PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BYUNG-CHUL KIM	03/03/2018
SUJEONG KIM	03/03/2018
KIYOUNG YEON	03/03/2018
SUN-KYU JOO	03/03/2018
CHUL HUH	03/03/2018
INOK KIM	03/03/2018
HYERAN MUN	03/03/2018
INSEOK SONG	03/03/2018
WOOYOUNG LEE	03/03/2018
YUI-KU LEE	05/06/2018

RECEIVING PARTY DATA

T		
Name:	SAMSUNG DISPLAY CO., LTD.	
Street Address:	1, SAMSUNG-RO, GIHEUNG-GU	
City:	YONGIN-SI, GYEONGGI-DO	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	17113	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16930586

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> **PATENT** REEL: 053523 FRAME: 0427

NAME OF SUBMITTER:	FRANCES M. O'BRIEN
SIGNATURE:	/Frances M. O'Brien/
DATE SIGNED:	08/18/2020
Total Attachments: 6	
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PATENT REEL: 053523 FRAME: 0428

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM¹

The undersigned acknowledges that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

patent.	ssignor is about to make or has made United States or International application for
WHEREAS	, as a below named inventor(s), I/(we) hereby declare that:
Section I. I	Declaration
This declara following is	tion is directed to the attached U.S. non-provisional patent application, unless the marked:
	U.S. non-provisional patent application number, filed on, or
	PCT international patent application number, filed on,
The above-i	dentified application was made or authorized to be made by me (us).
	ve that I am (we are) the original inventor (original joint inventors) of a claimed the above-identified application.
(we) hereb	y acknowledge that any willful false statement made in this declaration is punishable S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
inder 18 U.	
I hereby stat	e that I have reviewed and understand the contents of the above identified including the claims.
I hereby stat application, I acknowled	
I hereby stat application, I acknowled patentability	ge that I am aware of the duty to disclose information which is material to

ASSIGNMENT FORM

집병철/12415647/제로연구템/119073205/20180103152505

<u>Power of Attorney:</u> I/we hereby appoint as my attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office practitioners associated with Customer Number 27849.

Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(s) and assign(s) to

Samsung Display Co., Ltd.

having an address at 1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do 17113, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

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SDC Ref No.	LO-201704-087-1-US0	Attorney Ref No.	309/1318_00

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

강병월/12415647/재료연구팀/119073205/20180103152505

SAMSUNG DISPLAY CO., LTD.

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of LEE & MORSE, PC the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Section III. Inventor(s)/Assignor(s) Signature(s)

Family Name	First Given Name	Second Given Name
KIM	Byung-chul	
2 据 24	DATE	2018.3.3
	KIM	

LEGAL NAI		Family Name	First Given N	ame	Second Given Name
INVENTOR/AS	SSIGNOR	KIM	Sujeong		
SIG	NATURE 🔀	1 4 1		OATE >	018,3.3

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

김병철/12415647/재료연구팀/119073205/20180103152505

LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name	
INVENTOR/ASSIGNOR	YEON	Kiyoung		
SIGNATURE	런기 링	DATE	`18.3.3	

LEGAL NAME OF FOURTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	J00	Sun-kyu	
SIGNATURE	Jos Sun Kyn	DATE	18.03.03

LEGAL NAM	EOF	Family Name	First Given Na	me Second Given Name
FIFTH INVENTOR/ASS	IGNOR	HUH	Chul	
SIGN	ATURE	司智	D	ATE <u>//ず、う、う</u>
SDC Ref No.	LO-20170	4-087-1-US0	Attorney Ref No.	309/1318 00

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

실병철/1**2415647/제**료연구팀/119073205/20180103152505

LEGAL NAME OF SIXTH	Family Name	First Given Name	Second Given Name	
INVENTOR/ASSIGNOR	KIM	Inok		
	2			
SIGNATURE _	76 02 5	DATE	18.3.3	

LEGAL NAME OF SEVENTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	MUN	Hyeran	
SIGNATURE _	트레간	DATE -	IP.3.3

LEGAL NAME OF EIGHTH INVENTOR/ASSIGNOR	Family Name First Given Name SONG Inseok		Second Given Name	
SIGNATURE	るとは	DATE	18,33	

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SDC Ref No.	LO-201704-087-1-US0	Attorney Ref No.	309/1318_00	

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

김병월/12415647/재료연구당/1190/3205/20180103152505

LEGAL NAME OF NINTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	LEE	Wooyoung	
SIGNATURE _	可可	DATE /	(8.3.3

LEGAL NAME OF TENTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	LEE	Yui-ku	
SIGNATURE _	LEE Yai-ku	DATE	2018.5-6

SDC Ref No.	LO-201704-087-1-US0	Attorney Ref No.	309/1318_00	

COMBINED DECLARATION (37 CFR L63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

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RECORDED: 08/18/2020

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PATENT REEL: 053523 FRAME: 0434