	Form PTO-1595 (Rev. 03-05) OMB No. 0651-0027 (exp. 6/30/2005)  03 - 27 -	2007 U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office						
	To the Director of the U.S. Patent 2 103387	7449 cuments or the new address(es) below.						
	Name of conveying party(ies):	2. Name and address of receiving party(les)  TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.  Internal Address:  Street Address:  No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park						
	Tzyh-Cheang LEE							
	Additional name(s) of conveying party(ies) attached? Yes X No							
	3. Nature of conveyance/Execution Date(s):							
	Execution Date(s): March 6, 2007							
	X Assignment Merger Change of Name							
	Security Agreement Joint Research Agreement	City: Hsin-Chu State:						
•	Government Interest Assignment							
·	Executive Order 9424, Confirmatory License	Country: Taiwan ROC Zip:300-77						
	Other	Additional name(s) & address(es) Yes X No attached:						
	4. Application or patent number(s):	This document is being filed together with a new application.						
	A. Patent Application No.(s)	B. Patent No.(s)						
	NEW							
3/16/2007 WABDELR1	00000036 11724283							
4 FC:8021	40.00 QP Additional numbers attached?	Yes X No						
	5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:						
	Name: Joe McKinney Muncy BIRCH, STEWART, KOLASCH & BIRCH, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00						
	Internal Address: Atty. Dkt.: 0941-1903PUS1	Authorized to be charged by credit card						
	Street Address: 8110 Gatehouse Road Suite 100 East	Authorized to be charged to deposit account						
	P.O. Box 747	X Enclosed						
		None required (government interest not affecting title)						
	City: Falls Church	B. Payment Information						
	State: VA Zip: 22040-0747 Phone Number: (703) 205-8026	a. Credit Card Last 4 Numbers  Expiration Date						
	Fax Number: (703) 205-8050	b. Deposit Account Number						
	Email Address: mailroom@bskb.com	Authorized User Name						
	9. Signature:							
	15 and (. 1	March 15, 2007						
	Signature  Joe McKinney Muncy - 32,334	Date Total number of pages including cover 3						
	Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:						
	For	443 368						

Birch, Stewart, Kolasch & Birch, LLP

KM/eap

## ASSIGNMENT

	WHERE	EAS,	Tzyh-Cheang	LEE_hereafter	referred	to as ASSIGN	NOR, has/hav	e invented
certai	n new an	d use	ful improvements as	described and set	forth in th	e below identifi	ed application	ı for United
States	s Letters I	Patent	:					
Title:	MEMOR	RY DI	EVICE AND METH	OD OF FABRIC	ATING 1	HE SAME		
Filed:		3/15	/07		erial No.	NEW		
			ch 6, 2007					
	WHERE	EAS,	Taiwan Semico	nductor Man	ıfacturi	ing Co., Lt	d. of No	. 8, Li-
Hsir	Rd.	6,	Science-Based	Industrial	Park,	Hsin-Chu,	Taiwan	300-77,
R.O.	C. her	einaft	er referred to as AS	SIGNEE, is desir	ous of acq	uiring ASSIGN	OR'S interest	in the said
			ation and in any U.S		_	<del>-</del>		

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.

Assignor 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.

TSMC2005-0573/0503-A31848US

PATENT REEL: 019088 FRAME: 0253 IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

Date:

TSMC2005-0573/0503-A31848US