

FORM PTO-1500

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To the Honorable Commissioner of Patents and Trademarks

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original documents or copy thereof.

1. Name of conveying party(ies):
Kevin Paul HEERING
Robert David DEATON
John Robert COFFMAN, III
Michael Francis LAMY

2. Name and address of receiving party(ies):
 Name: Adtran, Inc.
 Address: 901 Explorer Blvd, PO Box 140000
Huntsville, AL 35814-4000

Additional name(s) of conveying party(ies) attached () Yes (X) No

3. Nature of Conveyance:

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

Execution Date: 03/25/97, 03/24/97, 03/25/97, 03/25/97

Additional name(s) and address(s) attached? () Yes (X) No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution dates of the application are: _____

A. Patent application No. (s)
09/491,944

B. Patent No. (s)

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Charles E. Wands, Esq.
 Internal Address: Allen, Dyer,
Doppelt, Milbrath & Gilchrist, PA
 Street Address: 5240 Babcock Street NE
Suite 211
 City: Palm Bay
 State: Florida Zip: 32905

6. Total number of applications and patents involved: [1]
 7. Total fee (37 CFR 3.41) \$ 40.00
 Enclosed
 Authorized to be charged to deposit account.

8. Deposit Account Number: 01-0484

IF any additional extension and/or fee is required, or, if any additional fee for claims is required.

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9. Statement and signature.

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.

Charles E. Wands

Name of Person Signing

Signature

July 2, 2001

Date

Total number of pages including cover sheet, attachments and document: [3]

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 WASHINGTON, D.C. 20231
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 3/27/97
 T. Wiles
 File No. EE122620940US~~

Attorney Docket No. 850/35552

PATENT

ASSIGNMENT OF PATENT RIGHTS
 (For United States and All Foreign Countries)

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as below named inventor(s), I/we hereby sell and assign to ADTRAN, INC. (hereinafter "ASSIGNEE") its successors and assigns or other legal representatives, all of my/our right, title and interest, in and for the United States of America, in and to said invention entitled: **PARALLEL BACKPLANE ARCHITECTURE PROVIDING ASYMMETRIC BUS TIME SLOT CROSS-CONNECT CAPABILITY** invented by me/us and described in this application for United States Letters Patent therefor, executed by me/us on even date herewith, and all United States Letters Patents which may be granted therefor, and all divisions, continuations, and extensions thereof, as well as any patents which may be applied for in any other countries, the said interest being all of the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made.

And I/we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application and any corresponding foreign applications or international applications that may be filed, or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, revived or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said ASSIGNEE.

And I/we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said ASSIGNEE.

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3-25-97
 Date

Kevin Paul Heering
 signature

I hereby certify that this document is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under of C.F.R. Section 1.10 and addressed to the Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231.
 1 Date: 06 JAN 2000 By: T. Wiles
 Express Mail No.: EM403 0779704

Robert David

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