05-25-2005 Attorney Docket No.: 0074/05101 Substitute Form PTO-1595 original document. 103009275 and Trademarks: 1 Commissioner of Name and address of receiving party(ies): 1. Name of conveying party(ies): Matsushita Electric Industrial Co., Ltd. Kazuaki TAMURA 1006, Oaza-kadoma Tomoaki IZUMI Tetsushi KASAHARA Kadoma City, Osaka Pref. Masahiro NAKANISHI 571-8501 Japan **Kiminori MATSUNO** Additional names/addresses attached?
Yes Takuji MAEDA No Additional name(s) attached?
Yes No 3. Nature of conveyance: Assignment □ Merger □ Security Agreement □ Change of Name □ Other: Execution Date: April 26, 2005 4. Application number(s) or patent number(s): 11/048,046 If this document is being filed with a new application, the execution date of the application is: A. Patent Application No.(s): 11/048,046 B. Patent No.(s): Additional numbers attached?
Yes
No 5. Name/address of party to whom correspondence 6. Total number of applications/patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 1.21(h) & 3.41): \$40 Authorized to be charged by credit card □ Authorized to be charged to deposit account Randolph A. Smith □ Enclosed SMITH PATENT OFFICE None required (government interest not) 1901 Pennsylvania Ave., N.W. affecting title) Suite 200 Washington, D.C. 20006-3433 8. Payment Information

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Randolph A. Smith Name of Person Signing

Jull Sunt Signature Reg. No. 32,5 48

May 19, 2005 Date

Total number of pages including cover sheet, attachments, and document: 3

PATENT REEL: 016584 FRAME: 0830

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned.

(1)	Kazuaki TAMURA	(6)	Takuji MAEDA
(2)	Tomoaki IZUMI	〔 (7) [〔]	
(3)	Tetsushi KASAHARA	〔 (8) [〔]	
(4)	Masahiro NAKANISHI	- (9)	
(5)	Kiminori MATSUNO	[(10)]	

who has/have made a certain new and useful invention, hereby sell, assign and transfer unto

Matsushita Electric Industrial Co., Ltd.

1006, Oaza-kadoma, Kadoma City, Osaka Pref., 571-8501 Japan

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

SEMICONDUCTOR MEMORY DEVICE, MEMORY CONTROLLER AND MEMORY ACCESS DEVICE

(a) for which an application for United States Letters Patent was filed on <u>February 2, 2005</u>, and identified by United States Serial No. 11/048,046 ; or

(b) for which an application for United States Letters Patent was executed on

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE:

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date(s) indicated aside my/our signature(s):

INVENTOR (S) DATE SIGNED Kazuaki Tamura 2pril, 26, 2005 (1) Jonophi Doumi Name: Tomoaki IZUMI 26, 2005 (2) Tetsushi Kasahara (3) Name Maschiro Makanishi Name: Masahiro NAKANISHI l 26, 2005 (4) Name: Kiminori MATSUNO april, 26 2005 (5)

PATENT REEL: 016584 FRAME: 0831

reda (6) Name: Takuji MAEDA

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April 26, 2005

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