

PTO-1595

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11-14-2003



HEET U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

11.4.03

102601172

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1 Name of conveying party(ies):

Ping Chuang
Henry Lo
Mei Shang Zhou

2 Name and address of receiving party(ies):

Taiwan Semiconductor Manufacturing Co. Ltd.
No. 6. Li-Hsin Rd. 6
Science-Based Industrial Park
Hsin-Chu, Taiwan, R.O.C.

19270 U.S. PTO
10701802

110403

3 Nature of conveyance:

- Assignment Merger
 - Security Agreement Change of Name
 - Other:
- Execution Date: June 6, 2003

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: 06-06-03

A. Patent Application No(s).

B. Patent No(s)

11/10/2003 FMETEK11 00000002 10701802

02 FC:0021

40.00 DP

Additional numbers attached? Yes No

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

RANDY W. TUNG
Tung & Associates
838 W. Long Lake Road
Suite 120
Bloomfield Hills, Michigan 48302

6 Total number of applications and patents involved:

1

7 Total fee (37 CFR 3.41)

\$40.00

- Enclosed
- Authorized to charge credit card (w/filing fee)**

8 Deposit Account Number: 50-0484
(Attach duplicate copy of this page if paying by deposit account)

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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 document.

Randy W. Tung
Name of Person Signing
Registration No. 31,311

Signature

Nov. 3, 2003
Date

Total number of pages including cover sheet, attachments, and document : 3

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

67,200-878

PATENT
REEL: 014705 FRAME: 0288

ASSIGNMENT

WHEREAS, we, PING CHUANG, HENRY LO and MEI SHANG ZHOU, have
invented certain improvements in

PLANARIZING METHOD EMPLOYING HYDROGENATED
SILICON NITRIDE PLANARIZING STOP LAYER

for which we are about to make application for Letters Patent of the United States; and

WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. of
No. 121, Park Avenue 3, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C, is desirous of
acquiring the entire right, title and interest in and to said invention;

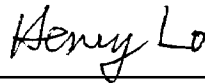
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and
valuable consideration, the receipt of which is hereby acknowledged, we, PING CHUANG, HENRY
LO and MEI SHANG ZHOU, by these presents, do hereby sell, assign and transfer unto the said
corporation and its assigns, for the territory of the United States of America and all foreign
countries, the entire right, title and interest, including all priority rights under the International
Convention associated with each country of the Union, in and to said invention as described in the
patent application executed by us on the 6 day of June, 2003, preparatory
to obtaining Letters Patent of the United States thereon, and in and to said application and any
Letters Patent that may be granted in pursuance of said application and any divisional, continuation

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or continuation-in-part application thereof, and in and to any reissue of any such patent, and in and to any patent applications which may be filed on said invention in countries foreign to the United States and any Letters Patent granted thereon.

We further authorize said corporation to apply for foreign patents on said invention in its own name or through its designees, including subsidiaries, related companies or assignees, under the International Convention or otherwise, and we further agree to execute all papers, including those required for the United States and foreign applications, and to perform such other proper acts as said corporation or its designees the rights herein assigned.


PING CHUANG


HENRY LO


MEI SHANG ZHOU

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