



06-30-2003



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

1. Name of conveying party(ies):

- 1) Juing-Yi Cheng
- 2) T. L. Lee
- 3) Chia Lin Chen

6-23-03

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other _____

Execution Date: 06/13/2003

2. Name and address of receiving party(ies)

Name: Taiwan Semiconductor Manufacturing Co., Ltd.

Internal Address: _____

Street Address: 121 Park Avenue 3

Science Based Industrial Park

City: Hsin-Chu State: _____ Zip: _____

Country: Taiwan, R.O.C.

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

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: _____

A. Patent Application No.(s) 10/330,850

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: William H. Murray, Esquire

Internal Address: Duane Morris LLP

06/25/2003 SZEWIDIE1 00000105-10330050

40.00 OP

Street Address: One Liberty Place

City: Philadelphia State: PA Zip: 19103

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed
- ☐ Authorized to be charged to deposit account

8. Deposit account number:

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9. Signature.

Joseph A. Powers, Esquire

Name of Person Signing

Joseph A. Powers
Signature

06/20/2003

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 014211 FRAME: 0741

ASSIGNMENT AND AGREEMENT

For value received, we, **Juing-Yi Cheng, T.L. Lee and Chia Lin Chen**, hereby sell, assign and transfer to **Taiwan Semiconductor Manufacturing Co., Ltd.**, with its principal place of business located at 121 Park Avenue 3, Science-Based Industrial Park, Hsin-Chu Taiwan, R.O.C., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **METHOD OF FORMING NITROGEN ENRICHED GATE DIELECTRIC WITH LOW EFFECTIVE OXIDE THICKNESS** described in an application for Letters Patent of the United States Serial No. 10/330,850 filed December 27, 2002, and all the rights and privileges in said applications and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Taiwan Semiconductor Manufacturing Co., Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Taiwan Semiconductor Manufacturing Co., Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Taiwan Semiconductor Manufacturing Co., Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Taiwan Semiconductor Manufacturing Co., Ltd. may designate.

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PATENT

REEL: 014211 FRAME: 0742

Docket No. N1085-00003
[TSMC 2002-0237]

We agree that, when requested, we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Dated: 06/13/2003

Juing-Yi Cheng
Juing-Yi Cheng

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TAIWAN

Dated: 06/13/03

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Dated: 06/13/03

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