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PATENT REEL: 015159 FRAME: 0110

	For X Application or U.S. Patent	
	By x Inventor(s) or Present Owner	
ASSIGNMENT OF INVENTION		
In consideration of the payment by ASSIGNE receipt of which is hereby acknowledged, and	EE to ASSIGNOR of the sum of One Dollar (\$1.00), the d for other good and valuable consideration,	
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YU-ZUNG CHIOU Type or print name of ASSIGNOR SF, No. 15, Alley so Lane 14>, Address Sec. b. Luostu Rol, Taipei, Taiwan lle Ro Reaublic of China Nationality	No.2, Gungkuan Rd., Wantuan Shiang,	
Republic of China Nationality	Republic of China Nationality	
Chen Ying Lieh Type or print name of ASSIGNOR (17-2, No. 88, Sec. 1, Junghaa E.Rd. Address Dung Chu, Tainan, Taiwan 701, R.O.C. Nationality ASSIGNEE: Taiwan Semiconductor Manufacturing Co. 121 Park Ave. 3	5Fl3, No. 66, Minde Rd., Judung Jen, Address Hsinchu, Taiwan Republic of China Nationality	
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U.S. patent application executed on even date herewith (a) U.S. patent application executed on _____ (b) U.S. application serial no. filed on (c) issued (d) U.S. patent no. (also check (e) if foreign application(s) is also being assigned) and any legal equivalent thereof in a foreign country, including the right to clam priority (e) and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof. ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. IN WITNESS WHEREOF, I / We have signed this Oct. 8, 2001 _____(Date of signing) WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above. If ASSIGNOR is a legal entity complete the following information Type or print the name of the above person authorized to sign on behalf of ASSIGNOR Title No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC

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261). Use next page if notarization is desired.

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