#### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Hoon-joo Na	08/10/2009
Yu-gyun Shin	08/10/2009
Hong-bae Park	08/10/2009
Hag-ju Cho	08/10/2009
Sug-hun Hong	08/10/2009
Sang-jin Hyun	08/10/2009
Hyung-seok Hong	08/10/2009

#### **RECEIVING PARTY DATA**

Name:	Samsung Electronics Co., Ltd.
Street Address:	416 Maetan-dong, Yeongtong-gu
Internal Address:	Suwon-si
City:	Gyeonggi-do
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF

#### PROPERTY NUMBERS Total: 1

	Property Type	Number
Applicati	on Number:	12540090

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: 5649-2614

**PATENT** 

REEL: 023092 FRAME: 0217

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NAME OF SUBMITTER:	Kirsten S. Carlos
Total Attachments: 8 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif	

PATENT REEL: 023092 FRAME: 0218

#### ASSIGNMENT

THIS ASSIGNMENT, made by us, Hoon-joo Na, a citizen of the Republic of Korea, residing at 207-304, Anhwa Maeul Unam Firstvill 2-danji Apt., Byeongjeom-dong, Hwaseongsi, Gyeonggi-do, Republic of Korea; Yu-gyun Shin, a citizen of the Republic of Korea, residing at 130-1401, Parktown Apt., 55, Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; Hong-bae Park, a citizen of the Republic of Korea, residing at 522-1006, Jamsil Jugong Apt., Jamsil 3-dong, Songpa-gu, Seoul, Republic of Korea; Hag-ju Cho, a citizen of the Republic of Korea, residing at 922-101, Prun Maeul Doosan Weve Apt., Banwol-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; Sug-hun Hong, a citizen of the Republic of Korea, residing at 104-1903, Hyundai Apt., Seocheon-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea, Sang-jin Hyun, a citizen of the Republic of Korea, residing at 1001-1402, BangJuk Maeul Yeongtong Tranchae Apt., Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; and Hyung-seok Hong, a citizen of the Republic of Korea, residing at 103-1403, Woosung 4-cha Apt., Jamsilbon-dong, Songpa-gu, Seoul, Republic of Korea;

WITNESSETH: That,

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WHEREAS, we are the joint inventors of certain new and useful improvements in METHODS OF FORMING SEMICONDUCTOR DEVICES HAVING GATES WITH DIFFERENT WORK FUNCTIONS USING NITRIDATION, for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. We hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. 19540, 1910, filed 5110, 1910) the filing date and application number of said application when known or to file this Assignment concurrently with the application, and

WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation having a principal place of business at 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its

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successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

	IN WITNESS	WHEREOF, we	have hereunto set our hands and seals on th	is <u>10th</u>
day of	August	, 200 <u>9</u>		
			(m)	
		_	Hoon-joo Na	

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IN WITNESS WHEREOF, we	e have hereunto set our hands and seals on this <u>/o /</u>	ch
day of August, 200f.		
	12 4/2	
	Yu-gyun Shin	

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IN WITNESS WHEREOF, we have hereunto set our hands and seals on this	10-th
day of August, 200 9.	

Hong-bae Park

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IN WITNESS WHEREOF, we have hereunto set our hands and seals on this	10th
day of August, 2009.	
( ) - ( ) -	
Hag-ju Cho	

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IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _60 +	L
day of August, 200 P.	
G(129)	
Sug-hun Hong	

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IN WITNESS WHEREOF, we have hereunto set our hands and seals on this
day of <u>August</u> , 200 9.
Songha Hum
Sang-jin Hyun

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in witness whereof, we day of Argust, 200 9.	e have hereunto set our hands and	seals on this 10th
-	Hyung-seok Hong	

8 of 8

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RECORDED: 08/12/2009

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