FORM PTO-1595 (Rev. 6-93)	RECORDA7	01-25-2001	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
OMB No. 0651-0011 (exp. 4/94)	. 16.01		
To the Honorable Commissioner	of Patents and Trade	101593401	Jocuments or copy thereof.
Name of conveying party(ies):		2. Name and address of rec	eiving party(ies)
Richard L. Goodson, Steven R. Blackwell, Ayman Ghobrial, Cynthis Lin		Name: Adtran, Inc. Street Address: 901 Explore	r Boulevard
Additional name(s) of conveying party(ies) attached? No		City: Huntsville ST: Alabama Additional name(s) & address(es)	
3. Nature of conveyance:			
Assignment			
Execution Date: December 14, 2	2000		
4. Application number(s) or patent	t number(s):	<u> </u>	
A. Patent Application No.(s): 0		B s attached? ☐ Yes ☐ No	. Patent No.(s):
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>		6. Total number of application	ons and patents involved: 1
Name: WADDEY & PATTERSON		7. Total fee (37 CFR 3.41):.	\$40.00
Internal Address: BANK OF AMERICA PLAZA			the state of the s
SUITE 2020		The fee is enclosed	1
Street Address: 414 UNION STF City: NASHVILLE State:		- 8. Deposit account number:	SCEIVED I
Customer No. 23456		23-0035 (Attach duplicate copy of this	JAN 1 6 2001
	DO NOT I	JSE THIS SPACE	And the state of t
9. Statement and signature.  To the best of my knowledge a copy of the original document.			t and any attached copy is a true
	/h		. / . /
Mark J. Patterson	/Nu	1) Hot	
Name of Person Signing		gnature	ent: 5
		Cover sheet, attachments, and docum	
01/24/2001 GTON11 00000214 09670047	oissioner of Parent	l with required cover sheet informations and Trademarks, Box Assignments hington, DC 20231	n to:
	00 <b>)</b> 0P		

**ASSIGNMENT** 

In consideration of the payment of one (\$1.00) dollar, and for other good

and valuable consideration, the receipt of which is hereby acknowledged.

Richard L. Goodson, Steven R. Blackwell, Ayman Ghobrial, Cynthia Lin,

("Assignors") assign to Adtran, Inc. of Huntsville, Alabama ("Assignee"), their

entire right, title, and interest in and to an invention entitled "TIMING LOOP

AND METHOD FOR A DIGITAL COMMUNICATIONS SYSTEM" (the

"Invention"), and in any and all patents, reissue patents, certificates of

inventorship, design registrations, utility models, and the like, that may be

granted in the U.S. or in any foreign country with respect to the Invention and

improvements thereto, and in any application, including continuations,

continuations-in-part, or divisions, that may be filed with respect to the

Invention or improvements thereto.

Assignors grant to Assignee the right to add the following information

regarding a U.S. patent application to be filed so that this assignment may be

recorded in the United States Patent and Trademark Office.

TIMING LOOP AND METHOD FOR A DIGITAL

COMMUNICATIONS SYSTEM

(Title of Application)

<u>09/670,047</u> (Serial Number) September 25, 2000 (Filing Date)

Assignors will, without additional charge to Assignee but at Assignee's expense, cooperate with and assist Assignee such that Assignee may realize and fully enjoy all the rights assigned hereunder, including the preparation and execution of all papers needed by Assignee, and providing such information and assistance as may reasonably be required by Assignee in any administrative or legal proceeding to obtain or protect such rights.

Assignors represent and warrant that they have not transferred, licensed, and/or assigned any interest in the Invention to anyone other than Assignee, and that they have not entered into any contract, assignment, or license conveying any right granted to Assignee hereunder, or that would otherwise conflict with this Assignment.

This Assignment and each of its terms shall be binding on each Assignor, their representatives, heirs and assigns, and shall inure to the benefit of Assignee, its successors, and assigns.

Richard L. Goodson

4 December 2002 Date

STATE OF ALABAMA	
COUNTY OF MADISON	

Before me, fixtoria the first and county aforesaid, personally appeared Richard L. Goodson, et al, with whom I am personally acquainted, or proved to me on the basis of satisfactory evidence, and who upon oath, acknowledged themselves to be the within named joint Assignor, and that multiple executed the foregoing instrument for the purposes therein contained.

This 14 kh day of December, 2000.

Notary Public

My commission expires: 1-5-64

Steven R. Blackwell

3 Jan 0/ Date

STATE OF ALABAMA COUNTY OF MADISON

Before me, <u>Vatricia H.Cill</u>, a Notary Public of the state and county aforesaid, personally appeared Steven R. Blackwell, with whom I am personally acquainted, or proved to me on the basis of satisfactory evidence, and who upon oath, acknowledged themselves to be the within named joint Assignor, and that multiple executed the foregoing instrument for the purposes therein contained.

This 3rd day of December, 2000.

Notary Public

My commission expires: 1-5-64

Ayman Kohby Ayman Ghobrial	12-14-2000 Date
personally acquainted, or proved to mand who upon oath, acknowledged the	d Ayman Ghobrial, with whom I am e on the basis of satisfactory evidence, emselves to be the within named joint ed the foregoing instrument for the
This 14 x day of December,	2000.
	Satricia II L. C.C.  Notary Public
My commission expires: 1.5.04	1. 3 200 /

Cynthia Lin

STATE OF ALABAMA COUNTY OF MADISON

Before me, Patricia H. Gill, a Notary Public of the state and county aforesaid, personally appeared Cynthia Lin, with whom I am personally acquainted, or proved to me on the basis of satisfactory evidence, and who upon oath, acknowledged themselves to be the within named joint Assignor, and that multiple executed the foregoing instrument for the purposes therein contained.

This 3rd day of December, 2000.

Notary Public

My commission expires: 1-5-64

**RECORDED: 01/16/2001**