

04-03-2002

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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):
Ghassan Semaan and Ramana Kalapatapu

1-16-02

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: **USA** ZIP: **21090**

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: **12/12/01**

4. Application number(s) or patent numbers(s):
If this document is being filed together with a new application, the execution date of the application is:

Patent Application No. Filing date
09/950,288 **September 10, 2001**

Additional numbers Yes No

B. Patent No.(s)

 Yes No

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

Name: **MICHEAL R. CAMMARATA**
Registration No. **39,491**
Address: **CIENA CORPORATION**
LEGAL DEPARTMENT
1201 WINTERSON ROAD

City: **LINTHICUM** State/Prov.: **MD**
Country: **USA** ZIP: **21090**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**
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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 *[Signature]* **January 16, 2002**
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and **4**

PATENT

REEL: 012732 FRAME: 0643

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ASSIGNMENT

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

**PROVIDING EMBEDDED PROTECTION IN A NETWORK
CROSS-CONNECT DEVICE FOR SONET NETWORKS**

for which We/I executed an application for United States Patent concurrently herewith or filed an application on September 10, 2001, Serial No. 09/950,288; and

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;

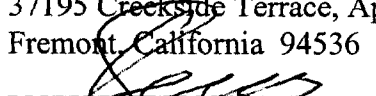
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

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 _____)
) ss.
State of _____)

Ghassan Semaan
37195 Creekside Terrace, Apt. 269
Fremont, California 94536



(Signature)

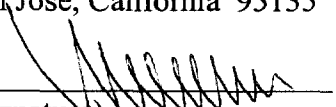
12/12/01

(Date)

SEAL
Subscribed and sworn to before me
this ____ day of _____, 2001.
_____, Notary Public

County of _____)
) s.
State of _____)

Ramana Kalapatapu
3262 Palmo Court
San Jose, California 95135



(Signature)

12 / 12 / 01.

(Date)

SEAL
Subscribed and sworn to before me
this ____ day of _____, 2001.

_____, Notary Public