

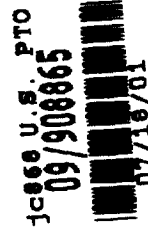
08-01-2001

ASSIGNM



IEET

101794491



To: Honorable Commissioner of Patents and Trademarks:

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

- 1. Name of conveying party(ies)
  - a) Katsutoshi Takahashi
  - b) Naoya Iwama
  - c) Takeo Yamagata
- 2. Name and address of receiving party(ies):
  - a) Name: ALPS ELECTRIC CO., LTD.
  - Address: 1-7 Yukigaya,  
Otsuka-cho, Ota-ku,  
Tokyo, JAPAN

*07/18/01*

- 3. Nature of conveyance
 

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	<input type="checkbox"/> License Agreement

Execution Date: July 3, 2001

- 4. Application Number(s) or Patent Number(s): Filed Herewith *09/988865*

The title of the (new) application is: SHEET HAVING MOVING CONTACTS AND SHEET SWITCH

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

**Customer Number: 022434**  
 BEYER WEAVER & THOMAS, LLP  
 P.O. Box 778  
 Berkeley, CA 94704-0778  
 Phone (650) 961-8300  
 Fax (650) 961-8301

- 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. ALPSP043)

- 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: July 18, 2001

Steve D. Beyer  
 Registration No. 31,234

07/24/2001 HDEMESS1 00000001 09908865  
 01 FC:581 40.00 DP

Attorney Docket No. ALPSP043

(Revised 01/96)

PATENT  
REEL: 012015 FRAME: 0604

## ASSIGNMENT

WHEREAS, Katsutoshi Takahashi, Naoya Iwama and Takeo

Yamagata,

hereinafter called the "Assignors", have made the invention described in the United States patent application entitled SHEET HAVING MOVING CONTACTS AND SHEET

SWITCH,

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: July 3, 2001

Katsutoshi Takahashi

Inventor: Katsutoshi Takahashi

WITNESSED:

DATE: July 3, 2001

Koji Nakamura

DATE: July 3, 2001

Kazumi Oba

DATE: July 3, 2001

Naoya Iwama

Inventor: Naoya Iwama

WITNESSED:

DATE: July 3, 2001

Koji Nakamura

DATE: July 3, 2001

Kazumi Oba

DATE: July 3, 2001

Takeo Yamagata

Inventor: Takeo Yamagata

WITNESSED:

DATE: July 3, 2001

Koji Nakamura

DATE: July 3, 2001

Kazumi Oba