505801609 12/04/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5848438

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KYUNG-JIN YOON	11/25/2019
YU-JIN BAE	11/26/2019
BO-MIN SEO	11/25/2019
JEONG-EUN BAEK	11/25/2019
JOONG-HWAN YANG	11/25/2019
CHUN-KI KIM	11/25/2019
JUNG-HYUN YOON	11/26/2019
HYUNG-WON CHO	11/26/2019
KYU-SOON SHIN	11/26/2019
JEONG-A SEO	11/29/2019
HYUNG-JIN LEE	11/29/2019
YOUNG-SAM JIN	11/26/2019
DONG-HYUN LEE	11/26/2019

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
Name:	DONGJIN SEMICHEM CO., LTD.
Name: Street Address:	DONGJIN SEMICHEM CO., LTD. 644, BAEKBEOM-RO, SEO-GU
	,
Street Address:	644, BAEKBEOM-RO, SEO-GU

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16702269	

CORRESPONDENCE DATA

PATENT REEL: 051168 FRAME: 0020

505801609

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

Correspondent Name: JAE YEON BAEK

Address Line 1:FENWICK & WEST LLPAddress Line 2:801 CALIFORNIA STREET

Address Line 4: MOUNTAIN VIEW, CALIFORNIA 94041

ATTORNEY DOCKET NUMBER:	29269-45042/US
NAME OF SUBMITTER:	JAE YEON BAEK, REG. NO. 78258
SIGNATURE:	/Jae Yeon Baek/
DATE SIGNED:	12/04/2019

Total Attachments: 6

source=45042 US Combined Declaration and Assignment (Fully Executed)#page1.tif source=45042 US Combined Declaration and Assignment (Fully Executed)#page2.tif source=45042 US Combined Declaration and Assignment (Fully Executed)#page3.tif source=45042 US Combined Declaration and Assignment (Fully Executed)#page4.tif source=45042 US Combined Declaration and Assignment (Fully Executed)#page5.tif source=45042 US Combined Declaration and Assignment (Fully Executed)#page6.tif

PATENT REEL: 051168 FRAME: 0021

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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	1	Novel Compound, and Organic Light Emitting Device and Organic Light Emitting Display Device Including the Same	
DECLARATION As the below named	and unde	rsigned inventor, I hereby declare that:	
This declaration is directed to: The attached application, or United States application or PCT international application of the property of		United States application or PCT international application number	

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, <u>LG Display Co., Ltd.</u>, a corporation of the Republic of Korea, having a place of business at 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea, and <u>DONGJIN SEMICHEM CO., LTD.</u>, a corporation of the Republic of Korea, having a place of business at <u>644</u>, <u>Baekbeom-ro, Seo-gu, Incheon, 22824</u>, <u>Republic of Korea</u>, (hereinafter referred to as "ASSIGNEES") desire 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 ASSIGNEES, and their 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 ASSIGNEES, and their lawful successors and assigns, the right to file patent applications in foreign countries on said invention in their own names and the right to claim priority to the

Attorney Docket No. 29269-45042/US Assignee Ref. No. F19-0631US001

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above-identified United States patent application under the terms of the International Convention and any other relevant treaties:

I bereby 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 ASSIGNEES as the assignees of my entire right, title, and interest in and to the same, for the sole use and benefit of the ASSIGNEES, and their 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 ASSIGNEES, and their 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 ASSIGNEES, and their lawful successors or assigns, execute all divisional, continuation, continuation-inpart, and reissue applications, make all rightful oaths and generally do everything possible to aid the ASSIGNEES, and their 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 ASSIGNEES, and their lawful successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hands.

NAME OF INVENTOR (Full Legal Name); Kyung-Jin Yoon	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Yu-Jin Bae	
Signature: Vu-Str Vxx	Date: 11/0.6/2019
NAME OF INVENTOR (Full Legal Name): Bo-Min Seo	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Jeong-Eun Back	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Joong-Hwan Yang	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Chun-Ki Kim	
Signature:	Date:

Fenwick & West LLP



Attorney Docket No. 29269-45042/US Assignee Ref. No. F19-0631US001 Page **3** / **3**

NAME OF INVENTOR (Full Legal Name): Jung-Hyun Yoon	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Hyung-Won Cho	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Kyu-Soon Shin	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Jeong-A Seo	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Hyung-Jin Lee	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Young-Sam Jin	
Signature:	Date:
NAME OF INVENTOR (Full Legal Name): Dong-Hyun Lee	
Signature:	Date:

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This declaration is directed to: The attached application, or United States application or PCT international application of the property of		United States application or PCT international application number	

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.

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

WHEREAS, <u>LG Display Co., Ltd.</u>, a corporation of the Republic of Korea, having a place of business at 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea, and <u>DONGJIN SEMICHEM CO., LTD.</u>, a corporation of the Republic of Korea, having a place of business at <u>644</u>, <u>Baekbeom-ro, Seo-gu, Incheon, 22824</u>, <u>Republic of Korea</u>, (hereinafter referred to as "ASSIGNEES") desire 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 ASSIGNEES, and their 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 ASSIGNEES, and their lawful successors and assigns, the right to file patent applications in foreign countries on said invention in their own names 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;

I bereby 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 ASSIGNEES as the assignees of my entire right, title, and interest in and to the same, for the sole use and benefit of the ASSIGNEES, and their 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 ASSIGNEES, and their 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 ASSIGNEES, and their 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 ASSIGNEES, and their 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 ASSIGNEES, and their lawful successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my bands.

NAME OF IN	IVENTOR (Full Legal Name): Kyung-Jin Yoon	
Signature:	Kyung-Jin Yoon	Date:
NAME OF IN	IVENTOR (Full Legal Name): Yu-Jin Bae	
Signature:		Date:
NAME OF IN	VENTOR (Full Legal Name): Bo-Min Seo	
Signature:	80-Min Sec	Date: 100 , 466, 2019
NAME OF IN	VENTOR (Full Legal Name): Jeong-Eun Baek	
Signature:	Jeong-Eun Baek	Date: Nov. 25th 2019
NAME OF IN	VENTOR (Full Legal Name): Joong-Hwan Yang	
Signature:	Doong-Hwan Yang-	Date: NOV. 25+h 2016
NAME OF IN	VENTOR (Full Legal Name): Chun-Ki Kim	
Signature:	Chunki Kim	Date: 100 25th 20



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NAME OF INVENTOR (Full Legal Name): Jung-Hyun Yoon Junghfun Yvon Signature: NAME OF INVENTOR (Fall Legal Name): Hyung-Won Cho Signature: (yusoon Shih Signature: NAME OF INVENTOR (Full Legal Name): Jeong-A Seo Jeong-A Seo Signature: NAME OF INVENTOR (Full Legal Name): Hyung-Jin Lee Huns Jin Lee Signature: NAME OF INVENTOR (Full Legal Name): Young-Sam Jin Young-Sam Jin Signature: NAME OF INVENTOR (Full Legal Name): Dong-Hyun Lee Signature:

Fenwick & West LLP