FORM PTO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94)

101712378

VER SHEET NIY

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

101712370						
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof						
 Name of conveying party(ies): Michael H. Myers, Juan C. Riley, Charles D. Melville, Arkady S. Bablumyan, and Clark C. Guest Additional name(s) of conveying party(ies) attached? Yes No 	2. Name and address of receiving party(ies) Name: All Optical Networks, Inc. Internal Address: APR 2 3 2001					
3. Nature of conveyance:	Street Address: 9707 Waples Street City: San Diego State: CA ZIP: 92121 Additional names(s) & address(es) attached? Yes No					
4. Application number(s) or patent number(s):						
If this document is being filed together with a new application A. Patent Application No.(s) 09/810,888	B. Patent No.(s)					
Additional numbers	ı attached?					
 Name and address of party to whom correspondence concerning document should be mailed: Name: Gary D.E. Pierce, PATE PIERCE & BAIRD 	Total number of applications and patents involved: Total fee (37 CFR 3.41)					
Internal Address:	☑ Enclosed ☐ Authorized to be charged to deposit account					
Street Address: 50 West Broadway, Suite 900	8. Deposit account number:					
City: Salt Lake City State: UT ZIP: 84101	(Attach duplicate copy of this page if paying by deposit account)					
DO NOT USE THIS SPACE						
9. Statement and signature. To the best of my knowledge and belief, the foregoe copy is a true copy of the original document. Gary D.E. Pierce Name of Person Signing	going information is true and correct and any attached April 18, 2001 Signature Date					
Total number of pages including cover sheet, attachments, and document: 6						

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments Washington, D.C. 20231

ASSIGNMENT

We, Michael H. Myers, Juan C. Riley, Charles D. Melville, Arkady S. Bablumyan, and Clark C. Guest, having residence and post office addresses at 12947 Creek Park Drive, Poway, California 92064, 3226 Caminito Quixote, San Diego, California 92145, 3631 241st Avenue SE, Issaquah, Washington 98029, 8420 - G Via Mallorca, LaJolla, California 92037, and 8722 Menkar Road, San Diego, California 92126, respectively, have invented a method and apparatus entitled PHOTONIC WAVELENGTH SHIFTING METHOD, hereinafter called the "invention."

Preferred embodiments of said invention are disclosed in a United States patent application Serial No. 09/810,888, filed in the U.S. Patent and Trademark Office on March 16, 2001, and now identified as File No. 2807.2.22.2 of the law firm of PATE PIERCE & BAIRD, Bank One Tower, 50 West Broadway, Suite 900, Salt Lake City, Utah 84101.

The Assignee, All Optical Networks, Inc., a corporation of the State of Delaware and having a principal place of business at 9707 Waples Street, San Diego, California 92121, desires to secure the entire right, title and interest in said invention.

In consideration of \$1.00 and other good and valuable consideration paid to us by the Assignee, the receipt and sufficiency of which we hereby acknowledge, WE HEREBY ASSIGN TO THE ASSIGNEE:

The entire right, title and interest in said invention, in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, all previously filed provisional applications for which the present application seeks the benefit of an earlier filing date under 35 U.S.C. § 119, all reissues or extensions of Letters Patent or Patents granted thereon, and in all corresponding applications filed in countries foreign to the United States, and in all patents issuing thereon in the United States and foreign countries.

The right to file foreign patent applications on said invention in its own name, wherever such right may be legally exercised, including the right to claim the benefits of the International Convention for such applications.

We hereby authorize and request the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all patents on said invention to the Assignee as the owner of the entire interest, for the sole use and benefit of the said Assignee, its successors, assigns and legal representatives.

We hereby agree, without further consideration and without expense to us, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of us to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States and foreign patent applications on said invention, and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

© 2001, PATE PIERCE & BAIRD, P.C.

PATENT REEL: 011773 FRAME: 0559 Cooperation to the best of our ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

This assignment and agreement shall be binding upon our heirs and legal representatives.

