

04-10-2003

Office

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S01-1681

102415738

To the Honorable Commissioner of Patents and Trade... please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

4-8-03
CHUN CHIEH LIN, YEE-CHIA YEO, CHIEN-CHAO
HUANG, CHAO-HSIUNG WANG, TIEN-CHIH
CHANG, CHENMING HU, FU-LIANG YANG

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



Security Agreement



Change of Name

other Request to Correct Recordation
Reel: 013236 Frame 0121

Execution Date: _

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:

A. Patent Application No(s)10/228,545B. Patent No.(s)Additional numbers attached? ☐ Yes ☒ No5. 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

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 documentSTEPHEN B. ACKERMAN

Name of Person Signing

Signature

4/3/03

Date

04/10/2003 LMUELLER 00000031 190033 10228545

04/08/21

40.00 CH

PATENT
REEL: 013928 FRAME: 0553

ADDITIONAL INVENTORS:

SHIH-CHANG CHEN, MONG SONG LIANG, LIANG-GI YAO

PATENT

REEL: 013928 FRAME: 0554

Office

T301-1681

To the Honorable Commissioner of Patents

and documents or copy thereof.

1. Name of conveying party(ies):

8-27-02

CHUN CHICH LIN, YEE-CHIA YEO, CHIEN-CHAO
HUANG, CHAO-HSIUNG WANG, TIEN-CHIH
CHANG, CHENMING HU, FU-LIANG YANG,

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Name: Taiwan Semiconductor Manufacturing
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Internal Address:

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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☐ Security Agreement ☐ Change of Name☐ other _____Execution Date: 3/6/02Additional name(s) & address(es) attached? Yes ☒ No

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

10228545

If this document is being filed together with a new application, the execution date of the application is: 3/6/02

A. Patent Application No(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
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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

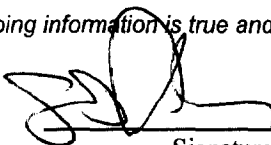
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9. Statement and signature.

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 documentSTEPHEN B. ACKERMAN

Name of Person Signing



Signature

8/27/02

Date

03/20/02 00000030 190033 10228545

ADDITIONAL NAMES OF INVENTORS:

Shih-Chang Chen, Mong Song Liang, Liang-Gi Yao

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:**CHUN-CHIEH LIN**

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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:

A Relaxed Silicon Germanium Substrate With Low Defect Density

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,

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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

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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:**TIEN-CHIH CHANG**

Type or print name of ASSIGNOR

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Address

South Road, Section 2, Taipei, Taiwan, 106.

Republic of China, Taiwan

Nationality

CHENMING HU

Type or print name of ASSIGNOR

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Address

U.S.A.

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

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A Relaxed Silicon Germanium Substrate With Low Defect Density

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
(also check (e) if foreign application(s) is also being assigned)

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

3/10/02 (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.

Chun Chieh Lin
Signature of ASSIGNOR(S)
Tien-Chih Chang
[Signature]
Chun-Chih Wang

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 new 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
(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
(also check (e) if foreign application(s) is also being assigned)

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

3/6/02 (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.

Liang-Qi Yao
Signature of Assignor(s)
Shih-Chang Chen
Shih-Chang Chen
Fu-Liang Shih

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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Notarization or Legalization Page Added.

and which is found in

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(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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IN WITNESS WHEREOF, I / We have signed this

3/16/02 (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.

Yuehlin Yeh
Signature of ASSIGNOR(S)
Li Sheng Huang Chien-Chow

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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