09-10-1999 RF U.S. DEPT. OF COMMERCE Patent and Trademark FORM PTO~1595 Office 101140347 TSMC98-802 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original accuments or copy thereof. Name of conveying party(ies): Name and address of receiving party(ies): CHIA-HUI LIN AND SAN-DE TZU Name: Taiwan Semiconductor Manufacturing Company Internal Address: Additional name(s) or conveying party(ies) attached? Street Address: 3. Nature of conveyance 121 Park Ave. 3 Science-Based Industrial Park Assignment Merger City: Hsin-Chu Country: Taiwan, R.O.C. Security Agreement Change of Name other Execution Date: 8/11/99 Additional name(s) & address(es) attached? Yes X No 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: 8/11/99 A. Patent Application No(s) B. Patent No.(s) Additional numbers attached? 5. Name and address of party to whom correspondence 6. Total no. of applications and patents involved:: 1 concerning document should be mailed: Name: GEORGE O. SAILE 7. Total fee (37 CFR 3.41): \$ 40.00 Internal Address: Enclosed Street Address: 20 MCINTOSH DRIVE Authorized to be charged to deposit acct. City: POUGHKEEPSIE State: NY ZIP: 12603 8 .Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE

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By X Inventor(s) or Present Owner		
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In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,		
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ASSIGNEE:		
Taiwan Semiconductor Manufacturing Co. Ltd. 121 Park Ave. 3 Science-Based Industrial Park Hsin-Chu, Taiwan, R.O.C. Taiwan, R.O.C. Nationality		
and the successors, assigns and legal representatives of the ASSIGNEE		
(complete one of the following)		
x the entire right, title and interest		
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in and to any and all improvements which are disclosed in the invention entitled:		
A New Method For Creating The Sub-Resolution Phase Shifting Pattern For Outrigger Type Phas		

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and which is found in		
(a) X U.S. patent application executed on even date herewith (b) U.S. patent application executed on		
	filed on	
(d) U.S. patent no.		
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(e) and any legal equivalent thereof in a foreign	country, including the right to clam priority	
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IN WITNESS WHEREOF, I / We have signed this		
Aug. 11 1999 (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.		
WARNING Date of signing must be the same as the date of executive significant sign	Signature of Assignor(s) San - De Tzu	
	Type or print the name of the above person authorized to sign on behalf of ASSIGNOR	

Note: No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired.

Title

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