# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
TERABEAM CORPORATION	05/23/2008

## **RECEIVING PARTY DATA**

Name:	PERTEX TELECOMMUNICATION LLC	
Street Address:	2711 Centerville Road	
Internal Address:	Suite 400	
City:	Wilmington	
State/Country:	DELAWARE	
Postal Code:	19808	

### PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6608708

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ATTORNET DOCKET NOMBER.		
ATTORNEY DOCKET NUMBER:	088245-5125	

NAME OF SUBMITTER: Paul S. Hunter

Total Attachments: 11

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PATENT

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PATENT REEL: 021205 FRAME: 0718

#### ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Terabeam Corporation, a Washington corporation, with an office at 2115 O'Nel Drive, San Jose, CA 95131 ("Assignor"), does hereby sell, assign, transfer, and convey unto Pertex Telecommunication LLC, a Delaware limited liability company, having an address at 2711 Centerville Road, Suite 400, Wilmington, DE 19808 ("Assignee"), or its designees, all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the "Patent Rights"):

- (a) the provisional patent applications, patent applications and patents listed in the table below (the "Patents");
- (b) all patents and patent applications (i) to which any of the Patents directly or indirectly claims priority, and/or (ii) for which any of the Patents directly or indirectly forms a basis for priority;
- (c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);
- (d) all foreign patents, patent applications, and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;
- (e) all items in any of the foregoing in categories (b) through (d), whether or not expressly listed as Patents below and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;
- (f) inventions, invention disclosures, and discoveries described in any of the Patents and/or any item in the foregoing categories (b) through (e) that (i) are included in any claim in the Patents and/or any item in the foregoing categories (b) through (e), and/or (ii) are subject matter capable of being reduced to a patent claim in a reissue or reexamination proceedings brought on any of the Patents and/or any item in the foregoing categories (b) through (e);
- (g) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (f), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

PATENT REEL: 021205 FRAME: 0719

- (h) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or any item in any of the foregoing categories (b) through (g), including, without limitation, all causes of action and other enforcement rights for
  - (1) damages,
  - (2) injunctive relief, and
  - (3) any other remedies of any kind

for past, current, and future infringement; and

(i) all rights to collect royalties and other payments under or on account of any of the Patents and/or any item in any of the foregoing categories (b) through (h).

			Title of Patent and First
Patent or Application No.	<b>Country</b>	Filing Date	Named Inventor
			Method and apparatus for
			correcting aberrations in
6,381,044	US		photon collection devices
(09/627,816)		(7/28/2000)	
			Schuster, John J.; Bajorins,
			David P.
			Apparatus and method to
			mount electro-optic systems
6,417,976	TIG		G 1
(09/801,030)	US	(3/6/2001)	Schuster, John J.; Riday,
			Richard B.; Davis, Eric J.;
			Webb, James S.; Hulett,
			Randy; Schulte, Derek Optical fiber position
			controller for multiple degrees
6,470,023	US		of freedom
(09/799,851)		(3/5/2001)	31 1100d0111
			Upton, Eric Lawrence
			Method and apparatus for tone
			tracking in wireless optical
6,483,621	US		communication systems
(09/627,819)	03	(7/28/2000)	
			Adams, Jeffrey C.; Pratt,
			Mark; Barclay, Micah J.
			Method and apparatus for tone
JP20020515731T	JР	6/26/2001	tracking wireless optical
		3.23.2001	communication system

Patent or Application No.	Country	Filing Date	<u>Title of Patent and First</u> Named Inventor
			Adams, Jeffrey C.; Pratt,
			Mark; Barclay, Micah J
			Transmitter using uniform
			intensity transmission for a
6,487,022	US		wireless optical
(09/938,896)	US	(8/24/2001)	communication system
			Okorogu, Albert O.
			Method and apparatus for
			polarization tracking in
6,490,070	TIG		wireless optical
(09/627,279)	US	(7/28/2000)	communication systems
			Adams, Jeffrey C.; Pratt,
			Mark; Barclay, Micah J.
			Method and apparatus for
			receiving and aligning an
6,493,490	US		optical communications beam
(09/740,282)		(12/18/2000)	with an integrated structure
			Steiger, Ronald D.
			Conductive fluid-based
6,498,500 (09/805,655)	US	(3/13/2001)	position sensor and method
( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (		(5.12.231)	Upton, Eric Lawrence
		·	Conductive fluid-based
6,515,490	US		position sensor and method
(10/143,166)	08	(5/10/2002)	
	<u> </u>		Upton, Eric Lawrence
			Apparatus and method for
			receiving optical
6,498,662	1		telecommunication
(09/627,276)	US	(7/28/2000)	transmissions by using a
()		(==,	holographic optical element
			Schuster, John J.
			Adaptive support for
6.520.150			positioning optical
6,539,159	US	(2/12/2001)	components
(09/805,675)		(3/13/2001)	
			Upton, Eric Lawrence
6,542,675	US		Apparatus and method to use a

