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U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No.: 04173.0465
Attorney Customer Number: 22,852

To the Honorable Commissioner
Please record the attached original. 102925628

ATTN. BOX ASSIGNMENTS RECORDATION
SERVICES

1. Name of conveying party:
Masahiko HASUNUMA

2. Name and address of receiving party:
Name:
KABUSHIKI KAISHA TOSHIBA

112872 U.S. PTO
11/028664
010505

Additional name of conveying party attached? Yes No

Internal Address:

3. Nature of conveyance:

Street Address: 1-1, Shibaura 1-chome, Minato-ku,
Tokyo 105-8001 Japan

Assignment Merger

City:

Security Agreement Change of Name

State: Zip Code:

Other:

Additional name & Address attached?

Execution Date:

December 20, 2004

Yes No

4. Application number or patent number: If this document is being filed together with a new application, the execution date of the application: **December 20, 2004**

A. Patent Application Number:

B. Patent Number:

Additional numbers attached? Yes No

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

Name: Mr. Ernest F. Chapman

6. Total number of applications and registrations involved:
1

7. Total fee (37 CFR 3.41): \$40

Enclosed (Please charge deficiency to deposit account)

Authorized to be charged to deposit account

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Street Address: 1300 I Street, N.W.

City: Washington, D.C.

State: Zip: 20005-3315

8. Deposit Account No.: 06-0916

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.

01/25/2005 DBYRNE 00000211 060916 11028664

01 FC:8021 Richard V. Argujian
Reg. No. 31,744

Signature

January 5, 2005

Date

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

JOINT INVENTION
(U.S. Rights Only)

ASSIGNMENT

WHEREAS, We, the below named inventors, (hereinafter referred to as assignors, have made an invention entitled:

SEMICONDUCTOR DEVICE

for which we executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on _____ (Application No. _____); and

WHEREAS, KABUSHIKI KAISHA TOSHIBA, a corporation of Japan, whose post office address is _____

1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan

(hereinafter referred to as assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. _____, filed _____) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

First Assignor

Name: Masahiko HASUNUMA
Address: 330-3-513, Nakayama-cho,
Midori-ku, Yokohama-shi,
Kanagawa 226-0011 Japan

Citizenship: Japan

Signature: Masahiko Hasunuma

Date: December 20, 2004

Second Assignor

Name: _____
Address: _____

Citizenship: _____

Signature: _____

Date: _____

Third Assignor

Name: _____
Address: _____

Citizenship: _____

Signature: _____

Date: _____