

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2750202

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DRAGON INTELLECTUAL PROPERTY, LLC	03/03/2014
RECEIVING PARTY DATA	
Name:	SYCAMORE IP HOLDINGS LLC
Street Address:	2700 PLUMAS STREET #120
City:	RENO
State/Country:	NEVADA
Postal Code:	89509
PROPERTY NUMBERS Total: 42	
Property Type	Number
Patent Number:	6430201
Patent Number:	6557101
Patent Number:	6400479
Patent Number:	6433903
Patent Number:	6580531
Patent Number:	6529315
Patent Number:	6396051
Patent Number:	6456409
Patent Number:	6445850
Patent Number:	6549312
Patent Number:	6456427
Patent Number:	6553175
Patent Number:	6614569
Patent Number:	6388805
Patent Number:	6496305

Patent Number:	6483637
Patent Number:	6587630
Patent Number:	6504631
Patent Number:	6433904
Patent Number:	6741761
Patent Number:	6735357
Patent Number:	6661963
Patent Number:	6681248
Patent Number:	6738262
Patent Number:	6754208
Patent Number:	6839871
Patent Number:	6839866
Patent Number:	6823470
Patent Number:	6826372
Patent Number:	6807001
Patent Number:	6847607
Patent Number:	6859468
Patent Number:	6862564
Patent Number:	6961525
Patent Number:	6912606
Patent Number:	6952405
Patent Number:	7012887
Patent Number:	7050561
Patent Number:	7826345
Patent Number:	8018854
Application Number:	61892916
Application Number:	61892918

**CORRESPONDENCE DATA**

Fax Number:  
 Email: kz@dragonipllc.com  
*Correspondence will be sent via US Mail when the email attempt is unsuccessful.*  
 Correspondent Name: KAI ZHU  
 Address Line 1: 2700 PLUMAS STREET #120  
 Address Line 4: RENO, NEVADA 89509

NAME OF SUBMITTER:	KAI ZHU
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/Kai Zhu/

Date:

03/03/2014

**Total Attachments: 15**

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**Patent Assignment**

This Patent Assignment (“**Patent Assignment**”) is made effective as of March 3, 2014 (the “**Assignment Effective Date**”) by and between Dragon Intellectual Property, LLC, a Delaware limited liability company having a principal place of business at 2700 Plumas Street #120, Reno, NV 89509 (“**Assignor**”), and Sycamore IP Holdings LLC, a Delaware limited liability company having a principal place of business at 2700 Plumas Street #120, Reno, NV 89509 (“**Assignee**”) (collectively referred to herein as the “**Parties**” and individually as “**Party**”).

**WHEREAS**, Assignor is the owner of the patents and patent applications listed on SCHEDULE 1 hereto (the “**Patents**”);

**NOW, THEREFORE**, for good, valuable, and sufficient consideration, the receipt of which is hereby acknowledged, Assignor and Assignee agree as follows:

1. Assignment. Assignor hereby sells, assigns, transfers, conveys, and delivers to Assignee all of Assignor’s rights, titles and interests in and to the Patents and all of Assignor’s rights to enforce the Patents and to sue for, collect and retain any and all damages for past, present and future infringement of any and all of the Patents; and all of Assignor’s rights to collect royalties or other payments on account of Assignee’s exploitation of any of the Patents.
2. Authorization. Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any applicable foreign agency to record this Patent Assignment and issue the Patents to Assignee and its successors, assigns and other legal representatives.
3. Entire Agreement. This Patent Assignment (including the Schedule hereto) constitutes the entire agreement by and between Assignor and Assignee and supersedes any prior agreements or representations by or between Assignor and Assignee, whether written or oral, with respect to the subject matter hereof.

**IN WITNESS WHEREOF**, the Parties have executed this Patent Assignment, made to be effective as of the Assignment Effective Date.

