503805906 04/29/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYUN-JIN SHIN	04/18/2016
HONG-SUK KIM	04/18/2016
JUNG-HWAN KIM	04/18/2016
SANG-HOON LEE	04/18/2016
HUN-HYEONG LIM	04/18/2016
YONG-SEOK CHO	04/18/2016
YOUNG-DAE KIM	04/18/2016
HAN-VIT YANG	04/18/2016

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:	15142365

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	253/1101_00
NAME OF SUBMITTER:	EUGENE M. LEE
SIGNATURE:	/Eugene M. Lee/

DATE SIGNED:	04/29/2016	
This document serves as an Oath/Declaration (37 CFR 1.63).		
Total Attachments: 6		
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source=Assignment_2016_04_21#page2	2.tif	
source=Assignment_2016_04_21#page3	3.tif	
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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: ME	THOD OF MANUFACTURING A SEMICONDUCTOR DEVICE	
for which Aspatent.	ssignor is about to make or has made United States or International application	ıfor
WHEREAS, a	as a below named inventor(s), I/(we) hereby declare that:	
Section I. D	eclaration	
This declara	tion is directed to:	
\boxtimes	The attached U.S. non-provisional patent application, or	
	U.S. non-provisional patent application number, file	d on
	PCT international patent application number, filed o	ın
The above-io	dentified application was made or authorized to be made by me (us).	
100	re that I am (we are) the original inventor (original joint inventors) of a claimed the above-identified application.	
The Control of the Co	y 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, o	v r
	quires the use of an Application Data Sheet.	
SEC Ref No.	IE-201411-021-1-US0 Attorney Ref No. 253/1101_00	
COMBINED	DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FO	DRM

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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, re-examination, or extension

SEC Ref No.	IE-201411-021-1-US0	Attorney Ref No.	253/1101	_00
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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)

AL NAME OF	Family Name	First Given Name	Second Given Name
FIRST OR/ASSIGNOR	SHIN	Hyun-Jin	*
SIGNATURE	Shon Hain Jon	DATE	16/4/18
SIGNATURE _	Shon Hum Jon	DATE	16 /

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SEC Ref No.	<u> </u>	Attorney Ref No.	253/1101_	00

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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LEGAL NAME OF	Family Name	First Given Name	Second Given Name
SECOND NVENTOR/ASSIGNOR	KIM	Hong-Suk	
	*	**	
SIGNATURE	Kim Houg Suk	DATE	16/4/13_
LEGAL NAME OF	Family Name	First Given Name	Second Given Name
THIRD INVENTOR/ASSIGNOR	кім	Jung-Hwan	
	KIM Jung-Hwah	*	Second Given Name
LEGAL NAME OF FOURTH	Family Name	First Given Name	Second Given ivaling
INVENTOR/ASSIGNOR	LEE	Sang-Hoon	4:
	r.	DATE	
SIGNATURE	Samg hoom les	- DATE	161 04/18
		ğı.	

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH NVENTOR/ASSIGNOR	LIM	Hun-Hyeong	
			8
SIGNATURE _	LIM Hun-Hyeong	DATE	16/4/18
······································	** ***********************************		
**	33		T.
LEGAL NAME OF SIXTH	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	сно	Yong-Seok	
SIGNATURE _		DATE	16/4/18
		First Circa Name	Second Given Name
LEGAL NAME OF SEVENTH	Family Name	First Given Name	Jecond Given Name
INVENTOR/ASSIGNOR	KIM	Young-Dae	
<u></u>		-1	3
CUCNIATURE	A. Mars	DATE	11 600 016
SIGNATURE _	M. Morr	DATE	16/4116
SIGNATURE	16Mm	DATE	_664118
SIGNATURE	16 Am	DATE	
SIGNATURE	76 Mm]	DATE	_(6 / Y 118_

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SAMSUNG ELECTRONICS CO., LTD.

RECORDED: 04/29/2016

	First Given Name	Second Given Name
YANG	Han-Vit	
**************************************	li	4
	DATE	16/4/18
	YANG Han vit	*

SEC Ref No. IE-201411-021-1-US0 Attorney Ref No. 253/1101_00

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