

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4913237

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PETR SHEPELEV	02/27/2018
ERIK THOMPSON	02/26/2018
MICHITOSHI HONMA	04/04/2018
TOSHIFUMI OGATA	04/10/2018
GORO SAKAMAKI	04/04/2018
TAKASHI NOSE	04/10/2018
HIROBUMI FURIHATA	04/11/2018
RECEIVING PARTY DATA	
Name:	SYNAPTICS INCORPORATED
Street Address:	1251 MCKAY DRIVE
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95131
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15916034
CORRESPONDENCE DATA	
Fax Number:	(713)623-4846
<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>	
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Correspondent Name:	PATTERSON & SHERIDAN, LLP
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Address Line 4:	SHREWSBURY, NEW JERSEY 07702
ATTORNEY DOCKET NUMBER:	SYNA/170062US01
NAME OF SUBMITTER:	KEITH TABOADA
SIGNATURE:	/Keith Taboada/

DATE SIGNED:	04/12/2018
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Total Attachments: 9

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SYNAPTICS INCORPORATED ASSIGNMENT AGREEMENT – WORLDWIDE

WHEREAS, We, the undersigned individuals, have invented certain invention(s) described in an application for Letters Patent (the "Application") in:

the United States Japan Another jurisdiction _____

previously filed on date March 8, 2018 under Serial No. 15/916,034

with docket number SYNA/170062US01 and title: OPTICAL FINGERPRINT SENSOR ILLUMINATION USING A DISPLAY

WHEREAS, SYNAPTICS INCORPORATED, a corporation of the State of Delaware, having a place of business at 1251 McKay Drive; San Jose, CA 95131; U.S.A. ("Synaptics"), desires to acquire the entire right, title, and interest in and to the invention(s) disclosed in the Application and all embodiments of such invention(s) previously conceived, made, or discovered by me during my employment with or within the scope of my work in any capacity for Synaptics (collectively, the "Inventions"), and in and to the Application and any and all other applications for utility patents, utility models, inventor's certificates, and other forms of invention protection or rights for the Inventions in any and all countries and groups of countries (collectively the "Applications"), and in and to any and all patents, inventors certificates, and other forms of invention protection or rights arising therefrom (the "Patents").

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by me to have been received in full from Synaptics:

1. We hereby sell, assign, transfer and convey to Synaptics the entire right, title and interest (a) in and to the Inventions and the Application; (b) in and to all rights to apply for patents and all other forms of invention protection or rights on the Inventions in any and all countries pursuant to the Paris Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on the Inventions in any and all countries and groups of countries, including each and every application filed and each and every patent granted on any application which is a conventional, division, substitution, continuation, or continuation-in-part of any of the Applications; and (d) in and to each and every reissue or extension of any of the Patents.

2. We hereby covenant and agree to cooperate with Synaptics to enable Synaptics to enjoy to the fullest extent the right, title and interest to the Inventions herein conveyed in any and all countries and groups of countries. Our cooperation shall include prompt production of pertinent facts and documents, giving testimony, executing petitions, oaths, specifications, declarations or other papers, and providing other assistance to the extent deemed necessary or desirable by Synaptics (a) for perfecting in Synaptics the right, title and interest herein conveyed; (b) for prosecuting the Applications; (c) for filing and prosecuting substitute, conventional, divisional, continuation, continuation-in-part, or additional applications covering the Inventions; (d) for filing and prosecuting applications for reexamination or reissuance of any of the Patents; (e) in assisting Synaptics in any pre-grant or post-grant proceeding involving any of the Inventions, Applications, or Patents; and (f) in assisting Synaptics in any court or administrative proceeding involving any of the Inventions, Applications, or Patents, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, and infringement actions; provided, however, that reasonable expenses incurred by me in providing such cooperation shall be paid for by Synaptics.

3. We hereby agree that the terms and covenants of this Assignment Agreement (the "Agreement") shall inure to the benefit of Synaptics, its successors, assigns and other legal representatives, and shall be binding upon me, my heirs, my legal representatives, and my assigns.

4. We hereby warrant and represent that we have not entered into and will not enter into any assignment, license, contract, or understanding in conflict herewith.

5. We hereby agree that if any provision of this Agreement is deemed invalid or otherwise unenforceable, the remaining provisions of this Agreement shall remain valid, enforceable, and binding, and the invalid or otherwise unenforceable provision shall be deemed to be replaced by a provision that is valid and enforceable and that comes closest to expressing the intent expressed by the invalid or unenforceable provision.

6. We hereby agree that this Agreement contains the entire understanding between Synaptics and us relating to the subject matter contained herein, and supersedes all prior and collateral communications and understandings between Synaptics and us.

7. In the event that the filing date or application number of the Application is not entered at the time we execute this document, and if such information is deemed necessary, we hereby authorize Synaptics, its successors and assigns, its legal representatives, or anyone it properly designates to enter above such filing date or application number.

IN WITNESS WHEREOF, we have executed and delivered this instrument to Synaptics on the date indicated below.