Title of Patent and First

	~ ·	TOTAL PS	Title of Patent and First
Patent or Application No.	Country	Filing Date	Named Inventor
(09/847,891)		(5/2/2001)	tapered fiber bundle in a free
			space optical communication
			system
			Tourgee, Gerald Edward;
			Barbier, Pierre Robert;
			Rollins, David Lawrence;
			Sochor, Timothy Alan;
			Robinson, III, John Walker
	· ·		Magnetic fluid-based
6.550.161			positioning apparatus and
6,553,161	US	(2/1/2/2001)	method
(09/805,763)		(3/13/2001)	
			Upton, Eric Lawrence
	-	****	Wall mount assembly and
6.595.410			apparatus for mounting FSO
6,575,418	US		equipment to a wall
(10/147,186)		(5/15/2002)	oquipment to a wan
			Riday, Richard Brian
<del></del> .			Common aperture holographic
			optical element devices for a
6,597,476	US		free space optical transceiver
(09/852,825)		(5/9/2001)	nee space opinear transcerver
			Okorogu, Albert O.
			Apparatus and method to
			measure light attenuation
			through a window
6,603,554	US		unough a window
(09/746,122)		(12/22/2000)	Eisenberg, Eric C.; Hampton,
			Shaun C.; Adams, Jeffrey C.;
			Bajorins, David P.
	<del>                                     </del>		System and method for using a
			holographic optical element in
			a wireless telecommunication
			system receiver
6,608,708	US		System 1000, voi
(09/627,815)		(7/28/2000)	Amadon, Charles Gregory;
			Rallison, Richard D.; Schuster,
			John J.; Brown, Harold A.;
			Pratt, Mark
6,678,079			Transceiver for a wireless
	US	(3/0/2001)	
(09/802,672)	<u> </u>	(3/9/2001)	optical telecommunication

Patent or Application No.	Country	Filing Date	<u>Title of Patent and First</u> Named Inventor
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			Amadon, Charles Gregory; Rallison, Richard D.; Pratt, Mark; Bajorins, David P.; Stapleton, Lawrence Cooper; Riday, Richard B.; Brown, Harold Alexander; Lauby, William Joseph; Thomas, Michael; Sparrold, Scott William
JP20020515481T	JP	6/1/2001	System and method for using a holographic optical element in a wireless telecommunication system receiver  Amadon Charles Gregory; Rallison Richard D; Schuster John; Brown Harold A; Pratt
TWI165501 (TW20010118449)	TW	(7/27/2001)	Mark System and method for using a holographic optical element in a wireless telecommunication system receiver  Amadon Charles Gregory; Rallison Richard D; Schuster John; Brown Harold A; Pratt Mark
6,867,889 (10/686,881)	US	(10/16/2003)	Transceiver for a wireless optical telecommunication system  Amadon, Charles Gregory; Rallison, Richard D.; Pratt, Mark; Bajorins, David P.; Stapleton, Lawrence Cooper; Riday, Richard B.; Brown, Harold Alexander; Lauby, William Joseph; Thomas, Michael; Sparrold, Scott William

Patent or Application No.	Country	Filing Date	<u>Title of Patent and First</u> Named Inventor
6,609,690 (10/010,350)	US	(12/5/2001)	Apparatus for mounting free space optical system equipment to a window
6,661,546 (10/112,534)	US	(3/28/2002)	Davis, Eric Joseph  Multi-aperture holographic optical element for illumination sensing in a free space optical communication system  Plett, Mark L.
6,674,974 (09/627,277)	US	(7/28/2000)	Method and apparatus for tracking in an optical communications system  Stieger, Ronald D.; Mecherle, George Steven; Mollo, Mark A.
6,678,251 (09/782,956)	US	(2/13/2001)	Link quality agent  Sowizral, Henry Adam; Payne, Christopher Robin; Angus, Ian Gareth; Wagner, Alan Shelton; Harris, Patrick Neal; Hollinger, Kermit Andreas
7,012,897 (10/625,341)	US	(7/22/2003)	Link quality agent  Sowizral, Henry Adam; Payne, Christopher Robin; Angus, Ian Gareth; Wagner, Alan Shelton; Harris, Patrick Neal; Hollinger, Kermit Andreas
6,724,508 (09/886,246)	US	(6/20/2001)	Internal reflection apparatus and method using a holographic optical element for a free space optical communication system  Pierce, Robert Michael; Fadlovich, Chace Howard; Bratt, Nicholas Eichhorn

