OMB No. 0651-0027 (exp. 6/30/2005) United States Patent and Trademark Office						
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.						
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents of the flew address(es) below. 1. Name of conveying party(ies) 2. Name and address of receiving party(ies)						
Wen-Chi CHIEN	Name: Taiwan Semiconductor Manufacturing Co., Ltd.					
Yu-Wen LIN Shin-Ho CHIU	Internal Address:					
G	7					
Additional name(s) of conveying party(ies) attached? Yes 🗸 N						
3. Nature of conveyance/Execution Date(s):	Street Address: No. 8, Li-Hsin Rd. 6					
Execution Date(s) 12/15/05; 12/16/05; 12/15/05	Science-Based Industrial Park					
Assignment Merger	City: Hsin-Chu					
Security Agreement Change of Name						
Joint Research Agreement	State:					
Government Interest Assignment	Country: Taiwan, R.O.C. Zip:300-77					
Executive Order 9424, Confirmatory License Other	n. a.					
	Additional name(s) & address(es) attached? Yes V N a document is being filed together with a new application					
Additional numbers	attached? TYes VNo					
Additional numbers : 5. Name and address to whom correspondence	attached? Yes No 6. Total number of applications and patents					
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5. Name and address to whom correspondence	6. Total number of applications and patents					
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1					
5. Name and address to whom correspondence concerning document should be mailed: Name: Daniel R. McClure	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00					
5. Name and address to whom correspondence concerning document should be mailed: Name: Daniel R. McClure Internal Address: Thomas, Kayden, Horstemeyer &	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card					
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PATENT REEL: 017441 FRAME: 0419

ASSIGNMENT

WHEREAS, Wen-Chi CHIEN, Yu-Wen LIN, and Shih-Ho CHIU 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:	SEMICONDUCTOR	WORK-IN-PROCESS	(WIP) DISPATCH	MANAGEMENT	METHODS	AND
	SYSTEMS				· · · · · · · · · · · · · · · · · · ·	
Filed:	Serial No					
Executed on: December 15, 200			005 and December 16, 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.

TSMC2004-1215/0503-A31395US

PATENT REEL: 017441 FRAME: 0420

Wen-Chi Chien	<u>2005/12/15</u>
Wen-Chi CHIEN	Date:
Yu-Wen LIN	Date:

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

TSMC2004-1215/0503-A31395US

RECORDED: 01/03/2006

PATENT REEL: 017441 FRAME: 0421

2005/12/15