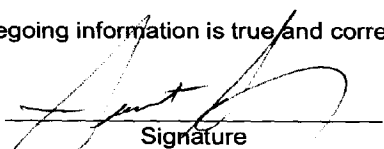


1/25/05

02-07-2005

Our File No. 9281-5008

PATENTS ONLY		TO THE COM	
Please record the at		102935664	
1. Name of Party conveying an interest:		of Party receiving an interest:	
Hirotohi Terao Tomoko Wauke Hisashi Hoshino Tsuneyuki Sasaki		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?		Additional name(s) and addresses attached?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Description of the interest conveyed:			
<input checked="" type="checkbox"/> Assignment		<input type="checkbox"/> Change of Name	
<input type="checkbox"/> Security Agreement		<input type="checkbox"/> Merger	
Execution Date: <u>January 17, 2005</u>			
Application number(s) or patent number(s). Additional sheet attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If this document is being filed together with a new application, the execution date of the application is: <u>January 17, 2005</u>			
Patent Application No.(s)		Patent No.(s)	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Number of applications and patents involved: <u>1</u>	
BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312)321-4200 Customer Number 00757		7. Total fee (37 CFR 3.41) <u>\$40</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to Deposit Account No. 23-1925	
		8. <input checked="" type="checkbox"/> Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.	
DO NOT USE THIS SPACE			
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. <u>32,305</u> Name of Person Signing		 Signature	
		<u>1/25/05</u> Date	
Total number of pages including cover sheet, attachments, and document: <u>4</u>			

112897 U.S. PTO
11/04/2016



Rev. Oct-97

02/04/2005 DBYRNE 00000127 11042016
01 FC:8021 40.00 DP

PATENT
REEL: 016224 FRAME: 0220

ASSIGNMENT

WHEREAS, Hirotoishi Terao, Tomoko Wauke, Hisashi Hoshino and
Tsuneyuki Sasaki

hereinafter called the "Assignors", have made the invention described in the United States patent application entitled THERMAL 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 (\$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: January 17, 2005

Hirotoishi Terao

Inventor: Hirotoishi Terao

WITNESSED:

DATE: January 17, 2005

Koichi Umeki

DATE: January 17, 2005

Naohisa Masuda

DATE: January 17, 2005

Tomoko Wauke

Inventor: Tomoko Wauke

WITNESSED:

DATE: January 17, 2005

Koichi Umeki

DATE: January 17, 2005

Naohisa Masuda

DATE: January 17, 2005

Hisashi Hoshino

Inventor: Hisashi Hoshino

WITNESSED:

DATE: January 17, 2005

Koichi Umeki

DATE: January 17, 2005

Naohisa Masuda

DATE: January 17, 2005

Tsuneyuki Sasaki

Inventor: Tsuneyuki Sasaki

WITNESSED:

DATE: January 17, 2005

Hoichi Umebi

DATE: January 17, 2005

Shoichi Masada

DATE: _____

Inventor:

WITNESSED:

DATE: _____

DATE: _____

DATE: _____

Inventor:

WITNESSED:

DATE: _____

DATE: _____

DATE: _____

Inventor:

WITNESSED:

DATE: _____

DATE: _____
