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1. Name of conveying party(ies):

Kazuhiko HAYASHI

Additional name(s) of conveying party(ies) attached?  
 yes  no

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

Name: NEC CORPORATION

Street Address: 7-1, Shiba 5-chome  
Minato-ku, Tokyo, Japan

Additional name(s) & address(es) attached?  
 yes  no

JCS41 U.S. PTO  
09/069850  
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3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date: April 23, 1998

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: 04/23/98

A. Patent Application No.(s)

B. Patent No(s).

09/069850

Additional numbers attached?  Yes  No

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

J. Frank Osha, Esq.  
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-3202

6. Total number of applications and patents involved: One

7. Total Fee (37 CFR 3.41): \$ 40.00  
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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.

J. Frank Osha, Reg. No. 24,625

April 30, 1998  
Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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01 FC-581 Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
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# Assignment

Whereas, ~~I/We~~, KAZUHIKO HAYASHI  
Tokyo, JAPAN

hereinafter called assignor(s), have invented certain improvements in  
MAGNETORESISTIVE DEVICE

and executed an application for Letters Patent of the United States of America therefor on  
April 23, 1998; and

Whereas, NEC Corporation  
7-1, Shiba 5-chome, Minato-ku, Tokyo, JAPAN

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to  
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its  
successors and assigns, the entire right, title and interest in the application and the invention disclosed  
therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and  
I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth  
in the application to the assignee, its successors and assigns; and I/we will execute without further  
consideration all papers deemed necessary by the assignee in connection with the United States application  
when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of  
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application  
number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application  
number of said application when known.

Date: 23/04/1998 s/ Kazuhiro Hayashi (林)  
KAZUHIKO HAYASHI

Date: s/ \_\_\_\_\_

Date: s/ \_\_\_\_\_

Date: s/ \_\_\_\_\_

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

8/92

Witness Akira Muto Date 23/04/1998  
AKIRA MUTO

RECORDED: 04/30/1998 Masayuki Takachi PATENT REEL: 9147 FRAME: 0569