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U.S. DEPARTMENT OF COMMERCE
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RE

103216663

Attorney Docket 10.1093

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

M. H. SHAHINE

Execution Date(s) March 31, 2006

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: CIENA Corporation

Internal Address: _____

Street Address: 1201 Winterson Road

City: Linthicum

State: Maryland

Country: USA Zip: 21090

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Christopher L. Bernard

Internal Address: _____

Street Address: 1901 Roxborough Road
Suite 300

City: Charlotte

State: North Carolina Zip: 28211

Phone Number: (704) 366-6642

Fax Number: (704) 366-9744

Email Address: cbernard@worldpatents.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers 7794
Expiration Date 02/28/09

b. Deposit Account Number _____
Authorized User Name _____

9. Signature:

Christopher L. Bernard
Signature

April 5, 2006

Date

Christopher L. Bernard

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

04/07/2006 EHAILE1 00000027 11398107

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PATENT
REEL: 017767 FRAME: 0665

ASSIGNMENT

WHEREAS, **M. H. SHAHINE** (hereinafter referred to as "ASSIGNOR") has invented certain new and useful improvements in an invention entitled:

SYSTEMS AND METHODS FOR REAL-TIME COMPENSATION
FOR NON-LINEARITY IN OPTICAL SOURCES
FOR ANALOG SIGNAL TRANSMISSION

___ for which U.S. Patent Application No. _____ was filed on _____; or

X for which an application for a United States patent is being submitted to the United States Patent and Trademark Office herewith; and

WHEREAS, **CIENA CORPORATION**, 1201 Winterson Road, Linthicum, Maryland 21090 USA (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title, and interest in and to said invention, and in and to said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, in accordance with obligations entered into pursuant to an Employment Agreement or other agreement and/or for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR hereby sells, transfers and assigns to said ASSIGNEE, and to ASSIGNEE'S successors and assigns, ASSIGNOR'S entire right, title, and interest in and to said invention and improvements invented and originated by ASSIGNOR in the United States and its territorial possessions and in any and all foreign countries and to all Letters Patent or similar legal protections in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any application claiming priority to/from the application, or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension, or reissue thereof or any legal equivalent thereof in a foreign country for the full term(s) for which the same may be granted; and authorizes and requests the Commissioner for Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereof, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments, or affidavits required to apply for, obtain, maintain, issue, and/or enforce said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I have hereunto set hand and signed on the date indicated below:

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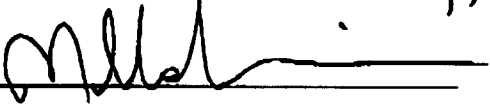
Express Mail No.: EV 814075306 US
PATENT

SIGNATURE(S)

The signature(s) below must correspond to the name(s) of the inventor(s) above.

Sole/First Inventor:

Name: M. H. SHAHINE

Residence: 4306 OLD VALLEY COURT
ELLICOTT CITY, MD 21043Signature:  Date Signed: 03/31/06