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U.S. DEPARTMENT OF COMMERCE  
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): 1.20.04  
Keiichi Nagasaka, Yutaka Shimizu

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

Internal Address: \_\_\_\_\_

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

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Street Address: 1-1 Kamikodanaka 4-chome,  
Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 JP

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Execution Date: 12/25/2003

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

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: 07/22/03

A. Patent Application No. (s) 10/624,665

B. Patent No. (s) \_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: Patrick G. Burns

Internal Address: Greer, Burns & Crain, Ltd.

Street Address: 300 South Wacker Drive

25th Floor

City: Chicago State: IL Zip: 60606

6. Total number of applications and patents involved:

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

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

07-2069

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9. Signature.

Josh C. Snider

Name of Person Signing

Reg. No 47,954

JOSH SNIDER  
Signature

January 15, 2004

Date

01/23/2004 LMUELLER 00000133 10624665 Total number of pages including cover sheet, attachments, and documents:  3

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40.00 documents to be recorded with required cover sheet information to:  
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2500.66962

PATENT  
REEL: 014904 FRAME: 0778

**UTILITY PATENT**

**ASSIGNMENT**

FOR VALUE RECEIVED, the receipt of which is hereby acknowledged, the following inventor or inventors (hereinafter called "ASSIGNOR")

Name: Keiichi Nagasaka  
Address: c/o FUJITSU LIMITED,  
1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan  
Name: Yutaka Shimizu  
Address: c/o FUJITSU LIMITED,  
1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan

hereby assigns, transfers and sets over to:

FUJITSU LIMITED  
1-1, Kamikodanaka 4-chome, Nakahara-ku,  
Kawasaki-shi, Kanagawa 211-8588 Japan

(hereinafter called "ASSIGNEE"), the entire worldwide right, title and interest in and to the invention known as:

MAGNETORESISTIVE ELEMENT HAVING CURRENT-PERPENDICULAR-TO-THE-PLANE STRUCTURE

for which a United States Patent Application was executed on even date herewith or, if not so executed, was:

- (a) executed on \_\_\_\_\_; or
- (b) filed on \_\_\_\_\_,  
Serial No. \_\_\_\_/\_\_\_\_\_;

and all rights and privileges under any Letters Patent which may be granted thereon, including all rights, if any, to sue for past infringement.

(1) The ASSIGNOR agrees without charge to said ASSIGNEE but at its expense (a) to execute (i) all necessary papers to be used in connection with this application and any additional, continuing, or divisional applications, as the ASSIGNEE may deem necessary or expedient, (ii) all papers in connection with any interference or other legal or quasi-legal proceedings relating to this application or any additional, continuing, or divisional application thereof; (b) to cooperate with ASSIGNEE in every way possible in obtaining evidence and going forward in any such proceedings; and (c) to perform all other affirmative acts which may be necessary or

desirable to obtain a grant of a valid patent for said invention.

(2) ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue any and all Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.

(3) ASSIGNOR hereby covenants and warrants that he has full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

(4) ASSIGNOR hereby grants to the law firm of GREER, BURNS & CRAIN, LTD. of Chicago, Illinois, authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

Date Dec. 25. 03

Signature of Inventor Heiichi Nagasaka

Date Dec. 25, 2003

Signature of Inventor Yutaka Shimizu