

PATENT ASSIGNMENT

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
AZNA LLC	01/30/2008
RECEIVING PARTY DATA	
Name:	FINISAR CORPORATION
Street Address:	1389 Moffett Park Drive
City:	Sunnyvale
State/Country:	CALIFORNIA
Postal Code:	94089
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	10933081
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ATTORNEY DOCKET NUMBER:	15436.1248.13.1
NAME OF SUBMITTER:	R. Burns Israelsen
Total Attachments: 15 source=15436-1248-SignedAssignment(Azna)#page1.tif source=15436-1248-SignedAssignment(Azna)#page2.tif source=15436-1248-SignedAssignment(Azna)#page3.tif source=15436-1248-SignedAssignment(Azna)#page4.tif	

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WHEN RECORDED RETURN TO:

PATENT

Workman Nydegger
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111

ASSIGNMENT

WHEREAS, Azna LLC, a limited liability company of the State of Delaware, having a principal place of business at 1389 Moffett Park Drive, Sunnyvale, California 94089, (hereinafter referred to as ASSIGNOR) is the owner of record of the U.S., International and Foreign Patent Applications and Patents listed in Schedule A (hereinafter "Patent Properties");

WHEREAS, Finisar Corporation, a corporation of the State of Delaware, having a principal place of business at 1389 Moffett Park Drive, Sunnyvale, California 94089, (hereinafter referred to as ASSIGNEE), desires to acquire all right, title, and interest in and to the above-identified Patent Properties and in and to the inventions of the above-identified Patent Properties;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, and transfers unto ASSIGNEE:

The entire right, title and interest in the above-identified Patent Properties and in the corresponding inventions and in all subsequent divisions and continuations of said Patent Properties, or reissues or extensions thereof, and in all patents issuing thereon in the United States or foreign countries, and in all corresponding patent applications filed in countries foreign to the United States, and in all patents issuing thereon in said 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.

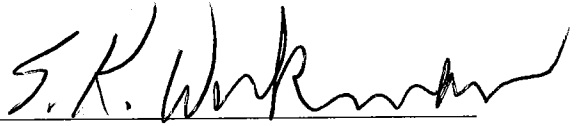
ASSIGNOR hereby authorizes and requests the Commissioner for Patents of the United States, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue all letters patent on said Patent Properties to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of Patent Properties for United States and foreign letters patent on said Patent Properties, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

This assignment is effective the 30 day of January, 2008.

Signed this 30 day of January, 2008 on behalf of ASSIGNOR.

AZNA LLC

Signature: _____



Name: Steve Workman

Title: CFO

Accepted this 30 day of January, 2008 on behalf of ASSIGNEE.

FINISAR CORPORATION

Signature: _____



Name: Anders Olsson

Title: Sr. VP of Engineering

Schedule A

WN Docket No		Title	Inventors	Filing Date	Serial No.	Patent Date	Patent No.
15436.1248.1	US	FEMTOSECOND LASER OSCILLATOR WITH PULSE PICKER FUNCTION	Yasuhiro Matsui, Friedrich Strohkendl and Kevin McCallion	02/19/03	60/448,392		
15436.1248.2	US	DISTRIBUTED SATURABLE ABSORBER FOR THE SUPPRESSION OF AMPLIFICATION OF SPONTANEOUS EMISSION AND FOR PASSIVE Q-SWITCHING IN PULSED LASER SYSTEMS	Friedrich Strohkendl	02/18/03	60/447,995		
15436.1248.2.1	US	DISTRIBUTED SATURABLE ABSORBER FOR THE SUPPRESSION OF AMPLIFICATION OF SPONTANEOUS EMISSION AND FOR PASSIVE Q-SWITCHING IN PULSED LASER SYSTEMS	Friedrich P. Strohkendl	02/19/03	60/448,369		
15436.1248.3	US	OPTICAL BEAM STEERING FOR TUNABLE LASER APPLICATIONS	Kevin McCallion, Duncan Walker and Parviz Tayebati	02/25/03	60/449,917		
15436.1248.3.1	US	OPTICAL BEAM STEERING FOR TUNABLE LASER APPLICATIONS	Parviz Tayebati, Kevin McCallion and Duncan Walker	02/25/04	10/786,839		
15436.1248.4	US	SATURABLE ABSORBER FIBER FOR THE SUPPRESSION OF AMPLIFICATION OF SPONTANEOUS EMISSION IN OPTICAL AMPLIFIERS AND FOR PASSIVE Q-SWITCHING IN PULSED LASER SYSTEMS	Friedrich Strohkendl	04/04/03	60/460,189		
15436.1248.5	US	(A) SINGLE MODE FIBER LASER OSCILLATORS BASED ON MULTIMODE FIBER AND (B) SHORT PULSE MODELOCKING WITH SLOWLY RELAXING SEMICONDUCTOR SATURABLE ABSORBER MIRRORS	Friedrich Strohkendl	04/04/03	60/460,197		
15436.1248.5.1	US	(A) SINGLE MODE FIBER LASER OSCILLATORS BASED ON MULTIMODE FIBER AND (B) SHORT PULSE MODELOCKING WITH SLOWLY RELAXING SEMICONDUCTOR SATURABLE ABSORBER MIRRORS	Friedrich Strohkendl	04/05/04	60/559,589		

