505836536 12/24/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5883470

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KYU-IL HAN	12/09/2019
NAM-SEOK YOO	12/08/2019
JIN-HO PARK	12/07/2019
MI-NA KIM	12/20/2019
HYUNG-WON PARK	12/07/2019
JUNG-MO CHO	12/08/2019
YU-RI PARK	12/08/2019
HYOUNG-MIN KIM	12/08/2019
SEUNG-HO SON	12/08/2019

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:	16725785

CORRESPONDENCE DATA

Fax Number: (650)938-5200

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: 6509888500

Email: FWLGDisplayPatents@fenwick.com

CARLO MIGUEL C. OCAMPO **Correspondent Name:**

Address Line 1: FENWICK & WEST LLP Address Line 2: **801 CALIFORNIA STREET**

Address Line 4: MOUNTAIN VIEW, CALIFORNIA 94041

ATTORNEY DOCKET NUMBER: 29273-45174/US CARLO MIGUEL C. OCAMPO, REG. NO. 65,328 NAME OF SUBMITTER:

REEL: 051416 FRAME: 0180 505836536

PAIENI

SIGNATURE:	/Carlo Miguel C. Ocampo/			
DATE SIGNED:	12/24/2019			
Total Attachments: 9				
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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 Device and Method for Manufacturing the Same		
DECLARATION As the below named	and un	dersigned inventor, I hereby declare that:	
This declaration is directed to:	\boxtimes	The attached application, or	
is directed to.		United States application or PCT international application numberfiled on	
		ation 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 app

Thereby 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, Yeoni-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;

Fenwick & West 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;

Thereby coverant 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 fawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or destrable 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 patient 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): Kyu-II HAN Signature: NAME OF INVENTOR (Full Legal Name): Nam-Scok YOO Signature. NAME OF INVENTOR (Full Legal Name): Jin-Ho PARK Signature: NAME OF INVENTOR (Full Legal Name): Mi-Na KIM Mr Ma Kim Signature: NAME OF INVENTOR (Full Legal Name): Hyung-Won PARK Signature: NAME OF INVENTOR (Full Legal Name): Jung-Mo CHO Signature: NAME OF INVENTOR (Full Legal Name): Vu-RI PARK Signature:

Femnick & West LLP

Attorney Docket No. 29273-45174/US Assignee Ref. No. F19-0240US001; OPP-EZ-2019-0023-US-00

NAME OF INVENTOR (Full Legal Name): Hyoung-Min KIM			Page 3/3
Signature: Hyoung Min KIM	Date:	2519-12-8	
NAME OF INVENTOR (Full Legal Name): Seung-Ho SON			
Signature: Seure ho Son	Date:	3019.12.8	

Fenwick & West LLP

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	Disp	lay Device and Method for Manufacturing the Same
DECLARATION As the below named	and un	dersigned inventor, I hereby declare that:
This declaration is directed to:	\boxtimes	The attached application, or
is affected to.		United States application or PCT international application number filed on
		ation was made or authorized to be made by me.

Thereby 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.

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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;

Fenwick & West 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): Kyu-II HAN Kyu II, Han. Dute: Dec. 9th. 2019 Signature: NAME OF INVENTOR (Full Legal Name): Nam-Seok YOO Signature: NAME OF INVENTOR (Full Legal Name): Jin-Ho PARK Jim Ho Park Date: Dec. 7th 2018 Signature: NAME OF INVENTOR (Full Legal Name): Mi-Na KIM Signature: NAME OF INVENTOR (Full Legal Name): Hyung-Won PARK Signature: Hywng Won Powle Date: Dec. 7th. 2017

NAME OF INVENTOR (Full Legal Name): Jung-Mo CHO Signature: NAME OF INVENTOR (Full Legal Name): Yu-Ri PARK Signature:

Fenwick & West LLP

Attorney Docket No. 29273-45174/US Assignee Ref. No. F19-0240US001; OPP-EZ-2019-0023-US-00

NAME OF INVENTOR (Full Legal Name): Hyoung-Min KIM			Page 3/3
Signature: Hyoung Min KIM	Date:	2519-12-8	
NAME OF INVENTOR (Full Legal Name): Seung-Ho SON			
Signature: Seure ho Son	Date:	3019.12.8	

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Title of Invention	Displ	ay Device and Method for Manufacturing the Same
DECLARATION As the below named	and unc	dersigned inventor, I hereby declare that:
This declaration is directed to:	\boxtimes	The attached application, or
is directed to.		United States application or PCT international application number filed on
The above-identified	applica	tion was made or authorized to be made by me.
I believe that I am the	origina	I inventor or an original joint inventor of a claimed invention in the application.

Thereby 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.

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Femwick & West LLP

Thereby 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:

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Fenwick & West LLP

Attorney Docket No. 29273-45174/US Assignee Ref. No. F19-0240US001; OPP-EZ-2019-0023-US-00 Page 3/3

NAME OF INVENTOR (Full Legal Name): Hyoung-Min KIM		
Signature: Hyorang Min KIM	Date:	2819-12.8
NAME OF INVENTOR (Full Legal Name): Seung-Ho SON	************	
Signature: Seurs ho son	Date:	3,019.12.8

Fenwick & West LLP

PATENT REEL: 051416 FRAME: 0190

RECORDED: 12/24/2019