

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Nesbitt W. Hagood</td> <td>09/04/2013</td> </tr> <tr> <td>Stephen R. Lewis</td> <td>08/28/2013</td> </tr> <tr> <td>Abraham McAllister</td> <td>08/28/2013</td> </tr> <tr> <td>Roger W. Barton</td> <td>08/30/2013</td> </tr> </tbody> </table>		Name	Execution Date	Nesbitt W. Hagood	09/04/2013	Stephen R. Lewis	08/28/2013	Abraham McAllister	08/28/2013	Roger W. Barton	08/30/2013
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RECEIVING PARTY DATA											
Name:	Pixtronix, Inc.										
Street Address:	5775 Morehouse Drive										
City:	San Diego										
State/Country:	CALIFORNIA										
Postal Code:	92121-1714										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13975841</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13975841						
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CORRESPONDENCE DATA											
Fax Number:	6172359492										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	268502-P03-008										
NAME OF SUBMITTER:	Lise Ann Ruggeri-Kalil										
Signature:	/Lise Ann Ruggeri-Kalil/										

PATENT

Date:

09/16/2013

Total Attachments: 5

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ASSIGNMENT

WHEREAS, WE,

1. **Nesbitt W. Hagood**, a citizen of United States, having a mailing address located at 69 Leonard Street, Gloucester, MA 01930, and a resident of Gloucester, MA,
2. **Stephen R. Lewis**, a citizen of United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Natick, MA,
3. **Abraham McAllister**, a citizen of United States, having a mailing address located at 3806 Hillcrest Lane, Annandale, VA 22003, and a resident of Annandale, VA,
4. **Roger W. Barton**, a citizen of United States, having a mailing address located at 13035 Valley Creek Trail South, Afton, MN 55001, and a resident of Afton, MN,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **CIRCUITS FOR CONTROLLING DISPLAY APPARATUS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, PIXTRONIX, INC., (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/975,841 filed August 26, 2013 Qualcomm Reference No. 120736B1C1, and all provisional applications relating thereto, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

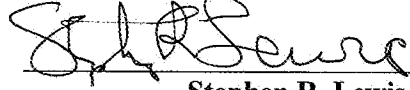
AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Andover, on 9-4-13
LOCATION DATE Nesbitt W. Hagood

Done at Andover, on 8-28-2013 
LOCATION DATE **Stephen R. Lewis**

Done at _____, on _____
LOCATION DATE **Abraham McAllister**

Done at _____, on _____
LOCATION DATE **Roger W. Barton**

Done at _____, on _____
LOCATION DATE Stephen R. Lewis

Done at _____, on _____
LOCATION DATE Abraham McAllister

Done at Afton, MN, on 8/30/13
LOCATION DATE Roger W. Barton