

03-23-2007

U.S. PTO  
11/714661  
03/05/2007

ASSIGN. 103386198

R SHEET

-PATENTS ONLY-

Commissioner of Patents:

Please record the attached document.

## 1. Name of conveying party:

- a) Hisanori KAGAWA
- b) Tadaomi YAMANO
- c) Yutaka MOMMA

## 2. Name and address of receiving party:

- 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: February 27, 2007

## 4. Application Number or Patent Number:

The title of the application is:

HIGH-PERFORMANCE, SMALL AND INEXPENSIVE DIGITAL BROADCAST TUNER AND DIGITAL  
BROADCAST RECEIVER HAVING THE SAME

## 5. Please send all correspondence concerning this document to:

**Beyer Weaver LLP**  
**P.O. Box 70250**  
**Oakland, CA 94612-0250**  
**Customer Number: 022434**

## 6. Total number of applications and patents involved: 1

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

- ☒ Enclosed.
- ☐ Charge to Deposit Account No. 500388 (Order No. \_\_\_\_\_).
- ☒ Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. ALPSP288).

Date: March 5, 2007

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 Steve D Beyer

Registration No. 31,234

Total number of pages including this cover sheet, attachments and documents: 03

Attorney Docket No. ALPSP288

(Revised 9/03)

**PATENT**  
**REEL: 019075 FRAME: 0617**

**ASSIGNMENT**

WHEREAS, Hisanori Kagawa, Tadaomi Yamano and Yutaka Momma

hereinafter called the "Assignors", have made the invention described in the United States patent application entitled HIGH-PERFORMANCE, SMALL AND INEXPENSIVE DIGITAL BROADCAST TUNER AND DIGITAL BROADCAST RECEIVER HAVING THE SAME

executed by Assignors on the same date as, or on a date prior to, 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, in 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; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; 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: February 27, 2007 Hisanori Kagawa  
Inventor: Hisanori Kagawa

WITNESSED:

DATE: February 27, 2007 Mitsumasa Yoda

DATE: February 27, 2007 Yoshihisa Kishimoto

DATE: February 27, 2007 Tadaomi Yamano  
Inventor: Tadaomi Yamano

WITNESSED:

DATE: February 27, 2007 Mitsumasa Yoda

DATE: February 27, 2007 Yoshihisa Kishimoto

DATE: February 27, 2007 Yutaka Momma  
Inventor: Yutaka Momma

WITNESSED:

DATE: February 27, 2007 Satoru Matsuzaki

DATE: February 27, 2007 Yoshio Sugimori

DATE: \_\_\_\_\_  
Inventor: \_\_\_\_\_

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_