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IN THE UNITED STATES

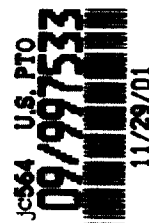
12-07-2001

PATENT APPLICATION  
torney's Do. No. 4591-238

BOX PATENT APPLICATION  
U.S. Patent & Trademark Office  
P.O. Box 2327  
Arlington, VA 22202



101909981



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

1. Name of party conveying an interest: Tae-Hee CHO and Young-Ho LIM
2. Name and address of party receiving an interest: Samsung Electronics Co., Ltd.  
416 Maetan-dong, Paldal-ku, Suwon-City  
Kyungki-do KOREA

3. Description of the interest conveyed:  
☒ Assignment ☐ Change of Name ☐ Security Agreement ☐ Merger  
Date of execution of attached document: November 8, 2001

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:  
November 29, 2001.

A. Patent Application No. Filed Herewith

B. Patent No.

09 997 533

5. Name and address of party to whom correspondence concerning document should be mailed:  
Alan T. McCollom  
MARGER JOHNSON & McCOLLOM, P.C.  
1030 S.W. Morrison Street  
Portland, Oregon 97205  
Telephone: (503) 222-3613

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: November 29, 2001

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

Alan T. McCollom  
Reg. No. 28,881

MARGER JOHNSON & McCOLLOM, P.C.  
1030 SW Morrison Street  
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Total number of pages comprising  
cover sheet and attached assignment: 3

PATENT  
REEL: 012340 FRAME: 0398

**PATENT APPLICATION**  
**Atty's Do. No. 4591-238**  
**Koryo Ref. No.:ID11026-US**

**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) **Tae-Hee CHO**
- (2) **Young-Ho LIM**

☐ 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 for the United States Of America as defined in 35 U.S.C. §1.00, in and to the invention known as:

**NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE WITH TIME-VISION  
SENSE FUNCTION AND READ METHOD THEREOF**

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><u>INVENTOR(S)</u></b>	<b><u>DATE SIGNED</u></b>	<b><u>WITNESSED</u></b>
(1) <u>Taehee Cho</u> <b>Tae-Hee CHO</b>	<u>Nov. 8, 2001</u>	_____
(2) <u>Young-Ho LIM</u> <b>Young-Ho LIM</b>	<u>Nov - 8, 2001</u>	_____

FOR ADDITIONAL INVENTORS, "X" BOX ☐ AND CONTINUE ON SEC- 2.005

PLEASE RETURN RECORDED ASSIGNMENT TO:

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