Form PTO-1595 (Rev. 03/05) OMB No. 0651-0027 (exp. 6/30/2005)	04 45 (2005	U.S. DEPARTMENT OF COMM United States Patent and Tradem	
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To the Director of the U.S. Patent and	102981	689	documents or the new address(es) be	low.
1. Name of conveying party(ies) (1) Jui-Jung YAN (2) Chung-Min FU (3) Ricky YANG		Name: Taiwan Se	Idress of receiving party(ies) miconductor Manufacturing Co., Ltd. s:	112975 U.S. PTO 11/099834
][on Date(s): (2-3) March 15, 2005 Merger Change of Name ent atory License	Street Address: Science-Based Inc. City: Hsinchu State: Country: Taiwan, Additional name(state) document is bein B. Patent No.	R.O.C. Zip:300-77 S) & address(es) attached? Yes g filed together with a new applic.(s)	VN
5. Name and address to whom co concerning document should be	orrespondence		r of applications and patents	
Name:Daniel R. McClure		7. Total fee (37	CFR 1.21(h) & 3.41) \$ 40.00	
Internal Address: Thomas, Kayden, Horstemeyer & Risley, LLP Street Address: 100 Galleria Parkway Suite 1750		Authorized Authorized Enclosed	to be charged by credit card to be charged to deposit account	
		8. Payment In		
	0:30339	1	d Last 4 Numbers 1009 Expiration Date 07/05	
Phone Number: 770-933-9500 Fax Number: 770-951-0933 Email Address: dan.mcclure@tkhr.com			d User Name	
9. Signature:	Signature		1901/6, 200 Date	5
Daniel P	McClure	Т	otal number of pages including cover	

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

Name of Person Signing

PATENT

sheet, attachments, and documents:

REEL: 016453 FRAME: 0085

ASSIGNMENT

WHEREAS, Jui-Jung Yan, Chung-Mi	
hereafter referred to as ASSIGNOR, has/have invented cer	
described and set forth in the below identified application	for United States Letters Patent:
Title: ALTERNATIVE METHODOLOGY FOR DEFECTION Serial No.	
Executed on: March 28, 2005	
WHEREAS, Taiwan Semiconductor Man No. 8, Li-Hsin Rd. 6, Science-Based In Taiwan 300-77, R.O.C. hereinafter referred acquiring ASSIGNOR'S interest in the said invention and Patent which may be granted on the same;	ndustrial Park, Hsin-Chu, to as ASSIGNEE, is desirous of
NOW, THEREFORE, TO ALL WHOM IT MAY good and valuable consideration, receipt of which is Assignor has/have sold, assigned and transferred, and by transfer unto the said Assignee, and Assignee's successor title and interest in and to the said invention and applithereon, and in and to any Letters Patent which may her United States, the said interest to be held and enjoyed by said it would have been held and enjoyed by said Assignor been made, to the full end and term of any Letters Patent any division, renewal, continuation in whole or in paperolongation or extension thereof.	hereby acknowledged by Assignor, hese presents does/do sell, assign and is and assigns, all his/her/their rights, ication and all future improvements eafter be granted on the same in the said Assignee as fully and exclusively had this Assignment and transfer not which may be granted thereon, or of
Assignor further agrees/agree that he/she/the Assignee, but at Assignee's expense, cooperate with A application and/or applications, execute, verify, acknown papers, including applications for Letters Patent and for the assignment and transfer thereof, and will perform such request, to obtain or maintain Letters Patent for said involutible thereto in said Assignee, or Assignee's successors and	Assignee in the prosecution of said wledge and deliver all such further ne reissue thereof, and instruments of other acts as Assignee lawfully may ention and improvement, and to vest
IN TESTIMONY WHEREOF, Assignor has/have date(s) indicated.	signed his/her/their name(s) on the
Jui-Jung YAN	3/28. >= 05
Jui-Jung YAN	Date:
Chung-Min FU	Date:

TSMC2004-0778/0503-A31014US

PATENT REEL: 016453 FRAME: 0086

ASSIGNMENT

WHEREAS, Jui-Jung Yan, Chung-Min FU and Ricky YANG
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: ALTERNATIVE METHODOLOGY FOR DEFECT SIMULATION AND SYSTEM
Filed: Serial No
Executed on:March 15, 2005
WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of
· · · · · · · · · · · · · · · · · · ·
No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Faiwan 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, itle 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 capers, 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 itle thereto in said Assignee, or Assignee's successors and assigns. IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the
late(s) indicated.
Jui-Jung YAN Date:
Chung-min Fu 3/15, 2005
Chung-Min FU Date:

TSMC2004-0778/0503-A31014US

PATENT REEL: 016453 FRAME: 0087

Ricky	YANG	
Ricky YANG (ζ	

3/15,005

Date

TSMC2004-0778/0503-A31014US

RECORDED: 04/06/2005

PATENT REEL: 016453 FRAME: 0088