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United States Patent and Trademark Office103357031
COVER SHEET
PATENTS ONLY

Attorney Docket 10.1110

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):Morteza GHODRAT - 12-17-2006
Michael A. GAZIER - 12-22-2006
Ian H. DUNCAN - 12-22-2006

Execution Date(s): See Above

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)

12/28/2006 LWONDIM1 00000071 11645483

04 FC:8021

40.00 00

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

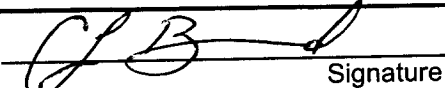
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

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

8. Payment Informationa. Credit Card Last 4 Numbers 6715
Expiration Date 03/07

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

Signature

December 26, 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

PATENT
REEL: 018744 FRAME: 0111

ASSIGNMENT

WHEREAS, MORTEZA GHODRAT, MICHAEL A. GAZIER, and IAN H. DUNCAN (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

**METHODS AND SYSTEMS FOR CARRYING SYNCHRONIZATION OVER
ETHERNET AND OPTICAL TRANSPORT NETWORK**

_____ 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, ASSIGNORS hereby sell, transfer and assign to said ASSIGNEE, and to ASSIGNEE'S successors and assigns, ASSIGNORS' entire right, title, and interest in and to said invention and improvements invented and originated by ASSIGNORS 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 authorize and request 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.

ASSIGNORS further covenant 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 ASSIGNORS 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, we have hereunto set hand and signed on the date indicated below:

INVENTOR # 1 Name: MORTEZA GHODRAT

Signature: _____ Date Signed: _____

INVENTOR # 2 Name: MICHAEL A. GAZIER

Signature: _____ Date Signed: Dec 22 '06

INVENTOR # 3 Name: IAN H. DUNCAN

Signature: Ian Duncan Date Signed: Dec 22 '06

ASSIGNMENT

WHEREAS, MORTEZA GHODRAT, MICHAEL A. GAZIER, and IAN H. DUNCAN (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

**METHODS AND SYSTEMS FOR CARRYING SYNCHRONIZATION OVER
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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, ASSIGNORS hereby sell, transfer and assign to said ASSIGNEE, and to ASSIGNEE'S successors and assigns, ASSIGNORS' entire right, title, and interest in and to said invention and improvements invented and originated by ASSIGNORS 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 authorize and request 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.

ASSIGNORS further covenant 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 ASSIGNORS 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, we have hereunto set hand and signed on the date indicated below:

INVENTOR # 1 Name: MORTEZA GHODRAT

Signature: _____

Date Signed: _____

Dec/17/2006

INVENTOR # 2 Name: MICHAEL A. GAZIER

Signature: _____

Date Signed: _____

INVENTOR # 3 Name: IAN H. DUNCAN

Signature: _____

Date Signed: _____