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11-29-1999



PATENTS ONLY

101210432

Attorney Docket No. 9281/3520

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS

Please record the attached original document or copy thereof.

1 Name of Party(ies) conveying an interest:

Koichi Nakagawa
Katsuya Sugai
Hideaki Kobayashi
Isao Nakabayashi

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

2. Name and Address of Party(ies) 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) and addresses attached?
 Yes No

09/439137
U.S. PTO

11/12/99

3. Description of the interest conveyed:

Assignment Change of Name Other:
 Security Agreement Merger

Execution Date: October 29, 1999

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:
October 29, 1999
Date

Patent Application No.(s) Patent No.(s)

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

6. Number of applications and patents involved: One

Total fee (37 CFR 3.41) \$40.00

Enclosed
 Authorized to be charged 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.

Michael E. Milz, 34,880 *Michael E. Milz* 11-12-99
Name of Person Signing Signature Date

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

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40.00 OP

ASSIGNMENT

WHEREAS, Koichi Nakagawa, Katsuya Sugai,

Hideaki Kobayashi and Isao Nakabayashi

hereinafter called the "Assignors", have made the invention described in the United States patent application entitled Crown Forming Method of Forming Crown on Floating Type Magnetic Head,

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 (\$100), 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: October 29, 1999

Hideaki Kobayashi
Inventor: Hideaki Kobayashi

WITNESSED:

DATE: October 29, 1999

Notuhiko Hayashi

DATE: October 29, 1999

Junji Kobayashi

DATE: October 29, 1999

Koichi Nakagawa
Inventor: Koichi Nakagawa

WITNESSED:

DATE: October 29, 1999

Notuhiko Hayashi

DATE: October 29, 1999

Junji Kobayashi

DATE: October 29, 1999

Isao Nakabayashi
Inventor: Isao Nakabayashi

WITNESSED:

DATE: October 29, 1999

Notuhiko Hayashi

DATE: October 29, 1999

Junji Kobayashi

DATE: October 29, 1999

Katsuya Sugai
Inventor: Katsuya Sugai

WITNESSED:

DATE: October 29, 1999

Notuhiko Hayashi

DATE: October 29, 1999

Junji Kobayashi