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To the Honorable Commissioner of Patents and Trademarks, please return the enclosed original documents or copy thereof

1 Name of conveying party(ies):

MING-HSING TSAI AND SHENG-HSIUNG CHEU

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) or conveying party(ies) attached? Yes No

3 Nature of conveyance

- Assignment Merger
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Execution Date: **1/30/00**

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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: **1/30/00**

A. Patent Application No(s)

B. Patent No.(s)

09/527/84

Additional numbers attached? Yes No

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

Name: **GEORGE O. SAILE**

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

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

Enclosed

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Name of Person Signing

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March 15, 2000

Date

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jc678 U.S. PTO
09/527184
03/17/00

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:

MING-HSING TAI
Type or print name of ASSIGNOR
No. 43, 3F. Lane 107, Lin Shau
Address
North Rd. Taipei ROC
ROC
Nationality

SHENG-HSIUNG CHEU
Type or print name of ASSIGNOR
No. 9, Da Ka Country Tai chung
Address
Country, Taiwan P
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/f 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:

Fabrication Process For Low Resistivity Tungsten Layer With Good Adhesion To Insulator Layers

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 _____
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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.

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IN WITNESS WHEREOF, I / We have signed this
Jan/30/2000 (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.

Ming Hsing Tseu
Signature of ASSIGNOR(S)
Sheng-Hsiung Chen

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.