PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sung Hwan WON	12/12/2012
Young Joon CHO	12/12/2012
Kyung Tae CHAE	12/12/2012
Nak Cho CHOI	12/12/2012

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13721773

CORRESPONDENCE DATA

Fax Number: 8602860115

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 860-286-2929

Email: mfetzner@cantorcolburn.com
Correspondent Name: CANTOR COLBURN LLP

Address Line 1: 20 Church Street Address Line 2: 22nd Floor

Address Line 4: Hartford, CONNECTICUT 06103

ATTORNEY DOCKET NUMBER:	PNK0979US
NAME OF SUBMITTER:	Amy Bizon-Copp
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT

REEL: 029510 FRAME: 0291

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

PATENT REEL: 029510 FRAME: 0292

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:

TITLE: LIQUID CRYSTAL DISPLAY AND MANUFACTURING METHOD THEREOF

for which Assignor is about to make or has made United States or International application for patent.

WHEREAS, as a below named inventor(s), I/(we) hereby declare that:

Section I. Declaration

This declaration is directed to:

	The attached U.S. non-provisional patent application, or	
	U.S. non-provisional patent application number, or	, filed on
	PCT international patent application number	, filed on
The above-ide	entified application was made or authorized to be made by me (us	s).
	that I am (we are) the original inventor (original joint inventors) on tified application.	f a claimed invention in
	acknowledge that any willful false statement made in this do C. 1001 by fine or imprisonment of not more than five (5) years, o	
1 This form req	uires the use of an Application Data Sheet.	

SDC Ref No. LA-201201-501-1-US0

Attorney Ref No. PNK0979US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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PATENT**
REEL: 029510 FRAME: 0293

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

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

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 95, Samsung 2 Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do, Korea (hereinafter designated as the Assignee(s)), 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(s), and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee(s) 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(s) 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. LA-201201-501-1-US0

Attorney Ref No. PNK0979US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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PA·TENT REEL: 029510 FRAME: 0294

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(s) 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(s), 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(s).

The undersigned hereby grant(s) the law firm of CANTOR COLBURN LLP 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	WHILE THE PROPERTY PR	Full Name
INVENTOR/ASSIGNOR		WON, Sung Hwan
SIGNATURE	J.	DATE <u>December 12, 2012</u>

SDC Ref No. LA-201201-501-1-US0

Attorney Ref No. PNK0979US

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

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PATENT REEL: 029510 FRAME: 0295

LEGAL NAME OF SECOND		Full Name
INVENTOR/ASSIGNOR	сно), Young Joon
SIGNATURE		DATE
LEGAL NAME OF		Full Name
THIRD INVENTOR/ASSIGNOR	CHA	AE, Kyung Tae
SIGNATURE	CHAE, Kyung Tae	DATE December 12, 2012
LEGAL NAME OF		Full Name
	Ally, Carried Market Control of the	
FOURTH INVENTOR/ASSIGNOR	CH	IOI, Nak Cho

SDC Ref No. <u>1.A-201201-501-1-US0</u>

Attorney Ref No. PNK0979US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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PATENT REEL: 029510 FRAME: 0296

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

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

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for which Assignor is about to make or has made United States or International application for patent.

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Section I. Declaration

This declaration is directed to:

	The attached 0.5. horr-provisional patent application, of	
	U.S. non-provisional patent application number, or	, filed on
	PCT international patent application number	, filed on
The above-ide	entified application was made or authorized to be made by me (u	ıs).
, ,	that I am (we are) the original inventor (original joint inventors) entified application.	of a claimed invention in
I (we) 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.		
1 This form rec	quires the use of an Application Data Sheet.	

SDC Ref No. LA-201201-501-1-US0

Attorney Ref No. PNK0979US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 1 of 4

PATENT REEL: 029510 FRAME: 0297 I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

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

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 **95**, Samsung **2** Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do, Korea (hereinafter designated as the Assignee(s)), 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(s), and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee(s) 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(s) 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;

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

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PATENT REEL: 029510 FRAME: 0298 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(s) 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(s), 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(s).

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

LEGAL NAME OF	Full Name	
FIRST INVENTOR/ASSIGNOR	WON, Sung Hwan	
SIGNATURE	DATE	

SDC Ref No. LA-201201-501-1-US0

Attorney Ref No. PNK0979US

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

LEGAL NAME OF SECOND	Full Name
INVENTOR/ASSIGNOR	CHO, Young Joon
SIGNATURE	DATE December 12, 2012
LEGAL NAME OF	Full Name
THIRD INVENTOR/ASSIGNOR	CHAE, Kyung Tae
SIGNATURE	DATE
LEGAL NAME OF	Full Name
FOURTH INVENTOR/ASSIGNOR	CHOI, Nak Cho
SIGNATURE	DATE

SDC Ref No. <u>LA-201201-501-1-US0</u>

Attorney Ref No. PNK0979US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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RECORDED: 12/20/2012