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<p>1. Name of Party(ies) conveying an interest:</p> <p style="text-align: center;">Masamichi Saito Toshinori Watanabe</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and Address of Party(ies) receiving an interest:</p> <p>Name: Alps Electric Co., Ltd. Internal Address: Street Address: 1-7 Yukigaya, Otsuka-cho, Ota-ku City: Tokyo State/Zip: Japan</p> <p>Additional name(s) and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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3. Description of the interest conveyed:

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Execution Date: April 17, 1998

4. Application number(s) or patent number(s). Additional sheet attached?  Yes  No

If this document is being filed together with a new application, the execution date of the application is:  
April 17, 1998  
Date

A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached?  Yes  No


<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p style="text-align: center;">BRINKS HOFER GILSON &amp; LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312)321-4200</p>	<p>6. Number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to Deposit Account No. 23-1925</p> <p>8. <input checked="" type="checkbox"/> Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.</p>
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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.

John C. Freeman, Reg. No. 34,483  
Name of Person Signing

  
Signature

5/19/98  
Date

Total number of pages including cover sheet, attachments, and document: 3

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PATENT REEL: 9188 FRAME: 0933

ASSIGNMENT

We, Masamichi Saito and Toshinori Watanabe

declare that we are citizens of Japan, that our post office address is 1-7 Yukigaya, Otsuka-cho, Ota-ku, Tokyo, Japan, hereinafter Inventors, are inventors of certain new and useful improvements in SPIN-VALVE MAGNETORESISTIVE ELEMENT

for which an application was executed on or about this day, for filing in the United States Patent and Trademark Office claiming priority of our Japanese Patent Application Number 9-149318, filed on June 6, 1997.

Now, therefore, to all whom it may concern, be it known that the Inventors hereby sells, assigns and transfers unto ALPS ELECTRIC CO., LTD., a corporation organized under the laws of Japan having a place of business at 1-7 Yukigaya, Otsuka-cho, Ota-ku, Tokyo, Japan

its successors and assigns, hereinafter Assignee, in exchange for valuable and sufficient consideration, the receipt of all of which consideration being hereby acknowledged, the entire right, title and interest, for the United States, its territories and possessions, in and to said applications and to the invention claimed or disclosed therein, all of the subject matter thereof, any United States Letters Patent granted thereon or for said subject matter or any part thereof, and any division, continuation, continuation-in-part, extension or reissue of said application or of any such Letters Patent.

Signed at: Niigata-ken, Japan

Date: April 17, 1998

Masamichi Saito  
Inventor: Masamichi Saito

SIGNED IN THE PRESENCE OF TWO WITNESSES

(1) Takashi Sato

(2) Junji Kobayashi

Signed at: Niigata-ken, Japan

Date: April 17, 1998

Toshinori Watanabe  
Inventor: Toshinori Watanabe

SIGNED IN THE PRESENCE OF TWO WITNESSES

(1) Takashi Sato

(2) Junji Kobayashi

Signed at: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Inventor:

SIGNED IN THE PRESENCE OF TWO WITNESSES

(1) \_\_\_\_\_

(2) \_\_\_\_\_