

Form PTO-1595
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Q49959

To the Honorable Commissioner of Patents and Trademark

1. Name of conveying party(ies):
Nobuyuki ISHIWATA, Kiyotaka SHIMABAYASHI, Sinsaku
SAITHO, Hiroaki TACHIBANA, Tsutomu ISHI, Kiyokazu
NAGAHARA, Kazumasa KUMAGAI

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

3. Nature of Conveyance:

x Assignment ___ Merger
___ Security Agreement ___ Change of Name
___ Other

Execution Date: June 15, 1998

07-30-1998

DEPARTMENT OF COMMERCE
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1 document or copy thereof.

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

Name: NEC CORPORATION
7-1, Shiba 5-chome,
Minato-ku, Tokyo, Japan

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

4. Application number(s) or patent number(s): 09/055,125

If this document is being filed together with a new application, the execution date of the application is: 06/15/98

A. Patent Application No.(s)

B. Patent No(s).

Additional numbers attached? ___ Yes ___ x No

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

J. Frank Osha
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
x Enclosed. Please charge any underpayment in
connection with this Assignment to Deposit Account No. 19-
4880.

___ Authorized to be charged to Deposit Account

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.

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

7/14/98
Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 3

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PATENT

REEL: 9344 FRAME: 0100

Assignment

Whereas, I/We, Nobuyuki ISHIWATA, Kiyotaka SHIMABAYASHI, of
Sinsaku SAITHO, Hiroaki TACHIBANA
Tsutomu ISHI, Kiyokazu NAGAHARA and Kazumasa KUMAGAI
Tokyo, Japan

hereinafter called assignor(s), have invented certain improvements in
MAGNETORESISTIVE EFFECT COMPOSITE HEAD, MANUFACTURING METHOD THEREOF AND
MAGNETIC STORAGE APPARATUS
and executed an application for Letters Patent of the United States of America therefor on
June 15, 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 09/055,125, filed April 6, 1998) the filing date and application
number of said application when known.


Date: June 15, 1998 s/ Nobuyuki Ishiwata 
Nobuyuki ISHIWATA
Date: June 15, 1998 s/ Kiyotaka Shimabayashi 
Kiyotaka SHIMABAYASHI
Date: June 15, 1998 s/ Sinsaku Saitho 
Sinsaku SAITHO
Date: June 15, 1998 s/ Hiroaki Tachibana 
Hiroaki TACHIBANA
Date: June 15, 1998 s/ Tsutomu Ishi 
Tsutomu ISHI

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

For Non-U.S. Clients

Assignment

Date: June 15, 1998 s/ Kiyokazu Nagahara 
Kiyokazu NAGAHARA

Date: June 15, 1998 s/ Kazumasa Kumagai 
Kazumasa KUMAGAI

Date: s/ _____
Witness: s/ Masazumi Takenaka
Date: s/ Shiro Muta