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ginal documents or copy thereof.

00727 U.S. PTO  
10758315



011504

To the Honorable Commissioner of Patent

1. Name of conveying party(ies):

**SHIH-YEN TSAI, PO-HSIUNG LEU, CHIA-MING  
YANG, TSANG-YU LIU, YUH-DA FAN, CHEN-PENG  
FAN**

Additional name(s) or conveying party(ies) attached?  Yes  No

3. Nature of conveyance

- Assignment  Merger
- Security Agreement  Change of Name
- other \_\_\_\_\_

Execution Date: 12/11/03

2. Name and address of receiving party(ies):

Name: **Taiwan Semiconductor Manufacturing  
Company**

Internal Address:

Street Address:

**No. 8, Li-Hsin Rd. 6  
Science-Based Industrial Park  
Hsin-Chu, Taiwan 300-77  
Taiwan, R.O.C.**

Additional name & address attached?  Yes  No

4. Application number(s) or patent number(s):

10758315

If this document is being filed together with a new application, the execution date of the application is: 12/11/03

A. Patent Application No(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: **GEORGE O. SAILE**

Internal Address: \_\_\_\_\_

Street Address: **28 DAVIS AVENUE**

City: **POUGHKEEPSIE** State: **NY** ZIP: **12603**

6. Total no. of applications and patents involved: 1

7. Total fee (37 CFR 3.41): **\$ 40.00**

Enclosed

Authorized to be charged to deposit acct.

8. Deposit account number: **19-0033**

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9. Statement and signature.

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

**STEPHEN B. ACKERMAN**

Name of Person Signing

Signature

**1/15/04**

Date

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For  U.S. and/or  Foreign Rights

For  Application or  U.S. Patent

By  Inventor(s) or  Present Owner

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR:**

~~SHIN-YEU TSAI~~ SHIH-YEN TSAI  
Type or print name of ASSIGNOR

Shih-Yen Tsai  
Address

5F, No 46-22 Sanmin Rd,  
Address

Sinying City Tainan Country 730 Taiwan  
Nationality

Republic of China

PO-HSIUNG LEU  
Type or print name of ASSIGNOR

No 495, 31m, Changsing village,  
Address

Lujhu Township, Taoyuan County 338, Taiwan  
Address

Republic of China, Taiwan  
Nationality

CHIA-MING YANG  
Type or print name of ASSIGNOR

9F-4 No 113 Kuang-hwa 2 st.  
Address

Hsin-Chu City  
Address

Taiwan, ROC, Republic of China  
Nationality

China

TSANG-YU LIU  
Type or print name of ASSIGNOR

No 14, 10F, ChangDe Rd 240.  
Address

Kaoshiang city  
Address

Taiwan, ROC, Republic of China  
Nationality

**ASSIGNEE:**

Taiwan Semiconductor Manufacturing Co.  
No. 8, Li-Hsin Rd. 6  
Science Based Industrial Park  
Hsin-Chu Taiwan 300-77  
R.O.C.  
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

the entire right, title and interest

an undivided \_\_\_\_\_ percent (\_\_\_\_%) interest for the United States and its territorial possessions  
(check the following box if foreign rights are also to be assigned)

and in all foreign countries

in and to any and all improvements which are disclosed in the invention entitled:

**Solution For Copper Hillock Induced By Thermal Strain With Buffer Zone For Strain Relaxation**

For  U.S. and/or  Foreign Rights

For  Application or  U.S. Patent

By  Inventor(s) or  Present Owner

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR:**

**YUN-DA FAN**  
Type or print name of ASSIGNOR  
2F, No 101 Sanmin Rd. Hsin Chu  
Address  
City, Taiwan R.O.C.  
Taiwan R.O.C., Republic  
Nationality of China

**CHEN-PENG FAN**  
Type or print name of ASSIGNOR  
NO. 76 Fusing Village, Siafong Township  
Address  
Hsinchu county 304  
Taiwan R.O.C., Republic of China  
Nationality

**ASSIGNEE:**

**Taiwan Semiconductor Manufacturing Co. Ltd**  
No. 8, Li-Hsin Rd. 6  
Science-Based Industrial Park  
Hsin-Chu, Taiwan 300-77  
Taiwan, R.O.C.  
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

*(complete one of the following)*

- the entire right, title and interest
- an undivided \_\_\_\_\_ percent (\_\_\_%) interest for the United States and its territorial possessions  
*(check the following box if foreign rights are also to be assigned)*
- and in all foreign countries

in and to any and all improvements which are disclosed in the invention entitled:

**Solution For Copper Hillock Induced By Thermal Strain With Buffer Zone For Strain Relaxation**

and which is found in

- (a)  U.S. patent application executed on even date herewith
- (b)  U.S. patent application executed on \_\_\_\_\_
- (c)  U.S. application serial no. \_\_\_\_\_ filed on \_\_\_\_\_
- (d)  U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
*(also check (e) if foreign application(s) is also being assigned)*
- (e)  and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I / We have signed this  
12/11 2003 (Date of signing)

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Yuh-Da Fan  
Signature of ASSIGNOR(S)  
Chen-Peng Fan  
\_\_\_\_\_  
\_\_\_\_\_

If ASSIGNOR is a legal entity complete the following information

\_\_\_\_\_  
Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

\_\_\_\_\_  
Title

Note: No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired.

\_\_\_ Notarization of Legalization Page Added.

and which is found in

- (a)  U.S. patent application executed on even date herewith
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- (c)  U.S. application serial no. \_\_\_\_\_ filed on \_\_\_\_\_
- (d)  U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
*(also check (e) if foreign application(s) is also being assigned)*
- (e)  and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

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IN WITNESS WHEREOF, I / We have signed this

12/11 2003 (Date of signing)

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Shih-Yen Tsai  
Signature of ASSIGNOR(S)

Po-Hsiung Lou

Chia-ming Jiang

Tsang-Yu Liu

If ASSIGNOR is a legal entity complete the following information

\_\_\_\_\_  
Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

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