**Dragon Intellectual Property, LLC**

By:  \_\_\_\_\_

Print Name: Kai Zhu  
Title: Managing Member  
Date: March 3, 2014

**Sycamore IP Holdings LLC**

By:  \_\_\_\_\_

Print Name: Kai Zhu  
Title: Managing Member  
Date: March 3, 2014

**SCHEDULE 1**

<b>JURISDICTION</b>	<b>TITLE</b>	<b>APP. NO.</b>	<b>ISSUE DATE / PATENT NUMBER</b>
US	<i>Method and Apparatus for Transporting GE and FC Signals in WDM Systems</i>	09/468192	8/6/02 6,430,201
US	<i>Methods and Apparatus for Upgrading Programmable Control Logic Without Disturbing Network Traffic Flowing Through Functional Elements Controlled by the Control Logic</i>	09/470,487	4/29/03; 6,557,101 B1
US	<i>Optical Power Balance for Optical Amplified WDM Networks</i>	09/467607	6,400,479
US	<i>Optical Management Channel for WDM Systems</i>	09/475298	8/13/2002 6,433,903
US	<i>Method and Apparatus for in Circuit Biasing and Testing of a Modulated Laser and Optical Receiver in a WDM Optical Transceiver Board</i>	09/475836	6/17/03 6,580,531 B1
US	<i>Optical Amplifier Providing Dispersion Compensation</i>	09/844875	3/4/2003 6,529,315
US	<i>High Resolution Optical Performance Monitor for DWDM system</i>	09/589942	6,396,051
US	<i>Method and Apparatus for Extending Fiber Transmission Distance with Multiple Preemphasis in Optically Amplified DWDM Systems</i>	09/906195	6,456,409
US	<i>Method and Apparatus for Per Band Compensation with Gap Free Band Structures for High Speed DWDM Transmission</i>	09/829412	4/9/2001 6,445,850
US	<i>Method for Designing Optical Filter Cards</i>	09/852,428	4/15/2003 6,549,312 B1
US	<i>Systems and Methods for Reducing a Signal Spectrum Tilt</i>	09/754,832	9/24/2002 6,456,427 B1
US	<i>Variable Optical Attenuator</i>	09/765,059	4/22/2003 6,553,175 B2

JURISDICTION	TITLE	APP. NO.	ISSUE DATE / PATENT NUMBER
US	<i>System and Method for Narrow Channel Spaced Dense Wavelength Division Multiplexing/ Demultiplexing</i>	09/781,572	9/2/2003 6,614,569 B2
US	<i>Two Fiber Support with Single Optical Amplifier</i>	09/820,266	5/14/2002 6,388,805 B1
US	<i>Two Fiber Support with Single Optical Amplifier</i>	09/911,926	12/17/2002 6,496,305 B2
US	<i>System and Method for Per-Band Optical Amplification</i>	09/823,404	11/19/2002 6,483,637
US	<i>Optical Backplane Cartridge</i>	09/872,791	7/1/2003 6,587,630 B2
US	<i>Systems and Method for providing Control Channel for WDM Network</i>	09/251,814	1/7/2003 6,504,631 B1
US	<i>Methods and Apparatus for improving transmission performance over WDM Optical Communications Links using Forward Error Correction Coding</i>	09/361927	8/13/2002 6,433,904 B1
US	<i>Method for Achieving Improved Transmission Performance over Fiber using a Mach-Zehnder Modulator</i>	09/919,704	5/25/2004 6,741,761
US	<i>Monitoring and Control of All-Optical Cross Connect Fabrics using Multiple Laser Sources</i>	09/882,620	5/11/2004 6,735,357 B2
US	<i>System and Method for Calibrating and Operating a Semiconductor Variable Optical Attenuator</i>	09/919,704	12/9/2003 6,661,963 B2
US	<i>Method for Port Connectivity Discovery in Transparent Optical Network</i>	09/547944	1/20/04 6,681,248 B1
US	<i>Port Filler Baffle (PFB)</i>	09/862,218	5/18/04 6,738,262 B1
US	<i>Traffic Spreading to Reduce Blocking in a groomed CLOS communications Switch</i>	09/920434 60/277063	6/22/04 6,754,208
US	<i>Method for Transparent Multiplexing of Sonet/SDH Streams</i>	09/779,190	01/04/05 6,839,871

