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9. Signature:

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Joe McKinney Muncy - 32,334

Name of Person Signing

November 22, 2004

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

Form PTO-1595	RECORDATION FORM COVER SHEET (CONTINUED)	
Additional Conveying	Party(ies)/Execution Date(s) (1. Continued):	
T.H. LIN (11/09/2004)		

Docket No.: 0941-1078PUS1

## **ASSIGNMENT**

WHEREAS, Yung-Sung YEN, Kuei-Shun	CHEN, Chia-Hsiang LIN,		
Lawrence LIN and T. H. LIN			
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 OF IMPROVING VIA FILLING U	NIFORMITY IN ISOLATED AND		
DENSE VIA-PATTERN REGIONS	MILOMITAL THE TROUBLE THE		
Filed: November 22, 2004 Serial No. NEW			
Executed on: November 9, 2004	7. N.F.W		
Executed off.			
WHEREAS, Taiwan Semiconductor Ma	nufacturing Co., Ltd. of		
No. 8, Li-Hsin Rd. 6, Science-Based I	ndustrial 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 at	and application and in any U.S. Letters		
Patent which may be granted on the same;			
·			
NOW, THEREFORE, TO ALL WHOM IT MA			
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 successor	rs and assigns, all his/her/their rights,		
title and interest in and to the said invention and app	lication and all future improvements		
thereon, and in and to any Letters Patent which may he			
United States, the said interest to be held and enjoyed by			
as it would have been held and enjoyed by said Assignor			
been made, to the full end and term of any Letters Paten	t 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/			
Assignee, but at Assignee's expense, cooperate with			
application and/or applications, execute, verify, acknowledge			
papers, including applications for Letters Patent and for			
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.			
DI EECEDIONI NATIONALI III			
IN TESTIMONY WHEREOF, Assignor has/have	signed his/her/their name(s) on the		
date(s) indicated.			
14 / 11			
V Yung-Sung You	(1/9 09'		
Yung-Sung YEN	Date:		
	Date.		
I Reigi - Show Chan	1/2		
1/	17 04		
Kuei-Shun CHEN	Date:		

TSMC2004-0632/0503-A30921U5

T. H. LIN

TSMC2004-0632/0503-A30921US

**PATENT REEL: 016009 FRAME: 0979**