FORM P1'0-1595 06 - 12 - 19	R SHEET AS DEPT. OF COMMERCE Patent and Trademark Office
TSMC97-540 LY	
To the Honorable Commissioner of F	original documents or copy thereof
1. Name of conveying party(ies):	25 Name and address of receiving party(ies).
1. Wanne of conveying party(les).	2. Name and address of receiving party(les).
SHAULIN SHUE AND MEI-YUN WANG 5-22-92	Name: Taiwan Semiconductor Manufacturing A Company
Additional name(s) or conveying party(ies) attached?	Internal Address Street Address
	Street Address
3. Nature of conveyance X Assignment Merger Security Agreement Change of Name	121 Park Ave. 3 Science-Based Industrial Park City: Hsin-Chu Zip: Country: Taiwan, R.O.C.
other	
Execution Date: <u>4/15/98</u>	Additional name(s) & address(es) attached? Yes X No
4. Application number(s) of patent number(s) 09/08	83,274
If this document is being filed together with a new application <u>A. Patent Application No(s)</u>	on, the execution date of the application is: 4/15/98 B. Patent No.(s)
Additional numbers attach	ned? Yes X No
5 Name and address of party to whom correspondence concerning document should be mailed:	6. Total no. of applications and patents involved : 1
Name: GEORGE O. SAILE	
Internal Address:	7 Total fee (37 CFR 3.41) \$ 40.00
. The state of the	Enclosed
Street Address 20 MCINTOSH DRIVE	X 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)
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9. Statement and signature . To the best of my knowledge and belief the foregoing inform of the original document STEPHEN B, ACKERMAN	nation is true and correct and any attached copy is a true copy
Name of Person Signing	Signature Date
	Total number of pages comprising cover sheet: 3

PATENT REEL: 9226 FRAME: 0930

	For X U.S. and/or X Foreign Rights
	For X Application or U.S. Patent
	By X Inventor(s) or Present Owner
ASSIGNMENT OF INVENTION	
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,	
ASSIGNOR:	
SHAULIN SHUE Type or print name of ASSIGNOR	MEI-YUN WANG Type or print name of ASSIGNOR
4F No.11 57 Alley 271 Lane	15Fot 2 No 46, Section >
Aidress'	15Fot 2, No. 46, Section > Address Chung-Hwa Rd , Hsinchu
Wu-Lin Ra. Fish	Change Than IV. , FISINOTIA
Republic of China Nationality	Republic of China
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	
	interest for the United States and its territorial possessions
(cneck the following box/r foreign and in all foreign countries	n rights are also to be assigned)
in and to any and all improvements which are disclosed in the invention entitled:	
Nulti-Step Deposition To Improve The Conformality Of Ionized PVD Films	
THE PERSON OF TH	

PATENT REEL: 9226 FRAME: 0931 and which is found in 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 U.S. patent no. (d) (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 4/15/ 1998 (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

PATENT

Notarization of Legalization Page Added

261). Use next page if notarization is desired.

Title

No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima face evidence (35 USC).