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To the Honorable Commissioner of Pat

100971808

Attached original documents or copy thereof.

1. Name of conveying party(ies):  
**Chi-Wei Chang and Chung-YI Lee**  
Additional names(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
**Taiwan Semiconductor Manufacturing Co., Ltd.**  
**No. 121, Park Avenue 3**  
**Science-Based Industrial Park**  
**Hsin-Chu, Taiwan R.O.C.**  
Additional name(s) & address(es) attached?  Yes  No

10511 U.S. PTO  
09/240110  
01/29/99

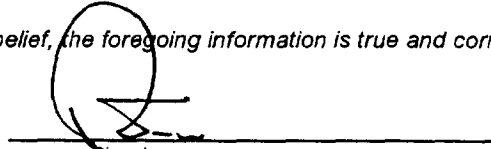
3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other:  
Execution Date: Nov. 9, 1998

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: Nov. 9, 1998  
A. Patent Application No(s):  
**09/240110**  
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**  
**Bloomfield Hills, Michigan 48032**

6. Total number of applications and patents involved: **one**  
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**  
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Total number of pages including cover sheet, attachments, and document: 3

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03 FC:581 40.00 OP  
Mail documents to be recorded with required cover sheet information to:  
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PATENT  
REEL: 9770 FRAME: 0279

ASSIGNMENT

WHEREAS, we, CHI-WEI CHANG AND CHUNG-YI LEE, have invented certain improvements in APPARATUS FOR DETECTING WAFER EDGE DEFECTS 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, CHI-WEI CHANG AND CHUNG-YILEE, 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 9th day of November, 1948, 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.

*Chi-Wei Chang*  
\_\_\_\_\_  
CHI-WEI CHANG

*Chung-Yi Lee*  
\_\_\_\_\_  
CHUNG-YI LEE

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