## 504197991 01/26/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4244667

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
WEIMING LI	11/25/2016
MINGCAI ZHOU	11/25/2016
TAO HONG	11/25/2016
DONG KYUNG NAM	01/22/2017
HYOSEOK HWANG	01/25/2017
JINHO LEE	01/25/2017
ZAIRAN WANG	11/25/2016
ZHIHUA LIU	11/25/2016
HAITAO WANG	11/25/2016

#### **RECEIVING PARTY DATA**

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129 SAMSUNG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	15416240	

## **CORRESPONDENCE DATA**

**Fax Number:** (703)668-8200

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:** 703-668-8000

**Email:** dcmailroom@hdp.com

Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C.

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ATTORNEY DOCKET NUMBER:	9587SI-000319-US
NAME OF SUBMITTER:	JOHN A. CASTELLANO, REG. NO. 35,094

PATENT 504197991 REEL: 041094 FRAME: 0042

CIONATURE	(Internal Octobella est
SIGNATURE:	/John A. Castellano/
DATE SIGNED:	01/26/2017
Total Attachments: 18	
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PATENT REEL: 041094 FRAME: 0043

# COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM<sup>1</sup>

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: METHOD AND APPARATUS FOR CORRECTING IMAGE ERROR IN NAKED-EYE THREE-DIMENSIONAL (3D) DISPLAY 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:  $\boxtimes$ The attached U.S. non-provisional patent application, or U.S. non-provisional patent application number \_\_\_\_\_\_, filed PCT international patent application number , filed on The above-identified application was made or authorized to be made by me (us). I (we) believe that I am (we are) the original inventor (original joint inventors) of a claimed invention in the above-identified application. 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.

<sup>&</sup>lt;sup>1</sup> This form requires the use of an Application Data Sheet.

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 Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677, 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, reexamination, 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 Harness, Dickey & Pierce, P.L.C. 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	LI	Weiming	
SIGNATURE	Waiming Li	DATE —	2016. 11. 25

SEC Ref No. WC-201510-003-1-US0 Attorney Ref No. 9587SI-000319-US

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

LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	ZHOU	Mingcai	
SIGNATURE	Minglai Zhou	DATE	2016. 11. 25

LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	HONG	Тао	
	Tao Hong	DATE	2016. 11. 25
SIGNATURE		–	

LEGAL NAME OF FOURTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	NAM	Dong Kyung	
SIGNATURE		DATE	

SEC Ref No.	WC-201510-003-1-US0	Attorney Ref No.	9587SI-000319-US	

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	HWANG	Hyoseok	
SIGNATURE _		DATE	
LEGAL NAME OF SIXTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	LEE	Jinho	
SIGNATURE _		DATE	
LEGAL NAME OF SEVENTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	WANG	Zairan	
SIGNATURE _	Zairan Wang	DATE -	2016. 11. 25

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

Page 5 of 6

PATENT

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
EIGHTH INVENTOR/ASSIGNOR	LIU	Zhihua	
SIGNATURE	Zhihua Liu	DATE -	2016. 11. 25

LEGAL NAME OF NINTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	WANG	Haitao	
SIGNATURE	Hitar Many	DATE -	2016. 11. 25

## COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM<sup>1</sup>

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:	METHOD AND APPARATUS FOR CORRECTING IMAGE ERROR IN NAKED-EYE THREE-DIMENSIONAL (3D) DISPLAY
for whi	ich Assignor is about to make or has made United States or International application ent.
WHERE	EAS, as a below named inventor(s), I/(we) hereby declare that:
Section	ı I. Declaration
This de	claration is directed to:
	The attached U.S. non-provisional patent application, or
	U.S. non-provisional patent application number, filed on, or
	PCT international patent application number, filed on
The abo	ove-identified application was made or authorized to be made by me (us).
	relieve that I am (we are) the original inventor (original joint inventors) of a claimed on in the above-identified application.
	ereby acknowledge that any willful false statement made in this declaration is able under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or
<sup>1</sup> This fo	orm requires the use of an Application Data Sheet.
SEC Ref	No. WC-201510-003-1-US0 Attorney Ref No. 9587SI-000319-US

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

REEL: 041094 FRAME: 0050

SAMSUNG ELECTRONICS CO., LTD.

