

16.505

10-17-2005



103100927

To the Honorable Commissioner of Patents and Trademarks: Please record this document or copy thereof.

1. Name of conveying party(ies): Shih-Ming Chang, Chen-Yuan Hsia, Wen-Chuan Wang, Chi-Lun Lu, Yen-Bing Huang, Chang-Cheng Hung, Chia-Jen Chen, Kai-Chung Liu, Hsin-Chang Lee and Hong Chang Hsieh

2. Name and address of receiving party(ies) Name: Taiwan Semiconductor Manufacturing Co., Ltd. Internal Address: Street Address: No. 8, Li-Hsin Road 6

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

3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other

Science Based Industrial Park City: Hsin-Chu State: Taiwan Zip: 300-77 Additional name(s) & address(es) attached? [ ] Yes [X] No

Execution Date: 8/17/05, 9/7/05, 9/14/05, 9/15/05, 9/19/05, 9/27/05 and 10/5/05

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: 10/05/2005 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Howard Chen, Esq. Internal Address: Street Address: Preston Gates & Ellis LLP 55 Second Street, Suite 1700 City: San Francisco State: CA Zip: 94105

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 [X] Enclosed [ ] Authorized to be charged to deposit account 8. Deposit account number:

DO NOT USE THIS SPACE

9. Signature: Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: [X] 5

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

112819 U.S. PTO 11/244601



100505

**JOINT ASSIGNMENT AND AGREEMENT**

For value received, I/we, **Shih-Ming Chang, Chen-Yuan Hsia, Wen-Chuan Wang, Chi-Lun Lu, Yen-Bin Huang, Chang-Cheng Hung, Chia-Jen Chen, Kai-Chung Liu, Hsin-Chang Lee and Hong Chang Hsieh**, 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 **DIMENSION MONITORING METHOD AND SYSTEM** described in an application for Letters Patent of the United States filed on ~~XXXXXXXXXX~~ 10/05, 2005 and all the rights and privileges in said application 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 I/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.

I/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 me/us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I/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.

I/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.

I/We agree that, when requested, I/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: Aug. 17, 2005   
Shih-Ming Chang

Mailing and Residence: 7 Fl. No. 619, Nan-Da Rd., Hsin-Chu  
Taiwan

Citizenship: Taiwan


**Inventor No. 2:**

Dated: Sep. 7, 2005   
Chen-Yuan Hsia

Mailing and Residence: 2F., No. 46, Yuanhou ST., Hsinchu City 300  
Taiwan (ROC)

Citizenship:  Taiwan

**Inventor No. 3:**

Dated: Sep. 14, 2005   
Wen-Chuan Wang

Mailing and Residence:  2F., No. 32, Lane 211, Sec. 5,  
Roosevelt Rd., Wunshan District, Taipei City 116, Taiwan (R.O.)

Citizenship:  Taiwan.

**Inventor No. 4:**

Dated:  Sep. 14, 2005

Chi-Lun Lu

**Chi-Lun Lu**

Mailing and Residence:  No. 17, Lane 53, Jianguo 1st Rd, Hsinchu City  
300, Taiwan (R.O.C)

Citizenship:  Taiwan

**Inventor No. 5:**

Dated:  Sep. 14, 2005

Yen-Bin Huang

**Yen-Bin Huang**

Mailing and Residence:  8F., No. 111, Puding Rd., Hsinchu  
City, Taiwan (R.O.C)

Citizenship:  Taiwan

**Inventor No. 6:**

Dated:  Sept. 14, 2005

Chang-Cheng Hung

**Chang-Cheng Hung**

Mailing and Residence:  No. 16, Alley 2, Lane 58, Sinsheng St., Zhubei City  
Hsinchu City, Hsinchu County 302, Taiwan.

Citizenship:  Taiwan

**Inventor No. 7:**

Dated:  Sep. 15, 2005

Chia-Jen Chen

**Chia-Jen Chen**

Mailing and Residence:  3F, No. 19, Sanchong 1st Rd, Zhudong Town  
Hsinchu County 310, Taiwan (R.O.C.)

Citizenship:  Taiwan

Inventor No. 8:

Dated: ✓ Oct. 5, 2005

✓ Kai-Chung Liu  
Kai-Chung Liu

Mailing and Residence: ✓ No. 3, Sec. 1, Huan-shi Road, Taiwan Science-Based Industrial Park, Taiwan 24147 R.O.C

Citizenship: ✓ Taiwan

Inventor No. 9:

Dated: ✓ Sep. 19

✓ Hsin-Chang Lee  
Hsin-Chang Lee

Mailing and Residence: BF, NO. 26, Lane 3PK, Xianzhong 2nd Rd., Zhubei City, Hsinchu Country 302, Taiwan

Citizenship: ✓ Taiwan

Inventor No. 10:

Dated: ✓ 9/27/2005

✓ Hong-chang Hsieh  
Hong Chang Hsieh

Mailing and Residence: ✓ 9F, No 72-12, Lane 531, sec 1, Kung-Fu rd. Hsin-chu city 300, Taiwan

Citizenship: ✓ Taiwan