(Printed legal name of inventor) Petr SHEPELEV

(Inventor's Signature)  (Date) 27 Feb 2018

(Inventor's mailing address) 1251 McKay Drive
San Jose, California 95131

(Printed legal name of inventor) Erik THOMPSON

(Inventor's Signature) _____ (Date) _____

(Inventor's mailing address) 1251 McKay Drive
San Jose, California 95131

(Printed legal name of inventor) Michitoshi HONMA

(Inventor's Signature) _____ (Date) _____

(Inventor's mailing address) c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo
164-0001; JAPAN

(Printed legal name of inventor) Toshifumi OGATA

(Inventor's Signature) _____ (Date) _____

c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo

(Inventor's mailing address) 164-0001; JAPAN

(Printed legal name of inventor) Goro SAKAMAKI

(Inventor's Signature) _____ (Date) _____

c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo

(Inventor's mailing address) 164-0001; JAPAN

(Printed legal name of inventor) Takashi NOSE

(Inventor's Signature) _____ (Date) _____

c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo

(Inventor's mailing address) 164-0001; JAPAN

(Printed legal name of inventor) Hirohumi FURIHATA

(Inventor's Signature) _____ (Date) _____

c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo

(Inventor's mailing address) 164-0001; JAPAN

SYNAPTICS INCORPORATED ASSIGNMENT AGREEMENT – WORLDWIDE

WHEREAS, We, the undersigned individuals, have invented certain invention(s) described in an application for Letters Patent (the "Application") in:

the United States Japan Another jurisdiction

enclosed herewith

with docket number SYNA/170062US01 and title: OPTICAL FINGERPRINT SENSOR ILLUMINATION USING A DISPLAY

WHEREAS, SYNAPTICS INCORPORATED, a corporation of the State of Delaware, having a place of business at 1251 McKay Drive; San Jose, CA 95131; U.S.A. ("Synaptics"), desires to acquire the entire right, title, and interest in and to the invention(s) disclosed in the Application and all embodiments of such invention(s) previously conceived, made, or discovered by me during my employment with or within the scope of my work in any capacity for Synaptics (collectively, the "Inventions"), and in and to the Application and any and all other applications for utility patents, utility models, inventor's certificates, and other forms of invention protection or rights for the Inventions in any and all countries and groups of countries (collectively the "Applications"), and in and to any and all patents, inventor's certificates, and other forms of invention protection or rights arising therefrom (the "Patents").

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2. We hereby covenant and agree to cooperate with Synaptics to enable Synaptics to enjoy to the fullest extent the right, title and interest to the Inventions herein conveyed in any and all countries and groups of countries. Our cooperation shall include prompt production of pertinent facts and documents, giving testimony, executing petitions, oaths, specifications, declarations or other papers, and providing other assistance to the extent deemed necessary or desirable by Synaptics (a) for perfecting in Synaptics the right, title and interest herein conveyed; (b) for prosecuting the Applications; (c) for filing and prosecuting substitute, conventional, divisional, continuation, continuation-in-part, or additional applications covering the Inventions; (d) for filing and prosecuting applications for reexamination or reissuance of any of the Patents; (e) in assisting Synaptics in any pre-grant or post-grant proceeding involving any of the Inventions, Applications, or Patents; and (f) in assisting Synaptics in any court or administrative proceeding involving any of the Inventions, Applications, or Patents, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, and infringement actions; provided, however, that reasonable expenses incurred by me in providing such cooperation shall be paid for by Synaptics.

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(Printed legal name of inventor) Petr SHEPELEV

(Inventor's Signature) _____ (Date) _____

(Inventor's mailing address) 1251 McKay Drive
San Jose, California 95131

(Printed legal name of inventor) Erik THOMPSON

(Inventor's Signature)  _____ (Date) 2/26/18

(Inventor's mailing address) 1251 McKay Drive
San Jose, California 95131

(Printed legal name of inventor) Michitoshi HONMA

(Inventor's Signature) _____ (Date) _____

(Inventor's mailing address) c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo
164-0001; JAPAN

(Printed legal name of inventor) Toshifumi OGATA

(Inventor's Signature) _____ (Date) _____

c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
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(Inventor's mailing address) 164-0001; JAPAN

(Printed legal name of inventor) Goro SAKAMAKI

(Inventor's Signature) _____ (Date) _____

c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo

(Inventor's mailing address) 164-0001; JAPAN

(Printed legal name of inventor) Takashi NOSE

(Inventor's Signature) _____ (Date) _____

c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo

(Inventor's mailing address) 164-0001; JAPAN

(Printed legal name of inventor) Hirobumi FURIHATA

(Inventor's Signature) _____ (Date) _____

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10-2, Nakano 4-Chome, Nakano-ku
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(Inventor's Signature) _____ (Date) _____

(Inventor's mailing address) 1251 McKay Drive
San Jose, California 95131

(Printed legal name of inventor) Michitoshi HONMA

(Inventor's Signature)  (Date) 04/04/2018

(Inventor's mailing address) c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo
164-0001; JAPAN

(Printed legal name of inventor) Toshifumi OGATA

(Inventor's Signature) Toshifumi Ogata (Date) April 10, 2018

c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo

(Inventor's mailing address) 164-0001; JAPAN

(Printed legal name of inventor) Goro SAKAMAKI

(Inventor's Signature) Goro SAKAMAKI (Date) April 9, 2018

c/o Synaptics Japan GK
10-2, Nakano 4-Chome, Nakano-ku
Tokyo

(Inventor's mailing address) 164-0001; JAPAN

(Printed legal name of inventor) Takashi NOSE

(Inventor's Signature) Takashi Nose (Date) Apr. 10, 2018

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Tokyo

(Inventor's mailing address) 164-0001; JAPAN

(Printed legal name of inventor) Hirobumi FURIHATA

(Inventor's Signature) Hirobumi Furihata (Date) April 11, 2018

c/o Synaptics Japan GK
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(Inventor's mailing address) 164-0001; JAPAN