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02-01-2000

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y thereof.

1. Name of Party(ies) conveying an interest:

ess of Party(ies) receiving an interest:

HITOSHI SHIRASHIMA
SHOJI SUZUKIName: ALPINE ELECTRONICS, INC.
Street Address: 1-1-8 Nishi-Gotanda
City: Shinagawa-ku, Tokyo
Country: JAPAN
Additional name(s) and addresses attached?

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No☐ Yes ☒ No

3. Description of the interest conveyed:

☒ Assignment ☐ Change of Name Other:☐ Security Agreement ☐ Merger

Execution Date: December 14, 1999

4. 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:

Date

A. Patent Application No.(s)
09/429,500

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60610
(312)321-4200

6. Number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40

☒ Enclosed☐ Authorized to be charged to Deposit Account No. 23-19258. ☒ Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.

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9. 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.

Daniel B. Burg, Reg. No. 41,649
Name of Person Signing

Signature

January 19, 2000
Date

Total number of pages including cover sheet, attachments, and document: 3

Rev. Nov-98

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PATENT
REEL: 010507 FRAME: 0339

ASSIGNMENT

WHEREAS, **HITOSHI SHIRASHIMA** and **SHOJI SUZUKI**, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled **DISC APPARATUS**, for a full description of which reference is here made to an application for Letters Patent of the United States filed on **October 27, 1999**, and assigned **Application Serial No. 09/429,500**;

WHEREAS, **ALPINE ELECTRONICS, INC.**, a corporation organized and existing under the laws of Japan, having a place of business at 1-1-8 Nishi-Gotanda, Shinagawa-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 exchange for 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, its territories and possessions, 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, continuations-in-part, divisions, renewals, extensions or reissues 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: '99/12/14 Hitoshi Shirashima
HITOSHI SHIRASHIMA

WITNESSED:

DATE: '99/12/14 Takeshi Yoshida

DATE: '99/12/14 Ayusa Endo

DATE: '99/12/14 Shoji Suzuki
SHOJI SUZUKI

WITNESSED:

DATE: '99/12/14 Takeshi Yoshida

DATE: '99/12/14 Ayusa Endo