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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3879314

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|---|-------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ALPS ELECTRIC CO. LTD. | 10/05/2015 |
| RECEIVING PARTY DATA | |
| Name: | SYNAPTICS INCORPORATED |
| Street Address: | 1251 MCKAY DRIVE |
| City: | SAN JOSE |
| State/Country: | CALIFORNIA |
| Postal Code: | 95131 |
| PROPERTY NUMBERS Total: 6 | |
| Property Type | Number |
| Patent Number: | 7075316 |
| Patent Number: | 7078918 |
| Patent Number: | 7084645 |
| Patent Number: | 7088461 |
| Patent Number: | 7102364 |
| Patent Number: | 7570789 |
| CORRESPONDENCE DATA | |
| Fax Number: | (713)228-8778 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Email: | hathaway@oshaliang.com |
| Correspondent Name: | OSHA LIANG LLP |
| Address Line 1: | 909 FANNIN STREET, SUITE 3500 |
| Address Line 4: | HOUSTON, TEXAS 77010 |
| ATTORNEY DOCKET NUMBER: | 38018/001001 |
| NAME OF SUBMITTER: | ROBERT P. LORD |
| SIGNATURE: | /Robert P. Lord/ |
| DATE SIGNED: | 05/18/2016 |
| Total Attachments: 5 | |
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EXHIBIT B
Assignment

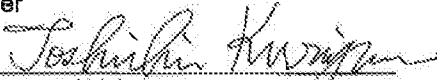
WHEREAS, Alps Electric Co. LTD., having a principal place of business at 1-7, Yukigaya-otsukamachi, Ota-ku, Tokyo, 145-8501, Japan (hereinafter "ASSIGNOR") is the owner of the patents and applications listed on Exhibit A, and the inventions disclosed therein, (the "Patents"), and

WHEREAS, Synaptics Incorporated, a Delaware corporation having a place of business at 1251 McKay Drive, San Jose, CA 95131 USA (hereinafter "ASSIGNEE") desires to acquire ASSIGNOR's entire right, title, and interest in and to the Patents,

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, irrevocably and unconditionally, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire, worldwide, right, title, and interest of ASSIGNOR in, to, and under the Patents and all existing or future patents that are priority documents for, or claim priority to or common priority with, the Patents, and the inventions disclosed therein (regardless of whether claimed) including but not limited to (a) all rights of ASSIGNOR in any and all reissues, reexaminations, renewals, and extensions of the Patents that have been or may hereafter be filed as well as all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs for the inventions in the United States or in any country or countries foreign to the United States, and (b) all rights of ASSIGNOR in all claims, causes of action and enforcement rights, whether currently pending, filed, or otherwise, for the Patents, including without limitation all rights to pursue damages, injunctive relief and other remedies for past, current and future infringement of the Patents, and the right to collect royalties or other payments under or on account of any of the Patents.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 5 day of Oct. 2015.

Seller



[Name and Title] Toshihiro KURIYAMA
President

STATE OF ALPS ELECTRIC CO., LTD.

COUNTY OF Tokyo, JAPAN

On _____ before me, _____, personally appeared and is personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Notary Signature

Confidential
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PATENT
REEL: 038638 FRAME: 0449

認 証

囑託人 アルプス電気株式会社代表取締役 栗山 年弘 の代理人
三木 要人 は、本職に対し、栗山 年弘 が添付書類の署名につき、
自らしたものであることを承認している旨陳述した。

よって、これを認証する。

平成27年 10 月 5 日、本公証人役場において

東京都品川区東五反田5丁目27番6号

東京法務局所属

公 証 人
Notary

山 本 博



Hiroshi YAMAMOTO

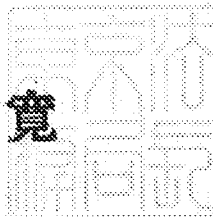
証 明

上記署名は、東京法務局所属公証人の署名に相違ないものであり、かつ、その押印は、
真実のものであることを証明する。

平成27年 10 月 5 日

東京法務局長

加藤 朋 寛



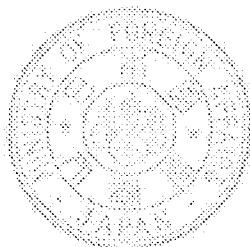
APOSTILLE

(Convention de La Haye du 5 octobre 1961)

