

06-12-2002



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

IEET

Attorney's Docket No. 027260-542

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Katsumi MIYAZAKI

6-4-02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

Other: _____

Execution Date: May 8, 2002

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

Name: 1) Mitsubishi Denki Kabushiki Kaisha

Address: 2-3, Marunouchi 2-chome

Chiyoda-ku, Tokyo 100-8310

JAPAN

Additional name(s) & address(es) 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: May 8, 2002

A. Patent Application No.(s)

10,160,238

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Platon N. Mandros

Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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

☒ Enclosed

☒ Authorized to be charged to deposit account, if necessary

8. Deposit account number:

02-4800

DO NOT USE THIS SPACE

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.

Platon N. Mandros, Reg. No. 22,124
Name of Person Signing

[Signature]
Signature

June 5, 2002
Date

Total number of pages including cover sheet, attachments, and document: 4

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

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

06/06/2002 RHARIS1 00000030 10160238

02 FC:581

40.00 BP

PATENT
REEL: 012966 FRAME: 0650

(10/01)

2. Additional Receiving Party:

- 2) Mitsubishi Electric Engineering Company Limited
6-2, Ootemachi 2-chome
Chiyoda-ku, Tokyo 100-0004
Japan

ASSIGNMENT

(SOLE)

THIS ASSIGNMENT, by Katsumi MIYAZAKI, residing at Tokyo, Japan
 _____ (hereinafter referred to as "the Assignor"), witnesseth:

WHEREAS, the Assignor has invented certain new and useful improvements in _____
"SPIKE CURRENT REDUCING CIRCUIT" set forth
 in an application, [] 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, See the attachment, a corporation duly
 organized under and pursuant to the laws of Japan, and having its principal place of business
 at See the attachment (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 has sold, assigned,
 transferred, and set over, and by these presents does 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 application, 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 had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants and agrees to and with
 the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and
 delivery of these presents, the Assignor is the sole and lawful owner 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 has 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 hereby covenants and agrees to and with
 the Assignee, its successors, legal representatives, and assigns that the Assignor 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 hereby authorizes and requests 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 hereby requests 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 thereon for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date May 8, 2002 Name of Assignor Katsumi Miyazaki
Katsumi MIYAZAKI