

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Matthew W. Connolly</td> <td>04/15/2008</td> </tr> <tr> <td>Mark E. Lavergne</td> <td>04/15/2008</td> </tr> <tr> <td>Boris Altshul</td> <td>04/15/2008</td> </tr> </tbody> </table>		Name	Execution Date	Matthew W. Connolly	04/15/2008	Mark E. Lavergne	04/15/2008	Boris Altshul	04/15/2008
Name	Execution Date								
Matthew W. Connolly	04/15/2008								
Mark E. Lavergne	04/15/2008								
Boris Altshul	04/15/2008								
RECEIVING PARTY DATA									
Name:	CIENA CORPORATION								
Street Address:	1201 Winterson Road								
City:	Linthicum								
State/Country:	MARYLAND								
Postal Code:	21090								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12103833</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12103833				
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Application Number:	12103833								
CORRESPONDENCE DATA									
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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NAME OF SUBMITTER:	Christopher L. Bernard								

OP \$40.00 12103833

Total Attachments: 2
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**PATENT
 REEL: 020811 FRAME: 0035**

ASSIGNMENT

WHEREAS, **MATTHEW W. CONNOLLY, MARK E. LAVERGNE, AND BORIS ALTSHUL** (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

**STACKED HARDWARE ABSTRACTION LAYER METHODS FOR
MAINTAINING SOFTWARE/HARDWARE BACKWARD COMPATIBILITY**

- for which U.S. Patent Application No. 12/103,833 was filed on 04-16-2008; or
- 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: **MATTHEW W. CONNOLLY**

Signature: 

Date Signed: 4/15/2008

INVENTOR # 2

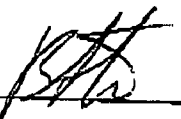
Name: **MARK E. LAVERGNE**

Signature: 

Date Signed: 4/15/2008

INVENTOR # 2

Name: **BORIS ALTSHUL**

Signature: 

Date Signed: 4/15/2008