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WN Docket No		Title	Inventors	Filing Date	Serial No.	Patent Date	Patent No.
15436.1248.5.2	US	(A) SINGLE MODE FIBER LASER OSCILLATORS BASED ON MULTIMODE FIBER AND (B) SHORT PULSE MODELOCKING WITH SLOWLY RELAXING SEMICONDUCTOR SATURABLE ABSORBER MIRRORS	Friedrich Strohkendl	04/05/05	60/668,379		
15436.1248.6	US	OPTICAL BEAM STEERING FOR TUNABLE LASER APPLICATIONS	Parviz Tayebati, Kevin McCallion and Duncan Walker	04/15/03	60/463,063		
15436.1248.7	US	HIGH POWER STRETCHED PULSE OSCILLATOR WITH TUNABLE REPETITION RATE	Min Jiang	05/12/03	60/469,699		
15436.1248.8	US	DOUBLE PASS FIBER AMPLIFIER WITH PULSE STRETCHER FOR HIGH POWER ULTRASHORT PULSE AMPLIFICATION	Min Jiang	05/13/03	60/469,937		
15436.1248.9	US	MULTI-KW FIBER LASER THROUGH TIME DIVISION MULTIPLEXING	Min Jiang	05/28/03	60/473,740		
15436.1248.10	US	TIME MULTIPLEXED MULTIFOCAL MULTIPHOTON MICROSCOPY	Min Jiang and Donald L. McDaniel, Jr.	06/13/03	60/478,201		
15436.1248.11	US	THERMAL STABILIZATION OF WAVELENGTH LOCKERS	Duncan Walker, Kevin McCallion, Michael Deutsch and Parviz Tayebati	06/17/03	60/479,087		
15436.1248.12	US	CHIP-SCALE TDM TO WDM TRANSMITTER	Bart Johnson, Parviz Tayebati, Kevin McCallion, Donald L. McDaniel, Jr., Yasuhiro Matsui and Daniel Mahgerefteh	07/11/03	60/487,068		
15436.1248.13	US	THERMAL CHIRP MANAGEMENT OF DIRECTLY MODULATED TRANSMITTER	Daniel Mahgerefteh, Roeland Nuyts, Yasuhiro Matsui and Bart Johnson	09/05/03	60/500,540		
15436.1248.13.1	US	METHOD AND APPARATUS FOR TRANSMITTING A SIGNAL USING THERMAL CHIRP MANAGEMENT OF A DIRECTLY MODULATED TRANSMITTER	Daniel Mahgerefteh, Roeland Nuyts, Yasuhiro Matsui, Parviz Tayebati, Bart Johnson, Duncan Walker and Xueyan Zheng	09/02/04	10/933,081		
15436.1248.13.1a	PCT	METHOD AND APPARATUS FOR TRANSMITTING A SIGNAL USING THERMAL CHIRP MANAGEMENT OF A DIRECTLY MODULATED TRANSMITTER	Daniel Mahgerefteh, Roeland Nuyts, Yasuhiro Matsui, Parviz Tayebati, Bart Johnson, Duncan Walker and Xueyan Zheng	05/25/05	PCT/US2005/018278		

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15436.1248.13.1a.1	CN	METHOD AND APPARATUS FOR TRANSMITTING A SIGNAL USING THERMAL CHIRP MANAGEMENT OF A DIRECTLY MODULATED TRANSMITTER	Daniel Mahgerefteh, Roeland Nuyts, Yasuhiro Matsui, Parviz Tayebati, Bart Johnson, Duncan Walker and Xueyan Zheng	05/25/05	200580037807		
15436.1248.13.1a.2	EPO	METHOD AND APPARATUS FOR TRANSMITTING A SIGNAL USING THERMAL CHIRP MANAGEMENT OF A DIRECTLY MODULATED TRANSMITTER	Daniel Mahgerefteh, Roeland Nuyts, Yasuhiro Matsui, Parviz Tayebati, Bart Johnson, Duncan Walker and Xueyan Zheng	05/25/05	05764209.2		
15436.1248.14	US	10GBS TRANSMITTER CONFIGURATION FOR 600KM REACH	Kevin McCallion, Parviz Tayebati, Duncan Walker and Zhencan (Frank) Fan	10/28/03	60/514,939		
15436.1248.14.1	US	10GBS TRANSMITTER CONFIGURATION FOR 600KM REACH	Kevin McCallion, Parviz Tayebati, Duncan Walker and Zhencan (Frank) Fan	10/28/04	60/622,913		
15436.1248.15	US	IN-LINE TRANSMISSIVE TAP PHOTODETECTOR	Parviz Tayebati, Yasuhiro Matsui and Kevin McCallion	11/13/03	60/520,154		
15436.1248.15.1	US	IN-LINE TRANSMISSIVE TAP PHOTODETECTOR	Parviz Tayebati, Yasuhiro Matsui and Kevin McCallion	11/12/04	60/627,598		
15436.1248.16	US	OPTICAL TELECOMMUNICATION SYSTEM	Daniel Mahgerefteh, Parviz Tayebati, Kevin McCallion, Duncan Walker, Roeland Nuyts, Yasuhiro Matsui, Bart Johnson and Zhencan (Frank) Fan	12/17/03	60/530,479		
15436.1248.16.1	US	CHIRP MANAGED, WAVELENGTH MULTIPLEXED, DIRECTLY MODULATED SOURCES USING AN ARRAYED WAVEGUIDE GRATING (AWG) AS MULTI-WAVELENGTH DISCRIMINATOR	Parviz Tayebati, Daniel Mahgerefteh and Kevin McCallion	12/17/04	11/016,020		
15436.1248.16.2	US	CHIRP MANAGED LASER WITH ELECTRONIC PRE-DISTORTION	Daniel Mahgerefteh, Yasuhiro Matsui and Parviz Tayebati	12/17/04	11/016,466		
15436.1248.16.3	US	MULTI-RING RESONATOR IMPLEMENTATION OF OPTICAL SPECTRUM RESHAPER FOR CHIRP MANAGED LASER TECHNOLOGY	Kevin McCallion and Parviz Tayebati	12/17/04	11/015,591	10/09/07	7280721
15436.1248.16.3.1	US	MULTI-RING RESONATOR IMPLEMENTATION OF OPTICAL SPECTRUM RESHAPER FOR CHIRP MANAGED LASER TECHNOLOGY	Kevin McCallion and Parviz Tayebati	02/05/07	11/702,436		

