor's Highativic	*Signature:		
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Inventor's Name	<sup>©</sup> Inventor:		Date:
Inventor's Signature	<sup>o</sup> Signature:		
	LEGAL N	AME OF JOINT INVENTOR, IF ANY	
Incompres Nome	*Inventor		Date:
incomes s Signature	≪Signature:		

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Doc code: Oath

Document Description: Oath or declaration filed

Attorney Docket No.: 3449-2284PUS1

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# SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	PROJECTOR			
The attropy of the control of the co	int is directed to:  ached application,  States application or PCT international  ME of inventor to whom this sul  Name (first and middle (if any)) and F  except for a deceased or legally incapa	pstitute statement appliamily Name or Surname) acitated inventor): State	***************************************	
* .	&D Campus, LG Electronics Inc., 19, Yang	•		
City Seoul		State	Zip	Country South Korea
in the app The above-io	above-named inventor or joint invento dication.  fentified application was made or auth nowledge that any willful false statemenent of not more than five (5) years, or	orized to be made by me.		
Lec As:	to the inventor to whom this substituted and the inventor to whom this substituted are signed, reson to whom the inventor is under an area who otherwise shows a sufficient and inventor.	egally incapacitated invento obligation to assign,		R 1,46 is required), or

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This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 38 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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### SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:							
Inventor is deceased,							
Inventor is under legal incapacity,	Inventor is under legal incapacity,						
Inventor cannot be found or reached aff	Inventor cannot be found or reached after diligent effort, or						
Inventor has refused to execute the oat	Inventor has refused to execute the oath or declaration under 37 CFR 1.63.						
If there are joint inventors, please check the app	ropriate box below:						
An application data sheet under 37 CFF or is currently submitted.	An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been						
OR							
An application data sheet under 37 CFI Statement Supplemental Sheet (PTO/A information is attached. See 37 CFR 1.0	IA/11 or equivalent) naming						
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Name: Rick Cho			Date (Optional): Aug. 65, 2015				
Signature: Rick Cho							
APPLICANT NAME AND TITLE OF PERSON EX	<del>/////////////////////////////////////</del>	*********************					
If the applicant is a juristic entity, list the applicant	name and the title of the sign	ier;					
Applicant Name: LG ELECTRONICS INC.							
Title of Person Executing This Substitute Statement: Manager							
The signer, whose title is supplied above, is author	rized to act on behalf of the	applicant.	30000000000000000000000000000000000000				
Residence of the signer (unless provided in an	application data sheet, PT	O/AIA/14 or equivale	:nt);				
cu. Somá	State	Country Republic of Ko	rea				
City Seoul State Country Republic of Korea  Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)							
128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 150-721, Republic of Korea							
City Seoul St	ate	Zip 150-721	Country Republic of Korea				
Note: Use an additional PTO/AIA/02 form for each	inventor who is deceased, I	egally incapacitated, c					
after diligent effort, or has refused to execute the c	after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.						

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