PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3009015

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DONG-YONG SHIN	08/21/2014
JIN-SUNG KIM	09/01/2014
JOO-HYUK YUM	09/01/2014
HYUK-JAE LEE	09/01/2014

RECEIVING PARTY DATA

Name:	SAMSUNG DISPLAY CO., LTD.
Street Address:	95, SAMSUNG 2 RO, GIHEUNG-GU,
City:	YONGIN-CITY, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Name:	SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION
Name: Street Address:	SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION 1, GWANAK-RO, GWANAK-GU

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14477174	

CORRESPONDENCE DATA

Fax Number: (703)207-0003

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: 703-207-0008

Email: eoa@lee-iplaw.com

Correspondent Name: LEE & MORSE, P.C.

Address Line 1: 3141 FAIRVIEW PARK DRIVE

Address Line 2: SUITE 500

Address Line 4: FALLS CHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER:	304/1112
NAME OF SUBMITTER:	SAMUEL W. NTIROS
SIGNATURE:	/Samuel W. Ntiros/
DATE SIGNED:	09/04/2014
	PATENI

502962417 REEL: 033669 FRAME: 0545

Total Attachments: 8 source=Combined_Decl_and_Assignment#page1.tif source=Combined_Decl_and_Assignment#page2.tif source=Combined_Decl_and_Assignment#page3.tif source=Combined_Decl_and_Assignment#page4.tif source=Combined_Decl_and_Assignment#page5.tif source=Combined_Decl_and_Assignment#page6.tif source=Combined_Decl_and_Assignment#page7.tif source=Combined_Decl_and_Assignment#page8.tif

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM $^{\rm I}$

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:

Title: DISPLAY DEVICE AND DRIVING METHOD THEREOF					
for which A	ssignor is about to make or has made United States or International application				
for patent.					
WHEREAS	s, as a below named inventor(s). I/(we) hereby declare that:				
Section I.	Declaration				
This declarate following is	ation 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).				
	we that I am (we are) the original inventor (original joint inventors) of a claimed the above-identified application.				
	by acknowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or				
I hereby star	te that I have reviewed and understand the contents of the above identified				
application,	including the claims.				
1 This form re	equires the use of an Application Data Sheet.				
SDC Ref No	. 법무법인 세종 Attorney Ref No. 304/1112 (LO-201211-231-9-US0)				
COMBIN	ED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND				

ASSIGNMENT FORM
Page 1 of 4

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

<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.

a corporation organized and existing under the laws of the Republic of Korea, having its registered office at address 95. Samsung 2 Ro, Giheung-Gu, Yongin-City, Gyeonggi-do, Republic of Korea; and

Seoul National University R&DB Foundation

a corporation organized and existing under the laws of the Republic of Korea, having its registered office at address 1. Gwanak-ro. Gwanak-gu. Seoul. Republic of Korea

collectively "Assignees"), 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;

SDC Ref No.	법무법인 세종	Attorney Ref No.	304/1112
	(LO-201211-231-9-US0)		

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 2 of 4

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SAMSUNG	DISPLA.	YCO	

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;

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)

LEGAL NAME OF FIRST	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	SHIN	Dong-Yong	
SIGNATURE _	Duny-Yong Shi	DATE	21.8.2014

SDC Ref No.	법무법인 세종	Attorney Ref No.	304/1112
	(LO-201211-231-9-US0)	APPER TOTAL	

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 3 of 4

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_SAMSUNG DISPLAY CO., I	_TD,	A 1,2 (A)	
LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	KIM	Jin-Sung	
SIGNATURE _		DATE — -	
LEGAL NAME OF	Family Name	First Given Name	Second Given
THIRD INVENTOR/ASSIGNOR	YÜM	Joo-Hyuk	Name
SIGNATURE _		DATÉ	
LEGAL NAME OF FOURTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	LEE	Hyuk-Jae	
SIGNATURE _		DATE 	
SIGNATURE _		DATE	

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 4 of 4

법무법인 세종 (LO-201211-231-9-US0) Attorney Ref No.

SDC Ref No.

322831408596644

PATENT REEL: 033669 FRAME: 0550

304/1112

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Title:	le: DISPLAY DEVICE AND DRIVING METHOD THEREOF					
for whi	ich Assi	gnor is about to make or has i	made United States or Inter	national application		
for pate	ent.					
WHER	EAS. as	a below named inventor(s).	I/(we) hereby declare that:			
Section	ı l. Dec	laration				
	claratio ng is ma	n is directed to the attached Uarked:	J.S. non-provisional patent	application, unless the		
		U.S. non-provisional patent a		, filed		
		PCT international patent appl	ication number	, filed on		
I (we) to the last th	pelieve to the	tified application was made of hat I am (we are) the original cabove-identified application eknowledge that any willful for er 18 U.S.C. 1001 by fine or that hat I have reviewed and under luding the claims.	inventor (original joint inv alse statement made in this imprisonment of not more t	entors) of a claimed declaration is han five (5) years, or		
This f	orm requi	res the use of an Application Data 9	Sheet.			
SDC R	ef No.	법무법인 세종 (LO-201211-231-9-US0)	Attorney Ref No.	304/1112		
COM	IBINED	DECLARATION (37 CFR 1.62		APPLICATION AND		

Page 1 of 4

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Seoul National University R&DB Foundation

a corporation organized and existing under the laws of the Republic of Korea, having its registered office at address 1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea

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SDC Ref No.	법무법인 세종	Attorney Ref No.	304/1112
	(LO-201211-231-9-US0)	w/m	

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 2 of 4

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;

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.

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

LEGAL NAME FIRST	OF Family Nar	ne First Given Name	Second Given Name
INVENTOR/ASSIC	SNOR SHIN	Dong-Yong	
SIGNATURE		DATE	
······································			
SDC Ref No.	법무법인 세종 LO-201211-231-9-US0)	Attorney Ref No.	304/1112

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 3 of 4

LEGAL NAME OF

SECOND			Name
INVENTOR/ASSIGNOR	KIM	Jin-Sung	
SIGNATURE	Jin-Sung Kiun	DATE of	September1,2
LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	YUM	Joo-Hyuk	
SIGNATURE	Joo-Hyuk Yum.	DATE	èptember 1,2014
SIGNATURE LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR	Joo-Hyuk Yuw . Family Name	DATE Sirst Given Name	Second Given Name

Family Name

First Given Name

Second Given

SDC Ref No.	법무법인 세종	Attorney Ref No.	304/1112
40000-0-0000	(LO-201211-231-9-US0)	-	

SIGNATURE HYUK-JAE LEE

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 4 of 4

PATENT REEL: 033669 FRAME: 0554

RECORDED: 09/04/2014