

PATENT APPLICATION  
Docket No. 9898-459  
Client No. SS-22211-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Please record the attached original document or copy thereof and return the recorded instrument to the undersigned.

- 1. Name of party(ies) conveying an interest: Sang-Woong SHIN, Chul-Soo KIM, Young-Hyun JUN, and Sang-Bo LEE
- 2. Name and address of party(ies) receiving an interest: Samsung Electronics Co., Ltd.  
416 Maetan-dong, Yeongtong-gu,  
Suwon-si, Gyeonggi-do  
Korea (South)

3. Description of the interest conveyed:

Assignment  Change of Name  Security Agreement  Merger

Date of execution of attached document: July 7, 2005

4. Application number(s) or patent number(s). Additional sheet attached? Yes \_\_\_ No X

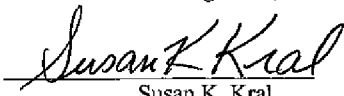
If this document is being filed together with a new application, the execution date of the application is:

Patent Application No. 11/188,184, filed on 20 Jul 2005

5. Name and address of party to whom correspondence concerning document should be mailed:

MARGER JOHNSON & McCOLLOM, P.C.  
210 S.W. Morrison Street, Suite 400  
Portland, Oregon 97204  
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 August 19, 2005.



Susan K. Kral

6. Number of applications and patents involved: 1

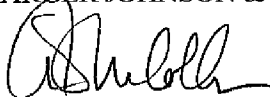
7. PTO Form 2038 authorizing credit card payment (\$40) is enclosed.

8. Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.

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: August 19, 2005

Respectfully submitted,  
MARGER JOHNSON & McCOLLOM, P.C.



Alan T. McCollom  
Reg. No. 28,881

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Total number of pages comprising  
cover sheet and attached assignment: 3

OP \$40.00 11188184

PATENT APPLICATION  
Docket No.: 9898-459  
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### ASSIGNMENT

U.S.A. Patent Application  
Sole 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) Sang-Woong SHIN
- (2) Chul-Soo KIM
- (3) Young-Hyun JUN
- (4) Sang-Bo LEE

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, YEONGTONG-GU**  
**SUWON-SI, GYEONGGI-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:

#### **SEMICONDUCTOR MEMORY DEVICE HAVING LOCAL SENSE AMPLIFIER WITH ON/OFF CONTROL**

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.

**Please sign  
concurrently  
with Oath or Declaration  
and Power of Attorney**

**SIGNED ON THE DATES INDICATED BESIDE OUR SIGNATURES:**

<b>INVENTOR(S)</b>	<b>DATE SIGNED</b>	<b>WITNESSED</b>
(1) <u>Sang-Woong Shin</u> Sang-Woong SHIN	<u>Jul. 7, 2005</u>	_____
(2) <u>Chul Soo Kim</u> Chul-Soo KIM	<u>Jul. 7, 2005</u>	_____
(3) <u>Young-Hyun JUN</u>	<u>July 7, 2005</u>	_____
(4) <u>Sang-Bo Lee</u> Sang-Bo LEE	<u>July 7, 2005</u>	_____

**PLEASE RETURN RECORDED ASSIGNMENT TO:**

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