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FORM PTO-1596  
1-31-92

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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Docket No.: 57454-094

## PATENTS ONLY

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

## 1. Name of Conveying Party(ies):

Yoshikazu MIYAWAKI, Satoshi SHIMIZU, Atsushi OHBA,  
and Mitsuhiro TOMOEDAAdditional name(s) of conveying party(ies) attached? ☐ Yes

## 3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: April 18, 2001

## 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

Name: MITSUBISHI ELECTRIC ENGINEERING  
COMPANY LIMITED

Address: 6-2, Ootemachi 2-chome

Chiyoda-ku

Tokyo 100-0004 JAPAN

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

## 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 18, 2001

A. Patent Application No(s).

B. Patent No(s).

Additional numbers attached? ☐ Yes

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

Name: MCDERMOTT, WILL &amp; EMERY

Internal Address:

Street Address: 600 13<sup>th</sup> 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

May 1, 2001

Name and Registration No. of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

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

05/05/2001 LMUELLER 00900372 500417 09845300

01 FC:581

40.00 DR

PATENT  
REEL: 011771 FRAME: 0860

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) <u>Yoshikazu MIYAWAKI</u>	(4) <u>Mitsuhiro TOMOEDA</u>	(7) _____
(2) <u>Satoshi SHIMIZU</u>	(5) _____	(8) _____
(3) <u>Atsushi OHBA</u>	(6) _____	(9) _____

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

(1) Mitsubishi Denki Kabushiki Kaisha of  
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN  
 (2) Mitsubishi Electric Engineering Company Limited of  
6-2, Ootemachi 2-chome, Chiyoda-ku, TOKYO 100-0004 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

NONVOLATILE SEMICONDUCTOR MEMORY DEVICE HAVING REDUCED ERASE TIME  
AND METHOD OF ERASING DATA OF THE SAME

(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 18, 2001.

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) Yoshikazu Miyawaki  
 Name: Yoshikazu MIYAWAKI

April 18, 2001

2) Satoshi Shimizu  
 Name: Satoshi SHIMIZU

April 18, 2001

3) Atsushi Ohba  
 Name: Atsushi OHBA

April 18, 2001

4) Mitsuhiro Tomoeda  
 Name: Mitsuhiro TOMOEDA

April 18, 2001

5) \_\_\_\_\_  
 Name: \_\_\_\_\_

6) \_\_\_\_\_  
 Name: \_\_\_\_\_

7) \_\_\_\_\_  
 Name: \_\_\_\_\_

8) \_\_\_\_\_  
 Name: \_\_\_\_\_

9) \_\_\_\_\_  
 Name: \_\_\_\_\_

RECORDED: 05/01/2001

PATENT  
 REEL: 011771 FRAME: 0861