	Docket No.: 464	
FORM PTO-1595 (Modified) (Rev. 03-01) 05 - 14 -	- 2002 T U.S. DEPARTMENT OF COMMERC	
OMB No. 0651-0027 (exp.5/31/2002)		
POBA/REV03 Tab settings $\rightarrow \rightarrow \rightarrow \checkmark$		
To the Honorable Commissioner of Paterna	attached original documents or copy thereof.	
1. Name of conveying party(ies): Wen Chen	2. Name and address of receiving party(ies):	
$\operatorname{Xin}\operatorname{Li}$	Name: CIENA COR PORATION	
Makarand Bhatamb 05/03/00	Address: LEGAL DEPARTMENT	
Additional names(s) of conveying party(ies)	1201 WINTERSON ROAD	
3. Nature of conveyance:		
🛛 Assignment 🗌 Merger		
Security Agreement Change of Name	City: LINTHICUM State/Prov.: MD	
Other	Country: USA ZIP: 21090	
Execution Date: MAY 3, 2002	Additional name(s) & address(es)	
Patent Application No. Filing date	B. Patent No.(s)	
5/13/2002 TDIAZ1 00000174 500308 10138853		
5/13/2002 TDIAZ1 00000174 500308 10138853 FC:581 40.00 CH Additional numbers 6 Name and address of party to whom correspondence		
5/13/2002 TDIAZ1 00000174 500308 10138853 FC:581 40.00 CH Additional numbers 5. Name and address of party to whom correspondence concerning document should be mailed:	☐ Yes ⊠ No	
5/13/2002 TDIAZ1 00000174 500308 10138853 6/13/2002 TDIAZ1 40.00 CH Additional numbers 6. Name and address of party to whom correspondence concerning document should be mailed: Additional numbers Name: MICHAEL R. CAMMARATA Registration No. 39,491	Yes X No 6. Total number of applications and patents involved:	
5/13/2002 TDIAZ1 00000174 500308 10138853 FC:581 40.00 CH Additional numbers 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MICHAEL R. CAMMARATA	 ☐ Yes ⊠ No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41):\$ 40.00 ☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account 	
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to CIENA a Delaware corporation, having a place of business at 1201 Winterson Road, Linthicum, MD 21090-2205, for itself and its successors, transferees, and assignees, the following:

The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional application filed under 35 U.S.C. §111(b) or non-provisional application filed under 35 U.S.C. §111(a) and entitled

CALCULATING PHYSICAL ROUTES IN A COMMUNICATION NETWORK

("APPLICATION") which:

· 🛛 is to be filed herewith

was filed on_____, 2002 now bearing U.S. application number_____; and

2. The entire worldwide right, title, and interest in and to:

(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all utility, divisional, continuation, substitute, renewal, reissue, and other related applications thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), (c) and (d) above; and (e) all right of priority in the APPLICATION, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Attorney Docket #_____

1 of 3

Title: Calculating physical routes in a communication network

Filed:	
Scrial	No

Name and Signature: Wen Chen	Date of <u>Signature</u> <u>5/3</u> ,200	Date Declaration Executed By This Person
State of}: County of}	S.S.	
On	before me.	personally
[DATE]	[NC	personally TARY PUBLIC] the basis of satisfactory evidence t
he same in his/her authorized capacity, and upon behalf of which the person acted, execu		•
lotary Seal	Notary	
Name and Signature: Xin Li	Date of <u>Signature</u> 5/3/2002	Date Declaration Executed By This Person
INVENTOR		,
County of}	/ S.S.	, perconally
State of} County of}		DTARY PUBLIC] n the basis of satisfactory evidence wwledged to me that he/she execu

Notary Seal

Notary

Attorney Docket #_____

Title: Calculating physical routes in a communication network

Filed:

Serial No.:

appeared	personally known	to me or proved to me or	n the basis of satisfactory evidence to
	[DATE]		TARY PUBLIC]
On _			
County of			
State of	}S.S.		
INVENTOR	z	513/2002	5/3,2002
Date of Name and Signature	Makarand Bhatambarekar	Date Declaration Signature	Executed By This Person

the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Notary Seal

Notary

RECORDED: 05/03/2002