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TS01-663

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To the Honorable Commissioner of Patents and Trademarks: Please file with the original documents or copy thereof.

1. Name of conveying party(ies):

**HSIN-CHING SHIH, YI-NIEN SU, LI-TE S. LIN,  
LI-CHIE CHIAO**

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

3. Nature of conveyance

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

Execution Date: **10/23/01**

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

Name: **Taiwan Semiconductor Manufacturing Company**

Internal Address:

Street Address:

**121 Park Ave. 3  
Science-Based Industrial Park  
City: Hsin-Chu Zip:  
Country: Taiwan, R.O.C.**

Additional name(s) & address(es) attached? Yes  No

J1060 U.S. PTO  
10/005803  
12/05/01

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

If this document is being filed together with a new application, the execution date of the application is: **10/23/01**

A. Patent Application No(s)

B. Patent No.(s)

10/005803

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: **20 MCINTOSH DRIVE**

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

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Name of Person Signing

Signature

**12/5/01**

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:**

**HSIN-CHING SHIH**  
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Address  
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Republic of China  
Nationality

**ASSIGNEE:**

**Taiwan Semiconductor Manufacturing Co. Ltd.**  
**121 Park Ave. 3**  
**Science-Based Industrial Park**  
**Hsin-Chu, Taiwan, R.O.C.**  
**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:

**Dry-Wet-Dry Solvent-Free Process After Stop Layer Etch In Dual Damascene Process**

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 clam 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

10/23/01 (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.

HSIN-CHING SHIH  
 \_\_\_\_\_  
 Signature of ASSIGNOR(S)  
 Yi-Nien Su  
 \_\_\_\_\_  
 Title  
 \_\_\_\_\_  
 \_\_\_\_\_

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.