

02-25-2003

Docket No.: 57454-892



To the Honorable Commissioner for Patents **102372552**

Attached original documents or copy thereto:

1. Name of Conveying Party(ies):
Takashi ITOH *2-12-03*
Additional name(s) of conveying party(ies) attached? Yes

2. Name of receiving party(ies):
Name: **mitsubishi denki kabushiki kaisha**
Address: 2-3, Marunouchi 2-chome,
Chiyoda-ku,
Tokyo 100-8310 JAPAN

JCE21 U.S. PTO
10/364328
02/12/03

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: January 22, 2003

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: January 22, 2003
A. Patent Application No(s). B. Patent No(s).
10364328
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:
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 *[Signature]* February 12, 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)

02/24/2003 BT0111 00000051 500417 10364328
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ASSIGNMENT

WHEREAS, Takashi ITOH,
hereinafter called the "Assignor," has invented a new and useful invention entitled
SEMICONDUCTOR MEMORY DEVICE ALLOWING
REDUCTION OF I/O TERMINALS, 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 January 22, 2003; 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: January 22, 2003
(Seal)

Takashi Itoh
Takashi ITOH