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Tab settings

To the Honorable Commissioner of Patents and Trademarks, please return the attached original documents or copy thereof.

1. Name of conveying party(ies):

LARS FRIEDRICH

Additional names(s) of conveying party(ies)  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: 08/24/00

2. Name and address of receiving party(ies):

Name: CIENA CORPORATION

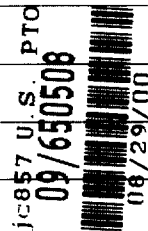
Address: LEGAL DEPARTMENT

1201 WINTERSON ROAD

City: LINTHICUM State/Prov.: MD

Country: ZIP: 21090

Additional name(s) & address(es)  Yes  No



4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: 08/29/00

Patent Application No. Filing date

B. Patent No.(s)

MRO  
8-29-00

Additional numbers

Yes  No

09/650/508

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: MICHAEL R. CAMMARATA

Registration No. 39,491

Address: CIENA CORPORATION

LEGAL DEPARTMENT

City: LINTHICUM State/Prov.: MD

Country: ZIP: 21090

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

- Enclosed - Any excess or insufficiency should be credited or debited to deposit account
- Authorized to be charged to deposit account

8. Deposit account number:

50-0308

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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.

MICHAEL R. CAMMARATA

August 29, 2000

Name of Person Signing

Signature

Date

3

Total number of pages including cover sheet, attachments, and

PATENT

**ASSIGNMENT**

WHEREAS I/We, the below named inventor(s), hereinafter referred to as Assignor(s), have made an invention entitled:

**METHOD AND APPARATUS FOR DETERMINING A FIBER  
PLANT GAIN TRANSFER FUNCTION AND UTILIZING  
SAME TO CONTROL DISTRIBUTED GAIN**

WHEREAS, CIENA Corporation, a corporation of Delaware whose post office address is 1201 Winterson Road, Linthicum, Maryland 21090 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/We, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

County of Baltimore )  
 ) ss.  
State of Maryland )

Lars Friedrich  
335-103 Gatewater Court  
Glen Burnie, Maryland 21060

Lars Friedrich  
(Signature)

August 24, 2000  
(Date)

SEAL

Subscribed and sworn to before me  
this 24<sup>th</sup> day of August, 2000.

Carol S. Parker-Hines, Notary Public

**CAROL S. PARKER-HINES**  
Notary Public, State of Maryland  
My Commission Expires  
03-23-03

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**METHOD AND APPARATUS FOR DETERMINING A FIBER PLANT GAIN TRANSFER FUNCTION AND UTILIZING SAME TO CONTROL DISTRIBUTED GAIN**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

**PRIOR FOREIGN APPLICATION(S)**

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

COUNTRY (if PCT indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
			<input type="checkbox"/> Yes <input type="checkbox"/> No

**PRIOR UNITED STATES APPLICATION(S)**

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

U.S. APPLICATIONS		STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NUMBER	PCT FILING DATE	U.S. SERIAL NUMBER ASSIGNED (if any)		

I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: David L. Soltz, Reg. No. 34,731 and Michael R. Cammarata, Reg. No. 39,491. Please address all correspondence to:

CIENA Corporation  
 Legal Department  
 1201 Winterson Road  
 Linthicum, MD 21090

Please direct telephone calls to (410) 865-8500.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF FIRST INVENTOR: Lars Friedrich	INVENTOR'S SIGNATURE <i>Lars Friedrich</i>	DATE <i>August 29, 2000</i>
RESIDENCE: 335-103 Gatewater Court Glen Burnie, Maryland 21060	POST OFFICE ADDRESS Same	COUNTRY OF CITIZENSHIP Germany