

01-22-2003

FORM PTO-1596

1-31-92

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Docket No.: 57454-875

102344023
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):

Takashi ITOH

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

3. Nature of Conveyance:

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

Execution Date: December 23, 2002

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

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: December 23, 2002

A. Patent Application No(s).

B. Patent No(s). 10342396

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

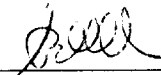
8. Deposit account number:
 500417

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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



January 15, 2003

Name and Registration No. of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

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

1000 U.S. PTO
 10/342396
 01/15/03

01/21/2003 ECDOPER 00000179 500417 10342396

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(40.00 CH)

PATENT
 REEL: 013666 FRAME: 0554

ASSIGNMENT

WHEREAS, Takashi ITOH,
hereinafter called the "Assignor," has invented a new and useful invention entitled
SEMICONDUCTOR MEMORY DEVICE HAVING TIME REDUCED IN TESTING OF MEMORY
CELL DATA READING OR WRITING, OR TESTING OF SENSE AMPLIFIER PERFORMANCE
_____, for which he has:

- (a) filed an application for United States Letters Patent on
_____ as (Serial No. _____); or
- (b) executed an application for United States Letters Patent on
December 23, 2002; or
- (c) filed a provisional application on _____
as (Serial No. _____); and

WHEREAS, Mitsubishi Denki Kabushiki Kaisha, a corporation organized and
existing under the laws of Japan, having a place of business at:
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN, hereinafter
called the "Assignee," is desirous of acquiring the entire right, title and interest in
and to said invention, the application above identified, and in, to and under any
Letters Patent which may be obtained to said invention, as hereinafter more fully
set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for
and in consideration of the sum of One Dollar (\$1.00), and other valuable and legally
sufficient considerations, the receipt of which by said Assignor from the said Assignee
is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by
these presents do sell, assign and transfer unto the said Assignee, the entire, right, title
and interest for the United States in and to the invention and application hereinabove
identified, and any Letters Patent of the United States that may issue for said invention,
together with the entire right, title and interest in and to said invention and applications
for Letters Patent and Letters Patent therefor, in all countries foreign to the United
States, including the full right to claim for any such application all benefits and priority
rights under any applicable convention; to have and to hold for the sole and exclusive
use and benefit of the said Assignee, its successors and assigns, to the full end of the
term or terms for which any and all of said Letters Patent for said inventions may issue.

And the said Assignor does hereby covenant and agree, for himself and his legal representatives, that he will assist the said Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinabove set forth; in vesting in the said Assignee like exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patent herein contemplated; and that they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this Assignment.

The undersigned hereby grant(s) the attorneys of McDermott, Will & Emery the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

Date: December 23, 2002
(Seal)

Takashi Itoh
Takashi ITOH