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102549607

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

1. Name of conveying part(ies): **9-4-03**

(1) Jui-An SHIH (4) Hui-Tang LIU  
 (2) Shun-An CHEN (5) James YOU  
 (3) Ko-Pin CHANG

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)

Name: Taiwan Semiconductor Manufacturing Co., Ltd.

Street Address: No. 8, Li-Hsin Rd. 6,  
 Science-Based Industrial Park  
 Hsin-Chu, Taiwan 300-77  
 R.O.C.

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other:

Execution Date: (1-4) August 11, 2003; (5) August 27, 2003

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

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:  
 (1-4) August 25, 2003; (5) August 27, 2003

A. Patent application No.(s) **10655049** B. Patent No.(s)

Additional numbers attached?  Yes  No

16235 U.S. PTO  
 10/655049

09/04/03

5. Name and address of party to whom correspondence concerning document should be mailed:

**Daniel R. McClure**  
**Thomas, Kayden, Horstemeyer & Risley, L.L.P.**  
 100 Galleria Parkway, Suite 1750  
 Atlanta, Georgia 30339-5948

6. Total number of applications/patents involved: [ 1 ]

7. Total fee (37 CFR 3.41) \$ 40.00

Enclosed  
 Authorization to charge credit card (attached)

8. Deposit Account Number:  
 20-0778  
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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.*

**Daniel R. McClure** *[Signature]* **Sept 4, 2003**  
 Typed Name Signature Date

Docket #: 252011-1650 Total 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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 P.O. Box 1450  
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# ASSIGNMENT

WHEREAS, Jui-An SHIN, Shun-An CHEN, Ko-Pin CHANG, Hui-Tang LIU and James YOU hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: DUAL ID VERIFICATION SYSTEM AND SWITCHING METHOD THEREFOR

Filed: \_\_\_\_\_ Serial No. \_\_\_\_\_

Executed on: August 25, 2003 and August 27, 2003

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of 121, Park Ave. III, Science-Based Industrial Park, Hsin-Chu 300, Taiwan, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

Jui-An Shih

Jui-An SHIH

8 / 11 / 2003

Date:

Shun-An Chen

Shun-An CHEN

Aug. 11 2003

Date:

**ASSIGNMENT**


Ko-Pin Chang  
Ko-Pin CHANG

8/11/2003  
Date:

Hui-Tang Liu  
Hui-Tang LIU

8/11/2003  
Date:

James You  
James YOU

 8/27/2003  
Date: