

8/23/05

09-01-2005

RECO



103072682

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

- 1) Hung-Wen SU
- 2) Shih-Wei CHOU
- 3) Ming-Hsing TSAI

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) August 15, 2005

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

2. Name and address of receiving party(ies)

Name: Taiwan Semiconductor Manufacturing Co., Ltd.

Internal Address: _____

Street Address: No. 8, Li-Hsin Rd. 6

Science-Based Industrial Park

City: Hsin-Chu

State: _____

Country: Taiwan, R.O.C. Zip: 300-77

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

112949 U.S. PTO
11/21/0226
082305

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

08/26/2005 JBALINAN 00000087 11210226

04 FC:802

40.00 DP

Additional numbers attached? Yes No

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

Name: Daniel R. McClure

Internal Address: Thomas, Kayden, Horstemeyer & Risley, LLP

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Email Address: dan.mcclure@tkhr.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers 1009
Expiration Date 07/09

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

Daniel R. McClure

Signature

Aug 23, 2005

Date

Daniel R. McClure
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

ASSIGNMENT

WHEREAS, Hung-Wen SU, Shih-Wei CHOU and Ming-Hsing TSAI 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: SEMICONDUCTOR DEVICE AND METHOD FOR FORMING THE SAME

Filed: _____ Serial No. _____

Executed on: August 15, 2005

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, 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.

TSMC2004-0010/0503-A30564US

PATENT
REEL: 016928 FRAME: 0430

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

Hung-Wen Su
Hung-Wen SU

8/15/05'
Date:

Shih-Wei Chou
Shih-Wei CHOU

8/15/2005
Date:

Ming-Hsing Tsai
Ming-Hsing TSAI

8/15/05'
Date: