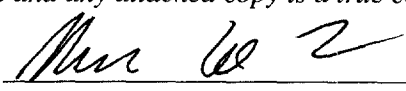




<b>RECORDATION</b>		<b>102316400</b>	<b>ENTS ONLY</b>
<b>BOX ASSIGNMENT</b> <b>COMMISSIONER OF PATENTS AND TRADEMARKS</b> <b>WASHINGTON, D.C. 20231</b>			
<b>12-11-02</b>			
<b>1. Total number of pages including cover sheet, attachments and document: 6</b>			
<b>2. Name of Conveying Party(ies) and Execution Date(s) of Document(s)</b> <input type="checkbox"/> Check here if additional name(s) attached Name(s): (1) Steven H. Pepper, (2) R. Clayton Smith, Ronald L. Ramsey and James R. Andrews Execution Date(s): (1) November 13, 2002 (2) November 27, 2002			
<b>3. Name and address of receiving party</b> <input type="checkbox"/> Check here if additional name(s) & address(es) are attached Name: Picosecond Pulse Labs Address: 2500 55 <sup>th</sup> Street City: Boulder State/Country: CO Zip: 80301			
<b>4. Nature of Conveyance</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Name Change <input type="checkbox"/> Other:			
<b>5. Total number of applications and patents involved: 1</b>			
<b>6. Total Fee Enclosed (37 C.F.R. § 3.41):</b>			
<b>7. <input checked="" type="checkbox"/> Check here if any deficiency/overpayment is authorized to be charged to deposit account 02-4550</b>			
<b>8. Enter either the Execution date (of the Declaration and Power of Attorney), Application Number, or the Patent Number. Do not enter more than one number for the same patent.</b> A. <input type="checkbox"/> This document is being filed with a new application. Execution date is: _____ B. <input checked="" type="checkbox"/> Patent Application No.(s) or Patent No.(s): <u>10/233,290</u> <input type="checkbox"/> Check here if additional numbers are attached			
<b>9. Correspondent's name, address, and telephone number</b> Michael D. Jones Klarquist Sparkman, LLP One World Trade Center, Suite 1600 121 S.W. Salmon Street Portland, Oregon 97204-2988 Telephone: 503-226-7391			
<b>10. <input checked="" type="checkbox"/> Please return the attached postcard to confirm that these items have been received.</b>			
<b>11. Statement and signature</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>			
Michael D. Jones			
Name of Person Signing		Signature	
		December 3, 2002	
		Date	

12/18/2002 GT0111 00000121 10233290

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40.00 84

cc: Docketing

**PATENT**  
**REEL: 013580 FRAME: 0193**

## A S S I G N M E N T

WHEREAS, we, Steven H. Pepper, of Portland, County of Multnomah, State of Oregon, R. Clayton Smith, of Boulder, County of Boulder, State of Colorado, Ronald L. Ramsey, of Boulder, County of Boulder, State of Colorado, and James R. Andrews, of Boulder, County of Boulder, State of Colorado, have invented a certain invention, entitled TRANSMISSION LINE VOLTAGE CONTROLLED NONLINEAR SIGNAL PROCESSOR for which application for Letter Patent was filed in the United States Patent and Trademark Office on August 29, 2002 and assigned Application No. 10/233,290; and

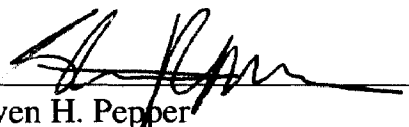
WHEREAS, Picosecond Pulse Labs, a corporation organized under the laws of the State of Colorado, having a place of business at 2500 55th Street, Boulder, Colorado, 80301, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we Steven H. Pepper, R. Clayton Smith, Ronald L. Ramsey, and James R. Andrews, hereby sell, assign and transfer to Picosecond Pulse Labs, the full and exclusive right, title and interest in and to said invention, patent application and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by Picosecond Pulse Labs, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by us had this assignment and

sale not been made, and covenant that we have full right so to do, and agree that we will communicate to Picosecond Pulse Labs, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Picosecond Pulse Labs, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

