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PATENT APPLICATION Docket No. 5484-103 Client Ref. No. PX1508-US/SSD

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1.	Name of party(ies) conveying an interest:	Jong-Hyun Choi and Jae-Hoon Kiin	
2.	Name and address of party(ies) receiving an interest:	Samsung Electronics Co., Ltd. 416 Maetan-dong, Yeongtong-gu, Suwon-City Kyungki-do, Republic of Korea	
3.	Description of the interest conveyed:		
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	Date of execution of attached document: May 29, 2003		
4.	Application number(s) or patent number(s). Additional sheet attached? Yes No		
	If this document is being filed together with a new application, the execution date of the application is:		
	A. Patent Application No. 10/612,593, filed July 1, 2003	B. Patent No.	
5.	Name and address of party to whom correspondence concerning document should be mailed:		
	MARGER JOHNSON & McCOLLOM, P.C. 1030 S.W. Morrison Street Portland, Oregon 97205 Telephone: (503) 222-3613	I hereby certify that this correspondence is being transmitted to the U.S. Patent and Trademark Office via facsimile number 703-306-5995, on January 23, 2004.	
6.	Number of applications and patents involved: 1	Christina Lawton	
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9.	To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.		
	Dated: January 23, 2004		
	Respec MARC	tfully submitted, EPA JOHNSON & McCOLLOM, P.C.	

Alan T. McCollom Reg. No. 28,881

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PATENT APPLICATION Attorney's Do. No. 5484-103 KNK Ref. No.:PX1508-US/SSD

## ASSIGNMENT

U.S.A. Patent Application
Solo or Joint
For Inventions Made Outside U.S.A.
Executed With Application

In consideration of the sum of Ten Dollars (10.00) and other good and valuable considerations paid to each of the undersigned, to wit:

- (1) Jong-Hyun CHOI
- (2) Jae-Hoon KIM

X if continued on separate page

the receipt and sufficiency of which are hereby acknowledged by the undersigned who hereby sell(s), assign(s) and transfer(s) unto:

SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, PALDAL-KU, SUWON-CITY, KYUNGKI-DO REPUBLIC OF KOREA

(hereinafter designated "ASSIGNEE") the entire right, title and interest in and to the invention as defined in 35 USC §100, for the United States of America, the invention entitled:

## CIRCUIT AND METHOD FOR SELECTING REFERENCE VOLTAGES IN SEMICONDUCTOR MEMORY DEVICE

for which an application for Letters Patent of the United States of America has been executed even date herewith by the undersigned, and in and to any and all divisionals, continuations, substitutes, and reissues thereof; and all resulting patents and the undersigned hereby authorizes and requests the United States Assistant Commissioner of Patents to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

And the undersigned hereby agrees to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

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Please sign concurrently with Oath or Declaration and Power of Attorney

## SIGNED ON THE DATES INDICATED BESIDE OUR SIGNATURES:

INVENTOR(S)	DATE SIGNED	WITNESSED
(1) Jone Hyun Choi Jone Hyun CHOI	May, 29, 2003	
(2) Jae-Hoon KIM	May. 29. 2003	

PLEASE RETURN RECORDED ASSIGNMENT TO:

Aian T. McCollom Marger Johnson & McCollom 1030 S.W. Morrison Street Portland, OR 97205

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