

12-14-2005



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HEET

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

Attorney's Docket No. 018775-965

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Naoki YOSHIMATSU; Takanobu YOSHIDA; and
Toshiaki SHINOHARAAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: 11/10/05; 11/28/05; and 11/10/05

2. Name and address of receiving party(ies):

Name: MITSUBISHI DENKI KABUSHIKI KAISHA

Address:

7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310 Japan

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: 11/10/05; 11/28/05; and 11/10/05

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: James A. LaBarre

Address:

Buchanan Ingersoll PC
 Including attorneys from Burns, Doane, Swecker & Mathis
 Customer Number 2 1 8 3 9
 P.O. Box 1404
 Alexandria, VA 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

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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.

James A. LaBarre
 Name of Person Signing

28,632
 Reg. No.

Signature

December 7, 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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12/08/2005 EAREGAY1 00000027 11295442

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40.00 DP

PATENT
 REEL: 017329 FRAME: 0081

ASSIGNMENT**(JOINT)**

THIS ASSIGNMENT, by Naoki YOSHIMATSU residing at c/o FUKURYO SEMI-CON
ENGINEERING CORPORATION, 1-1, Imajuku-higashi 1-chome, Nishi-ku, Fukuoka-shi,
FUKUOKA 819-0161 JAPAN
 and Takanobu YOSHIDA and Toshiaki SHINOHARA, residing at c/o MITSUBISHI DENKI
KABUSHIKI KAISHA, 7-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310
JAPAN

and _____

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

WHEREAS, the Assignors have invented certain new and useful improvements in _____
POWER SEMICONDUCTOR DEVICE set forth in an
 application for Letters Patent of the United States, which is a

- (1) ☐ provisional application
 (a) ☐ bearing Application No. _____, and filed on

 (b) ☐ to be filed herewith; or
- (2) ☒ non-provisional application
 (a) ☐ bearing Application No. _____, and
 filed on _____;
 (b) ☐ having an oath or declaration executed on even date herewith prior to
 filing of application;
 (c) ☐ having an oath or declaration executed on a different date than this
 Assignment; and

WHEREAS, MITSUBISHI DENKI KABUSHIKI KAISHA, a corporation duly
 organized under and pursuant to the laws of Japan and having a
 principal place of business at 7-3, 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, for good and sufficient consideration, the receipt of which is hereby
 acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents
 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 behoof and the use and behoof 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 Assignors had this sale and assignment not been
 made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners 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 Assignors 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 Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors 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 Assignors hereby authorize and request the attorneys of Buchanan Ingersoll PC to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request 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, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

DATE November 10, 2005

Naoki Yoshimatsu

Naoki YOSHIMATSU

DATE November 28, 2005

Takanobu Yoshida

Takanobu YOSHIDA

DATE November 10, 2005

Toshiaki Shinozaki

Toshiaki SHINOHARA

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____