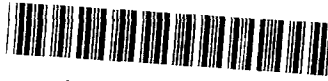


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Balakrishnan SRIDHAR
Michael Y. FRANKEL
Vipul BHATNAGAR

Execution Date(s) January 27, 2005
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: Legal Department
1201 Winterson Road
City: Linthicum
State: MD
Country: US Zip: 21090

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

3. Nature of conveyance:
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4. Application or patent number(s): This document is being filed together with a new application.
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7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
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 None required (government interest not affecting title)

5. Name and address to whom correspondence concerning document should be mailed:
Name: Mark E. Olds
Keady, Olds & Maier, PLLC
Internal Address: _____
Street Address: 128 North Pitt Street, 2nd Floor
City: Alexandria
State: VA Zip: 22314
Phone Number: 1.703.740.8322
Fax Number: 1.703.991.7071
Email Address: meo@komlaw.com

8. Payment Information
a. Credit Card Last 4 Numbers 8478
Expiration Date 07/06
b. Deposit Account Number 50-3136
Authorized User Name Mark E. Olds

9. Signature: Mark E. Olds 1/27/05
Signature Date
Mark E. Olds Name of Person Signing
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02/02/2005 AADDF01 00000065 11043087
01 FC:8021 40.00 DP

Attorney Docket No. CIEN-0104-US

ASSIGNMENT OF PATENT APPLICATION**FOR GOOD AND VALUABLE CONSIDERATION,**

We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto

Ciena Corporation whose mailing address is Legal Department, 1201 Winterson Road, Linthicum, MD 21090 US

a corporation organized under the laws of the state/country of Delaware as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

BIDIRECTIONAL COMMUNICATION SYSTEM

described in an application for Letters Patent of the United States, identified as Attorney Docket No. CIEN-0104-US, at Customer No. 40575; Keady, Olds & Maier, PLLC, 128 North Pitt Street, 2nd Floor, Alexandria, VA 22314 and filed on _____, as Application Serial No. _____, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We hereby authorize attorney(s) associated with Customer No. 40575, attorney(s) for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Attorney Docket No. CIEN-0104-US

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

B. SRIDHAR
Inventor's Signature

1/27/2005
DATE

Balakrishnan SRIDHAR
Inventor's Printed Name

Michael Y. Frankel
Inventor's Signature

1/27/2005
DATE

Michael Y. FRANKEL
Inventor's Printed Name

Vipul Bhatnagar
Inventor's Signature

1/27/2005
DATE

Vipul BHATNAGAR
Inventor's Printed Name