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| To the Director of the U.S. Patent and Traden | Client/Matter No. 9333-514 | | | |
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| 1. Name of conveying Party (les) Execution Date: SATOSHI HAGA Additional name(s) of conveying party(les) etteched? State: Street Address: Str | RECC :T | | | |
| 1. Name of conveying Party (les) Execution Date: SATOSHI HAGA Additional name(s) of conveying party(les) etteched? State: Street Address: Str | To the Director of the U.S. Petent and Trades 103344815 | | | |
| Additional name(s) of conveying party(ies) attached? Yes No State: Tokyo | Name of conveying Party(ies)/Execution Date: | 2. Name and Addre | ess of receiving Party(ies): | |
| Street Address: 1-1-8 Nishi-Gotanda City: Shinagawa-ku State: Tokyo Country: Japan Zip: Additional name(s) and addresses attached? Yes No 3. Nature of Conveyance: Execution Date(s):November 17, 2006 Assignment | SATOSHI HAGA | Name: | ALPINE ELECTRONICS, INC. | |
| Additional name(s) of conveying party(les) ettached? Yes No State: Tokyo | | Internal Address: | | |
| Additional name(s) of conveying party(les) attached? Yes No | | Street Address: | 1-1-8 Nishi-Gotanda | |
| State: Tokyo Country: Japan Zip: Additional name(s) and addresses attached? Yes No 3. Nature of Conveyance: Execution Date(s):November 17, 2008 Assignment | Additional name(s) of conveying party(ies) attached? | City: | Shinagawa-ku | |
| Country: Japan Zip: Additional name(s) and addresses attached? ☐ Yes ☒ No 3. Nature of Conveyance: Execution Date(s): November 17, 2008 ☒ Assignment ☐ Change of Name ☐ Executive Order 9424, Confirmatory License ☐ Security Agreement ☐ Merger ☐ Joint Research Agreement ☐ Government Interest Assignment ☐ Other 4. Application or partent number(s). A. Patent Application No.(s) ☐ This document is being filed together with a new application. B. Patent No.(s) ☐ B. Patent No.(s) 11/522,308 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 50610 (312) 321-4209 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 50610 (312) 321-4299 Fax Authorized to be charged by credit card. ☑ Authorized to be charged to Deposit Account No. 23-1925. ☐ Enclosed None required (government interest not affecting title) 8. Payment Information: a. ☐ Credit Card: Last 4 Numbers ☐ Expiration Date b. ☒ Charge fee and/or any Deficiencies to Deposit of Account Number: 23-1925 ☐ Authorized User Name Brinks Hofer Gilson & Lione November 30, 2006 ☐ Date ☐ Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) ☐ Authorized to be charged by credit card. ☐ Authorized to be charged to Deposit Account No. 23-1925. ☐ Charge fee and/or any Deficiencies to Deposit of Account Number: ☐ Authorized User Name Brinks Hofer Gilson & Lione November 30, 2006 ☐ November 30, 2006 ☐ Date ☐ Total number of applications and patents involved: 1 November 30, 2006 ☐ Authorized of Deposit Account Number ☐ Date ☐ November 30, 2006 ☐ Date ☐ Total number of applications and patents involved: 1 ☐ November 30, 2006 ☐ Date ☐ Total rumber of applications and patents involved: 1 ☐ Charge General November 23-1925 ☐ Santa November 30, 2006 ☐ Date ☐ Total rumber of applications and patents involved: 1 ☐ November 30, 2006 ☐ Date ☐ Total rumber Of applications and patents involved: 1 ☐ Charge Gene | | State: | | |
| 3. Nature of Conveyance: Execution Date(s):November 17, 2006 Assignment | | Country: | Japan Zip: | |
| Execution Date(s):November 17, 2006 Assignment | | Additional name(s) and addresses attached? Yes No | | |
| Security Agreement | | | | |
| Government Interest Assignment ☐ Other 4. Application or patent number(s). A. Patent Application No.(s) Additional numbers attached? ☐ Yes ☒ No Second No.(s) | ☐ Assignment ☐ Change of Name | Executive Order 9424, Confirmatory License | | |
| 4. Application or patent number(s). A Patent Application No.(s) 11/522,308 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 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 40.00 CHICAGO, IL 60610 (312) 4 | Security Agreement Merger | ☐ Joint R | esearch Agreement | |
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| Scott W. Brim Total number of pages including cover 😕 👸 | 9. Signature: | | 30, 2006 | |
| Name of Person Signing sheet attachments and documents: 4 | | | | |
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PAGE 4/6 * RCVD AT 11/30/2006 2:25:02 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-2/10 * DNIS:2738300 * CSID:13123214299 * DURATION (mm-ss):02-06

Case No. 9333/514

ASSIGNMENT

WHEREAS, Satoshi Haga, hereinafter called the "Assignor", has made the invention described in the United States patent application entitled "Disk-Storing Disk Device", filed on September 15, 2006 and assigned Serial No. 11/522,308;

WHEREAS, <u>ALPINE ELECTRONICS</u>, 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 Assignor from the Assignee is hereby acknowledged, the Assignor has 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-inpart, divisions, renewals, extensions or reissues 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 Assignor hereby covenants and agrees, for both the Assignor and the Assignors' 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 17, 2006
WITNESSED:

DATE: November 17, 2006 Shing Watabayashi

DATE: November 17, 2006 Masshir Olumma

- 2 -