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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies): Name: Taiwan Semiconductor Manufacturing Te-Hsun Hsu and Hung-Cheng Sung Internal Address: Co., Ltd. Additional name(s) of conveying party(ies) attached? Yes ✓ No 3. Nature of conveyance: ✓ Assignment Merger Street Address: No. 8, Li-Hsin Road 6 Security Agreement Change of Name Science Based Industrial Park Other City: Hsin-Chu State: Zip: 300-77 3/23/2005 Execution Date: Additional name(s) & address(es) attached? Yes V 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: 03/24/05 B. Patent No.(s) A. Patent Application No.(s) 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41).....\$ 40.00 **Howard Chen** Name: ✓ Enclosed Internal Address: Authorized to be charged to deposit account Preston Gates & Ellis LLP 8. Deposit account number: 55 Second Street Street Address: **Suite 1700** City: San Francisco State: CA Zip: 94105 DO NOT USE THIS SPACE 9. Signature. Howard Chen, Reg. No. 46,615 Name of Person Signing

> Total number of pages including cover sheet, attachments, and documents: Mail documents to be recorded with required cover sheet information to:

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PATENT REEL: 016419 FRAME: 0505

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## ASSIGNMENT AND AGREEMENT

For value received, I/we, Te-Hsun Hsu and Hung-Cheng Sung hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd., with its principal place of business located at No. 8, Li-Hsin Road 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to SCALABLE SPLIT-GATE FLASH MEMORY CELL WITH HIGH SOURCE-COUPLING RATIO described in an application for Letters Patent of the United States filed on March 24 , 2005 and all the rights and privileges in said application and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof that may be granted in the United States for said inventions; and I/we also concurrently hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection. including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I/We authorize Taiwan Semiconductor Manufacturing Co., Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me/us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I/We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Taiwan Semiconductor Manufacturing Co., Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I/We request that any and all patents for said inventions be issued to Taiwan Semiconductor Manufacturing Co., Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Taiwan Semiconductor Manufacturing Co., Ltd. may designate.

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## Express Mail EV664413261US

## PATENT ATTY DOCKET NO.: TSMC2004-0660

I/We agree that, when requested, I/we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Inventor No. 1:	
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RECORDED: 03/24/2005

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