### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Hyun-Sil Oh	01/26/2010
Hitae Park	01/27/2010
Soonwook Hwang	02/02/2010

#### **RECEIVING PARTY DATA**

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

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12701037

#### **CORRESPONDENCE DATA**

Fax Number: (919)854-1401

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 919-854-1400

Email: criggs@myersbigel.com

Correspondent Name: MYERS BIGEL SIBLEY & SAJOVEC

Address Line 1: PO BOX 37428

Address Line 4: RALEIGH, NORTH CAROLINA 27627

ATTORNEY DOCKET NUMBER:	5649-2875
NAME OF SUBMITTER:	Candi L. Riggs

Total Attachments: 4

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> PATENT REEL: 023906 FRAME: 0032

#### ASSIGNMENT

THIS ASSIGNMENT, made by us, Hyun-Sil Oh, citizen of the Republic of Korea, residing at #909, Sharmang Officetel, 1165, Pungdeokcheon-dong, Yongin-si, Gyeonggi-do, Republic of Korea; Kitae Park, citizen of the Republic of Korea, residing at 410-304, Saetbyeol-maeul Sambu Apt., Bundang-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, Soonwook Hwang, citizen of the Republic of Korea, residing at #204, 345-2, Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in METHODS FOR PROGRAMMING NONVOLATILE MEMORY DEVICES 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. 12/701037, filed 2/5/10) 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 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.

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## ASSIGNMENT - CONTINUED

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.

assignee, its succes	ssors, assigns and	omer legal repre	SCIItatives.		
in witne	SS WHEREOF, I	have hereunto se	et my hand and seal on	this 26	_ day
of JAN	, 201				
	Hyun-	John John John John John John John John	(SEAL)		
Witnessed by:					
Date:					

# ASSIGNMENT - CONTINUED

	IN WITNESS	S WHEREC	OF, I have hereunt	to set my han	d and seal on this	ــرد	day
of	Jan	_, 201 <u>ø</u>					
		K	itae Park	/ (S	SEAL)		
Witnes	ssed by:						
Data							

## ASSIGNMENT – CONTINUED

	IN WITNESS V	WHEREOF, I have h	ereunto set my h	and and seal on this $\_$	 _ day
of	Feb,	201 <u>o</u> .			
		Soonwook H	wang	(SEAL)	
Witne	essed by:				
Date:		<u> </u>			

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