Form PTO-1595 (Rev. 03/05) 07 - 20 - 2 OMB No. 0651-0027 (exp. 6/30/2005)	United States Patent and Trademark Office		
103278	3242 тѕмо5-0844		
To the Director of the U.S. Pa	e record the attached documents or the new address(es) below.		
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Hsien-Wei Chen	Name: <u>Taiwan Semiconductor Manufacturing Company</u> ,		
Hao-Yi Tsai Hsueh-Chung Chen			
Additional name(s) of conveying party(ies) attached?	Internal Address:		
3. Nature of conveyance/Execution Date(s):			
Execution Date(s) 07/13/2006	Street Address: No. 8, Li-Hsin Rd. 6		
X Assignment Merger			
Security Agreement Change of Name	Science-Based Industrial Park		
Joint Research Agreement Government Interest Assignment	City: <u>Hsin-Chu</u>		
Executive Order 9424, Confirmatory License	State:		
Other	Country: <u>Taiwan, ROC</u> Zip: <u>300-77</u> Additional name(s) & address(es) attached? Yes X No		
A. Patent Application No.(s) Additional numbers a	his document is being filed together with a new application. B. Patent No.(s) ttached? Yes X No		
Additional numbers a 5. Name and address to whom correspondence	B. Patent No.(s) ttached? Yes X No 6. Total number of applications and patents		
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Additional numbers a 5. Name and address to whom correspondence concerning document should be mailed: Name <u>: Steven H. Slater</u>	B. Patent No.(s) ttached? Yes X No 6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00		
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Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450 ASSIGNMENT

ATTORNEY BOCKET NO. TSM05-0844

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting thereform, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

TITLE OF INVENTION	Increasing Dielectric Constant in Local Regions for the Formation of Capacitors			
SIGNATURE OF INVENTOR AND NAME	Hsien-Wei Chen Hsien-Wei Chen	Hau-Yi Tsai Hao-Yi Tsai	Heud:- Chunz Chen Heueh-Chung Chen	
DATE	2006,07, 13	7. 13 ه. المعمد	July 13, 2006	en e
RESIDENCE (City, County, State)	Sinying City, Taiwan, R.O.C.	Hsin-Chu, Taiwan, R.O.C.	Yonghe City, Taiwan, R.O.C.	

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TSM05-0844

Page 1 of 1

PATENT REEL: 018107 FRAME: 0889

RECORDED: 07/13/2006