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15436.1248.16.4	US	CHIRP MANAGED LASER FIBER OPTIC SYSTEM INCLUDING AN ADAPTIVE RECEIVER	Parviz Tayebati, Daniel Mahgerefteh and Kevin McCallion	12/17/04	11/015,686		
15436.1248.17	US	CHIRPED MANAGED WAVELENGTH MULTIPLEXED DIRECTLY MODULATED SOURCES USING AN AWG AS MULTI-WAVELENGTH DISCRIMINATOR	Parviz Tayebati, Daniel Mahgerefteh and Kevin McCallion	12/22/03	60/531,656		
15436.1248.18	US	CARRIER SUPPRESSION USING ADIABATIC FREQUENCY MODULATION (AFM)	Yasuhiro Matsui and Daniel Mahgerefteh	01/16/04	60/536,929		
15436.1248.18.1	US	CARRIER SUPPRESSION USING ADIABATIC FREQUENCY MODULATION (AFM)	Yasuhiro Matsui and Daniel Mahgerefteh	01/18/05	11/037,893	03/06/07	7,187,821
15436.1248.18.1.1	US	CARRIER SUPPRESSION USING ADIABATIC FREQUENCY MODULATION (AFM)	Yasuhiro Matsui and Daniel Mahgerefteh	03/02/07	11/713,571		
15436.1248.19	US	CHIRP MANAGED DIRECTLY MODULATED LASER WITH BAND WIDTH LIMITING FREQUENCY DISCRIMINATOR	Yasuhiro Matsui, Duncan Walker, Daniel Mahgerefteh and Parviz Tayebati	01/16/04	60/536,967		
15436.1248.19.1	US	CHIRP MANAGED DIRECTLY MODULATED LASER WITH BANDWIDTH LIMITING OPTICAL SPECTRUM RESHAPER	Yasuhiro Matsui, Duncan Walker, Daniel Mahgerefteh and Parviz Tayebati	01/18/05	11/037,718		
15436.1248.20	US	ADIABATIC FREQUENCY MODULATED TRANSMITTER WITH NEGATIVE CHIRP	Daniel Mahgerefteh and Parviz Tayebati	01/20/04	60/537,737		
15436.1248.20.1	US	ADIABATIC FREQUENCY MODULATED TRANSMITTER WITH NEGATIVE CHIRP	Daniel Mahgerefteh and Parviz Tayebati	01/21/05	11/040,053		
15436.1248.21	US	CO-PACKAGED TRANSMITTER FOR DWDM APPLICATIONS	Kevin McCallion, Duncan Walker, Michael Deutsch, Guoxi Sun and Zhencan (Frank) Fan	01/26/04	60/539,225		
15436.1248.22	US	ADIABATICALLY FREQUENCY MODULATED SOURCE	Yasuhiro Matsui	02/04/04	60/541,816		
15436.1248.22.1	US	ADIABATICALLY FREQUENCY MODULATED SOURCE	Yasuhiro Matsui and Daniel Mahgerefteh	02/04/05	11/051,893		

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WN Docket No		Title	Inventors	Filing Date	Serial No.	Patent Date	Patent No.
15436.1248.23	US	ERROR-FREE 250-KM TRANSMISSION IN STANDARD FIBER USING A COMPACT 10 GB/S CHIRP-MANAGED DIRECTLY MODULATED (CMDMTM) LASER AT 1550 NM	Charlie Liao, Daniel Mahgerefteh, Yasuhiro Matsui, Bart Johnson, Duncan Walker, Zhencan (Frank) Fan, Kevin McCallion and Parviz Tayebati	02/22/04	60/546,842		
15436.1248.24	US	OPTICAL SYSTEM COMPRISING AN FM SOURCE AND A SPECTRAL RESHAPING ELEMENT	Yasuhiro Matsui, Daniel Mahgerefteh, Duncan Walker, Bart Johnson and Parviz Tayebati	02/27/04	60/548,230		
15436.1248.24.1	US	OPTICAL SYSTEM COMPRISING AN FM SOURCE AND A SPECTRAL RESHAPING ELEMENT	Daniel Mahgerefteh, Yasuhiro Matsui, Xueyan Zheng, Bart Johnson, Duncan Walker and Parviz Tayebati	02/28/05	11/068,032		
15436.1248.24.1a	PCT	OPTICAL SYSTEM COMPRISING AN FM SOURCE AND A SPECTRAL RESHAPING ELEMENT	Filed in the name of Azna LLC	02/28/05	PCT/US05/06412		
15436.1248.24.1a.1	Canada	OPTICAL SYSTEM COMPRISING AN FM SOURCE AND A SPECTRAL RESHAPING ELEMENT	Filed in the name of Azna LLC	02/28/05	2,557,150		
15436.1248.24.1a.2	CN	OPTICAL SYSTEM COMPRISING AN FM SOURCE AND A SPECTRAL RESHAPING ELEMENT	Filed in the name of Azna LLC	02/28/05	200580012705.4		
15436.1248.24.1a.3	EPO	OPTICAL SYSTEM COMPRISING AN FM SOURCE AND A SPECTRAL RESHAPING ELEMENT	Filed in the name of Azna LLC	02/28/05	05724041.8		
15436.1248.24.1a.4	JP	OPTICAL SYSTEM COMPRISING AN FM SOURCE AND A SPECTRAL RESHAPING ELEMENT	Filed in the name of Azna LLC	02/28/05	2007-500803		
15436.1248.25	US	ARRAY OF DIRECTLY MODULATED LASERS	Parviz Tayebati, Zhencan (Frank) Fan and Kevin McCallion	03/08/04	60/551,226		
15436.1248.25.1	US	ARRAY OF DIRECTLY MODULATED LASERS	Parviz Tayebati, Zhencan (Frank) Fan and Kevin McCallion	03/08/05	60/659,840		
15436.1248.26	US	METHOD OF TRANSMISSION USING PARTIAL FM AND AM MODULATION	Daniel Mahgerefteh and Yasuhiro Matsui	03/18/04	60/554,249		
15436.1248.26.1	US	METHOD AND APPARATUS FOR TRANSMITTING A SIGNAL USING SIMULTANEOUS FM AND AM MODULATION	Daniel Mahgerefteh, Yasuhiro Matsui, Parviz Tayebati and Xueyan Zheng	03/18/05	11/084,633		
15436.1248.26.1a	PCT	METHOD AND APPARATUS FOR TRANSMITTING A SIGNAL USING SIMULTANEOUS FM AND AM MODULATION	Filed in the name of Azna LLC	03/18/05	PCT/US05/09398		

