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BOX PATENT APPLICATION
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Washington, D.C. 20231

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: (1)　Seon-Jin JANG
   (2)　Kyu-Hyoung KIM

2. Name and address of party(ies) receiving an interest: Samsung Electronics Co., Ltd.
   416 Maetan-dong, Paldal-ku, Suwon-city
   Kyungki-do Republic of Korea
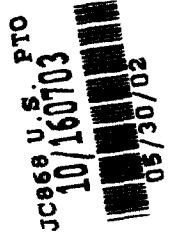
3. Description of the interest conveyed:

   ☒ Assignment　☐ Change of Name　☐ Security Agreement　☐ Merger

   Date of execution of attached document:　May 30, 2002

4. Application number(s) or patent number(s). Additional sheet attached?　Yes ___ No ____

   10160703

If this document is being filed together with a new application, the execution date of the application is: May 30, 2002

   A. Patent Application No.　　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

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: May 30, 2002

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

James E. Harris
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MARGER JOHNSON & McCOLLOM, P.C.
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Total number of pages comprising
cover sheet and attached assignment 3

PATENT APPLICATION
Atty's Do. No. 9898-237
Y P LEE Ref. No.: SS-16711-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) **Seong-Jin JANG**
(2) **Kyu-Hyoun 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:

SEMICONDUCTOR MEMORY DEVICE POST REPAIR CIRCUIT AND METHOD

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:

INVENTOR(S)	DATE SIGNED	WITNESSED
(1) *Seong Jin Jang* Seong-Jin JANG	May 30, 2002	_____
(2) *Kyu-hyoun Kim* Kyu-Hyoun KIM	May 30, 2002	_____

PLEASE RETURN RECORDED ASSIGNMENT TO:

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

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