### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Sunil Shim	10/19/2010
Sunghoi Hur	10/14/2010
Hansoo Kim	10/14/2010
Jaehoon Jang	10/19/2010
Hoosung Cho	10/19/2010

#### **RECEIVING PARTY DATA**

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

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12943126

### CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	5649-2971
NAME OF SUBMITTER:	Audra Wooten

Total Attachments: 6

PATENT REEL: 025343 FRAME: 0592 l \$40.00 12943

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PATENT REEL: 025343 FRAME: 0593

#### ASSIGNMENT

THIS ASSIGNMENT, made by us, **Sunil Shim**, citizen of the Republic of Korea, residing at 104-704, Kolon Apt., Bangi 1-dong, Songpa-gu, Seoul, Republic of Korea; **Sunghoi Hur**, citizen of the Republic of Korea, residing at 5-803, Gyeongnam Apt., Gaepo 1-dong, Gangnam-gu, Seoul, Republic of Korea; **Hansoo Kim**, citizen of the Republic of Korea, residing at 431-601, Samsung Raemian Apt., 100, Chengmyungro, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; **Jaehoon Jang**, citizen of the Republic of Korea, residing at 210-103, Yangji Maeul Chunggu Apt., Sunae-dong, Bundanggu, Seongnam-si, Gyeonggi-do, Republic of Korea; and **Hoosung Cho**, citizen of the Republic of Korea, residing at 101-303, Gangnam Maeul Kolon Haneulchaesu Apt., Gugaldong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **THREE-DIMENSIONAL SEMICONDUCTOR MEMORY DEVICE** 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. 12/943, 126, filed 11/10/10 ) 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

### ASSIGNMENT - CONTINUED

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 WITN	ESS WHEREOF, I have h	ereunto set my	hand and seal	on this 19	_ day
of October	, 20 <u>10</u> .				
	Sun 71 Sunil Shim	Shin	(SEAL)		
Witnessed by:					
Date:					

# ASSIGNMENT – CONTINUED

	IN WITNES	S WHEREOF, I have hereunto set my hand and seal on this <u>rf</u> da	ay
of	Oct	_, 20 <u> </u>	
		Sunghoi Hur (SEAL)	
Witnes	sed by:		
		·	
Date:			

# ASSIGNMENT – CONTINUED

IN WITNE	SS WHEREOF, I have herei	unto set my l	nand and seal on	this Aday
of oct.	, 20			
	Hansoo Kim		_(SEAL)	
Witnessed by:				
Date:				

## ASSIGNMENT - CONTINUED

IN WIT	NESS WHE	REOF, I have he	reunto set my	hand and seal	on this 19th	day
of Oct	, 20 <u>/ c</u>	<u>)</u> .				
		Jaehoon	Jang	(SEAL)		
		Jachoon Jang				
Witnessed by:			· ·			
			•			
Date:						

# ASSIGNMENT – CONTINUED

IN WITNE	ESS WHEREOF, I have hereunto set m	y hand and seal on this	s // day
of oct	, 20 <u>/o</u> .		
	Cho Hoo Sung Hoosung Cho	(SEAL)	
Witnessed by:			
Date:			