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Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office			
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	2. Name and address of receiving party(ies)			
1. Name of conveying party(ies)				
Kirk Hargreaves 4. David Ely 5. Julian Haines 3. Joseph Kurth Reynolds	Name: Synaptics Incorporated Internal Address: Suite 130			
Additional name(s) of conveying party(ies) attached? Yes V No 3. Nature of conveyance/Execution Date(s):	Street Address: 3120 Scott Blvd.			
Execution Date(s) 9/25/06,9/28/06,9/25/06,9/28/06,10/26/06	Otteet Address. Street Charles			
Assignment Merger	1920			
Security Agreement Change of Name	City: Santa Clara			
Joint Research Agreement	State: CA			
Government Interest Assignment	7in: 05054			
Executive Order 9424, Confirmatory License Record to correct Assignor #2 on Assignment document Other previously recorded at Reel 018615 Frame 0954	Country: US Zip: 95054 Additional name(s) & address(es) attached? ✓ Yes ✓ No			
4. Application or patent number(s):	document is being filed together with a new application.			
A. Patent Application No.(s) 11/446,323	B. Patent No.(s)			
Additional numbers at	tached? Yes 🗸 No			
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1			
Name: S. Jared Pitts	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00			
Internal Address; Ingrassia, Fisher & Lorenz, P.C.	Authorized to be charged by credit card			
	✓ Authorized to be charged to deposit account			
Ot 1 Add 7450 F. O 11 1 D 1 O 1 005	Enclosed			
Street Address: 7150 E. Camelback Road, Suite 325	None required (government interest not affecting title)			
	8. Payment Information			
City: Scottsdale	a. Credit Card Last 4 Numbers			
State: AZ Zip; 85251	Expiration Date			
Phone Number: (480) 385-5060	b. Deposit Account Number 50-2091			
Fax Number: (480) 328-5061				
Email Address: jpitts@ifllaw.com	Authorized User Name S. Jared Pitts			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

S. Jared Pitts
Name of Person Signing

PATENT REEL: 018795 FRAME: 0203

January 19, 2007 Date

Total number of pages including cover sheet, attachments, and documents:

9. Signature:

Form PTO-1595 (Rev. 03/05) OMB No. 0651-0027 (exp. 6/30/2005) U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

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	ORM COVER SHEET
	se record the attached documents or the new address(es) below.
Name of conveying party(ies)	2. Name and address of receiving party(ies)
Kirk Hargreaves Julian Haines	Name: SYNAPTICS INCORPORATED
Paul Routtley Joseph Kurth Reynolds	Internal Address:
David Ely	Illeanar Address.
Additional name(s) of conveying party(ies) attached? Yes No	1
3. Nature of conveyance/Execution Date(s):	Street Address: 3120 Scott Blvd. Ste. 130
Execution Date(s) 9/25/06; 9/28/06; 10/26/06	
✓ Assignment Merger	City: Santa Clara
Security Agreement Change of Name	City. Santa Clara
Joint Research Agreement	State: CA
Government Interest Assignment	Country: UNITED STATES Zip; 95054
Executive Order 9424, Confirmatory License	
Other	Additional name(s) & address(es) attached? Yes Vo
	document is being filed together with a new application.
A. Patent Application No.(s) 11/446,323	B. Patent No.(s)
Additional numbers att	ached? Yes No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name:S. Jared Pitts	
	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: INGRASSIA FISHER & LORENZ, P.C.	Authorized to be charged by credit card
	✓ Authorized to be charged to deposit account
Street Address: 7150 E. CAMELBACK ROAD	Enclosed None required (government interest not offeeting title)
SUITE #325	None required (government interest not affecting title)
City: SCOTTSDALE	8. Payment Information
State: ARIZONA Zip: 85251	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: <u>(480)</u> 385-5060	b. Deposit Account Number 50-2091
Fax Number: (480) 385-5061	
Email Address: jpitts@iflaw.com	Authorized User Name S. Jared Pitts
9. Signature:	8 Dec 2004
Signature	Date
S. Jared Pitts (Reg. No. 38,579) Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
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1,

Assignment to Synaptics Incorporated

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

David Ely
Paul Routley
Joseph Kurth Reynolds
Julian Haines
Kirk Hargreaves

Filed herewith: or

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 SWITCHED CHARGE TRANSFER TECHNIQUES

		,			
X	Serial No.:	11/446,323	filed on date	, 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:

Page 1 of 1 revision. September 12, 2005

	Attorney Docket No.: 028.0051		
Executed by:			
Inventor's Signature:	Dutzy	Date: 28 Sept 06	or 614
Inventor's Printed Name:		tondonestalemente.	
Inventor's Signature:	Paul North	Date: 28 September 2	906
Inventor's Printed Name:	Paul Routley		
Inventor's Signature:		Date:	
Inventor's Printed Name:	Joseph Kurth Reynolds		
Inventor's Signature:		Date:	J
Inventor's Printed Name:	Julian Haines		
Inventor's Signature:		Date:	
Inventor's Printed Name:	Kirk Hargreaves	MATERIAL PROPERTY OF THE SECOND SECON	

revision. September 12, 2005

Attorney Docket No.: 028.0051

Inventor's Signature:		Date:	
Inventor's Printed Name:	David Ely		
Inventor's Signature:		Date:	
Inventor's Printed Name:	Paul Routley		
Inventor's Signature:	J 96HM	Date:	9/25/06
Inventor's Printed Name:	· ·		
Inventor's Signature:		Date:	
Inventor's Printed Name:	Julian Haines		
Inventor's Signature:	II Hargrean	Date:	25 Sept 2006
Inventor's Printed Name	Kirk Hargreaves		

revision. September 12, 2005

JCK +35312893283

26-10-2006 20:40 FROM:HAINES

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P:2/9

Attorney Docket No.:	028.0051	

Assignment to Synaptics Incorporated

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

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 SWITCHED CHARGE TRANSFER TECHNIQUES

	Filed herewith; or				
X	Serial No.:	11/446,323	filed on date	June 3,	2006
		ights emanating from su thereto which may be g			tent of the United States and of

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 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:

RECORDED: 01/19/2007

Inventor's Signature:	Aleum.	Date: <u>26</u>	· October	2006
Inventor's Printed Name:	Julian Haines	فسياح فنادانية	pativa kaning kannal ayan yiladin masaysa paga paga anada	name to the state of the same
Page 1 of 1		1	evision. Septembe	r 12, 2005

PATENT REEL: 018795 FRAME: 0208