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06-12-2000



To the Honorable Commissioner of Patent:

original documents or copy thereof.

1 Name of conveying party(ies):

101377194

Address of receiving party(ies):

Mei-Yun Wang
Shau-Lin Shue

Taiwan Semiconductor Manufacturing Co. Ltd.
No. 121 Park Avenue 3
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09,585183

10530 U.S. PTO

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3 Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other:

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

Execution Date: April 3, 2000

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: 04-03-00

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
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6 Total number of applications and patents involved:

1

7 Total fee (37 CFR 3.41)

\$40.00

- Enclosed
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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

June 1, 2000

Date

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

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

06/08/2000 JWSH/182 09585183

02 FC:561

ASSIGNMENT

WHEREAS, we, MEI-YUN WANG and SHAU-LIN SHUE have invented certain improvements in TUNGSTEN DEPOSITION PROCESS WITH DUAL-STEP NUCLEATION 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, MEI-YUN WANG and SHAU-LIN SHUE, 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 3rd day of April, 2,000, 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.


MEI-YUN WANG


SHAU-LIN SHUE

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