01-05-2007 

## DATENTS ONLY

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	Form PTO-1595 (Rev. 09/04) OMB No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE				
6	PATENT	II OO VER ONEE!				
`	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):	2. Name and address of receiving party(ies)				
	Morteza GHODRAT - 12-17-2006	Name: CIENA Corporation				
	Michael A. GAZIER - 12-22-2006 Ian H. DUNCAN - 12-22-2006	Name: CIENA Corporation Internal Address: 9075  1201 Winterest Read				
	Execution Date(s): See Above  Additional name(s) of conveying party(ies) attached? Yes No	Street Address: 1201 Winterson Road				
	3. Nature of conveyance:					
	Assignment Merger	City: Linthicum				
	Security Agreement Change of Name	State: Maryland				
	Government Interest Assignment					
	Executive Order 9424, Confirmatory License	Country: USA Zip: 21090				
	Other	Additional name(s) & address(es) attached? Yes Vo				
	4. Application or patent number(s):  A. Patent Application No.(s)	document is being filed together with a new application.  B. Patent No.(s)				
12/28/2006	LWONDIM1 00000071 11645483					
04 FC:8021	<b>√ 40.00 ⊕</b>	ached? Yes VNo				
	5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:				
·	Name: Christopher L. Bernard	7 Total foo (27 CER 1 21/b) 8 2 41) \$ 40 00				
	Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00  Authorized to be charged by credit card				
		Authorized to be charged by credit card  Authorized to be charged to deposit account				
	Street Address: 1901 Roxborough Road	Enclosed				
	Suite 300	None required (government interest not affecting title)				
	City: Charlotte	8. Payment Information				
	State: North Carolina Zip: 28211	a. Credit Card Last 4 Numbers 6715 Expiration Date 03/07				
	Phone Number: (704) 366-6642	b. Deposit Account Number Authorized User Name				
	Fax Number:(704) 366-9744					
	Email Address: cbernard@worldpatents.com					
	9. Signature:	December 26, 2006				
	Signature	Date				
	Christopher L. Bernard	Total number of pages including cover sheet, attachments, and documents:				
	Name of Person Signing					

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

**REEL: 018744 FRAME: 0111** 

**PATENT** 

Attorney Docket No.: 10.1110 Express Mail No.: EV 942734055 US PATENT

## **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

	EIHE	RNET AND OPTICAL I	RANSPURI NEI WUR	V			
	for which U.S.	Patent Application No.	was filed on	; or			
<u>x</u>		oplication for a United States pate Office herewith; and	ent is being submitted to the U	Inited States Patent			
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:							
INVEN	<u>TOR # </u> 1	Name: MORTEZA GHODRA	Τ				
Signatur	re:		Date Signed:	_			
INVEN Signatur	TOR # 2	Name: MICHAEL A. GAZIE	R  Date Signed: Dec	22'06			
INVEN Signatur	TOR # 3	Name: IAN H. DUNCAN  1	Date Signed: Dec 2	2.00			

PATENT REEL: 018744 FRAME: 0112 Attorney Docket No.: 10.1110

Express Mail No.: EV 942734055 US

PATENT

## 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:

		SYSTEMS FOR CARRY ERNET AND OPTICAL T		
	for which U.S.	Patent Application No.	was filed on	; or
X		oplication for a United States pate Office herewith; and	ent is being submitted to the U	Inited States Patent
(hereir	nafter referred to a	CORPORATION, 1201 Winters "ASSIGNEE") is desirous of act to said application and any Letters.	quiring the entire right, title, a	nd interest in and to
or other hereby ASSIC and in possess United invention thereo grante any for an	er agreement and/of acknowledged, acknowledged, acknowledged, and any a sions and in any a lastes and its terion by said apply antion, division, for any legal equals, and authorize a preign country who	n accordance with obligations emper for other good and valuable cords. ASSIGNORS hereby sell, trains and assigns, ASSIGNORS' entirented and originated by ASSIGNORS' and all foreign countries and to all tritorial possessions and in any lication or any application claim continuation—in—part, reexaminativalent thereof in a foreign countries the Commissioner for one duty it is to issue patents or a, its lawful successors and assign	asideration, the receipt and sufficer and assign to said Alife right, title, and interest in an another sufficers of the United States. Il Letters Patent or similar legal and all foreign countries to be iming priority to/from the antion, renewal, substitute, extry for the full term(s) for which reparents of the United States regal equivalents thereof, to	ficiency of which is SSIGNEE, and to and to said invention and its territorial all protections in the e obtained for said application, or any tension, or reissue the same may be and any official of
pertine equiva to the ASSIC obtain	ent facts and docu dents thereof in fo same in any int SNEE or its legal maintain, issue, dents thereof in f	ovenant that ASSIGNEE will, a ments relating to said invention, reign countries as may be known erference or litigation related the representative any and all paper and/or enforce said invention, so foreign countries which may be	said application, and said Letter and accessible to ASSIGNOR accessible to ASSIGNOR access and will promptly exects, instruments, or affidavits read application, and said Letter and said Letter and said Letter access	ers Patent and legal S and will testify as cute and deliver to quired to apply for, ers Patent and legal
IN WI	TNESS WHERE	OF, we have hereunto set hand an	d signed on the date indicated	below:
INVR Signa	NTOR #1	Name: MORTEZA CHODR	Date Signed: Dec/	7/2006
INVE	NTOR #2	Name: MICHAEL A. GAZU		
Signa	are:		Date Signed:	
INVE	ENTOR#3	Name: IAN H. DUNCAN		
Signa	ture:		Date Signed:	<del></del>

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PATENT REEL: 018744 FRAME: 0113