- 1. Country: JAPAN
This public document
- 2. has been signed by **Hiroshi YAMAMOTO**
- 3. acting in the capacity of Notary of the Tokyo Legal Affairs Bureau
- 4. bears the seal/stamp of **Hiroshi YAMAMOTO, Notary**

Certified

- 5. at Tokyo
- 6. OCT. 5, 2015
- 7. by the Ministry of Foreign Affairs
- 8. 15-N^o 036110
- 9. Seal/stamp:
- 10. Signature



A. Ogawa


Ayako OGAWA

For the Minister for Foreign Affairs

Registered No. 2045

NOTARIAL CERTIFICATE

This is to certify that Kaname Miki, an agent of Toshihiro Kuriyama, President of Alps Electric Co., Ltd. has stated in my presence that the said Toshihiro Kuriyama acknowledged to have signed the attached document on this 5th day of October, 2015.


Hiroshi YAMAMOTO

NOTARY

5-27-6, higashi-gotanda, Shinagawa-ku, Tokyo Japan

Tokyo Legal Affairs Bureau



1908

Patent Office

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the Patent Office, at Washington, D.C., this 10th day of August, 1908.

[Signature]

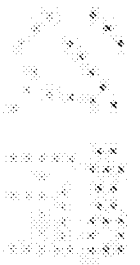


EXHIBIT A
Patents

| Family # | Title | Country | Patent # | Application # | Filing Date | Status |
|----------|---|---------|----------------|----------------|-------------|----------------|
| 1 | Capacitance detector, method of detecting capacitance, and fingerprint sensor | JP | 4036798 | 2003-203012 | 2003-07-29 | Granted, Alive |
| 2 | Input Device | JP | 4496065 | 2004-348125 | 2004-12-01 | Granted, Alive |
| 3 | Capacitance detector circuit, capacitance detection method, and fingerprint sensor using the same | US | 7075316 | 10/941,605 | 2004-09-14 | Granted, Alive |
| | | JP | 4164427 | 2003-344767 | 2003-10-02 | Granted, Alive |
| | | CN | 200410083499.3 | 200410083499.3 | 2004-10-08 | Granted, Alive |
| 4 | Capacitance detecting circuit and method, and fingerprint sensor using the same | US | 7078918 | 10/986,505 | 2004-11-10 | Granted, Alive |
| | | JP | 4387773 | 2003-394001 | 2003-11-25 | Granted, Alive |
| 5 | Capacitance detecting circuit and method, and fingerprint sensor using the same | US | 7084645 | 10/986,499 | 2004-11-10 | Granted, Alive |
| | | JP | 4364609 | 2003-394002 | 2003-11-25 | Granted, Alive |
| 6 | Printer for printing in conjunction with a server | US | 7088461 | 09/898,684 | 2001-07-02 | Granted, Alive |
| 7 | Capacitance detecting circuit and method, and fingerprint sensor employing the same | US | 7102364 | 10/981,871 | 2004-11-04 | Granted, Alive |
| | | JP | 4440603 | 2003-376673 | 2003-11-06 | Granted, Alive |
| 8 | Charge detecting circuit and fingerprint sensor using the same | US | 7570789 | 11/099,829 | 2005-04-05 | Granted, Alive |
| | | JP | 4447952 | 2004-113015 | 2004-04-07 | Granted, Alive |
| | | CN | 200510063872.3 | 200510063872.3 | 2005-04-07 | Granted, Alive |

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