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FORM PTO-1596
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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 49657-684

PATENTS ONLY

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

1. Name of Conveying Parties:

Takashi ITOU and Goro HAYAKAWA

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

3. Nature of Conveyance:

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

Execution Date: April 18, 2000

2. Name and address of receiving party:

Name: Mitsubishi Denki Kabushiki Kaisha

Address: 2-3, Marunouchi 2-chome

Chiyoda-ku

Tokyo 100-8310, Japan

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

4. Application number(s) or patent number(s): 09/556775

If the document is being filed together with a new application, the execution date of the application is: April 18, 2000

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 & 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

Name and Registration No. of Person Signing

Signature

April 25, 2000

Date

Total number of pages comprising cover sheet:

1

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

05/10/2000 DMGUYEN 00000475 500417 09556775

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40.00 CH

PATENT
REEL: 010768 FRAME: 0982

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>Takashi ITOU</u>	(4) _____	(7) _____
(2) <u>Goro HAYAKAWA</u>	(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

SEMICONDUCTOR MEMORY DEVICE PREVENTING MALFUNCTION DURING REFRESH OPERATION
EVEN WHEN NOISE IS SUPERIMPOSED ON CONTROL SIGNAL

(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, 2000.

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

1)	<u>Takashi ITOU</u>
	Name: <u>Takashi ITOU</u>
2)	<u>Goro Hayakawa</u>
	Name: <u>Goro HAYAKAWA</u>
3)	_____
	Name: _____
4)	_____
	Name: _____
5)	_____
	Name: _____
6)	_____
	Name: _____
7)	_____
	Name: _____
8)	_____
	Name: _____
9)	_____
	Name: _____

DATE SIGNED

April 18, 2000
April 18, 2000

PATENT

RECORDED: 04/25/2000

REEL: 010768 FRAME: 0983