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To the Honorable Commissioner of Patents and Trademarks, File attached original documents or copy thereof

1 Name of conveying party(ies):

Chen-Chun Lee
Chih-Chieh Wang
Hon-Yi Chang
Chun-Huei Fan

7-24-02

3 Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other:
 Execution Date: Jan. 17, 2002

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

JC971 P.S. PTO
10/202215
07/24/02

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: 01-17-02

A. Patent Application No(s). 10,202215

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

07/29/2002 MGBREM1 00000027 10202215
02 FC:581 40.00 DP

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

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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 June 4, 2002
 Name of Person Signing Signature Date
 Registration No. 31,311

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

PATENT
REEL: 013132 FRAME: 0696

ASSIGNMENT

WHEREAS, we, CHEN-CHUN LEE, CHIH-CHIEH WANG, HON-YI CHANG and CHUN-HUEI FAN, have invented certain improvements in

REAL TIME MONITOR METHOD AND SYSTEM

FOR EXTRACTION ELECTRODE

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, CHEN-CHUN LEE, CHIH-CHIEH WANG, HON-YI CHANG and CHUN-HUEI FAN, 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 17th day of Jan, 2002, 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.

Chen chun Lee .
CHEN-CHUN LEE

Chih chieh Wang
CHIH-CHIEH WANG

Hon-Yi Chang
HON-YI CHANG

Chun-Huei Fan
CHUN-HUEI FAN

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