

07-05-2006

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

RE



103269077

Docket 10.1094

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

6-26-06

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

Ronald Mark PARKER  
Fouad HALLAL  
Gary A. SAWOSIK

Execution Date(s) by all: June 22, 2006

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

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

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

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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

June 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

113007 U.S. PTO  
11/474829



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PATENT  
REEL: 018037 FRAME: 0680

ASSIGNMENT

WHEREAS, RONALD M. PARKER, FOUAD HALLAL, GARY A. SAWOSIK (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

METHODS AND SYSTEMS FOR PACKET AGGREGATION COMBINING  
CONNECTION-ORIENTED AND CONNECTION-LESS TECHNIQUES

\_\_\_\_\_ 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, the 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:

**SIGNATURES**

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

**INVENTOR # 1**

Name: RONALD M. PARKER

Signature: Ronald M Parker

Date Signed: 6/22/06

**INVENTOR # 2**

Name: FOUAD HALLAL

Signature: Fouad Hallal

Date Signed: 6-22-2006

**INVENTOR # 3**

Name: GARY A. SAWOSIK

Signature: Gary A Sawosik

Date Signed: 06-22-2006