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To the Director of the U.S. Patent and Trademark Office	e: Please record the attached documents or the new address(e	es) below.
1. Name of conveying party(ies)	2. Name and address of receiving party(i	es)
Cheng-Yuan TSAl Chih-Lung LIN	Name: Taiwan Semiconductor Manufacturing Co., Li	td.
You-Hua CHOU	Internal Address:	<u> </u>
Additional name(s) of conveying party(ies) attached? Yes	Z No.	9.C
3. Nature of conveyance/Execution Date(s):	Street Address: No. 8, Li-Hsin Rd. 6	ე. წ
Execution Date(s) 7/4/05; 6/17/05; 6/16/05	Science-Based Industrial Park	261
✓ Assignment	Science-based industrial Park	+ +
Security Agreement Change of Nar	me City: Hsin-Chu	
Joint Research Agreement	State:	
Government Interest Assignment		·
Executive Order 9424, Confirmatory License	Country: Taiwan, R.O.C. Zip:300-77	
Other	Additional name(s) & address(es) attached?	Yes 🗸
5. Name and address to whom correspondence		
		nts
concerning document should be mailed:		nts
concerning document should be mailed:	6. Total number of applications and pater	
concerning document should be mailed: Name:Daniel R. McClure Internal Address:Thomas, Kayden, Horstemeyer &	6. Total number of applications and pater involved: 1	00
Concerning document should be mailed: Name: Daniel R. McClure Internal Address: Thomas, Kayden, Horstemeyer &	6. Total number of applications and pater involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.0 Authorized to be charged by credit card Authorized to be charged to deposit according to the charged to the charged to deposit according to the charged to deposit according to the charged to the charged to deposit according to the charged to the charged to deposit according to the charged to the charged to the charged to the charged to deposit according to the charged to the cha	 00 d
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Concerning document should be mailed: Name: Daniel R. McClure Internal Address: Thomas, Kayden, Horstemeyer & Risley, LLP Street Address: 100 Galleria Parkway	6. Total number of applications and pater involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.0 Authorized to be charged by credit card Deposit according and Deposit according Enclosed None required (government interest not at Deposit according to the charged to the charged to deposit according to the charged	- 00 d count
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Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

WHEREAS, Cheng-Yuan TSAI, Chih-Lung LIN, and You-Hua CHOU 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:	METHOD	FOR	FORMING	A	HIGH	DENSITY	DIELECTRIC	FILM	BY	CHEMICAL	VAPOR
	DEPOSI	TION									
Filed:						Se	erial No.				
Execut	ed on:	July 4,	2005								

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.

Assigner 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.

TSMC2003-1719/0503-A30363US

PATENT REEL: 016783 FRAME: 0779

Cheng-Yuan (59) Cheng-Yuan (75AI	2005/7/4 Date:
Chih-Lung LIN	Date:
You-Hua CHOU	Date:

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

eng-Yuan TSAI	Date:
Lin Chil-Lung ih-Lung LIN	6/17/2005 Date:

Cheng-Yuan TSAI	Date:
Chih-Lung LIN	Date:
you-hua Chou	June 16, 2005
You-Hua CHOU	Date:

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

PATENT REEL: 016783 FRAME: 0782