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WN Docket No		Title	Inventors	Filing Date	Serial No.	Patent Date	Patent No.
15436.1248.27	US	FLAT CHIRP INDUCED BY FILTER EDGE	Daniel Mahgerefteh and Yasuhiro Matsui	03/18/04	60/554,243		
15436.1248.27.1	US	FLAT-TOPPED CHIRP INDUCED BY OPTICAL FILTER EDGE	Daniel Mahgerefteh, Yasuhiro Matsui, Parviz Tayebati and Xueyan Zheng	03/18/05	11/084,630		
15436.1248.27.1a	PCT	FLAT-TOPPED CHIRP INDUCED BY OPTICAL FILTER EDGE	Filed in the name of Azna LLC	03/18/05	PCT/US05/09399		
15436.1248.27.1a.1	Canada	FLAT-TOPPED CHIRP INDUCED BY OPTICAL FILTER EDGE	Filed in the name of Azna LLC	03/18/05	2,561,128		
15436.1248.27.1a.2	China	FLAT-TOPPED CHIRP INDUCED BY OPTICAL FILTER EDGE	Filed in the name of Azna LLC	03/18/05	200580015245.0		
15436.1248.27.1a.3	EPO	FLAT-TOPPED CHIRP INDUCED BY OPTICAL FILTER EDGE	Filed in the name of Azna LLC	03/18/05	05731268.8		
15436.1248.28	US	REACH EXTENSION BY USING EXTERNAL FIBER BRAGG GRATING FOR SPECTRAL FILTERING	Yasuhiro Matsui and Parviz Tayebati	03/30/04	60/557,538		
15436.1248.28.1	US	REACH EXTENSION BY USING EXTERNAL BRAGG GRATING FOR SPECTRAL FILTERING	Yasuhiro Matsui, Parviz Tayebati and Kevin McCallion	03/30/05	11/093,461		
15436.1248.29	US	TECHNICAL INNOVATION	Yasuhiro Matsui and Xueyan Zheng	04/22/04	60/564,366		
15436.1248.29.1	US	TECHNICAL INNOVATION	Yasuhiro Matsui and Xueyan Zheng	04/20/05	60/673,132		
15436.1248.29.2	US	TECHNICAL INNOVATION	Yasuhiro Matsui and Xueyan Zheng	04/12/06	60/791,272		
15436.1248.29.3	US	TECHNICAL INNOVATION	Yasuhiro Matsui and Xueyan Zheng	04/02/07	60/921,402		
15436.1248.30	US	METHOD OF TRANSMISSION USING PARTIAL FM AND AM MODULATION	Daniel Mahgerefteh and Yasuhiro Matsui	04/28/04	60/566,060		
15436.1284.31	US	THERMAL CHIRP COMPENSATION SYSTEMS FOR A CHIRP MANAGED DIRECTLY MODULATED (CMDM) LASER DATA LINK	Bart Johnson, Daniel Mahgerefteh, Kevin McCallion, Zhencan (Frank) Fan and Parviz Tayebati	04/30/04	60/567,043		
15436.1248.31.1	US	THERMAL CHIRP COMPENSATION SYSTEMS FOR A CHIRP MANAGED DIRECTLY MODULATED LASER (CML) DATA LINK	Bart Johnson, Daniel Mahgerefteh, Kevin McCallion, Zhencan (Frank) Fan, David Piede and Parviz Tayebati	05/02/05	11/120,089		
15436.1248.32	US	ADIABATIC FREQUENCY MODULATION (AFM)	Daniel Mahgerefteh and Yasuhiro Matsui	05/03/04	60/567,737		
15436.1248.33	US	FLAT CHIRP INDUCED BY AN OPTICAL FILTER EDGE	Daniel Mahgerefteh, Yasuhiro Matsui and Parviz Tayebati	05/10/04	60/569,769		
15436.1248.34	US	METHOD OF TRANSMISSION USING PARTIAL FM TO AM MODULATION	Daniel Mahgerefteh, Yasuhiro Matsui and Parviz Tayebati	05/10/04	60/569,768		

