PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3290567

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DONG-GYUN KIM	03/12/2015
SUNG-WOOK HWANG	03/12/2015
DAE-KWON KANG	03/12/2015
JAE-SEOK YANG	03/12/2015
JI-YOUNG JUNG	03/19/2015

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO,
Internal Address:	YEONGTONG-GU, SUWON-SI
City:	GYEONGGI-DO 443-742
State/Country:	KOREA, REPUBLIC OF

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14674416	

CORRESPONDENCE DATA

Fax Number: (919)854-1401

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: 919-854-1400

twallace@myersbigel.com Email:

Correspondent Name: MYERS BIGEL SIBLEY & SAJOVEC

PO BOX 37428 Address Line 1:

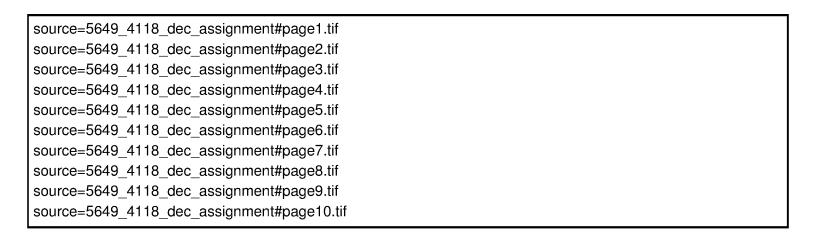
Address Line 4: RALEIGH, NORTH CAROLINA 27627

ATTORNEY DOCKET NUMBER:	5649-4118
NAME OF SUBMITTER:	TRACY WALLACE
SIGNATURE:	/tw/
DATE SIGNED:	03/31/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 10

PATENT REEL: 035300 FRAME: 0080

503243949



PATENT REEL: 035300 FRAME: 0081

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.

Title:		OUT DESIGN METHODS AND LA OUT DESIGN METHODS	YOUT DESIGN SYSTEMS	FOR PERFORMING TH
for wh	ich Ass	ignor is about to make or has n	nade United States or In	ternational application
for pat	ent.			
WHER	EAS, as	a below named inventor(s), 1/(we) hereby declare that	:
Section	n I. De	claration		
This de	clarati	on is directed to:		
	\boxtimes	The attached U.S. non-provis	ional patent application,	or
		U.S. non-provisional patent ap	oplication number	, filed
		PCT international patent appli	ication number	filed or
The abo	ove-ide	entified application was made c	or authorized to be made	e by me (us).
l (we) b inventi	elieve on in tl	that I am (we are) the original in a specification above-identified application	inventor (original joint ir	ventors) of a claimed
l (we) h punisha both.	ereby able un	acknowledge that any willful fa der 18 U.S.C. 1001 by fine or in	lse statement made in t nprisonment of not more	his declaration is e than five (5) years, or
¹ This fo	rm requ	ires the use of an Application Data Sh	neet.	
				

COMBINED DECLARATION (37 CFR 1,63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 1 of 5

3442701426119864 MININE MATERIAL PROPERTY OF THE PROPERTY OF TH

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 443-742. 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,

SEC Ref No.	IE-201404-117-1-US0	Attorney Ref No.	5649-4118	
			SIP140106US	
				-

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

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 Myers Bigel Sibley & Sajovec, P.A. 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	KIM	Dong-Gyun	
		DATE	7 16 0 17
SIGNATURE _	Kim Dong Gyun	_	2016.3.12

SEC Ref No.	IE-201404-117-1-US0	Attorney Ref No.	5649-4118
			SIP140106US

LEGAL NAME OF SECOND	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	HWANG	Sung-Wook	
			I
SIGNATURE	화 성국	DATE	15 3.12

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
THIRD INVENTOR/ASSIGNOR	KANG	Dae-Kwon	
			•
		DATE	
SIGNATURE	Male _	.	2015. 3.12

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FOURTH INVENTOR/ASSIGNOR	YANG	Jae-Seok	
			<u> </u>
SIGNATURE		DATE	15.3.2

SEC Ref No.	IE-201404-117-1-US0	Attorney Ref No.	5649-4118
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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

LEGAL NAME OF FIFTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	JUNG	Ji-Young	
		······································	
		DATE	
SIGNATURE	· .		

SEC Ref No. IE-201404-117-1-US0 Attorney Ref No. 5649-4118 **SIP140106US**

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 5 of 5

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:

	LAYO	UT DESIGN METHODS		
for whi	ich Assi	gnor is about to make or has m	nade United States or Inte	ernational application
for pat	ent.			
WHERE	EAS, as	a below named inventor(s), I/(we) hereby declare that:	
Section	ı I. Dec	laration		
This-de	eclaratio	on-is-directed-to:		
	\boxtimes	The attached U.S. non-provis	ional patent application,	or
		U.S. non-provisional patent ap		, file
		PCT international patent appli	ication number	, filed o
The ab	ove-ide	ntified application was made c	or authorized to be made	by me (us).
		that I am (we are) the original ne above-identified application		ventors) of a claimed
	-	acknowledge that any willful fa der 18 U.S.C. 1001 by fine or ir		
¹ This fo	orm requ	ires the use of an Application Data S	heet.	

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 1 of 5

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 443-742, 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,

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•			

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page **2** of **5**

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 Myers Bigel Sibley & Sajovec, P.A. 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	Family Name	First Given Name	Second Given Name
FIRST — INVENTOR/ASSIGNOR	KIM	Dong-Gyun	
			J
CIGNATURE		DATE	
SIGNATURE			

SEC Ref No.	IE-201404-117-1-US0	Attorney Ref No.	5649-4118 SIP140106US	
			311 14010003	

LEGAL NAME OF SECOND INVENTOR/ASSIGNOR SIGNATURE	Family Name HWANG	First Given Name Sung-Wook DATE	Second Given Name
LEGAL NAME OF	Family Name	First Given Name	Second Given Name
THIRD INVENTOR/ASSIGNOR	KANG	Dae-Kwon	
SIGNATURE		DATE —	<u> </u>
LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FOURTH INVENTOR/ASSIGNOR	YANG	Jae-Seok	
SIGNATURE		DATE	
SEC Ref No. IE-201	404-117-1-US0	Attorney Ref No.	5649-4118 SIP140106US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page **4** of **5**

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	JUNG	Ji-Young	
SIGNATURE _	- AR	DATE 	2015.3.19

SEC Ref No. IE-201404-117-1-US0 Attorney Ref No. 5649-4118 SIP140106US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM Page 5 of 5

PATENT REEL: 035300 FRAME: 0091