

Attorney Docket No. 082417-000200US, formerly 082417-001200US

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1. Name of conveying party(ies)/Execution Date(s):

Naoki Mukaida

Execution Date(s) January 19, 2005

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

2. Name and address of receiving party(ies)

Name: TDK Corporation

Internal Address: _____

Street Address: 1-13-1, Nihonbashi, Chuo-ku

City: Tokyo

State: _____

Country: Japan Zip: 103-8272

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

11/023,746

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Richard T. Ogawa

Internal Address: _____

TOWNSEND AND TOWNSEND AND CREW LLP

Street Address: Two Embarcadero Center,
Eighth Floor

City: San Francisco

State: California Zip: 94111-3834

Phone Number: (415) 576-0200

Fax Number: (415) 576-0300

Email Address: rto@townsend.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 numbers _____
Expiration Date _____

b. Deposit Account Number 20-1430

Authorized User Name Townsend and

Townsend and Crew LLP

9. Signature:  Signature

4/14/05 Date

Richard T. Ogawa

Name of Person Signing Atty. Reg. No. 37,692

Total number of pages including cover sheet, attachments, and documents:

3

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, VA 22313-1450

Attorney Docket No.:082417-000200US
formerly 082415-001200US

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Naoki MUKAIDA of Tokyo, Japan, hereinafter referred to as "Assignor," is the inventor of the invention described and sets forth in the below-identified application for United States Letters Patent:

Title of Invention: MEMORY CONTROLLER, FLASH MEMORY SYSTEM,
AND METHOD FOR RECORDING DATA ON FLASH
MEMORY
Date(s) of Execution: January 19, 2005
Filing Date: December 27, 2004
Application No.: 11/023,746; and

WHEREAS, TDK Corporation, located at 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, Japan, hereinafter referred to as "ASSIGNEE," is desirous of acquiring ASSIGNOR's interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has sold, assigned and transferred, and by these presents do sell, assigns and transfers unto the said Assignee, and Assignee's successors and assigns, all his right, title and interest in and to the said invention and application, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfers not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he will, without charge to Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignor hereby authorizes and requests Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignor has signed his name on the dates indicated.

Dated: 19/1/2005

Naoki MUKAIDA
Naoki MUKAIDA

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