

01-07-2003

EET

U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 04284.0861
Attorney Customer Number: 22,852To the Honorable Commissioner
Please record the attached original

102330091

ATTN. BOX ASSIGNMENTS

1. Name of conveying parties:

1) Hiroaki IKUTA
2) Kazuhiko TOMIOKA

12-30-02

2. Name and address of receiving party:

Name:

KABUSHIKI KAISHA TOSHIBA

Additional name of conveying party attached? ☐ Yes ☒ No

Internal Address:

3. Nature of conveyance:

☒ Assignment ☐ MergerStreet Address: 1-1 Shibaura 1-chome, Minato-ku,
Tokyo, Japan

City:

☐ Security Agreement ☐ Change of Name

State:

Zip Code:

☐ Other:

Additional name & Address attached?

Execution Date:

December 25, 2002

☐ 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:

A. Patent: Application Number:

10/166,594

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 accountInternal 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.

Richard V. Burgujian
Registration No. 31,744

Signature

December 30, 2002

Date

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

01/06/2003 LNUELLER 00000292 10166594

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40.00 DP

PATENT
REEL: 013621 FRAME: 0627

JOINT INVENTION
(U.S. Rights Only)

ASSIGNMENT

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

SEMICONDUCTOR MEMORY 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 **June 12, 2002**, (Application No. **10/166,594**); and

WHEREAS, **KABUSHIKI KAISHA TOSHIBA** , a corporation of Japan, whose post office address is *1-1, Shibaura 1-chome, Minato-ku, Tokyo, 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. **10/166,594** , filed **June 12, 2002**) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

First Assignor

Hiroaki IKUTA

c/o Intellectual Property Division
Toshiba Corporation
1-1, Shibaura 1-chome,
Minato-ku, Tokyo, Japan

Citizenship: Japan

Signature: Hiroaki Ikuta

Date: 25 Dec 2002

Second Assignor

Kazuhiko TOMIOKA

c/o Intellectual Property Division
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1-1, Shibaura 1-chome,
Minato-ku, Tokyo, Japan

Citizenship: Japan

Signature: Kazuhiko Tomiooka

Date: Dec 25, 2002