

01-03-2001



PATENTS ONLY

101569641

Our File No. 9281-10 (1D)

TO THE COMMISSIONER OF PATENTS

12.14.00

Please record the attached original document or copy thereof.

<p>1. Name of Party(ies) conveying an interest:</p> <p>Frontec Incorporated 3-31 Ake-dori, Izumi-ku Sendai-shi, Miyagi-ken, Japan</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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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3. Description of the interest conveyed:

☒ Assignment ☐ Change of Name Other:

☐ Security Agreement ☐ Merger

Execution Date: December 1, 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

Patent Application No.(s)

Patent No.(s)

5,982,462

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 &amp; 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</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.  
Name of Person Signing

Signature

Date

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

Rev. Oct-97

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PATENT  
REEL: 011369 FRAME: 0988

## ASSIGNMENT

WHEREAS, FRONTEC INCORPORATED, a corporation organized and existing under the laws of Japan, having a place of business at 3-31 Ake-dori, Izumi-ku, Sendai-shi, Miyagi-ken, Japan; Tadashi Shibata residing at 5-2 Nihondaira, Taihaku-ku, Sendai-shi, Miyagi-ken, Japan; and Tadahiro Ohmi residing at 2-1-17 Komegafukuro, Aoba-ku, Sendai-shi, Miyagi-ken, Japan are the owners of the entire right, title, and interest in and to the following patents and patent applications, as well as all inventions disclosed or claimed therein. Whereas Frontec Incorporated, hereinafter called the "Assignor" desires to assign its entire right, title and interest in the following patent and patent application, as well as all inventions disclosed and claimed therein:

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, hereinafter called the "Assignee," desires to acquire the Assignor's entire right, title and interest in and to the patent and patent application identified below, as well as all inventions disclosed or claimed therein and to all patents which may be obtained for said inventions, as set forth below;

Patent No.	Serial No.	Inventor(s)	Title
5,982,462	08/812,776	Akira Nakano et al.	Inverse Stagger Or Planar Type Thin-Film Transistor Device And Liquid-Crystal Display Apparatus Having Floating Gate Electrode Which Is Capacitively Coupled With One Or More Input Electrodes

NOW, THEREFORE, in exchange for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer to the Assignee, the Assignor's entire right, title and interest for the United States, its territories and possessions, in and to the inventions and the patent and patent application identified above, and any patents that may issue for said inventions in the United States; together with the Assignor's entire right, title and interest in and to said inventions and all patent and patent application 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 Assignor's entire right, title and interest in and to all continuations, continuations-in-part, divisions, renewals, extensions or reissues of the patent and patent application identified above; to have and to hold for the use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

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.

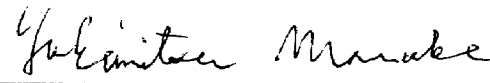
FRONTEC INCORPORATED

DATE December 1, 2000

By   
Yasuhiro Takeda  
Title President

WITNESSED

DATE December 1, 2000



DATE December 1, 2000

