

03-19-2003



HEET

U.S. Department of Commerce  
Patent and Trademark Office

**PATENT**

102393022

TO: The Commissioner of Patents and Trademarks (SEE ATTACHED ORIGINAL DOCUMENT(S) OR COPY(IES)).

**Submission Type**

- New
  - Resubmission (Non-Recordation)
  - Correction of PTO Error
  - Corrective Document
- Reel # \_\_\_\_\_ Frame # \_\_\_\_\_
- Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

3.5.03

**Conveyance Type**

- Assignment
- License
- Merger
- Security Agreement
- Change of Name
- Other:

10/378852  
03/05/03

**Conveying Party(ies)**

- 1. Hideyuki NODA
- 2.
- 3.
- 4.
- 5.
- 6.

**Execution Date(s)**

February 6, 2003

Mark if Additional Names of Conveying Parties Attached

10378852

**Receiving Party**

Name Mitsubishi Denki Kabushiki Kaisha

Name \_\_\_\_\_

Address 2-3, Marunouchi 2-chome

Address Chiyoda-ku

Address Tokyo Japan

City State/Country

100-8310  
Zip Code

Mark if Additional Names of Receiving Parties Attached

**Correspondent Name and Address**

Jeffrey A. Wyand  
Leydig, Voit & Mayer  
700 Thirteenth St., N.W. Suite 300  
Washington, D.C. 20005-3960

Telephone: (202) 737-6770  
Facsimile: (202) 737-6776  
Attorney Docket No. 402521/FUKAMI

**Pages** Enter the total number of pages of the attached conveyance document including any attachments: 2

**Application Number(s) or Patent Number(s)**  Mark if additional numbers attached

*Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).*

**Patent Application Numbers**

**Patent Numbers**

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year  
February 6, 2003

**Patent Cooperation Treaty (PCT)**

Enter PCT application number *only* if a U.S. Application Number has not been assigned.

PCT	PCT	PCT
PCT	PCT	PCT

**Number of Properties** Enter the total number of properties involved: 1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): 40.00

**Method of Payment:**

- Enclosed is a check in the amount of \$
- Charge Deposit Account No. 12-1216

Authorization to Charge Additional Fees to Deposit Account No. 12-1216:  Yes  No

**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. Charges to deposit account are authorized, as indicated herein.

Jeffrey A. Wyand

Name of Person Signing

Signature

March 5, 2003

Date

03/19/2003 ECOOPER 00000018 121216 10378852

Assignment Impl P1

01 FC:8021 40.00 CH

UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ATTORNEY DOCKET NO.

ASSIGNMENT

Application No. \_\_\_\_\_

Filed \_\_\_\_\_

Insert Name(s)  
of Inventor(s)

WHEREAS, Hideyuki NODA

Insert Title  
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in \_\_\_\_\_

SEMICONDUCTOR MEMORY DEVICE CAPABLE OF

HOLDING WRITE DATA FOR A LONG TIME

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).

Insert Date  
of Signing of  
Application

on February 6, 2003; and

Insert Name  
of Assignee

WHEREAS, Mitsubishi Denki Kabushiki Kaisha

Insert Address  
of Assignee

of 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX  
IF APPROPRIATE

in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

PATENT  
REEL: 013849 FRAME: 0517

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional, conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Leydig, Voit & Mayer 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date February 6, 2003 , Name of Inventor Hideyuki Noda  
 Hideyuki NODA

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_