12-02-1999

ocket No.: QB99-03

11.26.99 PATE	N] 101212303 ———————————————————————————————————		
To the Honorable Commissioner of Patents and Trademarks: Flease record the attached original documents or copy thereof.			
I. Name of conveying party(ies). Jeffrey A. Masucci I Louis Wojnaroski S. Martin Mastenbrook Barry D. Colella John I. Keisling Agnes M. Masucci	2. Name and address of receiving party(ies) Name: Quantum Bridge Communications, Inc. Internal Address:		
Additional name(s) of conveying party(ies) attached [] Yes [XX] No			
Nature of conveyance: XX] Assignment [] Merger Security Agreement [] Change of Name	Street Address: One High Street City: North Andover State: MA ZIP: 01845		
Other	Sing. Month Prince State. Mrs. 2011. V1045		
execution Date 11/9/99	Additional name(s) & address(es) attached? [] Yes [XX] No		
If this document is being filed together with a new application, A. Patent Application No.(s) 09/393,800 Additional number	B. Patent No.(s)		
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: [1]		
Name: Leo R Reynolds, Esq.	7. Total Fee (37 C.F.R. 3.41)\$ 40.00		
Internal Address: Hamilton, Brook, Smith & Reynolds, P.C.	[XX] Enclosed [X] Authorized to charge any deficiencies or credit any overpayment to deposit account [] Authorized to be charged to deposit account		
Street Address	8. Deposit account number: 08-0380		
City: Lexington State MA ZIP: 02421-4799	(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 foregoing informat document. Timothy J. Meagher #39,302 Name of Person Signing	ion is true and correct and any attached copy is a true copy of the original 1 22 99 Signature Date		
Total number of pages including co	over sheet, attachments, and document: [6]		

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Docket	No.	OB99-03	

Joint

<u>ASSIGNMENT</u>

WHEREAS, we, Jeffrey A. Masucci, Louis Wojnaroski, S. Martin Mastenbrook, Barry D. Colella, John F. Keisling and Agnes M. Masucci have invented a certain improvement in METHOD AND SYSTEM FOR PACKET TRANSMISSION OVER PASSIVE OPTICAL NETWORK described in an application for Letters Patent of the United States, the specification of which:

	is being executed on even date herewith and is about to be filed in the United States Patent Office;	İ
[X]	was filed on <u>September 10, 1999</u> as Application No. <u>09/393,800</u> ;	
	was patented under U.S. Patent Noon	

WHEREAS, Quantum Bridge Communications, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at One High Street, North Andover, Massachusetts 01845 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein:

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:	Jether a Manue
State/Commonwealth	Jeffrey A. Masucci
of massachuseth	
County of Essex	
	d before me the above-named Jeffrey A. Masucci and acknowledged going instrument as his free act and deed this day of, 19 ?
(SEAL)	Enthlew & Morearty Notary Public
	KATHLEEN E. MORIARTY (print name)
	My Commission expires My Commission expires Moriante

Inventor's Signature:	Tom & Womason
	Louis Wojnaroski
State/Commonwealth	•
of Massachutte	
County of Buck	
	before me the above-named Louis Wojnaroski and acknowledged bing instrument as his free act and deed this
(SEAL)	Kuthleen Emouarty Notary Public
	KATHLEEN E. MORIARTY (print name)
	My Commission expires //////////
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Inventor's Signature:	Mate Masterbrook S. Martin Masterbrook
State/Commonwealth	5. Wartin Wastenbrook
of massachusth	
County of Essent	
acknowledged that he exec	before me the above-named S. Martin Mastenbrook and suted the foregoing instrument as his free act and deed this UEmBER, 19 99.
(SEAL)	Tithben & Myenty Notary Public
	KATHLEEN E. MORIARTY (print name)
	My Commission expires/

Inventor's Signature:	Bury	D Will
State/Commonwealth	<i>,</i>	Barry D. Colella
of France had	<u> </u>	_
County of Essex		
	going instrument as his f	named Barry D. Colella and acknowledged free act and deed this ay of
(SEAL)	Forthleen & V	Mariasty Notary Public
	KETHLEEN E. M	
	My Commission ex	
		KATHLEEN E. MORIARTY Notary Public, Massachusetts Notary Public, Massachusetts 2005
Inventor's Signature:	John F Karl	1-
State/Commonwealth	/ Y U	John F. Keisling
of Transachush	G	_
County of Escer		_
		named John F. Keisling and acknowledged free act and deed this day of
(SEAL)	Kathleen &	Morianty Notary Public
	KETHLEEN E. MUR	(print name)
	My Commission exp	epires//
		KATHLEEN E: MORIARTY MASSACHUSEUS
) \$ _M (Commission Expires December 81, 200

Inventor's Signature:	1 m Mase	en a	
		Agnes M. M	lasucci
State/Commonwealth	,		
of Macrachunter			
County of Esser			
	ed before me the above-na regoing instrument as her 19 99	_	M. Masucci and acknowledged deed this day of
(SEAL)	- Kuthbeal 1.	nortally	Notary Public
	KATHCEEN E. MO	RIARTY	(print name)
	My Commission exp	oires	//
	Vs.		TO 2008 TO 2008 TO MISS 91, 2008

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