

12-05-2001

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JC986 U.S. PTO  
09/993437  
11/13/01

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies)

a) Akihiro KUSAKA

11/13/01

2. Name and address of receiving party(ies):

a) Name: ALPS ELECTRIC CO., LTD.

Address: 1-7 Yukigaya, Otsuka-cho  
Ota-ku, Tokyo  
JAPAN

3. Nature of conveyance



Assignment



Security Agreement



Other



Merger



Change of Name



License Agreement

Execution Date: November 1, 2001

4. Application Number(s) or Patent Number(s):

The title of the (new) application is:

PRINTED CIRCUIT BOARD HAVING A PATTERN OF TRACES FORMED BY SCREEN-PRINTING

5. Please send all correspondence concerning this (these) documents to:

**Beyer Weaver & Thomas, LLP**

**P.O. Box 778**

**Berkeley, CA 94704-0778**

**Ph: (650) 961-8300**

**Fax: (650) 961-8301**

**(Customer Number: 022434)**

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00



Enclosed



Any additional fees are authorized to be charged to Deposit Account No. 500388  
(Order No. ALPSP057)

8. 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.

Date: November 13, 2001

  
Steve D Beyer

Registration No. 31,234

11/29/2001 MWOLDER1 00000054 09993437

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Attorney Docket No. ALPSP057

(Revised 01/96)

**PATENT**  
**REEL: 012329 FRAME: 0423**

## ASSIGNMENT

WHEREAS, Akihiro Kusaka, hereinafter called the "Assignor", have made the invention described in the United States patent application entitled PRINTED CIRCUIT BOARD HAVING A PATTERN OF TRACES FORMED BY  
SCREEN-PRINTING,

executed by Assignor 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 Assignor from the Assignee is hereby acknowledged, the Assignor 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 Assignor hereby covenant and agree, for both the Assignor and the Assignor's legal representatives, that the Assignor 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 Assignor 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 Assignor has executed this agreement.

DATE: November 1, 2001

Akihiro Kusaka

Inventor: Akihiro Kusaka

WITNESSED:

DATE: November 1, 2001

Toshihiro Nakano

DATE: November 1, 2001

Takako Mizukoshi