JAN 2 4 2003 Form PTO-1592 (modified) To the Honorable Commissioner of Patents and Trademarks: Ple	01-31-2003 001701.00164 102352922 pase record the attached original gocuments or copies thereof:
<ol> <li>Name of Conveying Party or Parties: 1-24403</li> <li>Tadayuki Taura 2. Shigeru Atsumi</li> <li>Toru Tanzawa</li> <li>Additional Names of conveying party or parties attached?</li> <li>Yes ■ No</li> <li>Nature of Conveyance:</li> </ol>	2. Name and address of receiving party or parties: Kabushiki Kaisha Toshiba 1-1, Shibaura 1-chome, Minato-ku, Tokyo, JAPAN
<ul> <li>Assignment</li> <li>Merger</li> <li>Security Agreement</li> <li>Change of Name</li> <li>Other</li> <li>Execution Date: January 7, 2003</li> </ul>	Additional Name(s) and address(es) attached?  Yes  No
<ul> <li>4. Application Number(s) or Patent Number(s):</li> <li>If this document is being filed together with a new application, the</li> <li>A. Patent Application Number(s):</li> <li>10/234,704</li> <li>Additional Name(s) and address(es) attached? □ Yes ■ No</li> </ul>	execution date of the application is: B. Patent Number(s):
<ul> <li>5. Name and address of party to whom correspondence concerning the document should be mailed:</li> <li>Joseph M. Potenza</li> <li>Banner &amp; Witcoff, Ltd.</li> <li>1001 G Street, N.W., Suite 1100</li> <li>Washington, D.C. 20001-4597</li> </ul>	<ul> <li>6. Total Number of Applications and patents involved:</li> <li>7. Total fee (37 CFR 3.41) \$ 40.00</li> <li>Enclosed</li> <li>Authorized to be charged to deposit account<sup>*</sup></li> <li>Please charge or credit our deposit account for any additional or refunded fees associated with recording this assignment</li> <li>8. Deposit Account No.: 19-0733</li> </ul>
Do Not Use this Space 1/30/2003 GTDN11 00000130 190733 10234704 1 Ft:8021 40.00 CH	
<ul> <li>9. Statement and Signature:</li> <li><i>To the best of my knowledge and belief, the foregoing informative original document.</i></li> <li><u>Gary D. Fedorochko, Reg. No. 35,509</u></li> <li>Name of Person Signing</li> </ul>	Total Number of Pages including Cover Sheet: 3

PATENT REEL: 013702 FRAME: 0271

## ASSIGNMENT

In consideration of value received, I, having a mailing address at c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan and a residence as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

## NONVOLATILE SEMICONDUCTOR MEMORY DEVICE AND METHOD OF RETRIEVING FAULTY IN THE SAME

said application having been filed on September 5, 2002
and assigned Application No. 10/234,704 ;
sell and assign to
KABUSHIKI KAISHA TOSHIBA
a corporation of Japan, having a business address at
1-1 Shibaura 1-chome, Minato-Ku, Tokyo, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent: (check one)

 $\times$  executed concurrently herewith;

executed separately herefrom;

and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, conlinuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications: and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invension in all countries.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Banner & Witcoff, Ltd., 11th Floor, 1001 G Street, N.W., Washington, D.C. 20001-4597

PATENT REEL: 013702 FRAME: 0272

Inventor: (Signature)	Date	Residence
Jadayuki Jawa Tadayuki Taura	JAN 7.2003	Zushi-shi, Japan
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RECORDING OFFICER		
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