JURISDICTION	TITLE	APP. NO.	ISSUE DATE / PATENT NUMBER
US	<i>A System and Method for the Use of Reset Logic In High Availability Systems</i>	09/872,263	01/04/05 6,839,866 B2
US	<i>Method and Apparatus for Correcting Data</i>	09/780,527	11/23/2004 6,823,470
US	<i>Methods and Apparatus for Dynamic Threshold Setting for High speed Optical Receiver</i>	09/650,893	11/30/2004 6,826,372
US	<i>Auto-Shutdown for Distributed Raman Amplifiers in Optical Communications Systems</i>	10/118,982	10/19/2004 6,807,001
US	<i>Automatic Provisioning of Protection Circuits in a Communications Network</i>	09/586,181	01/25/2005 6,847,607
US	<i>Method and System for Mode Stabilization of VCSELs Using Increased Bias Current</i>	09/867,865	2/22/2005 6,859,468 B2
US	<i>Network Emulator</i>	09/696860	03/01/2005 6,862,564 B1
US	<i>Method for Channel Balance</i>	60/249675	11/1/2005 6,961,525 B2
US	<i>Generic Serial Bus Architecture</i>	09/877,499	6/28/2005 6,912,606
US	<i>Coding Scheme Using a Transition Indicator for Signal Transmission in Optical Communications Network</i>	09/794727	10/04/2005 6,952,405 B2
US	<i>Method for Restoring Diversely Routed Circuits</i>	09/851,555	6/27/2005 7,012,887 B2
US	<i>Restoration Scheme for Mesh based Switching Networks</i>	09/910,652	5/23/2006 7,050,561
US	<i>Network Span Protection Using Span Identifiers</i>	10/886,154	11/2/2010 7,826,345
US	<i>Facility and Equipment testing for Packet Networks</i>	11/418,173	9/13/2011 8,018,854
US	<i>Multiple-line Card Packet Switch Using Packet Tags to Identify Ports</i>	61/892,916	Application date 10/18/2013
US	<i>QoS Architecture for Multiple-line Card Packet Switch</i>	61/892,918	Application date 10/18/2013

## Patent Assignment

**THIS PATENT ASSIGNMENT** (this "**Patent Assignment**") is made effective as of February 28, 2014 (the "**Assignment Effective Date**") by and between Sycamore Networks, Inc., a Delaware corporation having a principal place of business at 220 Mill Road, Chelmsford, MA 02184 ("**Assignor**"), and Dragon Intellectual Property, LLC, a Delaware limited liability company having a principal place of business at 2700 Plumas Street #120, Reno, NV 89509 ("**Assignee**") (collectively referred to herein as the "**Parties**" and individually as "**Party**"). Capitalized terms used but not defined herein shall have the meanings assigned to them in the Agreement (as defined below).

**WHEREAS**, Assignor is the owner of the patents and patent applications listed on SCHEDULE 1 hereto (the "**Patents**");

**WHEREAS**, Assignee wishes to acquire all of Assignor's rights, titles and interests in and to the Patents, and Assignor is willing to assign such rights, titles and interests to Assignee pursuant to this Patent Assignment;

**WHEREAS**, Assignor and Assignee have entered into a Patent Sale Agreement dated as of the date hereof, governing the terms and conditions of sale of the Patents (the "**Agreement**");

**NOW, THEREFORE**, for good, valuable, and sufficient consideration as set forth in the Agreement, the receipt of which is hereby acknowledged, Assignor and Assignee agree as follows:

1. Assignment. Assignor hereby sells, assigns, transfers, conveys, and delivers to Assignee all of Assignor's rights, titles and interests in and to the Patents and all of Assignor's rights to enforce the Patents and to sue for, collect and retain any and all damages for past, present and future infringement of any and all of the Patents; and all of Assignor's rights to collect royalties or other payments on account of Assignee's exploitation of any of the Patents.
2. Authorization. Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any applicable foreign agency to record this Patent Assignment and issue the Patents to Assignee and its successors, assigns and other legal representatives.
3. Counterparts. This Patent Assignment may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument. This Patent Assignment may be executed by facsimile or .PDF signature.
4. Entire Agreement. With the exception of the Agreement, this Patent Assignment (including the schedules hereto) constitutes the entire agreement by and between Assignor and Assignee and supersedes any prior agreements or representations by or between Assignor and Assignee, whether written or oral, with respect to the subject matter hereof. In the event there is any inconsistency or conflict between the terms of the Agreement and this Patent Assignment, the terms of the Agreement shall control and govern. This Patent Assignment may not be modified or amended, except in writing signed by the Parties.