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WN Docket No		Title	Inventors	Filing Date	Serial No.	Patent Date	Patent No.
15436.1248.35	US	PHASE CORRELATED AMPLITUDE MODULATION	Daniel Mahgerefteh and Parviz Tayebati	06/18/04	60/581,076		
15436.1248.35.1	US	PHASE CORRELATED QUADRATURE AMPLITUDE MODULATION	Daniel Mahgerefteh, Xueyan Zheng and Parviz Tayebati	06/20/05	11/157,055		
15436.1248.36	US	IMPLEMENTATION OF EXTERNAL CAVITY LASER MODULE IN TOSA FORMAT FOR XFP TRANSCEIVER DEPLOYMENT	Zhencan (Frank) Fan, Kevin McCallion and Parviz Tayebati	08/26/04	60/604,750		
15436.1248.37	US	PHASE CORRELATED QUADRATURE AMPLITUDE MODULATION	Daniel Mahgerefteh, Xueyan Zheng and Parviz Tayebati	10/04/04	60/615,834		
15436.1248.38	US	ERROR-FREE 250-KM TRANSMISSION IN STANDARD FIBER USING COMPACT 10GB/S CHIRP-MANAGED DIRECTLY-MODULATED LASERS (CMLTM) AT 1550NM	Daniel Mahgerefteh, Yasuhiro Matsui, Bart Johnson, Duncan Walker, Xueyan Zheng, Kevin McCallion and Parviz Tayebati	10/13/04	60/618,467		
15436.1248.39	US	SPECTRAL RESPONSE MODIFICATION VIA SPATIAL FILTERING WITH OPTICAL FIBER	Kevin McCallion, Daniel Mahgerefteh, Michael Deutsch and Parviz Tayebati	10/25/04	60/621,755		
15436.1248.39.1	US	SPECTRAL RESPONSE MODIFICATION VIA SPATIAL FILTERING WITH OPTICAL FIBER	Kevin McCallion, Daniel Mahgerefteh, Michael Deutsch and Parviz Tayebati	10/24/05	60/729,546		
15436.1248.39.2	US	SPECTRAL RESPONSE MODIFICATION VIA SPATIAL FILTERING WITH OPTICAL FIBER	Kevin McCallion, Daniel Mahgerefteh, Michael Deutsch and Parviz Tayebati	10/24/06	60/853,867		
15436.1248.39.2.1	US	SPECTRAL RESPONSE MODIFICATION VIA SPATIAL FILTERING WITH OPTICAL FIBER	Kevin McCallion, Daniel Mahgerefteh, Michael Deutsch and Parviz Tayebati	10/24/07	11/977,206		
15436.1248.40	US	OPTICAL SYSTEM COMPRISING AN FM SOURCE AND A SPECTRAL RESHAPING ELEMENT	Yasuhiro Matsui, Daniel Mahgerefteh, Duncan Walker, Bart Johnson, Parviz Tayebati and Xueyan Zheng	11/19/04	60/629,741		
15436.1248.41	US	INTEGRAL PHASE RULE FOR OPTIMUM OPERATION OF AN ADIABATICALLY CHIRPED AMPLITUDE MODULATION SIGNAL	Daniel Mahgerefteh, Parviz Tayebati, Xueyan Zheng and Yasuhiro Matsui	01/31/05	60/648,593		
15436.1248.42	US	OPTOELECTRONIC PACKAGING OF CML TRANSMITTER MODULES	Kevin McCallion, Michael Deutsch and Parviz Tayebati	02/10/05	60/651,947		
15436.1248.43	US	OPTOELECTRONIC PACKAGING OF CML TRANSMITTER MODULES	Kevin McCallion, Michael Deutsch and Parviz Tayebati	02/07/06	60/771,125		
15436.1248.43.1	US	OPTOELECTRONIC PACKAGING OF CML TRANSMITTER MODULES	Kevin McCallion, Michael Deutsch and Parviz Tayebati	02/02/07	60/899,229		

