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Yes No 3. Nature of Conveyance: ☐ Merger Assignment ☐ Security Agreement ☐ Change of Name □ Other Additional name(s) and address(es) attached?

Yes No Execution Date: May 18, 2006 4. Application number(s) or patent number(s): ☐ This document is being filed together with a new application B. Patent No.(s) A. Patent Application No.(s) 11/434,064 Additional numbers attached?

Yes No 5. Name and address of party to whom correspondence Total applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 Customer Number Enclosed ☐ Authorized to be charged to deposit account 8. Deposit account number: 15-0030 Fax. (703) 413-2220 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. DEC 2 2 2006 Eckhard H. Kuesters Date Name of Person Signing ymond F. Cardillo, Jr Registration No. 40.440 Registration Number: 28,870 Total number of pages including this cover sheet: 3 Do not detach this portion 12/26/2006 MBERHE1 00000034 11434064 Mail documents to be recorded with required cover sheet information to: 01 FC:8021

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SEMICONDUCTOR MEMORY DEVICE

sell and assign to KABUSHIKI KAISHA TOSHIBA a Japanese corporation, having a business address at 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one)	[X]	executed concurrently herewith					
	[]	executed on	;				
•	[]	Application No. 11/434,064	, filed	May	16,	2006	;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

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PATENT REEL: 018732 FRAME: 0592

ASSIGNMENT

ACG042148-USA-A (05S1364)

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REEL: 018732 FRAME: 0593