# 505243540 12/18/2018

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5290319

		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY DA	<b>ATA</b>		
		Name	Execution Date
HWANJOON CHOI			12/07/2018
YONGHAN LEE			12/06/2018
BYUNGJOON RHEE	12/06/2018		
JINHYOUN JOE	12/10/2018		
SUNGJIN PARK			12/06/2018
RECEIVING PARTY DA	 TA		
Name:	LG ELECTRONICS INC.		
Street Address:	128, YEOUI-DAERO, YEONGDEUNGPO-GU		
City:	SEOUL		
State/Country:	KOREA, REPUBLIC OF		
Postal Code:	07336		
	<b>-</b>		
PROPERTY NUMBERS Property Type		Number	
Application Number:		16310022	
CORRESPONDENCE D	ΑΤΑ		
CORRESPONDENCE D		703)205-8050	
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#### Application No. 16/310,022 filed on December 14, 2018

Attorney Docket No. 0630-7815PUS1

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

8110 Gatehouse Road, Suite 100 East, Falls Church, Virginia 22042-1248 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

#### Title of Invention \* DISPLAY DEVICE USING SEMICONDUCTOR LIGHT EMITTING ELEMENT AND METHOD FOR MANUFACTURING SAME

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 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:

Enter 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.

Insert Name of Assignce

WHEREAS, LG ELECTRONICS INC.

March 7, 2017

Insert Address of 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

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 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, and if the box above is designated, in any and all foreign countries; including all rights under the International Convention for the Protection of Industrial Property or similar agreements as well as the right to claim benefit from the priority of the above-mentioned application; 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.

BIRCH, STEWART, KOLASCH & BIRCH, LLP

BSKB-DEC-ASSIGN (11-18)

PATENT REEL: 047952 FRAME: 0394

#### Application No. 16/310,022 filed on December 14, 2018

#### Attorney Docket No. 0630-7815PUS1

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

Hwanjoon CHOI

Samericado Ciencia	
<b>Inventor's Signature</b>	or stonatore

Inventor:

Inventor's Name

Date: December 7, 2018

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.

 $\boxtimes$  Additional inventors are being named on the <u>1</u> supplemental sheet(s) attached hereto.

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BIRCH, STEWART, KOLASCH & BIRCH, LLP

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B5KB-DEC-ASSIGN (11-18)

PATENT REEL: 047952 FRAME: 0395

#### Application No. 16/310,022 filed on December 14, 2018 Attorney Docket No. 0630-7815PUS1

	tal Sheet for and Assignment	ADDITIONAL INVENTOR(S) Supplemental Sheet Page _1_ of _1_	
LEGAL NA	ME OF JOINT INVENTOR, IF ANY		
Inventor's Name 🤝 Inventor: Y	onghan LEE	Date: December 6, 2018	
Inventor's Signature & Signature:			
LEGAL NAM	ME OF JOINT INVENTOR, IF ANY		
Inventor's Name 🌣 Inventor: 🔡	yungjoon RHEE	Date: December 6, 2018	
Inventor's Signature * Signature:	- JAC		
LEGAL NAM	ME OF JOINT INVENTOR, IF ANY		
Inventor's Name <sup>©</sup> Inventor: Ji	inhyoun JOE	Date: December 10, 2018	
byentor's Signature ⇒Signature:			
LEGAL NAM	IE OF JOINT INVENTOR, IF ANY		
Inventor's Name $\Rightarrow$ Inventor: <u>S</u>	ungjin PARK	Date: December 6, 2018	
inventor's Signature Signature	-Htres		

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BSKB-DEC-ASSIGN (11-18)

PATENT REEL: 047952 FRAME: 0396

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