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 COVER SHEET U.S. DEPARTMENT OF COMMERCE  
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To the Honorable Commissioner of Patents and Trademarks

with the attached original documents or copy thereof.

## 1 Name of conveying party(ies):

 Kun-Yi Liu  
 Chin-Chuan Hsieh  
 Ching-Ming Chen

08/29/01

## 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.

## 3 Nature of conveyance:

- ☒ Assignment      ☐ Merger  
☐ Security Agreement      ☐ Change of Name  
☐ Other:  
 Execution Date: July 15, 2001

Additional name(s) & address(es) attached ☐ Yes ☒ No
 U.S. PTO  
 09/14/01  
 08/29/01

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

09/941538

If this document is being filed together with a new application, the execution date of the application is: 07-15-01

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 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

 Aug. 29, 2001  
 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

67,200-511

 PATENT  
 REEL: 012159 FRAME: 0263

**ASSIGNMENT**

WHEREAS, we, KUN-YI LIU, CHIN-CHUAN HSIEH and CHING-MING CHEN  
have invented certain improvements in  
OPTICAL PROXIMITY CORRECTION VERIFICATION MASK  
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, KUN-YI LIU, CHIN-  
CHUAN HSIEH and CHING-MING CHEN, 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 15 day of Jul., 2001,  
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.

*Kun-Yi Liu*

KUN-YI LIU

*CHIN-CHUAN Hsieh*

CHIN-CHUAN HSIEH

*CHING-MING CHEN*

CHING-MING CHEN

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