

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6506743

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KI-TAE KIM	11/18/2020
SO-YOUNG NOH	10/06/2020
UI-JIN CHUNG	10/08/2020
KYEONG-JU MOON	10/06/2020
HYUK JI	11/19/2020
RECEIVING PARTY DATA	
Name:	LG DISPLAY CO., LTD.
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:	17119184
CORRESPONDENCE DATA	
Fax Number:	(703)205-8050
<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:	7032058000
Email:	bekek@bskb.com
Correspondent Name:	BIRCH STEWART KOLASCH & BIRCH LLP
Address Line 1:	8110 GATEHOUSE RD.
Address Line 2:	SUITE 100E
Address Line 4:	FALLS CHURCH, VIRGINIA 22042-1248
ATTORNEY DOCKET NUMBER:	6655-0760PUS1
NAME OF SUBMITTER:	KYLE BEKELJA
SIGNATURE:	/KYLE BEKELJA/
DATE SIGNED:	01/21/2021
Total Attachments: 4	

source=Assignment6655-0760PUS1#page1.tif

source=Assignment6655-0760PUS1#page2.tif

source=Assignment6655-0760PUS1#page3.tif

source=Assignment6655-0760PUS1#page4.tif

**COMBINED DECLARATION (37 CFR 1.63) FOR U.S. PATENT APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT OF INVENTION**

Title of Invention	DISPLAY APPARATUS HAVING AN OXIDE SEMICONDUCTOR PATTERN
---------------------------	---

DECLARATION

As the below named and undersigned inventor, I hereby declare that:

This declaration is directed to: ☒ The attached application, or
☐ United States application or PCT international application number _____
_ 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 hereby acknowledge 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.

Note to Inventor: 37 C.F.R. § 1.63(c) states: *A person may not execute an oath or declaration for an application unless that person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in § 1.56.*

ASSIGNMENT

WHEREAS, I have made an invention described and/or claimed in the above-identified application; and

WHEREAS, **LG Display Co., Ltd.**, a corporation of the Republic of Korea, having a place of business at **128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea**, (hereinafter referred to as "ASSIGNEE") desires to acquire the entire right, title, and interest in and to said invention in all countries throughout the world and the above-identified United States patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I have assigned and do hereby assign to the ASSIGNEE, and its lawful successors and assigns, the entire right, title, and interest in and to said invention, the above-identified United States patent application and all divisions, continuations, and continuations-in-part of said application, and reissues, extensions, and renewals of Letters Patent granted thereon, and all corresponding patent applications filed in countries foreign to the United States ("foreign countries") and corresponding international patent applications, and all Letters Patents issuing on any such patent applications in the United States and foreign countries;

I hereby assign to the ASSIGNEE, and its lawful successors and assigns, the right to file patent applications in foreign countries on said invention in its own name and the right to claim priority to the above-identified United States patent application under the terms of the International Convention and any other relevant treaties;

Birch, Stewart, Kolasch & Birch, LLP

I hereby authorize and request the United States Patent and Trademark Office and officials in patent offices in foreign countries to issue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title, and interest in and to the same, for the sole use and benefit of the ASSIGNEE, and its lawful successors and assigns, to the full end of the term for which said Letters Patent may be granted;

I hereby grant the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document;

I hereby covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment; and

Further, I hereby further covenant and agree that I will, without further consideration, communicate with the ASSIGNEE, and its lawful successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said ASSIGNEE, and its lawful successors or assigns, execute all divisional, continuation, continuation-in-part, and reissue applications, make all rightful oaths and generally do everything possible to aid the ASSIGNEE, and its lawful successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the ASSIGNEE, and its lawful successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hands.

NAME OF INVENTOR (Full Legal Name): Ki-Tae KIM

Signature: Ki Tae Kim Date: 11/18/2020

NAME OF INVENTOR (Full Legal Name): So-Young NOH

Signature: Soyoung Noh Date: 10/06/2020

NAME OF INVENTOR (Full Legal Name): Ui-Jin CHUNG

Signature: U.J Chung Date: 10/08/2020

NAME OF INVENTOR (Full Legal Name): Kyeong-Ju MOON

Signature: K. J. Moon Date: 10/06/2020

NAME OF INVENTOR (Full Legal Name): Hyuk JI

Signature: _____ Date: _____

NAME OF INVENTOR (Full Legal Name): _____

Signature: _____ Date: _____

Birch, Stewart, Kolasch & Birch, LLP

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**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	DISPLAY APPARATUS HAVING AN OXIDE SEMICONDUCTOR PATTERN		
This statement is directed to:			
☒ The attached application,			
OR			
☐ United States application or PCT international application number _____ filed on _____			
LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Hyuk Ji			
Residence (except for a deceased or legally incapacitated inventor):			
City	Paju-si	State	Country KR
Mailing Address (except for a deceased or legally incapacitated inventor):			
245 LG-ro, Wollong-myeon			
City	Paju-si, Gyeonggi-do	State	Zip 10848 Country KR
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
☐	Legal Representative (for deceased or legally incapacitated inventor only).		
☒	Assignee.		
☐	Person to whom the inventor is under an obligation to assign.		
☐	Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or		
☐	Joint Inventor.		

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.64. 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 35 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 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-P1-D-8199 and select option 2.

SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased.
☐ Inventor is under legal incapacity.
☒ Inventor cannot be found or reached after diligent effort; or
☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.
OR
☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Kyung Kwon Park

Date (Optional): 2020. 11. 19

Signature: *Kyung Kwon Park*

APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: LG Display Co., Ltd.

Title of Person Executing This Substitute Statement: Team Leader of IP DNA team

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City Seoul

State

Country KR

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

128, Yeouido-daero, Yeongdeungpo-gu

City Seoul

State

Zip 07336

Country KR

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

[Page 2 of 2]

PATENT

RECORDED: 01/21/2021

REEL: 055056 FRAME: 0179