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WN Docket No		Title	Inventors	Filing Date	Serial No.	Patent Date	Patent No.
15436.1248.44		ERROR-FREE 250-KM TRANSMISSION IN STANDARD FIBER USING COMPACT 10GB/S CHIRP-MANAGED DIRECTLY MODULATED LASERS (CMLTM) AT 1550NM	Daniel Mahgerefteh, Yasuhiro Matsui, Charlie Liao, Bart Johnson, Duncan Walker, Xueyan Zheng, Zhencan Frank Fan, Kevin McCallio and Parviz Tayebati	02/11/05	60/652,089		
15436.1248.45		COMPACT OPTICAL RECEIVER SINGLE PHOTON DETECTION APPLICATIONS	Kevin McCallion, Jianying Zhou, Michael Deutsch, Frank Fan, Daniel Mahgerefteh and Charlie Liao	02/17/05	60/653,762		
15436.1248.46		ULTRA LOW RELATIVE INTENSITY NOISE LASER MODULE	Daniel Mahgerefteh, Yasuhiro Matsui and Parviz Tayebati	05/05/05	60/678,014		
15436.1248.46.1		OPTICAL SOURCE WITH ULTRA-LOW RELATIVE INTENSITY NOISE (RIN)	Daniel Mahgerefteh, Yasuhiro Matsui and Parviz Tayebati	05/05/06	11/418,707		
15436.1248.47		METHOD AND APPARATUS FOR TRANSMITTING A SIGNAL USING CML AND OSR BEFORE OPTICAL RECEIVER	Xueyan Zheng, Yasuhiro Matsui, Daniel Mahgerefteh and Parviz Tayebati	06/06/05	60/687,745		
15436.1248.47.1		METHOD AND APPARATUS FOR TRANSMITTING A SIGNAL USING A CHIRP MANAGED LASER (CML) AND AN OPTICAL SPECTRUM RESHAPER (OSR) BEFORE AN OPTICAL RECEIVER	Xueyan Zheng, Yasuhiro Matsui, Daniel Mahgerefteh and Parviz Tayebati	06/06/06	11/447,662		
15436.1248.48		SELF-GATED FIBER MOPA WITH SINGLE STAGE GAIN UP TO 40DB	Min Jiang	07/26/05	60/702,493		
15436.1248.49		METHOD AND APPARATUS FOR REDUCTION OF FIBER NONLINEARITY IN A TRANSMISSION SYSTEM	Parviz Tayebati and Daniel Mahgerefteh	08/16/05	60/708,455		
15436.1248.49.1		METHOD AND APPARATUS FOR REDUCTION OF FIBER NONLINEARITY IN A TRANSMISSION SYSTEM	Parviz Tayebati and Daniel Mahgerefteh	08/16/06	60/838,026		
15436.1248.49.2		METHOD AND APPARATUS FOR REDUCTION OF FIBER NONLINEARITY IN A TRANSMISSION SYSTEM	Parviz Tayebati and Daniel Mahgerefteh	08/07/07	60/963,707		
15436.1248.50		CHIRP-MANAGED DIRECTLY MODULATED LASER (CMLTM)	Yasuhiro Matsui, Daniel Mahgerefteh, Xueyan Zheng, Charlie Liao, Zhencan Frank Fan, Kevin McCallion and Parviz Tayebati	09/29/05	60/721,874		
15436.1248.51		WIDELY TUNABLE DISPERSION TOLERANT TRANSMITTER	Kevin McCallion, Yasuhiro Matsui, Jianying Zhou, Michael Deutsch and Parviz Tayebati	12/08/05	60/748,466		

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15436.1248.51.1		WIDELY TUNABLE, DISPERSION TOLERANT TRANSMITTER	Kevin McCallion, Yasuhiro Matsui, Jianying Zhou, Michael Deutsch, Parviz Tayebati and Daniel Mahgerefteh	12/08/06	11/635,861		
15436.1248.52		CHIRP MANAGED LASERS FOR LONG REACH TRANSMISSION	Yasuhiro Matsui, Daniel Mahgerefteh and Kevin McCallion	12/28/05	60/754,578		
15436.1248.52.1		CHIRP MANAGED LASERS FOR LONG REACH TRANSMISSION	Yasuhiro Matsui, Daniel Mahgerefteh and Kevin McCallion	12/22/06	60/876,862		
15436.1248.53		WIDELY TUNABLE CHIRP MANAGED LASERS	Kevin McCallion and Yasuhiro Matsui	12/28/05	60/754,244		
15436.1248.53.1		WIDELY TUNABLE CHIRP MANAGED LASERS	Kevin McCallion and Yasuhiro Matsui	12/22/06	60/876,864		
15436.1248.54		WIDELY TUNABLE CHIRP MANAGED LASERS	Kevin McCallion and Yasuhiro Matsui	01/26/06	60/762,270		
15436.1248.54.1		WIDELY TUNABLE CHIRP MANAGED LASERS	Kevin McCallion and Yasuhiro Matsui	01/09/07	60/879,430		
15436.1248.55		DOUBLE-PASS FIBER MOPA WITH DYNAMIC GAIN CONTROL	Mindy Jiang	01/31/06	60/763,837		
15436.1248.56		TUNABLE, RESONANCE ENHANCED TEC COOLED QUANTUM DOT INGaAs/GaAs PHOTO DETECTOR	Daniel Mahgerefteh, Yasuhiro Matsui and Kevin McCallion	01/31/06	60/763,836		
15436.1248.57		INTEGRAL PHASE RULE FOR OPTIMUM OPERATION OF AN ADIABATICALLY CHIRPED AMPLITUDE MODULATION SIGNAL	Daniel Mahgerefteh, Parviz Tayebati, Xueyan Zheng and Yasuhiro Matsui	01/31/06	60/763,834		
15436.1248.57.1		INTEGRAL PHASE RULE FOR OPTIMUM OPERATION OF AN ADIABATICALLY CHIRPED AMPLITUDE MODULATION SIGNAL	Daniel Mahgerefteh, Parviz Tayebati, Xueyan Zheng and Yasuhiro Matsui	12/28/06	60/877,425		
15436.1248.58		TUNABLE SAMPLED-GRATING DBR LASER	Yasuhiro Matsui, Kevin McCallion and Parviz Tayebati	02/17/06	60/774,914		
15436.1248.58.1		TUNABLE SAMPLED-GRATING DBR LASER	Yasuhiro Matsui, Kevin McCallion and Parviz Tayebati	02/07/07	60/900,049		
15436.1248.59		TUNABLE LASER	Parviz Tayebati, Kevin McCallion and Yasuhiro Matsui	02/22/06	60/775,831		
15436.1248.59.1		TUNABLE LASER	Parviz Tayebati, Kevin McCallion and Yasuhiro Matsui	02/08/07	60/900,293		
15436.1248.60	US	WDM PON BASED ON CML	Yasuhiro Matsui, Parviz Tayebati and Kevin McCallion	02/22/06	60/775,830		
15436.1248.60.1	US	WDM PON BASED ON CML	Yasuhiro Matsui, Parviz Tayebati and Kevin McCallion	02/08/07	60/900,383		

