

03-27-2002

OVER SHEET

U.S. DEPARTMENT OF COMMERCE

(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

03/13/02

Patent and Trademark Office

To the Honorable Commissioner of Patents

102032488

I original documents or copy thereof.

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Takahiko Sugawara

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: **February 6, 2002**

2. Name and address of receiving party(ies)

Name: **Fujitsu Limited**

Internal Address:

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

City: _____ State: _____ ZIP: _____

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JCS57 U.S. PTO
10/097211
03/13/02

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: **February 6, 2002**

A. Patent Application No.(s)

B. Patent No.(s)

10/097211

Additional numbers attached? () Yes (X) No

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

Name: **Patrick G. Burns
Greer, Burns & Crain, Ltd.**Internal Address: **300 South Wacker Drive
Suite 2500
Chicago, Illinois 60606**

Street Address: _____

City: _____ State: _____ ZIP: _____

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6. Total number of applications and patents involved: **1**7. Total fee (37 CFR 3.41) \$ **40.00**

(X) Enclosed

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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.***Patrick G. Burns**

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Signature

March 13, 2002

Date

3

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**PATENT
REEL: 012706 FRAME: 0585**

UTILITY PATENT

GREER, BURNS & CRAIN, LTD.
300 South Wacker Drive
Suite 2500
Chicago, Illinois 60606

ASSIGNMENT

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

Takahiko Sugawara
Name: C/O FUJITSU LIMITED,
Address: 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa
211-8588 Japan

hereby assigns, transfers and sets over to:

Name: FUJITSU LIMITED
Address: 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 SENSOR AND MANUFACTURING METHOD THEREFOR

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. ____/_____;

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(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.

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(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.

February
Date 6, 2002 Signature of inventor Takahiko Sugawara
Date _____ Signature of inventor _____
Date _____ Signature of inventor _____
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Date _____ Signature of inventor _____
Date _____ Signature of inventor _____