

11-25-2002

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JC996 U.S. PTO
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11/14/02

To: Honorable Commissioner of Patents and Trademarks:

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

- 1. Name of conveying party(ies)
 - a) Munemitsu ABE
- 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

<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: November 11, 2002

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10-14-02

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

The title of the (new) application is:

OPTICAL MULTIPLEXER/DEMULTIPLEXER AND MANUFACTURING METHOD THEREOF AND OPTICAL MULTIPLEXING/DEMULTIPLEXING MODULE

- 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

YOE

- Enclosed
- Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. ALPSP098)

- 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 14, 2002

Steve D Beyer

Steve D Beyer
Registration No. 31,234

11/19/2002 EFLORES 00000046 10295547
03 FC:8021 40.00 DP

Attorney Docket No. ALPSP098

(Revised 12/01)

PATENT
REEL: 013505 FRAME: 0796

ASSIGNMENT

WHEREAS, Munemitsu Abe, hereinafter called the "Assignor", have made the invention described in the United States patent application entitled OPTICAL MULTIPLEXER/DEMULTIPLEXER AND MANUFACTURING METHOD THEREOF AND OPTICAL MULTIPLEXING/DEMULTIPLEXING MODULE, 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 11, 2002

Munemitsu Abe

Inventor: Munemitsu Abe

WITNESSED:

DATE: November 11, 2002

Takashi Idatani

DATE: November 11, 2002

Eiji Shinohara