	-2006	U.S. DEPARTMENT OF COMMERCE			
OMB No. 0651-0027 (exp. 6/30/2005)		United States Patent and Trademark Office			
		TSM05-0509			
10322	24528 -	ents or the new address(es) below.			
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Name of conveying party(ies)		9			
Tang Kok Hiang Ming-Ta Lei	Name: Taiwan Semiconductor Manufacturing Company				
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Additional name(s) of conveying party(ies) attached? Yes X No	Internal Address: 2571				
3. Nature of conveyance/Execution Date(s):	-	_			
Execution Date(s) <u>Hiang – 04/06/2006, Lei – 04/03/2006</u>	Chroot Address No	O Li Heir Del O			
X Assignment Merger	Street Address: No. 8, Li-Hsin Rd. 6				
Security Agreement Change of Name	Science-Based Industrial Park				
Joint Research Agreement	City: Hsin-Chu				
Government Interest Assignment					
Executive Order 9424, Confirmatory License	State:				
	Country: Taiwan, Ro	OC Zip: <u>300-77</u>			
Other	Additional name(s) & address(es) attached? Yes X No				
4 A	nic document is being filed	d together with a new application			
4. Application or patent number(s): A. Patent Application No.(s)	his document is being filed together with a new application. B. Patent No.(s)				
A. Tatent Application No.(s)	D. 1 a(c) (140.(3)				
Additional numbers a	ittached? Yes	X No			
5. Name and address to whom correspondence	6. Total number of	applications and patents			
concerning document should be mailed:	involved:	• •			
	7 Total foo /27 CEI	R 1.21(h) & 3.41) \$ 40.00			
Name: Steven H. Slater		•			
Slater & Matsil, L.L.P.	Authorized to be charged by credit card				
Internal Address:	X Authorized	to be charged to deposit account			
	- England	i			
Street Address: 17950 Preston Rd.	Enclosed				
Suite 1000	None requi	red (government interest not ægcting title)			
City: Dallas	8. Payment Inform	ation 🚆			
State: <u>Texas</u> Zip: <u>75252-5793</u>					
Phone Number: <u>972-732-1001</u>	a. Credit Card Las	st 4 Numbersbiration Date			
Fax Number: <u>972-732-9218</u>		S			
Email Address: slater@slater-matsil.com	b. Deposit Account I	Number <u>50-1065</u>			
14	Authorized User Na	me Steven H. Slater			
9. Signature: Signature		04/17/2006 Date			
Steven H. Slater, Reg. No. 35,361 Name of Person Signing Total number of pages including cover sheet, attachments, and documents:					
Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:					

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, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	Predictions of Leakage Modes in Integrated Circuits			
SIGNATURE OF INVENTOR AND NAME	Tang Kok Hiang	Ming-Ta Lei		
DATE	4/6/2006	APR/03'06		
RESIDENCE (City, County, State)	Singapore, Singapore	Hsin-Chu, Taiwan, R.O.C.		

TSM05-0509

RECORDED: 04/17/2006

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Assignment

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