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To the Honorable Commissioner of P.

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JYH-HAUR WANG

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

3. Nature of conveyance

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

Execution Date: 11/3/98

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

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: 11/3/98

A. Patent Application No(s)

B. Patent No.(s)

09/236512

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 DRIVECity: POUGHKEEPSIE State: NY ZIP: 126036. Total no. of applications and patents involved: 17. 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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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

GEORGE O. SAILE

Name of Person Signing

George O Saile  
SignatureJanuary 21, 1999

Date

Total number of pages comprising cover sheet: 3

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1 Name of conveying party(ies):

2 Name and address of receiving party(ies):

YH HAU R WANG

Name: **Taiwan Semiconductor Manufacturing Company**Additional name(s) or conveying party(ies) attached? ☐ Yes ☒ No

Internal Address:

Jc551 U.S. PTO  
09/236512  
01/25/99

Street Address:

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

Nature of conveyance

☒

Assignment

☐

Merge

☐

Security Agreement

☐

Change of Name

☐

Other

Execution Date: **11/3/98**Additional name(s) & address(es) attached? Yes ☒ No

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

6 Total no. of applications and patents involved: **1**Name **GEORGE O. SAILE**

Internal Address:

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

Enclosed

Street Address: **20 MCINTOSH DRIVE**☒

Authorized to be charged to deposit acct

City **POUGHKEEPSIE** State **NY** ZIP **12603**8 Deposit account number: **19-0033**

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9 Statement and signature.

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**GEORGE O. SAILE**

Name of Person Signing

Signature

**January 21, 1999**

Date

Total number of pages comprising cover sheet: **3**

For ☒ U.S. and/or ☒ Foreign Rights

For ☒ Application or ☐ U.S. Patent

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### 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:

Jyh-Haur Wang  
Type or print name of ASSIGNOR

5F No. 14 Alley 50 Lane 367  
Address

Sec. 1 Guang-fuh Rd. Hsin-chu

Taiwan, 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:

**Method For Fabricating An Ultra-Shallow Junction With Low Resistance Using A Screen-Oxide Formed By Poly Re-Oxidation In A Nitrogen Containing Atmosphere**

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

Nov. 3, 1998 (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.

Jyh-Haur Wang  
Signature of ASSIGNOR(S)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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.