

02-18-2005

Form PTO-1595
(Rev. 10/02)

RECORDATION
PA



DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

102944796

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼

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

1. Name of conveying party(ies):

Chen-Nan Yeh
Miao-Ju Hsu
Hun-Jan Tao

2. Name and address of receiving party(ies)

Name: Taiwan Semiconductor Manufacturing Co., Ltd.

Internal Address: _____

Street Address: No. 8, Li-Hsin Road 6

Science-Based Industrial Park

City: Hsin-Chu State: _____ Zip: _____

Country: Taiwan, 300-77 R.O.C.

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

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

3. Nature of conveyance:

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

Execution Date: 01/31/2005

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: 01/31/2005

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:

Name: William H. Murray

Internal Address: _____

Street Address: Duane Morris LLP

One Liberty Place

City: Philadelphia State: PA Zip: 19103-7396

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:

04-1679

DO NOT USE THIS SPACE

9. Signature.

Steven E. Koffs
Name of Person Signing

Steven E. Koffs
Signature

February 8, 2005
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

02/17/2005 6TOM11 00000031 041679 11053018

01 FC:0021 | 40.00 DA |

112963 U.S. PTO
11/053018

020805

EXPRESS MAIL LABEL NO. EV 516214815 US

ATTORNEY DOCKET NO.: 2004.0651/1085.00322

ASSIGNMENT AND AGREEMENT

For value received, we, **Chen-Nan Yeh, Miao-Ju Hsu, and Hun-Jan Tao** hereby sell, assign and transfer to **Taiwan Semiconductor Manufacturing Co., Ltd.**, with its principal place of business located at No. 8, Li-Hsin Road 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China, 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 **POST ETCH COPPER CLEANING USING DRY PLASMA** described in an application for Letters Patent of the United States 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.

EXPRESS MAIL LABEL NO. EV 516214815 US

ATTORNEY DOCKET NO.: 2004.0651/1085.00322

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.

Inventor No. 1

Dated: 1/31/2005

Chen-Nan Yeh
Chen-Nan Yeh

Residence: 172 Ming-Feng Street, Hsi-Chih, Taipei County, Taiwan, R.O.C.

Inventor No. 2

Dated: 1/31/2005

Miao-Ju Hsu
Miao-Ju Hsu

Residence: No.94 Da-tung rd, Bei-kong, Yun-lin county, Taiwan, R.O.C.

Inventor No. 3

Dated: 1/31/2005

Hun-Jan Tao
Hun-Jan Tao

Residence: 13F-3, No 17, Lane 175, Wu-Ling Rd, HsinChu, Taiwan, ROC