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 Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677, 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, reexamination, or extension thereof, and for litigation regarding, or for the purpose of

SEC Ref No.		Attorney Ref No.	9587SI-000319-US
	***************************************	•	

Page 2 of 6 PATENT

REEL: 041094 FRAME: 0051

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 Harness, Dickey & Pierce, P.L.C. 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	LI	Weiming	
L		J	
SIGNATURE _		DATE	

SEC Ref No.	WC-201510-003-1-US0	Attorney Ref No.	9587SI-000319-US
	***************************************		***************************************

LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	ZHOU	Mingcai	
SIGNATURE _		DATE	
LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	HONG	Tao	
SIGNATURE		DATE	
LEGAL NAME OF FOURTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	NAM	Dong Kyung	
SIGNATURE _		DATE	

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 4 of 6 PATENT

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	HWANG	Hyoseok	
3			i
SIGNATURE	Ujo	DATE	Tatan
		<del></del> .	Jan. 25 2017

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	LEE	Jinho	
		J.	<u> </u>
SIGNATURE _	La flo	DATE.	Jan. 25. 2019

LEGAL NAME OF SEVENTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	WANG	Zairan	
SIGNATURE		DATE	•••••

***************************************		***************************************	***************************************
SEC Ref No.	WC-201510-003-1-US0	Attorney Ref No.	9587SI-000319-US

LEGAL NAME OF EIGHTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	LIU	Zhihua	
			·····
		DATE	
SIGNATURE		<del></del>	

LEGAL NAME OF NINTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	WANG	Haitao	
SIGNATURE		DATE	

SEC Ref No.	WC-201510-003-1-US0	Attorney Ref No.	9587SI-000319-US

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WITEILE	the undersigned, hereauter referred to concentery as assignor, has attented.
Title:	METHOD AND APPARATUS FOR CORRECTING IMAGE ERROR IN NAKED-EYE THREE-DIMENSIONAL (3D) DISPLAY
for whic	h Assignor is about to make or has made United States or International application nt.
WHEREA	AS, as a below named inventor(s), I/(we) hereby declare that:
Section	I. Declaration
This dec	laration is directed to:
	The attached U.S. non-provisional patent application, or
[	U.S. non-provisional patent application number, filed on, or
[	PCT international patent application number, filed on
The abo	ve-identified application was made or authorized to be made by me (us).
	elieve that I am (we are) the original inventor (original joint inventors) of a claimed n in the above-identified application.
	ereby acknowledge that any willful false statement made in this declaration is ole under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or
<sup>1</sup> This for	m requires the use of an Application Data Sheet.
SEC Ref I	No. WC-201510-003-1-US0 Attorney Ref No. 9587SI-000319-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 1 of 6

**PATENT** REEL: 041094 FRAME: 0056 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.

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having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677, 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.

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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, reexamination, or extension thereof, and for litigation regarding, or for the purpose of

SEC Ref No. WC-201510-003-1-US0 9587SI-000319-US Attorney Ref No.

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 OF FIRST	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	Ц	Weiming	
SIGNATURE		DATE	

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
SECOND INVENTOR/ASSIGNOR	ZHOU	Mingcai	
SIGNATURE		DATE	
LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	HONG	Tao	
SIGNATURE		DATE	
LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FOURTH NVENTOR/ASSIGNOR	NAM	Dong Kyung	
SIGNATURE	Doykyy	DATE	Jan. 22, 2019

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 4 of 6 PATENT

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	HWANG	Hyoseok	
SIGNATURE		DATE	
LEGAL NAME OF	Family Name	First Given Name	Second Given Name
SIXTH			
INVENTOR/ASSIGNOR	LEE	Jinho	
SIGNATURE		DATE —	
LEGAL NAME OF	Eamily Name	First Given Name	Second Given Name
SEVENTH	Family Name		Second diven Name
INVENTOR/ASSIGNOR	WANG	Zairan	
SIGNATURE		DATE —	
SEC Ref No. WC-20	1510-003-1-US0	Attorney Ref No.	9587SI-000319-US

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

Page 5 of 6

PATENT

LEGAL NAME OF EIGHTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	เบ	Zhihua	
SIGNATURE		DATE -	

LEGAL NAME OF NINTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	WANG	Haitao	
SIGNATURE _		DATE	

SEC Ref No.	WC-201510-003-1-US0	Attorney Ref No.	9587SI-000319-US	

**RECORDED: 01/26/2017**