

08-08-2005

HEET

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office



Attorney's Docket No. 030682-138

To the Director of the United States

103056360

attached original documents or copy thereof

08-02-05

1. Name of conveying party(ies):

Kazunari HATADE

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) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: June 2, 2005

Additional name(s) & addresses attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: June 2, 2005

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Ellen Marcie Emas

Address:

Burns, Doane, Swecker & Mathis, L.L.P.  
Customer Number 2 1 8 3 9  
P.O. Box 1404  
Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00 (8021)

- Enclosed
- Authorized to be charged to deposit account
- Credit card. Form PTO-2038 is attached.

8. Deposit account number:

02-4800

(Attach duplicate copy of this page if paying by deposit account.)

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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.

Ellen Marcie Emas

Name of Person Signing

32,131

Reg. No.

Signature

August 2, 2005

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:

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08/03/2005 SFELEKE1 00000031 11194532

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**ASSIGNMENT**

THIS ASSIGNMENT, by: Kazunari HATADE of

MITSUBISHI DENKI KABUSHIKI KAISHA, 2-3, Marunouchi 2-chome, Chiyoda-ku,  
TOKYO 100-8310 JAPAN

(hereinafter referred to as "the Assignor(s)"), respectively, witnesseth:

WHEREAS, the Assignor(s) has(have) invented certain new and useful improvements in:  
SEMICONDUCTOR DEVICE

\_\_\_\_\_ , set forth in an application for Letters Patent of the United States, [ ] which is a provisional application to be filed herewith; [X] which is a non-provisional application having an oath or declaration executed on even date herewith prior to filing of application; [ ] bearing Application

No. \_\_\_\_\_ , and filed on \_\_\_\_\_ ; and

WHEREAS, Mitsubishi Denki Kabushiki Kaisha , a corporation duly organized under and pursuant to the laws of Japan and having its principal place of business at: 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

\_\_\_\_\_ (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor(s) has(have) sold, assigned, transferred, and set over, and by these presents does(do) sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this sale and assignment not been made;

Application Serial No. \_\_\_\_\_  
Attorney's Docket No. 030682-138

AND for the same consideration, the Assignor(s) hereby covenant(s) and agree(s) to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor(s) is(are) the sole and lawful owner(s) of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor(s) has(have) good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor(s) hereby covenant(s) and agree(s) to and with the Assignee, its successors, legal representatives, and assigns that the Assignor(s) will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignor(s) hereby authorize(s) and request(s) the attorneys of BURNS, DOANE, SWECKER & MATHIS, L.L.P. of Alexandria, Virginia, to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignor(s) hereby request(s) the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee, as the Assignee of said inventions and the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date June 2, 2005 Name of Assignor Kazunari Hata de  
Kazunari HATADE

Date \_\_\_\_\_ Name of Assignor \_\_\_\_\_

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