

03/10/04

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FORM PTO-1595

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



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102698890

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

17548 U.S. PTO
101797224



1. Name of conveying part(ies):

- (1) Zhen-Cheng WU
- (2) Tzu-Jen CHOU
- (3) Weng CHANG
- (4) Yung-Cheng LU
- (5) Syun-Ming JANG
- (6) Mong-Song LIANG

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.

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

3. Nature of conveyance:

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

Execution Date: December 4, 2003

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

101797224

If this document is being filed together with a new application, the execution date of the application is:
December 4, 2003

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:

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

3-10-04

Typed Name

Signature

Date

Docket #: 252011-2000

Total number of pages including cover sheet, attachments, and document: [3]

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PATENT
REEL: 015094 FRAME: 0176

ASSIGNMENT

WHEREAS, Zhen-Cheng WU, Tzu-Jen CHOU, Weng CHANG,
Yung-Cheng LU, Syun-Ming JANG, Mong-Song LIANG
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: COPPER INTERCONNECTS

Filed: _____ Serial No. _____

Executed on: December 4, 2003

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.

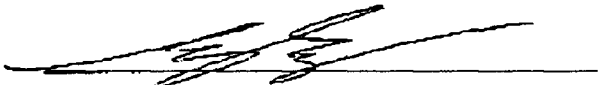
IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

Zhen-Cheng WU
Zhen-Cheng WU

12/4/2003
Date:

Tzu-Jen Chou
Tzu-Jen CHOU


12/4/2003
Date:


Weng CHANG

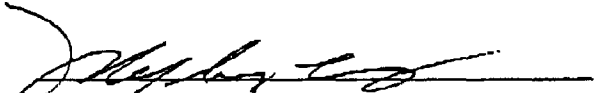
12/04, 2003
Date:


Yung-Cheng LU

12/04/03
Date:


Syn-Ming JANG

12/4/03
Date:


Mong-Song LIANG

12/4/03
Date: