

04/29/04

05-04-2004

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17548 U.S. PTO
10/834012



042904

1. Name of conveying party(ies):
[FAMILY NAME (ALL CAPS), Given Name]
ANG, Kern-Huat

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: ZIP:

Country: **Taiwan R.O.C.** Postal Code: **300-77**

Additional name(s) of conveying party(ies) attached?
 YES NO

Additional name(s) & address(es) attached? YES NO

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other:

Execution Date: **April 9, 2004**

4. Application number(s) or patent number(s): **10/834012**

If this document is being filed together with a new application, the execution date of the application is: **April 9, 2004**

A. Patent Application No(s).
NEW

B. Patent No(s).

Additional numbers attached? YES NO

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **BIRCH, STEWART, KOLASCH & BIRCH, LLP**
Street Address: **P.O. BOX 747**
City: **FALLS CHURCH** State: **VA** ZIP: **22040-0747**
Country: **USA**

6. Total No. of applications/patents involved: **One (1)**

7. Total fee (37 C.F.R. § 3.41): **\$40.00**

- Enclosed
- Authorized to be charged to deposit account, **if no fee attached.**

8. Deposit account number: 02-2448

(Attach triplicate copy of this page if paying by deposit account)

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9. Statement and signature.

Joe McKinney Muncy, #32,334
Name of Person Signing/Reg. No.

Joe McKinney Muncy
Signature

April 29, 2004
Date

Total number of pages including cover sheet, attachments, and document: **Two (2)**

04/30/2004 SZEWDIE1 00000014 10834012

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ASSIGNMENT

WHEREAS, Kern-Huat ANG 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: MEMORY CELL AND METHOD OF FABRICATING THE SAME
Filed: April 29, 2004 Serial No. NEW
Executed on: April 9, 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.



Kern-Huat ANG



Date: