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PATENTS ONLY

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Journey Docket No. 9281/3435

101283478

Please record the attached original document or copy thereof.

<p>1. Name of Party(ies) conveying an interest:</p> <p>Takayuki Sugawara Takahiro Kawauchi Masahiro Tenpaku Yoshiyasu Kubota</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 City: Ota-ku, Tokyo State/Zip: Japan</p> <p>Additional name(s) and addresses attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
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3. Description of the interest conveyed:

Assignment Change of Name Other:

Security Agreement Merger

Execution Date: February 14, 2000

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:

Date

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

09/416,654

Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312)321-4200</p>	<p>6. Number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41) \$40.00</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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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., 32,305
Name of Person Signing

Signature

2/28/00
Date

Total number of pages including cover sheet, attachments, and document: 5

Page 2 of Assignment Recordal

Sony Corporation
7-35 Kitashinagawa, 6-chome,
Shinagawa-ku,
Tokyo, Japan

ASSIGNMENT

WHEREAS, TAKAYUKI SUGAWARA, TAKAHIRO KAWAUCHI, MASAHIRO TENPAKU and YOSHIYASU KUBOTA, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled MAGNETIC DISK APPARATUS WITH LOWER PROBABILITY OF OCCURRENCE OF READ ERRORS DUE TO SCRATCH OR THE LIKE ON MAGNETIC DISK SURFACE, for a full description of which reference is here made to an application for Letters Patent of the United States filed on October 12, 1999, and assigned Application Serial No. 09/416,654;

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, in Tokyo, Japan, and SONY CORPORATION, 7-35 Kitashinagawa, 6-chome, Shinagawa-ku, Tokyo, Japan, hereinafter called the "Assignees," 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 exchange for valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignees is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignees, the entire right, title and interest for the United States, its territories and possessions, 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, continuations-in-part, divisions, renewals, extensions or reissues 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 Assignees, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignees in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignees may elect to make covering the invention identified above; in vesting in the Assignees' 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 Assignees any and all additional papers which may be requested by the Assignees to carry out the terms of this Assignment.

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

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE February 14, 2000 Takayuki Sugawara
TAKAYUKI SUGAWARA

WITNESSED

DATE February 14, 2000 Akiko Taketa

DATE February 14, 2000 Megumi Takahashi

DATE February 14, 2000 Takahiro Kawauchi
TAKAHIRO KAWAUCHI

WITNESSED

DATE February 14, 2000 Akiko Taketa

DATE February 14, 2000 Megumi Takahashi

DATE February 14, 2000

Masahiro Tenpaku
MASAHIRO TENPAKU

WITNESSED

DATE February 14, 2000

Kuni Tamura

DATE February 14, 2000

Hazumi Akiyama

DATE February 14, 2000

久保田 恭
YOSHIYASU KUBOTA

WITNESSED

DATE February 14, 2000

Kuni Tamura

DATE February 14, 2000

Hazumi Akiyama