

02-16-1999

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TS98-159

100965704

To the Honorable Commissioner of Patents and Trademarks.

original document or copy thereof.

1. Name of conveying party(ies):

MRD
2-5-99CHENG-HAO HUANG, WEN-HSIANG TANG AND
PEI-HUNG CHEN

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 _____Execution Date: 1/12/99Additional name(s) & address(es) attached? Yes ☒ No

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

09/244,876

If this document is being filed together with a new application, the execution date of the application is: 1/12/99, 1/13/99

A. Patent Application No(s)

B. 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: 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

February 4, 1999

Date

Total number of pages comprising copy sheet: 3

PATENT

REEL: 9753 FRAME: 0716

J-525 U.S. PTO
09/244876

02/06/99

100965704
19-0000041
JW/TKL/JS
12/1998
FC:58

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:

CHENG-HAO HUANG

Type or print name of ASSIGNOR

WEN-HSIANG TANG

Type or print name of ASSIGNOR

4F, No. 10, 56 Lane, Sec 3 Hsin-sun South Rd., 2F, No. 8, Lane 66, Roosevelt Rd., Taipei, Taiwan.

Address

Address

Taipei, Taiwan

Taipei, Taiwan

Republic of China

Nationality

Republic of China

Nationality

PEI-HUNG CHEN

Type or print name of ASSIGNOR

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Address

Section-1, 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 Of Metal Etching With In-Situ Plasma Cleaning

and which is found in

- (a) ☐ U.S. patent application executed on even date herewith
- (b) ☒ U.S. patent application executed on 1/12/99 and 1/13/99
- (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

Jan. 12, 1999 (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.

Cheng-Hao Huang
Signature of ASSIGNOR(S)
Wei-Hsiang Jung
Pei-Hung 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.