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MRD 10-28-98

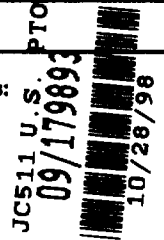
Form PTO-1592 (modified)



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ments or copies thereof:



To the Honorable Commissioner of Patents and Trade

1. Name of Conveying Party or Parties:

Tsuneo INABA
Shinichiro SHIRATAKE
Kenji TSUCHIDA

Additional Names of conveying party or parties attached?

Yes No

2. Name and address of receiving party or parties:

KABUSHIKI KAISHA TOSHIBA
72 Horikawa-cho, Saiwa-ku
Kawasaki-shi, Japan

Additional Name(s) and address(es) attached? Yes No

3. Nature of Conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: October 22, 1998

4. Application Number(s) or Patent Number(s): 09/179893

If this document is being filed together with a new application, the execution date of the application is: October 22, 1998

A. Patent Application Number(s):

B. Patent Number(s):

Additional Name(s) and address(es) attached? Yes No

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

BANNER & WITCOFF, LTD.
11th Floor
1001 G Street, N.W.
Washington, D.C. 20001-4597

6. Total Number of Applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00 E

- Enclosed
- Authorized to be charged to deposit account
- Please charge or credit our deposit account for any additional or refunded fees associated with recording this assignment

8. Deposit Account No.:

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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.

Joseph M. Potenza, Reg. No. 28,175
Name of Person Signing

Charles W. Lambach
Signature Reg # 38,800

Oct. 28, 1998
Date

Total Number of Pages including Cover Sheet: 3

A S S I G N M E N T

In consideration of value received, I, having a post office 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:

SEMICONDUCTOR MEMORY DEVICE HAVING COLUMN REDUNDANCY FUNCTION

said application having been filed on _____
 and assigned Serial No. _____ ;
 sell and assign to
 KABUSHIKI KAISHA TOSHIBA
 a corporation of Japan, having a business address at
 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, 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)

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, continuations, 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 invention 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

ASSIGNMENT

98S0803

Inventor: (Signature)

Date

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