

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3682085

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KIRK HARGREAVES	08/28/2006
JOSEPH KURTH REYNOLDS	08/28/2006
DAVID ELY	09/28/2006
JULIAN HAINES	10/26/2006
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SYNAPTICS INCORPORATED
<b>Street Address:</b>	1251 MCKAY DRIVE
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95131
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	11928770
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
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<b>Email:</b>	ohale@oshaliang.com
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<b>Address Line 1:</b>	909 FANNIN
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<b>ATTORNEY DOCKET NUMBER:</b>	38018/165004
<b>NAME OF SUBMITTER:</b>	KATE OHALE
<b>SIGNATURE:</b>	/Robert P. Lord/
<b>DATE SIGNED:</b>	01/05/2016
<b>Total Attachments: 4</b>	
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## Assignment to Synaptics Incorporated

For good and valuable consideration, receipt and sufficiency of which is hereby acknowledged, I/we

**Kirk Hargreaves**  
**Joseph Kurth Reynolds**  
**David Ely**  
**Julian Haines**

do hereby sell, assign, and transfer unto Synaptics Incorporated (hereinafter called "Synaptics"), a Delaware Corporation, having its principal place of business at 3120 Scott Blvd., Suite 130, Santa Clara, CA 95054, USA, and its successors and assigns, the entire and exclusive right, title, and interest in the following:

any and all invention(s) set forth and described in an application for a United States of America patent entitled:

**METHODS AND SYSTEMS FOR DETECTING A CAPACITANCE USING SIGMA-  
DELTA MEASUREMENT TECHNIQUES**

         Filed herewith; or

Serial No.: 11/446,324 filed on date June 3, 2006

and any and all rights emanating from such application and any Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore, and all improvements and applications for Letters Patent which may be filed based in whole or in part on the aforesaid application and improvements, including, without limitation, any provisional, nonprovisional, continuation, continuation-in-part, continued prosecution, substitute, renewal, extension, divisional, reissue, reexamination, foreign, Patent Cooperation Treaty (PCT), or other patent application, inventor's certificate, or like document, which are hereafter collectively referred to herein as the "Innovations".

And for the above consideration, I/we agree promptly upon request of Synaptics, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application or other papers which may be necessary or desirable to fully secure to Synaptics, its successors and assigns, the Innovation and all intellectual property rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution, interference, reexamination, reissue, or other proceedings in the patent office involving said Innovations, and in the adjudication of said Innovations, provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Synaptics.

I/we further warrant and represent to Synaptics, its successors and assigns, that I/we are able to convey an entire interest in the innovations and that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

Executed by:

Inventor's Signature: *Kirk Hargreaves* Date: 28 Aug 2006

Inventor's Printed Name: Kirk Hargreaves

Inventor's Signature: *J Kurth* Date: 28 Aug 2006

Inventor's Printed Name: Joseph Kurth Reynolds

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Inventor's Printed Name: David Ely

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Inventor's Printed Name: Julian Haines

Executed by:

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Inventor's Printed Name: **Kirk Hargreaves**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Inventor's Printed Name: **Joseph Kurth Reynolds**

Inventor's Signature: *David Ely* \_\_\_\_\_ Date: *28 Sept 06*

Inventor's Printed Name: **David Ely**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Inventor's Printed Name: **Julian Haines**

Attorney Docket No.: 028.0052

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**Julian Haines**

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any and all invention(s) set forth and described in an application for a United States of America patent entitled:

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And for the above consideration, I/we agree without undue delay upon request of Synaptics, its successors or assigns, to execute and deliver without further compensation, except for fair and reasonable hourly charges to compensate for my background reading, verification, legal advice or other necessary expenditure of my time in connection with same, power of attorney, assignment, application or other papers which may be both necessary, fair and reasonable, to fully secure to Synaptics, its successors and assigns, the Innovation and all intellectual property rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution, interference, reexamination, reissue, or other proceedings in the patent office involving said Innovations, and in the adjudication of said Innovations, provided the expenses which may be incurred by me/us in lending such cooperation and assistance and fair and reasonable hourly charges for necessary expenditure of my time are paid by Synaptics.

I/we further warrant and represent to Synaptics, its successors and assigns, that I/we are able to convey an entire interest in the innovations and that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

Executed by:

Inventor's Signature: 

Date: 26 October 2006

Inventor's Printed Name: Julian Haines