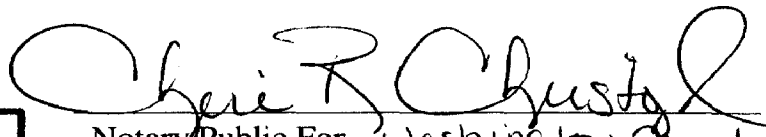
Executed at the place and date opposite our respective signatures below.

  
\_\_\_\_\_  
Steven H. Pepper

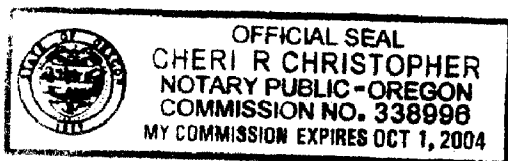
At Beaverton, Oregon  
(City and State)  
on this 13<sup>th</sup> day of November, 2002.

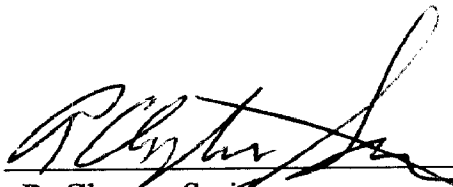
STATE OF OREGON                     )  
  )   ss.  
COUNTY OF Washington       )

This 13<sup>th</sup> day of November, 2002, before me personally came the above-named Steven H. Pepper who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

  
\_\_\_\_\_  
Notary Public For Washington County, Oregon  
My commission expires: Oct. 1, 2004

[SEAL]

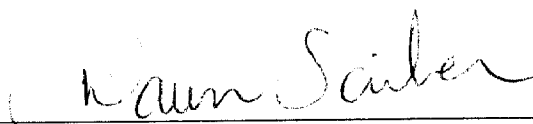


  
R. Clayton Smith

At Boulder, CO  
(City and State)  
on this 27 day of November, 2002.

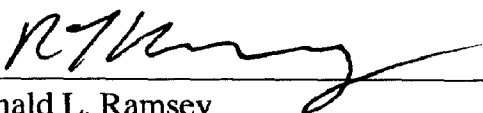
STATE OF COLORADO           )  
  )   ss.  
COUNTY OF BOULDER        )

This 27 day of November, 2002, before me personally came the above-named R. Clayton Smith, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

  
Notary Public For  
My commission expires:

[SEAL]

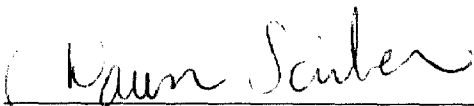
**Dawn Scriber**  
**Notary Public, State of Colorado**  
**My Commission Expires September 12, 2004**

  
\_\_\_\_\_  
Ronald L. Ramsey

At Boulder, CO  
\_\_\_\_\_  
(City and State)  
on this 27 day of November, 2002.

STATE OF COLORADO           )  
  )    ss.  
COUNTY OF BOULDER        )

This 27 day of November, 2002, before me personally came the above-named Ronald L. Ramsey, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

  
\_\_\_\_\_  
Notary Public For  
My commission expires:

[SEAL]

**Dawn Scriber**  
**Notary Public, State of Colorado**  
**My Commission Expires September 12, 2004**

At Boulder, Colorado James R. Andrews  
(City and State) James R. Andrews  
on this 27 day of Nov, 2002.

STATE OF COLORADO )  
 ) ss.  
COUNTY OF BOULDER )

This 27 day of November, 2002, before me personally came the above-named James R. Andrews, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Dawn Scriber

Notary Public For  
My commission expires:

[SEAL]

**Dawn Scriber**  
**Notary Public, State of Colorado**  
**My Commission Expires September 12, 2004**