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15436.1248.61	US	OPTICAL FM SOURCE BASED ON INTRA-CAVITY PHASE AND AMPLITUDE MODULATION IN LASERS	Yasuhiro Matsui, Kevin McCallion, Daniel Mahgerefteh, Xueyan Zheng and Parviz Tayebati	03/27/06	60/786,168		
15436.1248.61.1	US	OPTICAL FM SOURCE BASED ON INTRA-CAVITY PHASE AND AMPLITUDE MODULATION IN LASERS	Yasuhiro Matsui, Kevin McCallion, Daniel Mahgerefteh, Xueyan Zheng and Parviz Tayebati	03/12/07	60/906,333		
15436.1248.62	US	HUNT FOR THE BEST PULSE SHAPE	Yasuhiro Matsui	04/06/06	60/789,859		
15436.1248.62.1	US	IMPROVED CHIRP MANAGED LASER (CML) TRANSMITTER	Yasuhiro Matsui and Daniel Mahgerefteh	04/06/07	11/784,411		
15436.1248.63	US	VERSATILE COMPACT TRANSMITTER FOR GENERATION OF ADVANCED MODULATION FORMATS	Daniel Mahgerefteh, Xueyan Zheng, Yasuhiro Matsui and Parviz Tayebati	04/06/06	60/789,863		
15436.1248.63.1	US	VERSATILE COMPACT TRANSMITTER FOR GENERATION OF ADVANCED MODULATION FORMATS	Daniel Mahgerefteh, Xueyan Zheng, Yasuhiro Matsui and Parviz Tayebati	04/06/07	11/784,395		
15436.1248.63a	US	VERSATILE COMPACT TRANSMITTER FOR GENERATION OF ADVANCED MODULATION FORMATS	Field in the name of Azna LLC	04/06/07	PCT/US2007/008729		
15436.1248.64	US	OPTICAL FM SOURCE BASED ON INTRA-CAVITY PHASE AND AMPLITUDE MODULATION IN LASERS	Yasuhiro Matsui and Parviz Tayebati	04/13/06	60/791,823		
15436.1248.64.1	US	OPTICAL FM SOURCE BASED ON INTRA-CAVITY PHASE AND AMPLITUDE MODULATION IN LASERS	Yasuhiro Matsui, Parviz Tayebati and Daniel Mahgerefteh	04/13/07	11/787,163		
15436.1248.65	US	TUNABLE LASER	Parviz Tayebati, Kevin McCallion and Yasuhiro Matsui	04/13/06	60/791,735		
15436.1248.65.1	US	TUNABLE LASER	Parviz Tayebati, Kevin McCallion and Yasuhiro Matsui	04/13/07	60/923,370		
15436.1248.66	US	OPTICAL FM SOURCE TUNABLE TRANSMITTER FOR OPTICAL COMMUNICATION SYSTEMS	Yasuhiro Matsui, Kevin McCallion and Parviz Tayebati	05/04/06	60/797,513		
15436.1248.66.1	US	OPTICAL FM SOURCE TUNABLE TRANSMITTER FOR OPTICAL COMMUNICATION SYSTEMS	Yasuhiro Matsui, Kevin McCallion and Parviz Tayebati	05/04/07	60/927,727		
15436.1248.67	US	TUNABLE LASER	Parviz Tayebati, Kevin McCallion and Yasuhiro Matsui	05/12/06	60/799,887		

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15436.1248.67.1	US	TUNABLE LASER	Parviz Tayebati, Kevin McCallion and Yasuhiro Matsui	05/14/07	60/930,078		
15436.1248.68	US	SEMICONDUCTOR OPTICAL AMPLIFIER BASED OPTICAL TRANSMISSION	Yasuhiro Matsui, Daniel Magherefteh, Xueyan Zheng, Kevin McCallion and Parviz Tayebati	08/18/06	60/838,548		
15436.1248.68.1	US	OPTICAL TRANSMISSION USING SEMICONDUCTOR OPTICAL AMPLIFIER (SOA)	Yasuhiro Matsui, Daniel Magherefteh, Xueyan Zheng, Kevin McCallion and Parviz Tayebati	08/20/07	11/894,509		
15436.1248.68a	PCT	OPTICAL TRANSMISSION USING SEMICONDUCTOR OPTICAL AMPLIFIER (SOA)	Yasuhiro Matsui, Daniel Magherefteh, Xueyan Zheng, Kevin McCallion and Parviz Tayebati	08/20/07	PCT/US2007/018427		
15436.1248.69	US	CHIRP MANAGED ELECTRO-ABSORPTION MODULATED LASER	Daniel Mahgerefteh, Yasuhiro Matsui, Xueyan Zheng, Bart Johnson, Duncan Walker and Parviz Tayebati	08/21/06	60/838,985		
15436.1248.69.1	US	CHIRP-MANAGED, ELECTROABSORPTION-MODULATED LASER	Daniel Mahgerefteh, Yasuhiro Matsui, Xueyan Zheng, Bart Johnson, Duncan Walker and Parviz Tayebati	08/21/07	11/894,477		
15436.1248.69a	PCT	CHIRP-MANAGED, ELECTROABSORPTION-MODULATED LASER	Daniel Mahgerefteh, Yasuhiro Matsui, Xueyan Zheng, Bart Johnson, Duncan Walker and Parviz Tayebati	08/21/07	PCT/US2007/018448		
15436.1248.70	US	TUNABLE SAMPLED-GRATING DBR LASER	Yasuhiro Matsui, Kevin McCallion and Parviz Tayebati	08/31/06	60/841,421		
15436.1248.70.1	US	TUNABLE SAMPLED-GRATING DBR LASER	Yasuhiro Matsui, Kevin McCallion and Parviz Tayebati	08/30/07	60/966906		
15436.1248.71	US	LOSS MODULATION	Yasuhiro Matsui and Parviz Tayebati	08/31/06	60/841,594		

