

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>VLADIMIR S. GRIGORYAN</td><td>03/16/2011</td></tr><tr><td>MICHAEL Y. FRANKEL</td><td>05/31/2011</td></tr><tr><td>MICHAEL J. WINGROVE</td><td>06/02/2011</td></tr></tbody></table>		Name	Execution Date	VLADIMIR S. GRIGORYAN	03/16/2011	MICHAEL Y. FRANKEL	05/31/2011	MICHAEL J. WINGROVE	06/02/2011		
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>CIENA CORPORATION</td></tr><tr><td>Street Address:</td><td>1201 WINTERSON ROAD</td></tr><tr><td>City:</td><td>LINTHICUM</td></tr><tr><td>State/Country:</td><td>MARYLAND</td></tr><tr><td>Postal Code:</td><td>21090</td></tr></table>		Name:	CIENA CORPORATION	Street Address:	1201 WINTERSON ROAD	City:	LINTHICUM	State/Country:	MARYLAND	Postal Code:	21090
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PROPERTY NUMBERS Total: 1											
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Application Number:	13165324										
CORRESPONDENCE DATA											
Fax Number: (704)366-9744 <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										
Total Attachments: 4 source=10.2044_Utility_Assignment#page1.tif source=10.2044_Utility_Assignment#page2.tif source=10.2044_Utility_Assignment#page3.tif source=10.2044_Utility_Assignment#page4.tif											

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PATENT  
REEL: 026472 FRAME: 0916

**ASSIGNMENT**

WHEREAS, **VLADIMIR S. GRIGORYAN, MICHAEL Y. FRANKEL, AND MICHAEL J. WINGROVE** (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

**OPTICAL TRANSCEIVERS  
FOR USE IN FIBER OPTIC COMMUNICATION NETWORKS**

for which U.S. Patent Application No. 13/165,324 was filed on 06/21/2011 .

WHEREAS, **CIENA CORPORATION**, 1201 Winterson Road, Linthicum, MD 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:

Full Name of Sole/First Inventor: **VLADIMIR S. GRIGORYAN**

Inventor's Signature: V. Grigoryan Date: March 16, 2011

Full Name of Joint/Second Inventor: **MICHAEL Y. FRANKEL**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Full Name of Joint/Third Inventor: **MICHAEL J. WINGROVE**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

Full Name of Sole/First Inventor: **VLADIMIR S. GRIGORYAN**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Full Name of Joint/Second Inventor: **MICHAEL Y. FRANKEL**

Inventor's Signature:  Date: May 31, 2011

Full Name of Joint/Third Inventor: **MICHAEL J. WINGROVE**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

Full Name of Sole/First Inventor: **VLADIMIR S. GRIGORYAN**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Full Name of Joint/Second Inventor: **MICHAEL Y. FRANKEL**

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Full Name of Joint/Third Inventor: **MICHAEL J. WINGROVE**

Inventor's Signature: *M. Wingrove* Date: *June 2/2011*