

11-13-2002



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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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102279232

To the Honorable Commissioner of Pat

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Makoto TERUI  
Noritaka ANZAI  
Hiroyuki MORI

11/07/02

Additional names(s) of conveying party(ies)  Yes  No

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

Name: Oki Electric Industry Co., Ltd.

Address: 7-12, Toranomon 1-chome, Minato

J1040 U.S. PRO  
10/289384  
11/07/02

City: Tokyo State/Prov.:

Country: Japan ZIP:

Additional name(s) & address(es)  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: September 17, 17, 11, 2002

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

If this document is being filed together with a new application, the execution date of the application is: Sept. 17, 17, 11, 2002

Patent Application No.	Filing date
NEW	November 7, 2002

B. Patent No.(s)

10/289384

Additional numbers  Yes  No

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

Name: ADAM C. VOLENTINE

Registration No. 33,289

Address: VOLENTINE FRANCOS, P.L.L.C.

12200 SUNRISE VALLEY DRIVE, SUITE 150

City: RESTON State/Prov.: VA

Country: U.S.A. ZIP: 20191

6. Total number of applications and patents involved: 1

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

50-0238

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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.

ADAM C. VOLENTINE

November 7, 2002

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments

PATENT  
REEL: 013466 FRAME: 0946

11/08/2002 JRAL:MM 00000012 10289384

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Makoto TERUI, Noritaka ANZAI and Hiroyuki MORI

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to SEMICONDUCTOR DEVICE

[  ] the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;  
[  ] said application having been filed in the United States Patent and Trademark Office on, \_\_\_\_\_ authorization being hereby given to my attorneys, **Raymond C. Jones and Adam C. Volentine** of **VOLENTINE FRANCOS, PLLC**, , 12200 Sunrise Vally Drive Suite 150, Reston, Virginia 20191, to insert here in parentheses (Application Serial No. \_\_\_\_\_ ) the application serial number of said application when known;  
[  ] said application having been filed under the Patent Cooperation Treaty on \_\_\_\_\_, Serial No. ) \_\_\_\_\_, the United States of America being designated.

AND WHEREAS Oki Electric Industry Co., Ltd.

of 7 -12, Toranomom 1-chome, Minato-ku, Tokyo, Japan

hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

**NOW THIS WITNESSETH**, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, September 17, 2002.

WITNESS:

ASSIGNOR:

Signature: Yoshinori Higuno

Signature: Makoto Terui

Name: Makoto TERUI

VOLENTINE FRANCOS, PLLC

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Page 2 of 2

EXECUTED, September 17, 2002.

**WITNESS:**

**ASSIGNOR:**

Signature: Takashi Noguchi

Signature: Noritaka Anzai

Name: Noritaka ANZAI

EXECUTED, September 11, 2002.

**WITNESS:**

**ASSIGNOR:**

Signature: [Handwritten Signature]

Signature: Hiroyuki Mori

Name: Hiroyuki MORI

EXECUTED, \_\_\_\_\_, 2002.

**WITNESS:**

**ASSIGNOR:**

Signature: [Handwritten Signature] T.K

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

VOLENTINE FRANCOS, PLLC