

05-07-1999



101031655

T APPLICATION
's Do. No.4591-66
a Ref. ID7050-US

MED 5-3-99

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of: **Jong-Chang SON et al.**

Serial No. 09/222,044

Filed: December 29, 1998

For: **NONVOLATILE MEMORY SEMICONDUCTOR DEVICE HAVING ALTERNATIVE PROGRAMMING OPERATIONS**

Box Assignment
Commissioner of Patents and Trademarks
Washington, D.C. 20231

ASSIGNMENT TRANSMITTAL COVER SHEET

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

1. Name of party conveying an interest: (1) **Jong-Chang SON**
(2) **Jong-Min PARK**
2. Name and address of party(ies) receiving an interest: Samsung Electronics Co., Ltd.
416 Maetan-Dong, Palkal-Ku
Suwon-City, Kyungki-Do
Republic of Korea

3. Description of the interest conveyed:

☒ Assignment ☐ Change of Name ☐ Security Agreement ☐ Merger ☐ Other:

Date of execution of attached document: (1) **March 23, 1999**
(2) **March 23, 1999**

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. 09/222,044

B. Patent No.

05/06/1999 JSHABAZZ 00000231 09222044

01 FC:581

40.00 OP

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

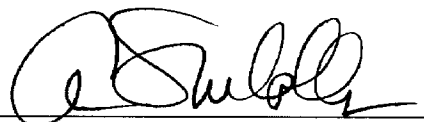
7. Enclosed is our check for \$40.00 (check no. 02).

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.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Assignment, Commissioner of Patents and Trademarks, Washington D.C. 20231, on April 28, 1999.

Respectfully submitted,



Alan T. McCollom
Reg. No. 28,881

Signature



Derek S. Watson

Total number of pages comprising
cover sheet and attached assignment: 4

MARGER, JOHNSON,
& McCOLLOM, P.C.
1030 S.W. Morrison Street
Portland, Oregon 97205
(503) 222-3613

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) **Jong-Chang SON**
- (2) **Jong-Min PARK**

[] 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. §100, in and to the invention known as:

**NONVOLATILE MEMORY SEMICONDUCTOR DEVICE HAVING
ALTERNATIVE PROGRAMMING OPERATIONS**

for which an application for Letters Patent of the United States of America filed on December 29, 1998, Serial Number 09/222,044 has been executed 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.

sign
currently
with Oath or Declaration
and Power of Attorney

SIGNED ON THE DATE(S) INDICATED BESIDE MY/OUR SIGNATURE(S):

<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESSED</u>
(1) <u>Jong C. Son</u> Jong-Chang SON	<u>March 23, 99</u>	<u>Sam H. Lee</u>
(2) <u>Jong Min Park</u> Jong-Min PARK	<u>3.23.99</u>	<u>Kyong Kim</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