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FORM PTO-1595
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09-02-1998

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
Atty. Docket No. 02887.0123

To the Assistant Commissioner

Please record the attached original document 100806354 hereof. ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies):

Hitoshi ARAKI
Kazuo HATAKEYAMAAdditional names(s) of conveying party(ies) attached? Yes XX No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ OtherExecution Date: August 7, 1998

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

Name: KABUSHIKI KAISHA TOSHIBA

Internal Address: _____

Street Address: 72, Horikawa-cho,
Saiwai-ku, Kawasaki-shi, Kanagawa-ken,
JapanCity: _____
State: _____ ZIP: _____Additional name(s) & address(es) attached?
Yes XX 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: _____

A. Patent Application Nos.

09/072,987

B. Patent No.(s)

Additional numbers attached? YES X NO5. Name and address of party to whom
correspondence concerning document
should be mailed:Name: Mr. Ernest F. ChapmanInternal Address: _____
Finnegan, Henderson, Farabow, Garrett
& Dunner, L.L.P.Street Address: _____
1300 I Street, N.W.
City: Washington, D.C.
State: _____ ZIP: 200056. Total number of applications and patents
involved 17. Total fee (37 CFR 3.41): \$ 40.00
☒ Enclosed
☐ Authorized to be charged to
deposit account8. Deposit account number: 06-0916

08/24/1998 JSHABAZZ 00000065 09072987

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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.Ernest F. Chapman
Name of Person Signing
SignatureAugust 20, 1998
DateTotal number of pages including cover sheet, attachments and document: 2PATENT
REEL: 9411 FRAME: 0113

A S S I G N M E N T

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE AND METHOD OF
MANUFACTURING NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE

for which I/WE executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on May 06, 1998, (Serial No. _____); and
09/072,987

WHEREAS, KABUSHIKI KAISHA TOSHIBA, a corporation of Japan, whose post office address is 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, 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, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/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 I/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, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/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, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No 09/072,987, filed May 06, 1998) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

1. Full Name of Sole or First Assignor : Assignor's Signature	: Date
Hitoshi ARAKI : <i>Hitoshi Araki</i>	: <i>1998 Aug 7</i>
Address 2603-4-A308, Komaki-cho,	: Citizen of
Yokkaichi-shi, Mie-Ken, Japan	: Japan
2. Full Name of Second Assignor : Assignor's Signature	: Date
Kazuo HATAKEYAMA : <i>Kazuo Hatakeyama</i>	: <i>August 7, 1998</i>
Address 3-5-303, Yutaka-cho 5-chome,	: Citizen of
Shinagawa-ku, Tokyo-to, Japan	: Japan
3. Full Name of Third Assignor : Assignor's Signature	: Date
:	:
Address	: Citizen of
:	:

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. PATENT ATTORNEYS, WASHINGTON, D.C.

RECORDED: 08/20/1998

REEL: 9411 FRAME: 0114