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03-05-2004



Form PTO-1592 (modified)

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

1. Name of conveying party or parties:

1. Hiroshi Kamidoi
2. Toshiya Ishihara

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

2. Name and address of receiving party or parties:

Kabushiki Kaisha Toshiba  
1-1, Shibaura 1-chome  
Minato-ku, Tokyo 105-8001  
JAPAN

Additional name(s) and address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: January 15, 2004

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

29200288

If this document is being filed together with a new application, the execution date of the application is: January 15, 2004

A. Patent Application Number(s):

B. Patent Number(s):

Additional number(s) attached? ☐ Yes ☒ No

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

Joseph M. Potenza  
Banner & Witcoff, Ltd.  
1001 G Street, N.W., 11<sup>th</sup> Floor  
Washington, D.C. 20001-4597

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\*  
☒ Please charge or credit our deposit account for any additional or refunded fees associated with recording this assignment

8. Deposit Account No.:

19-0733

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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.*

Brian E. Hanlon, Reg. No. 40,449

Name of Person Signing

Brian E. Hanlon

Signature

February 27, 2004

Date

Total number of pages including cover sheet: 2

03/04/2004 ECOOPER 00000265 190733 29200288

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PATENT  
REEL: 015030 FRAME: 0423

## ASSIGNMENT

WHEREAS, we, Hiroshi KAMIDOI and Toshiya ISHIHARA, citizens of Japan, residing at 59-4, Ikaruga, Taishi-cho, Ibo-gun, Hyogo-ken, Japan; 71-3, Kamiyobe, Yobe-ku, Himeji-shi, Hyogo-ken, Japan, respectively have invented a “**SEMICONDUCTOR DEVICE**” for which an application for a Patent of the United States was executed on even date herewith; and

WHEREAS, Kabushiki Kaisha Toshiba, a corporation of Japan, having a place of business at 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan hereinafter the Assignee, is desirous of confirming that it has already been assigned, or, if not already assigned, is desirous of acquiring the entire worldwide legal and beneficial right, title and interest in and to the aforesaid invention, in and to the aforesaid application and in and to any Patents, Design Registrations, Industrial Models, Industrial Designs, Petty Patents, Utility Models, Copyrights, Unregistered Design Rights, and legal equivalents thereof anywhere in the world which may be granted for said invention, including the right to claim priority of the respective United States Patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the aforesaid Hiroshi KAMIDOI and Toshiya ISHIHARA by these presents do confirm that we did sell, assign and transfer or, if not already done so, do sell, assign and transfer unto Kabushiki Kaisha Toshiba, its successors, legal representatives and assigns, the full, exclusive and worldwide right in and to said invention as described in said application, in and to the aforesaid application and in and to any Patents, Design Registrations, Industrial Models, Industrial Designs, Petty Patents, Utility Models, Copyrights, Unregistered Design Rights, and legal equivalents thereof anywhere in the world which may be granted for said invention and in and to any and all divisions, reissues, continuations, extensions and renewals thereof, including the right to claim priority of the respective United States Patent application;

AND WE HEREBY agree that the said Assignee may apply for and receive Patents, Design Registrations, Industrial Models, Industrial Designs, Petty Patents, Utility Models, Copyrights, Unregistered Design Rights, and legal equivalents thereof anywhere in the world for said invention in its own name, we further authorize and request the Commissioner of Patents and Trademarks or any other proper officer or agency of any country to record this assignment and issue all said Patents, Design Registrations, Industrial Models, Industrial Designs, Petty Patents, Utility Models, Copyrights, Unregistered Design Rights, and legal equivalents thereof to said Assignee;

AND WE HEREBY warrant and covenant that we either had or do have the full right to convey the entire interest herein assigned at the time of the sale, assignment and transfer;

AND WE HEREBY warrant and covenant that we have not executed and will not execute any instrument or assignment in conflict herewith;

AND WE HEREBY agree to communicate to said assignee or its representatives any facts known to us respecting said invention, to execute all divisional, continuation, renewal, reissue and foreign applications, sign all lawful documents and make all rightful oaths and declarations relating to said invention, sign all lawful documents which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for said invention and to testify in any judicial or administrative proceeding and generally do everything possible to aid said Assignee or any assignee of said Assignee to obtain and enforce said Patents, Design Registrations, Industrial Models, Industrial Designs, Petty Patents, Utility Models, Copyrights, Unregistered Design Rights, and legal equivalents thereof worldwide when requested so to do by said Assignee or any assignee of said Assignee.

IN WITNESS WHEREOF, we have hereunto set our hand and seal this 15<sup>th</sup> day of January 2004.

HIROSHI KAMIDOI  
Hiroshi KAMIDOI

TOSHIYA ISHIHARA  
Toshiya ISHIHARA

WITNESSES:

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