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Form <b>PTO-1595</b> (Rev. 6-12) OMB No. 0651-0027 (exp. 04/30/2015)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
RECORDATION FOR	
PATENTS	ONLY
To the Director of the U.S. Patent and Trademark Office: Please	se record the attached documents or the new address(es) below.
1. Name of conveying party(ies):	2. Name and address of receiving party(les)
Woo-chul JEON (03/08/2013), Young-hwan PARK (03/08/2013), Ki-yeol PARK (03/08/2013), Jai-kwang SHIN (03/08/2013), Jae-joo OH	Name: Samsung Electronics Co., Ltd.
(03/08/2013), and Jong-bong HA (03/08/2013)  Additional name(s) of conveying party(ies) attached? Yes X No	Internal Address: Street Address:
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): in parentheses after inventor name  X Assignment Merger Change of Name	129, Samsung-ro, Yeongtong-gu
Security Agreement Joint Research Agreement	City: Suwon-Si, Gyeonggi-Do
Government Interest Assignment	State:
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip: 443-742
Other	Additional name(s) & address(es) Yes X No attached?
A. Patent Application No.(s) 13/790,319	ument serves as an Oath/Declaration (37 CFR 1.63).  B. Patent No.(s)
Additional numbers attached?	Yes X No
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: John A. Castellano HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Atty. Dkt.: 2557SI-001891/US Street Address: P.O. Box 8910	Authorized to be charged to deposit account     Enclosed     None required (government interest not affecting title)
City: Reston	8. Payment Information
State:         VA         Zip:         20195           Phone Number:         (703) 668-8000           Fax Number:         (703) 668-8200           Email Address:         dcmailroom@ndp.com	Deposit Account Number 08-0750 Authorized User Name John A. Castellano
9. Signature:	
The second secon	March 8, 2013
John A. Castellano - 35 094 Name of Person Signing	Date Total number of pages including cover sheet, attachments, and documents: 7
	eet) should be faxed to (571) 273-0140, or mailed to: of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**PATENT** 

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From: Harness Dickey 703-668-8200

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SAMSUNG ELECTRONICS CO., LTD.

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

	_	ed acknowledges that this docume	_	-
the inve	ention	and as the declaration (37 CFR 1.6	3) for a Utility or Des	ign Application.
WHERE	AS, the	undersigned, hereinafter referred	d to collectively as As	ssignor, has invented:
Title:		CONDUCTOR DEVICES AND METH	ODS OF MANUFACT	URING THE
for which		gnor is about to make or has made	e United States or Int	ernational application
WHERE	AS, as	a below named inventor(s), I/(we)	hereby declare that	:
Section	I. Dec	daration		
This dec	claratio	on is directed to:		
	$\boxtimes$	The attached U.S. non-provision	al patent application	, or
		U.S. non-provisional patent appllon, o		
		PCT international patent applicat	ion number	, filed on
The abo	ove-ide	entified application was made or a	uthorized to be mad	e by me (us).
		that I am (we are) the original invene ne above-identified application.	entor (original joint i	nventors) of a claimed
		acknowledge that any willful false der 18 U.S.C. 1001 by fine or impr		
i This fo	rm requ	lires the use of an Application Data Shee	<u>, , , , , , , , , , , , , , , , , , , </u>	
SEC Ref	No.	RE-201203-523-1-US0	Attorney Ref No.	2557SI-001891/US
COMBIN	VED DE	CLARATION (37 CFR 1.63) FOR UTILIT	Y PATENT APPLICATION	N AND ASSIGNMENT FORM

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

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

lacknowledge 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, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-

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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 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)

-chul	
DATE	March 8, 2913
	DATE

	ADDITION OF THE PROPERTY OF TH		
SEC Ref No.	RE-201203-523-1-US0	Attorney Ref No.	2557SI-001891/US

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SAMSUNG ELECTRONICS CO., LTD.

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
second Inventor/Assignor	PARK	Young-hwan	and the second s
	unananangan makamatan pagap fa jijima takturus muutda Phombia, ta a 1950-1945 (1969). Ta		And the second s
SIGNATURE	261-	DATE	March 8, 2013
		_	Afficial describes the confidence of the an electric and analysis and an electric and an elect

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
THIRD INVENTOR/ASSIGNOR	PARK	Ki-yeol	
SIGNATURE	在八	DATE	March 8, 2013

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FOURTH NVENTOR/ASSIGNOR	SHIN	Jai-kwang	
SIĞNATURE	Adri	DATE	March 8, 2013
SIGNATURE	<del>////</del>		

SEC Ref No. RE-201203-523-1-US0 Attorney Ref No. 2557SI-001891/US

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## SAMSUNG ELECTRONICS CO., LTD.

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIFTH INVENTOR/ASSIGNOR	ОН	Jae-joo	
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SIGNATURE	£.	DATE	March 8, 2013
3			

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
SIXTH INVENTOR/ASSIGNOR	НА	Jong-bong	

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SEC Ref No.	RE-201203-523-1-US0	Attorney Ref No.	2557SI-001891/US

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