12947 Creek Park Drive San Diego, California 92126 STATE OF CALIFORNIA COUNTY OF SAN DIEGO On March 22, 2001, before me, DIANA TOWNE personally appeared <u>MICHIFEL H-MYELS</u> personally known to me or proved to me on the basis of satisfactory evidence to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons executed the instrument. WITNESS my hand and official seal. DIANA TOWNE Commission # 1208531 Notary Public - California edua Torine San Diego County My Comm. Expires Feb 13, 2003 Juan C. Riley 3226 Caminito Øxixote San Diego, California 92145 STATE OF CALIFORNIA COUNTY OF SAN DIEGO On March 23, 2001, before me, DIFINA TOWNE, personally appeared JUAN C. RILEY personally known to me or proved to me on the basis of satisfactory evidence to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons executed the instrument. WITNESS my hand and official seal. DIANA TOWNE Commission # 1208531 Notary Public - California San Diego County My Comm. Expires Feb 13, 2003

-2-

© 2001, PATE PIERCE & BAIRD, P.C.

PATENT REEL: 011773 FRAME: 0560 Charles D. Melville

Charles D. Melville 3631 241st Avenue SE Issaquah, Washington 98029

1212	Issaquan, Washington 98029
いるけ STATE OF C ALIFORNI A)	
COUNTY OF SAN DIEGO)	
On 3-23-01, before personally appeared that estimates of the relief	me, Robin'L. JOKKISCH,
personally appeared from USD. Met utile basis of satisfactory evidence to be the persons who and acknowledged to me that they executed the sam signatures on the instrument the persons executed.	se names are subscribed to the within instrument is their authorized capacities, and that by their
WITNESS my hand and official seal.	AR _L *
Robert PUB PAR OF W	LIC ON ASHING

	Arkady S. Bablumyan 8420 - G Via Mallorca LaJolla, California 92037
STATE OF CALIFORNIA)	
COUNTY OF SAN DIEGO)	
On, before	· · · · · · · · · · · · · · · · · · ·
personally appeared	e in their authorized capacities, and that by their
WITNESS my hand and official seal.	
	Clark C. Guest 8722 Menkar Road San Diego, California 92126
S.	

-3-

3631 241st Avenue SE Issaguah, Washington 98029 STATE OF CALIFORNIA COUNTY OF SAN DIEGO , before me, On personally appeared _____ personally known to me or proved to me on the basis of satisfactory evidence to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons executed the instrument. WITNESS my hand and official seal. Arkady S. Bablumyan 8420 - G Via Mallorca LaJolla, California 92037 STATE OF CALIFORNIA COUNTY OF SAN DIEGO On March 23 2001, before me, DIANA TOWNE, personally appeared ARKADY S BABLUMYAN personally known to me or proved to me on the basis of satisfactory evidence to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacities, and that by their signatures on the instrument the persons executed the instrument. DIANA TOWNE WITNESS my hand and official seal. Commission # 1208531 Notary Public - California Maria Torme San Diego County My Comm. Expires Feb 13, 2003

> Clark C. Guest 8722 Menkar Road

Charles D. Melville

San Diego, California 92126

© 2001, PATE PIERCE & BAIRD, P.C.

-3-

PATENT REEL: 011773 FRAME: 0562

STATE OF CALIFORNIA)			
COUNTY OF SAN DIEGO))			
on March 22, 200 personally appeared <u>GLARK</u> C. basis of satisfactory evidence to be to and acknowledged to me that they expected to be to a second acknowledged.	xecuted the s	same in their authoriz	vn to me or prove cribed to the with ted capacities, an	d to me on the in instrument d that by their
signatures on the instrument the pe WITNESS my hand and official se		ed the instrument.		
Davia Torone		- Nrai	DIANA TOW Commission # 1 Notary Public - C San Diego Co My Comm. Expires F	1208531 California <u>\$</u> bunty *
		Processing Control		

-4-

RECORDED: 04/23/2001