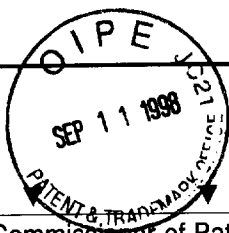


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ket No.: HQ9-97-057

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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

1. Name of conveying party(ies):

Yohji Watanabe

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

Name: Kabushiki Kaisha Toshiba

Internal Address: 72, Horikawa-Cho

Street Address: Saiwai-Ku

Kawasaki-Shi

City: Kanagawa-Ken, JAPAN State: \_\_\_\_\_ ZIP: \_\_\_\_\_

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

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other \_\_\_\_\_

Execution Date: 02/05/98

4. Application number(s) or registration numbers(s): 09/047,086

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

HQ9-97-057

Additional numbers attached? ☐ Yes ☒ No

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

Name: Kiyoshi Tanabe

Internal Address: TOSHIBA AMERICA, INC.

Intellectual Property Law Dept.

Street Address: 1300 I Street, N.W., Suite 800

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

8. Deposit account number:

09-0458 (FI-390)

09/28/1998 DNGUYEN 00000091 090458 09047086  
City: Washington State: DC ZIP: 20005  
01 FC:381 40.00 CH

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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.

H. Daniel Schnurmann, Reg. #35,791

Name of Person Signing

H. Daniel Schnurmann  
Signature

September 8, 1998

Date

Total number of pages including cover sheet, attachments, and document: 2

2

REEL: 9473 FRAME: 0459

## ASSIGNMENT

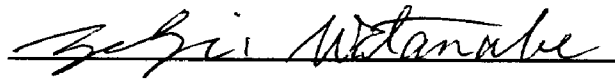
IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Yohji Watanabe, subject(s) of Japan, by Kabushiki Kaisha Toshiba, a corporation organized under the laws of Japan, located at 72, Horikawa-Cho, Saiwai-Ku, Kawasaki-Shi, Kanagawa-Ken, Japan, receipt of which is hereby acknowledged, the said Yohji Watanabe hereby sell(s) and assign(s) to said Kabushiki Kaisha Toshiba, and their successors and assigns, all their (his) right(s), title and interest in and to a Letters Patent for the United States of America, in and for the invention of

### METHOD AND APPARATUS FOR REDUNDANCY WORD LINE REPLACEMENT IN A REPAIRABLE SEMICONDUCTOR MEMORY DEVICE

invented by us (me) and described in the application for United States Letter Patent, executed separately herefrom, and all United States Letters Patent which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of said Letters Patent when granted to be held and enjoyed by said Kabushiki Kaisha Toshiba, their successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us (me) if this assignment and sale had not been made.

AND WE (I) hereby agree to sign and execute any further documents or instruments which may be necessary, lawful and proper in the prosecution of said above named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal or reissue application, or in any amendment, extension or interference proceeding, or otherwise to secure the title thereto said assignee.

AND WE (I) hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Kabushiki Kaisha Toshiba.

  
Yohji Watanabe

2/5/98  
Date

Docket No. HQ9-97-057