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FORM PTO-1596
1-31-92

RE

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 49657-390

101071147
PATENTS ONLY

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

1. Name of Conveying Party(ies):
Kiyoteru KOBAYASHI and Naoki TSUJI

Additional name(s) of conveying party(ies) attached? Yes

2. Name and address of receiving party(ies):
Name: Mitsubishi Denki Kabushiki Kaisha
Address: 2-3, Marunouchi 2-chome, Chiyoda-ku

TOKYO 100-8310, JAPAN

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



3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: April 19, 1999

4. Application number(s) or patent number(s):
If the document is being filed together with a new application, the execution date of the application is: April 19, 1999
A. Patent Application No(s).
B. Patent No(s).

09/324808

Additional numbers attached? Yes

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: MCDERMOTT, WILL & EMERY
Internal Address:

Street Address: 600 13th Street, N.W.

City: Washington State: DC Zip: 20005

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41) \$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number:
500417

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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.

Stephen A. Becker, 26,527

June 3, 1999

Name and Registration No. of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

06/15/1999 DNGUYEN 00000233 500417 09324808

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PATENT
REEL: 010019 FRAME: 0591

Docket No.:

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) Kiyoteru KOBAYASHI (4) _____ (7) _____
- (2) Naoki TSUJI (5) _____ (8) _____
- (3) _____ (6) _____ (9) _____

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

Mitsubishi Denki Kabushiki Kaisha of
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 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

NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURING
METHOD THEREOF

(a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____; or

(b) for which an application for United States Letters Patent was executed on April 19, 1999

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 and 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 dates indicated aside our signatures:

INVENTORS

DATE SIGNED

1) Kiyoteru Kobayashi
Name: Kiyoteru KOBAYASHI

April 19, 1999

2) Naoki Tsuji
Name: Naoki TSUJI

April 19, 1999

3) _____
Name: _____

4) _____
Name: _____

5) _____
Name: _____

6) _____
Name: _____

7) _____
Name: _____

8) _____
Name: _____

9) _____
Name: _____
