PATENT

REEL: 013131 FRAME: 0277

TS01-1567	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:	
TIEN-I BAO Type or print name of ASSIGNOR Tien-2 fr. Address Min-Kill Rol. High-Chil	BI-TRONG CHEN Type or print name of ASSIGNOR Bi-Trong Chen Address No. 12, Kuenning Tquen, Jianghun Shiang Tainan, Taiwan, R.C. C. Nationality
YING-HO CHEN Type or print name of ASSIGNOR Ying - Ho Chen Address F. Nu.3, Lane 102, An-Ho Rd.	
Sec. I., Taipei, Taiwan, R.O.C.	
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)	
the entire right, title and interest an undivided percent (%) interest for the United States and its territorial possessions (check the following box/f foreign rights are also to be assigned) x and in all foreign countries in and to any and all improvements which are disclosed in the invention entitled:	
mi and to any and an improvemente withou are disclosed in the inventori entitled.	

Dummy Copper Plug To Improve Low K Structure Mechanical Strength And Plug Fill Uniformity

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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) (e) and any legal equivalent thereof in a foreign country, including the right to clam priority 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

U 7 0 (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. signature of Assignories

Ting - Ho Chen

Bi-Trong Chen

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

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.

RECORDED: 07/19/2002

__Notarization of Legalization Page Added.

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