

10-20-2000

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

1 Name of conveying party(ies):

Jui-Jie Chang
Jih-Chung Twu
Rong-Hui Kao

2 Name and address of receiving party(ies):

Taiwan Semiconductor Manufacturing Co. Ltd.
No. 121 Park Avenue III
Science-Based Industrial Park
Hsin-Chu, Taiwan, R.O.C.

3 Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other:
Execution Date: August 10, 2000

Additional name(s) & address(es) attached ☐ Yes ☒ No

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

09/676746

If this document is being filed together with a new application, the execution date of the application is: 08-10-00

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:

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 be charged to deposit account

8 Deposit Account Number:

50-0484

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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

September 29, 2000
DateTotal number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
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67,200-307

PATENT

REEL: 011161 FRAME: 0857

jc913 U.S. PTO
09/676746
09/29/00

09/676746
10/16/2000 LWS/HSH/000000031
02 FC:501

ASSIGNMENT

WHEREAS, we, JUIN-JIE CHANG, JIH-CHURNG TWU and RONG-HUI KAO have invented certain improvements in METHOD FOR CLEANING A SILICON-BASED SUBSTRATE WITHOUT NH_4OH VAPOR DAMAGE 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;

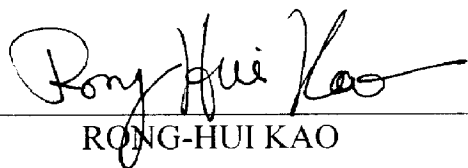
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, JUIN-JIE CHANG, JIH-CHURNG TWU and RONG-HUI KAO, by these presents, do hereby sell, assign and transfer unto the said corporation and its assigns, for the 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 10th day of August, 2000, 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 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.


JUIN-JIE CHANG


JIH-CHURNG TWU


RONG-HUI KAO

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