

09-11-2001

Atty. Docket No.: 0941-0322P
Page 1 of 1



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J1017 U.S. PTO
09/942785
08/31/01

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

1. Name of conveying party(ies):

KER, Ming-Dou
CHANG, Hun-Hsien
WANG, Wen-Tai

08/31/01

Additional name(s) of conveying party(ies) attached?

YES NO

2. Name and address of receiving party(ies)

Name: TAIWAN SEMICONDUCTOR
MANUFACTURING CO., LIMITED

Internal Address:

Street Address: 121, Park Ave. III, Science-Based
Industrial Park

City: Hsin-Chu State: ZIP:

Country: TAIWAN, R.O.C. Postal Code: 300

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

3. Nature of conveyance:

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

Execution Date: July 31, 2001, July 31, 2001, and July 23, 2001, respectively.

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

If this document is being filed together with a new application, the execution date of the application is: July 31, 2001, July 31, 2001, and July 23, 2001, respectively.

A. Patent Application No(s).

NEW

B. Patent No.(s).

09/942785

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

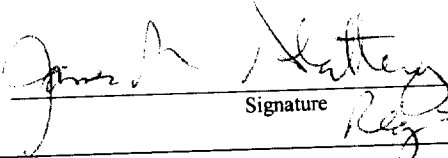
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9. Statement and signature.

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.


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


Signature
Reg # 28380

August 31, 2001
Date

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

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(Rev. 06/29/01)

PATENT
REEL: 012142 FRAME: 0368

ASSIGNMENT

WHEREAS, Ming-Dou KER, Hun-Hsien CHANG and Wen-Tai WANG 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: CDM ESD PROTECTION DESIGN USING DEEP N-WELL STRUCTURE
Filed: August 31, 2001 Serial No. NEW
Executed on: July 31, 2001, July 31, 2001, and July 23, 2001, respectively.

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of 121, Park Ave. III, Science-Based Industrial Park Hsin-Chu 300, Taiwan, 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.

Ming-Dou Ker

Ming-Dou KER

July 31, 2001

Date:

Hun-Hsien Chang

Hun-Hsien CHANG

July 31, 2001

Date:

Wen-Tai Wang

Wen-Tai WANG

7/23/2001

Date: