U.S. PTO 12/656752 02/16/2010

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RECO	03-01-20	_	ET	
To the Hono Please record	1035900	(emarks: y thereof.	
1. Name of conveying party(ies):			s of receiving party(ies)	
Dong-Suk SHIN	Na	me: Samsun	g Electronics Co., Ltd.	
Additional name(s) of conveying party(ies) attached? YES NO	[116, Maetan-dong, Yeongtong-gu	
3. Nature of conveyance:	Cit	y: Suwon-si	State: Gyeonggi-do	
☐ Assignment ☐ Merger ☐ Security Agree	ement Co	untry: Repul	olic of Korea	
☐ Change of Name ☐ Other:				
Execution Date: February 9, 2010	A	dditional name(s) & address(es) attached? YES NO	
 Application number(s) or patent number(s): If this document is being filed together with a 	new application, th	ne execution d	ate of the application is: 02/09/2010	
A. Patent Application No(s).	B. Pa	tent No.(s).	·	
Additional nur	hbers attached? [∃ YES ⊠	ИО	
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total No. of applications/patents involved: One (1)		
Name: HARNESS, DICKEY & PIERCE, P.L.C.	1	7. Total fee (37 C.F.R. § 3.41): \$40.00 ⊠ Enclosed		
Street Address: P.O. BOX 8910	1 =		e charged to deposit account,	
City: RESTON State: VA ZIP: 20195	1	no fee attach	•	
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			ch triplicate copy of this page	
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9. Statement and signature.	NOT USE THIS	SPACE /		
To the best of my knowledge and belief, the facopy of the original document. John A. Castellano, Reg. No. 35,094	oregoing informati	ion is true and	correct and any attached copy is a true February 16, 2010	
Name of Person Signing/Reg. No.	Signatu	ire	Date	
Total number of pages incl	uding cover sheet,	attachments, a	and document: 3	

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PATENT

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Atty. Docket No.: 9862-000416/U

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Atty. Dkt. No. 9862-000416/US

ASSIGNMENT

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

SEMICONDUCTOR DEVICES AND METHODS OF MANUFACTURING THE SAME

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

(a)	×	executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
(b)		executed on,; or
(c)		filed on, and assigned Serial No or PCT International Application No; and

WHEREAS, Samsung Electronics Co., Ltd., 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonogi-do, Republic of Korea, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor agrees to, 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 invention as described in the aforesaid application and all United States Letters Patent which may be granted therefore, and all divisions, continuations, reissues, reexaminations and extensions thereof, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent 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 aue for, and recover for past Infringements of, or liabilities for, any of the rights relating to any of the applications or patents resulting therefrom;

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 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 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 Inventor's Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this 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.

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ASSIGNMENT

Dong-Suk SHIN

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