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To the Honorable Commissioner of Patents and Trademarks, original documents or copy thereof.

1. Name of conveying party(ies):

MIN-HWA CHI, YEE-CHIA YEO, CHENMING HU

S-23-03

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

3. Nature of conveyance



Assignment



Merger



Security Agreement



Change of Name



other _____

Execution Date: 1/21/03

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):

10444874

If this document is being filed together with a new application, the execution date of the application is: 1/21/03

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 AVENUECity: POUGHKEEPSIE State: NY ZIP: 126036. Total no. of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

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PATENT

REEL: 014114 FRAME: 0945

For ☒ U.S. and/or ☒ Foreign RightsFor ☒ Application or ☐ U.S. PatentBy ☒ 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:**MIN-HWA CHI**

Type or print name of ASSIGNOR

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ASSIGNEE:

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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:

Silicon Strain Engineering Accomplished Via Use Of Specific Shallow Trench Isolation Fill Materials

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 _____
(e) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority
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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. 21, 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

Mirshwa Chin
Signature of ASSIGNOR(S)
Yuehua Yen
Luigi

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 or Legalization Page Added)

TOTAL P.05

PATENT

RECORDED: 05/23/2003

REEL: 014114 FRAME: 0947