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PATENT APPLICATION
Atty's Do. No. 4591-114
Serial Ref. No.: IE9064-US

JC873 U.S. PTO
09/632582
08/07/00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of: **Tae-Young CHUNG et al.**

Serial No. Filed herewith

09/632582

Filed: August 7, 2000

For: **METHOD OF FORMING A TRENCH IN AN INSULATING LAYER EXCEEDING THE
PHOTOLITHOGRAPHIC RESOLUTION IN A SEMICONDUCTOR
MANUFACTURING**

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) **Tae-Young CHUNG**
(2) **Hyung-Soo UH**
- 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) **May 15, 2000**
(2) **May 15, 2000**

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. Filed herewith B. Patent No.

09/14/2000 MTHAI1
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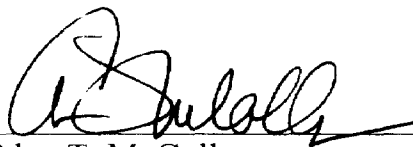
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5. Name and address of party to whom correspondence concerning document should be mailed:

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. 030851).
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.

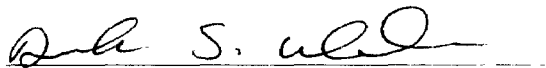
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Assignment, Commissioner of Patents and Trademarks, Washington D.C. 20231, on August 7, 2000.

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.
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ASSIGNMENT

U.S.A. Patent Application
Sole or Joint
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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-Young CHUNG**
- (2) **Hyung-Soo UH**

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:

**METHOD OF FORMING A TRENCH IN AN INSULATING LAYER EXCEEDING
THE PHOTOLITHOGRAPHIC RESOLUTION IN A SEMICONDUCTOR
MANUFACTURING**

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

| <u>INVENTOR(S)</u> | <u>DATE SIGNED</u> | <u>WITNESSED</u> |
|---|---------------------|------------------|
| (1) <u>Tae Young Chung</u> Tae-Young CHUNG | <u>08/07/2000</u> | _____ |
| (2) <u>Hyungsoo UH</u> Hyung-Soo UH | <u>Aug 7th 2000</u> | _____ |

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

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