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15436.1248.72	US	METHOD AND APPARATUS FOR GENERATING OPTICAL SIGNALS WITH SUBSTANTIALLY INCREASED DISPERSION TOLERANCE BY MEANS OF A CHIRP MANAGED LASER TRANSMITTER	Fred L. Heismann, Daniel Mahgerefteh and Parviz Tayebati	01/22/07	60/881,637		
15436.1248.73	US	METHODS AND APPARATUS OF SLOW CHIRP COMPENSATION FOR ENHANCED SIGNAL BANDWIDTH AND TRANSMISSION PERFORMANCES IN DIRECTLY MODULATED LASERS	Jianying Zhou, Xueyan Zheng, Kevin McCallion, Daniel Mahgerefteh, Hongmin Chen, Guoxi Sun and Parviz Tayebati	02/08/07	60,900,386		
15436.1248.74	US	WIDELY TUNABLE CHIRP MANAGED LASER (CML)	Daniel Mahgerefteh	03/15/07	60/918,240		
15436.1248.75	US	COMPACT LOW COST 100 GBPS TRANSCEIVER FOR OPTICAL WIDE AREA NETWORKS	Daniel Mahgerefteh, Kevin McCallion, The' Linh Nguyen, David Allouche	05/23/07	60/931,359		
15436.1248.76	US	COMPACT HIGH POWER CHIRP MANAGED LASER	Anders Olsson, Daniel Mahgerefteh	08/03/07	60/963,360		
15436.1248.76.1	US	COMPACT HIGH POWER CHIRP MANAGED LASER	Anders Olsson, Daniel Mahgerefteh	08/03/07	60/963,347		
15436.1248.77	US	OPTICAL DISCRIMINATOR FOR CONVERTING FREQUENCY MODULATION TO AMPLITUDE MODULATION IN A FIBER OPTICS COMMUNICATION SYSTEM	Daniel Mahgerefteh and Parviz Tayebati	08/06/02	60/401,419		
15436.1248.78	US	FLAT DISPERSION FREQUENCY DISCRIMINATOR	Daniel Mahgerefteh and Parviz Tayebati	10/04/02	60/416,102		
15436.1248.78.1	US	FLAT DISPERSION FREQUENCY DISCRIMINATOR (FDFD)	Daniel Mahgerefteh, Duncan John William Walker and Roeland Nuyts	10/06/03	10/680,607	05/30/06	7,054,538
15436.1248.78.1.1	US	FLAT DISPERSION FREQUENCY DISCRIMINATOR (FDFD)	Daniel Mahgerefteh, Duncan John William Walker and Roeland Nuyts	05/26/06	11/441,944		
15436.1248.79	US	DISPERSION COMPENSATED LASER TRANSMITTER	Daniel Mahgerefteh and Parviz Tayebati	07/09/02	60/395,161		
15436.1248.79.1	US	POWER SOURCE FOR A DISPERSION COMPENSATION FIBER OPTIC SYSTEM	Daniel Mahgerefteh and Parviz Tayebati	11/06/02	10/289,944	11/08/05	6,963,685
15436.1248.79.1.1	US	POWER SOURCE FOR A DISPERSION COMPENSATION FIBER OPTIC SYSTEM	Daniel Mahgerefteh and Parviz Tayebati	02/08/05	11/052,945		

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15436.1248.79.1.2	US	POWER SOURCE FOR A DISPERSION COMPENSATION FIBER OPTIC SYSTEM	Daniel Mahgerefteh and Parviz Tayebati	11/08/05	11/272,100		
15436.1248.79.2	US	HIGH-SPEED TRANSMISSION SYSTEM COMPRISING A COUPLED MULTI-CAVITY OPTICAL DISCRIMINATOR	Daniel Mahgerefteh and Parviz Tayebati	12/03/02	10/308,522		
15436.1248.79.1a	PCT	POWER SOURCE FOR A DISPERSION COMPENSATION FIBER OPTIC SYSTEM	Filed in the name of Azna Corporation	11/05/03	PCT/US03/35473		
15436.1248.79.1a.1	Canada	POWER SOURCE FOR A DISPERSION COMPENSATION FIBER OPTIC SYSTEM	Filed in the name of Azna Corporation Now in the name of Azna LLC	11/05/03	2,510,352		
15436.1248.79.1a.2	China	POWER SOURCE FOR A DISPERSION COMPENSATION FIBER OPTIC SYSTEM	Filed in the name of Azna Corporation	11/05/03	200380108289.9		
15436.1248.79.1a.3	Japan	POWER SOURCE FOR A DISPERSION COMPENSATION FIBER OPTIC SYSTEM	Filed in the name of Azna Corporation Now in the name of Azna LLC	11/05/03	2004-551835		
15436.1248.80	US	WAVELENGTH DIVISION MULTIPLEXING SOURCE USING MULTIFUNCTIONAL FILTERS	Daniel Mahgerefteh and Parviz Tayebati	07/09/02	60/395,073		
15436.1248.80.1	US	WAVELENGTH DIVISION MULTIPLEXING SOURCE USING MULTIFUNCTIONAL FILTERS	Daniel Mahgerefteh and Parviz Tayebati	07/08/03	10/615,218	08/28/07	7263291
15436.1248.80.1.1	US	WAVELENGTH DIVISION MULTIPLEXING SOURCE USING MULTIFUNCTIONAL FILTERS	Daniel Mahgerefteh and Parviz Tayebati	08/28/07	11/897,012		