Patent or Application No.	Country	Filing Date	<u>Title of Patent and First</u> <u>Named Inventor</u>
6,731,415 (10/109,716)	US	(3/28/2002)	Multi-aperture holographic optical element for use in a free space optical communication system  Plett, Mark L.
6,768,876 (09/627,817)	US	(7/28/2000)	Method and apparatus for tracking an optical communications system  Steiger, Ronald D.; Pratt, Mark R.
6,791,073 (09/746,700)	US	(12/21/2000)	Optical receiver having baffle including a plurality of apertures  Bell, John A.; Schuster, John J.
6,801,687 (10/226,490)	US	(8/22/2002)	Apparatus and method for generating a mode-scrambled optical signal using a VCSEL array  Pierce, Robert M.
6,801,722 (09/847,608)	US	(5/1/2001)	Optical tracking system with reflective fiber  Webb, James S.; Bell, John A.; Presby, Herman M.
6,832,859 (10/072,292)	US	(2/7/2002)	Free space optical system with multiple function detectors  Bell, John A.; Bratt, Nicholas E.; Presby, Herman M.; Ferrier, Stuart; Plett, Mark Lewis
6,804,422 (10/008,453)	US	(12/5/2001)	Integrated optic component for binocular FSO transceiver  Bajorins, David Paul; Webb, James S.
6,810,175	US		Off-axis mode scrambler

Patent or Application No.	Country	Filing Date	<u>Title of Patent and First</u> Named Inventor
(10/128,953)		(4/22/2002)	
(10/126,533)		(1/22/2002)	Wey, Jun Shan; Pierce, Robert M.; Eisenberg, Eric C.; Wyer, Jorah R.
7,072,543 (10/681,552)	US	(10/7/2003)	Extended source transmitter for free space optical communication systems  Pierce, Robert M.; Bell, John A.; Cornish, Carrie Sjaarda; Rush, David
6,847,496 (09/904,880)	US	(7/12/2001)	Transmission of free-space optical communication signals through windows
			Presby, Herman
6,856,437 (10/061,557)	US	(2/1/2002)	Fast steering mirror  Witt, John D.; Anderson, Tyler M.
6,868,236 (10/198,980)	US	(7/18/2002)	Apparatus and method for combining multiple optical beams in a free-space optical communications system  Wiltsey, Thomas J.; Rollins, David L.; Pierce, Robert M.
6,895,146 (09/876,535)	US	(6/6/2001)	Mode scrambler  Wey, Jun Shan; Plett, Mark Lewis; Cashion, Steven Andrew; Nykolak, Gerald; Pierce, Robert Michael
6,912,360 (09/938,906)	US	(8/24/2001)	Free space point-to-multipoint optical communication system and apparatus  Sparrold, Scott W.; Upton, Eric L.; Okorogu, Albert O.
6,925,260 (09/805,656)	US	(3/13/2001)	Window-mounted positionable collector

Patent or Application No.	<b>Country</b>	Filing Date	<u>Title of Patent and First</u> Named Inventor
			Upton, Eric Lawrence
6,941,076 (09/859,339)	US	(5/16/2001)	Tone modulation for out-of- band communication in a free- space optical communication link
			Adams, Jeffrey C.; Lee, Rand W.
6,967,754 (10/020,518)	US		Hybrid optical transceivers for free space optical communication
		(12/14/2001)	Bratt, Nicholas E.; Fadlovich,
			Chace H.; Pierce, Robert M
6,972,904 (10/732,902)	US		Pointable optical transceivers for free space optical
		(12/9/2003)	Bratt, Nicholas E.; Fadlovich,
			Chace H.; Pierce, Robert M.
6,970,651 (09/919,687)	US		High-sensitivity tracking in free-space optical
		(7/31/2001)	communication systems
			Schuster, John J.; Bell, John A.
7,006,954 (10/077,343)	US		Random sampling for multivariate Bernoulli
		(2/15/2002)	variables
			Curtis, Wendell; Zikan, Karel; Sowizral, Henry
7,103,279 (10/196,568)	US		Architecture for wireless transmission of high rate optical signals
		(7/15/2002)	Koh, Christopher T.; Robinson, Wyley; Lee, Myung K.; Holzman, Eric L.; Pergola, Kenneth Michael
7,116,910 (10/120,950)	US	(4/10/2002)	Free space optical tap and multi/demultiplexer

Title of Patent and First

Patent or Application No.	Country	Filing Date	Named Inventor
			Presby, Herman M.; Rush, David W.
6,450,773 (09/805,654)	US	(3/13/2001)	Piezoelectric vacuum pump and method
			Eric Lawrence Upton

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Northumpton, MA on May 23, 2008
ASSIGNOR:
Cerabeam Corporation
sv: Havill Renaull
Name: David L. Renauld
title: Vice President
Signature MUST be notarized)

STATE OF MISSOCHUSELLS SS.

COUNTY OF MMOSHULE ) SS.

On 5/23/08 before me, David Renauld Mostary Public in and for said State, personally appeared 100 led Languard personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the MUIC 570683114

instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature

(Seal)

ANNA ZADWORNY MY COMMISSION EXPIRES SEPTEMBER 17, 2010