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PATENTS ONLY

Our File No. 9281-4917

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1. Name of Party conveying an interest:

Ryou Nakabayashi
Eiji Umetsu
Naoya Hasegawa

2. Name and Address of Party receiving an interest:

Name: ALPS Electric Co., Ltd.
Internal Address:
Street Address: 1-7 Yukigaya, Otsuka-cho
City: Ota-ku, Tokyo
State/Zip: Japan

Additional name(s) of conveying party(ies) attached?

Yes No

Additional name(s) and addresses attached?

Yes No

3. Description of the interest conveyed:

Assignment Change of Name Other:
 Security Agreement Merger

Execution Date: September 3, 2004

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:
September 3, 2004

Patent Application No.(s)

Patent No.(s)

101946323

Additional numbers attached? Yes No

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

BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60610
(312)321-4200
Customer Number 0757

6. Number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40
 Enclosed
 Authorized to be charged to Deposit Account No. 23-1925

8. Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.

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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.

Gustavo Siller, Jr., Reg. No. 32,305
Name of Person Signing

Signature

9/21/04
Date

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

Rev. Oct-97

09/30/2004 ECDDPER 00000054 10946323

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ASSIGNMENT

WHEREAS, Ryou Nakabayashi, Eiji Umetsu and Naoya Hasegawa

hereinafter called the "Assignors", have made the invention described in the United States patent application entitled MAGNETIC SENSOR HAVING ANTIFERROMAGNETIC LAYERS AND FREE MAGNETIC LAYER AND METHOD FOR MANUFACTURING MAGNETIC SENSOR executed by Assignors on the same date as this Assignment;

WHEREAS, ALPS ELECTRIC CO., LTD., a corporation organized and existing under the laws of Japan, having a place of business at 1-7 Yukigaya, Otsuka-cho, Ota-ku, Tokyo, Japan, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE: September 3, 2004

Ryou Nakabayashi

Inventor: Ryou Nakabayashi

WITNESSED:

DATE: September 3, 2004

Nobuhiro Hayashi

DATE: September 3, 2004

Atsushi Fukanashi

DATE: September 3, 2004

Eiji Umetsu

Inventor: Eiji Umetsu

WITNESSED:

DATE: September 3, 2004

Nobuhiro Hayashi

DATE: September 3, 2004

Atsushi Fukanashi

DATE: September 3, 2004

Naoya Hasegawa

Inventor: Naoya Hasegawa

WITNESSED:

DATE: September 3, 2004

Nobuhiro Hayashi

DATE: September 3, 2004

Atsushi Fukanashi