505293738 01/24/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5340515

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	DATA				
		Name	Execution Date		
PATRICK SMITH			12/13/2018		
PAUL WICKBOLDT			01/23/2019		
MAREK MIENKO			11/06/2018		
PASCALE EL KALLAS	SI		10/16/2018		
RECEIVING PARTY D	ΑΤΑ				
Name:	SYNAP	TICS INCORPORATED			
Street Address:	1251 M	CKAY DRIVE			
City:	SAN JC	DSE			
State/Country:	CALIFC	DRNIA			
Postal Code:	95131				
PROPERTY NUMBER Property Type	S Total: 1	Number			
PROPERTY NUMBER	S Total: 1	Number			
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PROPERTY NUMBER Property Type	S Total: 1				
PROPERTY NUMBER Property Type Application Number: CORRESPONDENCE	S Total: 1	16093794			
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PROPERTY NUMBER Property Type Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will</i> <i>using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	S Total: 1	(312)616-5700 the e-mail address first; if that is unsuc if that is unsuccessful, it will be sent with 312-616-5600 assignments@leydig.com LEYDIG, VOIT & MAYER (WALNUT CREIN 180 N. STETSON TWO PRUDENTIAL PLAZA, SUITE 4900 CHICAGO, ILLINOIS 60601	ria US Mail.		
PROPERTY NUMBER Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	S Total: 1	(312)616-5700 the e-mail address first; if that is unsuc if that is unsuccessful, it will be sent v 312-616-5600 assignments@leydig.com LEYDIG, VOIT & MAYER (WALNUT CREI 180 N. STETSON TWO PRUDENTIAL PLAZA, SUITE 4900 CHICAGO, ILLINOIS 60601 160250US02/740609	ria US Mail.		

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SYNAPTICS INCORPORATED ASSIGNMENT AGREEMENT - WORLDWIDE

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

Ξ the United States Japan another jurisdiction _____;

enclosed herewith or E previously filed on date October 15, 2018 under Serial No. 16/093,794;

with docket number and title: <u>160250US02/740609</u>; <u>SYSTEMS AND METHODS FOR INJECTING</u> LIGHT INTO COVER GLASS.

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 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 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. I 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 applications; and (d) in and to each and every reissue or extension of any of the Patents.

2. I 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. My 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. I 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.

Synaptics Incorporated Assignment Agreement v. 2014-10-15

Page 1 of 3

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

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

7. In the event that the filing date or application number of the Application is not entered at the time I execute this document, and if such information is deemed necessary, I 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, I have executed and delivered this instrument to Synaptics on the date indicated below.

(Printed legal name of inventor)Patrick Smith
(Inventor's signature)(Date)(Date)(Date)
(Inventor's mailing address)P.O. Box 18095, San Jose, CA 95158
(Printed legal name of inventor) Paul Wickboldt
(Inventor's signature) (Date)
(Inventor's mailing address)
(Printed legal name of inventor) <u>Marek Mienko</u>
(Inventor's signature) (Date)
(Inventor's mailing address) <u>1251 McKay Drive, San Jose, CA 95131</u>
Printed legal name of inventor) <u>Pascale El Kallassi</u>
(Inventor's signature) (Date)
(Inventor's mailing address) <u>1251 McKay Drive, San Jose, CA 95131</u>

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Page 2 of 3

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Page 3 of 3

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

 Ξ the United States \Box Japan \Box another jurisdiction ;

 \Box enclosed herewith or Ξ previously filed on date <u>October 15, 2018</u> under Serial No. <u>16/093,794</u>;

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1. I 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 applications; and (d) in and to each and every reissue or extension of any of the Patents.

2. I 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. My 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; nucluding 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) <u>Patrick S</u>	Smith
(Inventor's signature)	(Date)
(Inventor's mailing address) <u>P.O. Box 180</u>	995, San Jose, CA 95158
(Printed legal name of inventor) <u>Paul Wic</u>	kboldt
(Inventor's signature)	(Date)
(Inventor's mailing address)	
(Printed legal name of inventor) <u>Marek M</u>	lienko (Date)(D6f2018
	Drive, San Jose, CA 95131
(Printed legal name of inventor) <u>Pascale E</u>	<u> I Kallassi</u>
(Inventor's signature)	(Date)
(Inventor's mailing address) <u>1251 McKay</u>	Dríve, San Jose, CA 95131

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(Printed legal name of inventor) <u>Paul Wickboldt</u>		
(Inventor's signature)	(Date)	
(Inventor's mailing address)		
(Printed legal name of inventor) <u>Marek Mienko</u>		
(Inventor's signature)	(Date)	
(Inventor's mailing address) <u>1251 McKay Drive</u> ,	San Jose, CA 95131	
(Printed legal name of inventor) <u>Pascale El Kalla</u>	<u>58i</u>	
(Inventor's signature)	(Date) 0/_10/201	X
(Inventor's mailing address) 1251 McKay Drive,		

Synaptics Incorporated Assignment Agreement v. 2014-10-15

Page 2 of 3

Synaptics Incorporated Assignment Agreement v. 2014-10-15

Page 3 of 3

PATENT REEL: 048122 FRAME: 0225

RECORDED: 01/24/2019