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Docket No.: 294

SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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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):

Joel F. Adam
Darren S. Engelkemier
Daniel e. Klausmeier

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:

ZIP: 21090

Additional name(s) & address(es)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: 09/29/99; 09/30/99

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: October 19, 1999

Patent Application No.

Filing date

B. Patent No.(s)

09/431059

Additional numbers

☐ Yes ☒ No

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

Name: David L. Soltz

Registration No. 34,731

Address: Legal Department

1201 Winterson Road

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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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.

David L. Soltz

Name of Person Signing

Signature

October 19, 1999

Date

Total number of pages including cover sheet, attachments, and

4

PATENT

REEL: 010331 FRAME: 0598

ASSIGNMENT

WHEREAS I, the below named inventor, hereinafter referred to as Assignor, has made an invention entitled:

**A SWITCH FABRIC ARCHITECTURE AND TECHNIQUES FOR
IMPLEMENTING RAPID HITLESS SWITCHOVER**

for which I executed an application for United States Letters Patent attached hereto 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 and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I, as assignor, 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 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 HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I 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.

SOLE/JOINT INVENTION
(Worldwide Rights)

IN TESTIMONY WHEREOF, I have hereunto set my hand.

County of _____) Joel F. Adam
) ss. 19339 Calle de Barcelona
State of _____) Cupertino, California 95014

Date: 9/29/99 Joel Adam
Joel F. Adam

SEAL

Subscribed and sworn to before me
this ____ day of _____, 19__.
_____, Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand.

County of _____) Darren Engelkemier
) ss. 600 Rainbow Drive, Apt. 124
State of _____) Mountain View, California 94041

Date: 9/29/99 Darren Engelkemier
Darren Engelkemier

SEAL


Subscribed and sworn to before me
this ____ day of _____, 19__.
_____, Notary Public

SOLE/JOINT INVENTION
(Worldwide Rights)

IN TESTIMONY WHEREOF, I have hereunto set my hand.

County of _____) Daniel E. Klausmeier
) ss. 2311 Loma Prieta Lane
State of _____) Menlo Park, California 94025

Date: 1/30/79


Daniel E. Klausmeier