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OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office



102833230

9-2-04

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)/Execution Date(s):**  
Ching-Long LIN (08/17/2004) and Fu-Tao HO (08/17/2004)

Execution Dates: in parentheses after inventor name

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

**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, Republic of China Zip: 300-77

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

**3. Nature of Conveyance:**

- Assignment  Merger
- Security Agreement  Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

**4. Application or patent number(s):**

A. Patent Application No.(s)  
NEW

101932010

Additional numbers attached?  Yes  No

This document is being filed together with a new application.

B. Patent No.(s)

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

Name: Joe McKinney Muncy  
BIRCH, STEWART, KOLASCH & BIRCH, LLP

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**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 to 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 \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_  
Authorized User Name \_\_\_\_\_

**9. Signature.**

*Joe McKinney Muncy*  
Signature

September 2, 2004

Date

Joe McKinney Muncy - 32,334

Name of Person Signing

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

2

KM/nl

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**PATENT**  
**REEL: 015763 FRAME: 0191**

**ASSIGNMENT**

WHEREAS, Ching-Long LIN and Fu-Tao HO  
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: POLISHING PAD CONDITIONER AND MONITORING METHOD THEREFOR  
Filed: NEW Serial No. NEW  
Executed on: August 17, 2004

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.

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

Ching-Long Lin  
Ching-Long LIN

Aug. 17. 2004  
Date:

Fu-Tao Ho.  
Fu-Tao HO

Aug. 17. 2004  
Date:

TSMC2003-1223/0503-A30320US