1 : 12/13/04	- 0004
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To the Honorable Commissioner of Patents and T	12909541 Original documents or copy thereof.
Name of conveying part(ies):	2. Name and address of receiving party(ies)
(1) Chen-Ting LIN (2) Chih-Hung WU (3) Mei-Yen LI	Name: Taiwan Semiconductor Manufacturing Co., Ltd.
Additional name(s) of conveying party(ies) attached? ⊠Yes ☐No	Street Address: No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77,
3. Nature of conveyance:	R.O.C.
Assignment	Additional name(s) & address(es) attached? Yes No
Execution Date: July 14, 2003	
Application number(s) or patent number(s):	
If this document is being filed together with a new applic July 14, 2003	cation, the execution date of the application is:
A. Patent application No.(s)	B. Patent No.(s)
A. Patent application No.(s) Additional numbers attach	· ·
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Additional numbers attach 5. Name and address of party to whom correspondence	ned? ☐ Yes ⊠No
Additional numbers attach 5. Name and address of party to whom correspondence	ned? ☐ Yes ⊠No 6. Total number of applications/patents involved: [1]
Additional numbers attach 5. Name and address of party to whom correspondence concerning document should be mailed: Daniel R. McClure Thomas, Kayden, Horstemeyer & Risley, L.L.P. 100 Galleria Parkway, Suite 1750	ned? ☐ Yes ☒No 6. Total number of applications/patents involved: [1] 7. Total fee (37 CFR 3.41) \$ 40.00 ☐ Enclosed
Additional numbers attach 5. Name and address of party to whom correspondence concerning document should be mailed: Daniel R. McClure Thomas, Kayden, Horstemeyer & Risley, L.L.P. 100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30333-5948	ned? ☐ Yes ☒No 6. Total number of applications/patents involved: [1] 7. Total fee (37 CFR 3.41) \$ 40.00 ☐ Enclosed ☐ Authorization to charge credit card (attached)
Additional numbers attach 5. Name and address of party to whom correspondence concerning document should be mailed: Daniel R. McClure Thomas, Kayden, Horstemeyer & Risley, L.L.P. 100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339-5948	ned? ☐ Yes ☒No 6. Total number of applications/patents involved: [1] 7. Total fee (37 CFR 3.41) \$ 40.00 ☐ Enclosed ☐ Authorization to charge credit card (attached) 8. Deposit Account Number: 20-0778 (Attach duplicate copy of this page if paying by Deposit Account)
Additional numbers attach 5. Name and address of party to whom correspondence concerning document should be mailed: Daniel R. McClure Thomas, Kayden, Horstemeyer & Risley, L.L.P. 100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339-5948 2004 LWOHDIN1 00000052 11010595 3021 40.00 OP	6. Total number of applications/patents involved: [1] 7. Total fee (37 CFR 3.41) \$ 40.00 Enclosed Authorization to charge credit card (attached) 8. Deposit Account Number: 20-0778 (Attach duplicate copy of this page if paying by Deposit Account) HIS SPACE
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Client's ref.: TSMC2002ALSIGNMENT File: 0503-9974US/d1/alicewu/Kevin/TKHR

Chih Hung Wu Chih-Hung WU

WHEREAS, Chen-Ting LIN, Chih-Hung WU and Mei-Yen LI 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: YIELD ANALYSIS METHOD Filed: Serial No. Executed on: July 14, 2003 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. 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. IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated. 2003/07/14 Date: Chen-Ting LIN

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PATENT

2003/07/14.

Date:

Client's ref.: TSMC2002-1195
File: 0503-9974US/d1/alicewu/Kevin/TKHR

Mei-Yen LI

RECORDED: 12/13/2004

July - 14 2003

Date: