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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Naoki Mukaida
Kenzo Kita
Yukio Terasaki

10-8-02

2. Name and address of receiving party(ies)

Name: TDK Corporation

Internal Address: _____

Street Address: 1-13-1, Nihonbashi

Chuo-Ku, Tokyo 103-8272, Japan

City: _____ State: _____ Zip: _____

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: September 25, 2002

Additional name(s) & address(es) attached? Yes 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: _____

A. Patent Application No.(s)

10/011,248

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Pamela G. Maher

Internal Address: Brown Raysman Millstein

Felder & Steiner, LLP

Street Address: 1880 Century Park East

Suite 711

City: Los Angeles State: CA Zip: 90067

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

02-4270

(Attach duplicate copy of this page if paying by deposit account)

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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.

Pamela G. Maher

Name of Person Signing

Pamela G. Maher
Signature

October 3, 2002

Date

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: 013373 FRAME: 0909

ASSIGNMENT

This Assignment made by Naoki MUKAIDA of Tokyo, JAPAN; Kenzo KITA of Tokyo, JAPAN; and Yukio TERASAKI of Tokyo, JAPAN, Assignors, to TDK Corporation, a Japanese Corporation, Assignee, having a place of business at 1-13-1, Nihonbashi, Chuo-ku, Tokyo 103-8272, JAPAN.

WHEREAS, Assignors have invented a new and useful MEMORY CONTROLLER, FLASH MEMORY SYSTEM HAVING MEMORY CONTROLLER AND METHOD FOR CONTROLLING FLASH MEMORY DEVICE, for which an application for United States Letters Patent has been executed by them this day; and WHEREAS, Assignors believe themselves to be the original, first and joint inventors of the invention disclosed and claimed as filed on December 25, 2001, Serial No. 10/011,248; and

WHEREAS, Assignee desires to acquire by formal, recordable assignment the entire right, title and interest in and to said invention, said application, and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby sell, assign and transfer to Assignee, the entire right, title and interest in and to said invention, said application, and any Letters Patent that may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise.

Further, Assignors agree that, upon request and without further compensation, but at no expense to Assignors, they and their legal representative(s) and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording or

maintaining the title of Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

Assignors represent and warrant that they have not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignors authorize and request the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for said invention, whether on said application or on any subsequently filed division, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

IN WITNESS WHEREOF, Assignors have executed this Assignment on the dates written hereinbelow.

Assignor(s):

Date: September 25, 2002

NAME: Naoki Mukaida
Naoki MUKAIDA

Date: September 25, 2002

NAME: Kenzo Kita
Kenzo KITA

Date: September 25, 2002

NAME: 
Yukio TERASAKI