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HEET

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Michael Y. Frankel
Harshad P. Sardesai

06/18/02

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

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

Name: CIENA CORPORATION

Address: LEGAL DEPARTMENT

1201 WINTERSON ROAD

City: LINTHICUM

State/Prov.: MD

Country: US

ZIP: 21090

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

10/17/02 PTO
06/18/02

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: June 3, 2002

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

10/174025

If this document is being filed together with a new application, the execution date of the application is: June 18, 2002

Patent Application No. Filing date

B. Patent No.(s)

Additional numbers Yes No

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

1201 WINTERSON ROAD

City: LINTHICUM State/Prov.: MD

Country: US 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
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8. Deposit account number:

50-0308

(Attach duplicate copy of this page if paying by deposit account)

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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

Name of Person Signing

Signature

June 18, 2002

Date

4

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

PATENT

REEL: 013038 FRAME: 0479

07/02/2002 LUMPELLER 00000310 500308 40.00 CH 01 FT:561

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to CIENA a Delaware corporation, having a place of business at **1201 Winterson Road, Linthicum, MD 21090-2205**, for itself and its successors, transferees, and assignees, the following:

The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional application filed under 35 U.S.C. §111(b) or non-provisional application filed under 35 U.S.C. §111(a) and entitled

**METHOD AND SYSTEM FOR USING OPTICAL PHASE CONJUGATION IN
AN OPTICAL COMMUNICATIONS NETWORK INCLUDING AN
ADD/DROP MULTIPLEXER**

("APPLICATION") which:

- is to be filed herewith
 was filed on _____,
now bearing U.S. application number _____; and

2. The entire worldwide right, title, and interest in and to:

(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all utility, divisional, continuation, substitute, renewal, reissue, and other related applications thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), (c) and (d) above; and (e) all right of priority in the APPLICATION, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Title of Document: ASSIGNMENT

Title: METHOD AND SYSTEM FOR USING OPTICAL PHASE CONJUGATION IN AN
OPTICAL COMMUNICATIONS NETWORK INCLUDING AN ADD/DROP MULTIPLEXER

Filed: Herewith

Serial No.: Unassigned

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

<u>Name and Signature</u>	<u>Date of Signature</u>	<u>Date Declaration Executed By This Person</u>
<u><i>Michael Y. Frankel</i></u>	<u>June 3, 2002</u>	<u>June 3, 2002</u>
Michael Y. Frankel 7221 Brookfalls Terrace Baltimore, MD 21209		

State of MARYLAND } S.S.
County of BALTIMORE }

On _____ before me, _____ personally
[DATE] [NOTARY PUBLIC]
appeared _____ personally known to me or proved to me on the basis of satisfactory evidence to
[INVENTOR]

be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.


Notary Seal

Notary

Title of Document: ASSIGNMENT

Title: METHOD AND SYSTEM FOR USING OPTICAL PHASE CONJUGATION IN AN
OPTICAL COMMUNICATIONS NETWORK INCLUDING AN ADD/DROP MULTIPLEXER

Filed: Herewith
Serial No.: Unassigned

<u>Name and Signature:</u>	<u>Date of Signature</u>	<u>Date Declaration Executed By This Person</u>
<u></u>	<u>June 3</u> , 2002	<u>June 3</u> , 2002
Harshad Sardesai 4427 Doncaster Drive Ellicott City, Maryland 21043		

State of MARYLAND } S.S.
County of HOWARD }

On _____ before me, _____ personally
[DATE] [NOTARY PUBLIC]
appeared _____ personally known to me or proved to me on the basis of satisfactory evidence to
[INVENTOR]
be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed
the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity
upon behalf of which the person acted, executed the instrument.

Notary Seal

Notary