

04-19-2004

FORM PTO-1595

(Rev. 10/02)

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



EET

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102724489

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

1. Name of conveying part(ies):

(1) Rong-Hui KAO (3) Yen-Ming CHEN
(2) Chang-Sheng TSAO (4) Lin-June WUAdditional 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 ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: March 22, 2004

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

10821438

If this document is being filed together with a new application, the execution date of the application is:
March 22, 2004

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

Typed Name

Signature

4-9-04

Date

Docket #: 252011-2210

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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Alexandria, VA 22313-1450PATENT
REEL: 015207 FRAME: 0717

ASSIGNMENT

WHEREAS, Rong-Hui KAO, Chang-Sheng TSAO, Yen-Ming CHEN
and Lin-June WU
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: SIDEWALL SPACER FOR SEMICONDUCTOR DEVICE AND FABRICATION
METHOD THEREOF

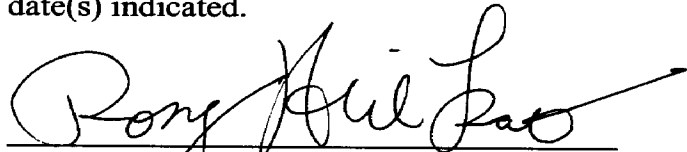
Filed: _____ Serial No. _____
Executed on: March 22, 2004

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.

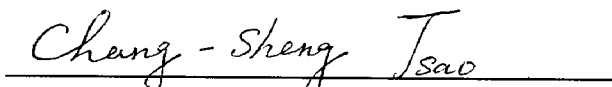
Assignor further agrees/agree that he/she/they will, without charge to said
Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said
application and/or applications, execute, verify, acknowledge and deliver all such further
papers, including applications for Letters Patent 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.



Rong-Hui KAO

3/22 2004
Date: _____



Chang-Sheng TSAO

3/22 2004
Date: _____

TSMC2003-1656/0503-A30442US

Yen-Ming Chen.
Yen-Ming CHEN

3/22. 2004
Date

Lin-June Wu
Lin-June WU

3/22 2004
Date

TSMC2003-1656/0503-A30442US

RECORDED: 04/09/2004

PATENT
REEL: 015207 FRAME: 0719