	Page 1 of 1	1
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To the Please record the attached 34	BAQ copy thereof.	101
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)	S D
[FAMILY NAME (ALL CAPS), Given Name]	Name: CIENA CORPORATION	1
PHEIFFER, Brian	2. Name and address of receiving party(ies) Name: CIENA CORPORATION Internal Address:	2
WANG, Yalin	Street Address: 1201 Winterson Road	
BRYTTEGARD, Robert	City: Linthicum State: MD ZIP: 21090	
MCINTOSH, Kyle	Country: Postal Code:	
Additional name(s) of conveying party(ies) attached? YES NO	Additional name(s) & address(es) attached? YES NO	
3. Nature of conveyance:		
☐ Security Agreement ☐ Change of Name		
Other:		
Execution Date: December 18, 2003		
4. Application number(s) or patent number(s):	39157	
If this document is being filed together with a new application, th	e execution date of the application is: December 18, 2003	
A. Patent Application No(s).	B. Patent No.(s).	
New		
Additional numbers attack	hed? TYES NO	
5. Name and address of party to whom correspondence	6. Total No. of applications/patents involved: One (1)	_
concerning document should be mailed:	7. Total fee (37 C.F.R. § 3.41): \$40.00	_
Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP	⊠ Enclosed	
Street Address: P.O. BOX 747	Authorized to be charged to deposit account,	
City: FALLS CHURCH State: VA ZIP: 22040-0747	if no fee attached.	
Country: USA	8. Deposit account number: <u>02-2448</u>	
	(Attach triplicate copy of this page if paying by deposit account)	_
DO NOT USE		
9. Statement and signature.	2-1402	
_	a A	
Michael R. Cammarata, #39,491	December 19, 2003	
Name of Person Signing/Reg. No.	Signature Date	
Total number of pages including cover sh	eat attachments and document: Four (4)	

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(Rev. 09/30/03)

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

	Applic	ation No. No.	ew	_		Filed Dec.	19,	2003
Insert Name(s) of Inventor(s)	;	***(Given Name	FAMILY NAM	E (ALL CAPS))**	*		
) 	WHEREAS,		Brian PHEIFFER		Yalin WANG		
	Robert	<u>BRYTTEGARI</u>)	Kyle MCINTOSE				
	(herein	after designated	as the undersi	igned) has (have)	invented certain new	and useful improve	ments in	1
Insert Title of Invention	BIDIRE	CTIONAL LINE	SWITCHED PA	RTIAL RINGS, ME	SH NETWORKS, AND	METHODS OF OPE	<u>RATION</u>	
				a Patent of the U provisional applica	inited States of Am	erica has been exe	ocuted by	y tine
Insert Date of Signing of Application	on	Dece	mber 19,	2003				; and
Insert Name of Assignee		WHEREAS,	CIENA Con	poration			· - · · · ·	
Insert Address of Assignce	of <u>120</u>]	Winterson Ro	ad, Linthicum,	MD 21090				
CHECK BOX	acquiri may bo	ng the entire rip	ght, title and in or in the United		hereinafter designate aid invention and in a and			
	the receipm has the Assign depend which r	pipt of which is ve) sold, assig ee the full and encies and pos- ney be granted	s hereby acknoused and transi exclusive right sessions and the therefor in the	wledged, and oth ferred, and by the t to the said inver ne entire right, titl	en Dollars (\$10.00) or good and valuable so presents does solution in the United 8 and interest in and interest in and interest in countries;	e consideration, the II, assign and trans States of America, I to any and all Let	undersi fer unto its territa ters Pate	gned said ories, ent(s)
		any and all div or which the sai			onversions and exten	sions thereof for the	e full ter	m or

Page 1 of 2

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Dec 18# 2503

•		(signature) Brian PHENFEER
Date Dec. 18th, 2003.	Name of Inventor	(signature) Yalin WANG
Date Dec. 12 2003	Name of Inventor	(signature) Robert BRYTTEGARD
Date,	Name of Inventor	(signature) Kyle MCINTOSH
Date,	Name of Inventor	(signature)
Date	Name of Inventor	(signature)
Page 2 of 2		February 2002

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	! 	Name of Inventor	(signature) Brian PHEIFFER
Date		Name of Inventor	(eignature) Yalin WANG
Date	i	Name of Inventor	(signature) Robert BRYTTEGARD
Date	/18/03	Name of Inventor	(signature) Kyle MCINTOSH
Date		Name of Inventor	(signature)
Date		Name of Inventor	(signature)
Page 2 of 2			February 2002