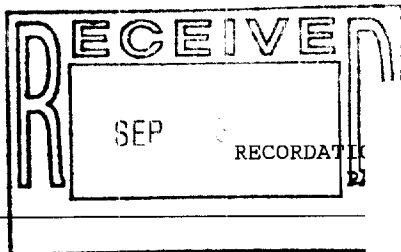


MA  
9.3.98



09-10-1998

7: JA997053

Department of Commerce  
& Trademark Office



100825242

Attached original documents

To the Honorable Commissioner of Patents and Trademarks  
or copy thereof.

1. Name of conveying party(ies):

Nobuya Matsubara  
Fuminori Sai  
Yuzo Nakagawa

Additional name(s) of conveying  
party(ies) attached Yes XX No

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

Name: International Business  
Machines Corporation

Street Address: New Orchard Road  
City: Armonk State: NY ZIP: 10504

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

3. Nature of conveyance:

XX Assignment

Execution Date: 08/17/98; 08/17/98; 08/17/98

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 No.(s)

**09/100,496**

B. Patent No.(s)

Additional numbers attached? Yes XX No

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

Name: IBM Corporation  
Internal  
Address: Intellectual Property Law  
Street  
Address: 5600 Cottle Road (L2PA/0142)  
San Jose, CA 95193

09/10/1998 JSMBRAZZ 00000037 090466 09100496

01 FC:581 40.00 CH

6. Total Number of applications and patents  
involved: **One**

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

Enclosed  
XX Authorized to be charged to  
deposit account

8. Deposit Account Number: **09-0466**

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.

Monica D. Lee  
Monica D. Lee

August 31, 1998  
Date

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

ASSIGNMENT

Docket No. JA997053

Whereas, we

INVENTOR  
AND CITY

(1) Nobuya Matsubara  
County of Kanagawa-ken  
and (2) Fuminori Sai  
County of Kanagawa-ken  
and (3) Yuzo Nakagawa  
County of Kanagawa-ken

of Fujisawa-shi,  
and State of Japan,  
of Yokohama-shi,  
and State of Japan,  
of Hiratsuka-shi,  
and State of Japan,

have invented certain improvements in

TITLE

METHOD AND APPARATUS FOR CONTROLLING READ AND WRITE OPERATIONS IN A STORAGE DEVICE

DATES THAT  
INVENTORS  
SIGNED THE  
DECLARATION

and executed, respectively, a United States patent application therefor on

(1) Aug. 17, 1998, (2) Aug. 17, 1998, (3) August 17, 1998.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed and sealed

CITY  
DATE

(1) at Fujisawa  
on Aug. 17, 1998,

Nobuya Matsubara SIGNATURE  
Nobuya Matsubara INVENTOR

CITY  
DATE

and (2) at Fujisawa  
on Aug. 17, 1998,

Fuminori Sai SIGNATURE  
Fuminori Sai INVENTOR

CITY  
DATE

and (3) at Fujisawa  
on August 17, 1998,

Yuzo Nakagawa SIGNATURE  
Yuzo Nakagawa INVENTOR