IN WITNESS WHEREOF, the Parties have executed this Patent Assignment, made to be effective as of the Assignment Effective Date.

SYCAMORE NETWORKS, INC.

DRAGON INTELLECTUAL  
PROPERTY, LLC

By: David A. Guerrero  
Print Name: David Guerrero  
Title: President and General Counsel  
Date: February 28, 2014

By:   
Print Name: Kai Zhu  
Title: Managing Member  
Date: February 28, 2014

SIGNATURE PAGE TO PATENT ASSIGNMENT

PATENT  
REEL: 032337 FRAME: 0729

## SCHEDULE 1

### Patents and Patent Applications

JURISDICTION	TITLE	APP. NO.	ISSUE DATE
US	<i>Method and Apparatus for Transporting GE and FC Signals in WDM Systems</i>	09/468192	8/6/02 6,430,201
US	<i>Methods and Apparatus for Upgrading Programmable Control Logic Without Disturbing Network Traffic Flowing Through Functional Elements Controlled by the Control Logic</i>	99; 09/470,487	4/29/03; 6,557,101 B1
US	<i>Optical Power Balance for Optical Amplified WDM Networks</i>	09/467607	6,400,479
US	<i>Optical Management Channel for WDM Systems</i>	09/475298	8/13/2002 6,433,903
US	<i>Method and Apparatus for in Circuit Biasing and Testing of a Modulated Laser and Optical Receiver in a WDM Optical Transceiver Board</i>	09/475836	6/17/03 6,580,531 B1
US	<i>Optical Amplifier Providing Dispersion Compensation</i>	09/844875	3/4/2003 6,529,315
US	<i>High Resolution Optical Performance Monitor for DWDM system</i>	09/589942	6,396,051
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US	<i>Method for Designing Optical Filter Cards</i>	09/852,428	4/15/2003 6,549,312 B1
US	<i>Systems and Methods for Reducing a Signal Spectrum Tilt</i>	09/754,832	9/24/2002 6,456,427 B1

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US	<i>Two Fiber Support with Single Optical Amplifier</i>	09/820,266	5/14/2002 6,388,805 B1
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US	<i>System and Method for Per-Band Optical Amplification</i>	09/823,404	11/19/2002 6,483,637
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US	<i>Method for Achieving Improved Transmission Performance over Fiber using a Much-Zehnder Modulator</i>	09/919,704	5/25/2004 6,741,761
US	<i>Monitoring and Control of All-Optical Cross Connect Fabrics using Multiple Laser Sources</i>	09/882,620	5/11/2004 6,735,357 B2
US	<i>System and Method for Calibrating and Operating a Semiconductor Variable Optical Attenuator</i>	09/919,704	12/9/2003 6,661,963 B2
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US	<i>Port Filler Baffle (PFB)</i>	09/862,218	5/18/04 6,738,262 B1

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US	<i>Method for Transparent Multiplexing of Sonet/SDH Streams</i>	09/779,190	01/04/05 6,839,871
US	<i>A System and Method for the Use of Reset Logic In High Availability Systems</i>	09/872,263	01/04/05 6,839,866 B2
US	<i>Method and Apparatus for Correcting Data</i>	09/780,527	11/23/2004 6,823,470
US	<i>Methods and Apparatus for Dynamic Threshold Setting for High speed Optical Receiver</i>	09/650,893	11/30/2004 6,826,372
US	<i>Auto-Shutdown for Distributed Raman Amplifiers in Optical Communications Systems</i>	10/118,982	10/19/2004 6,807,001
US	<i>Automatic Provisioning of Protection Circuits in a Communications Network</i>	09/586,181	01/25/2005 6,847,607
US	<i>Method and System for Mode Stabilization of VCSELs Using Increased Bias Current</i>	09/867,865	2/22/2005 6,859,468 B2
US	<i>Network Emulator</i>	09/696860	03/01/2005 6,862,564 B1
US	<i>Method for Channel Balance</i>	60/249675	11/1/2005 6,961,525 B2
US	<i>Generic Serial Bus Architecture</i>	09/877,499	6/28/2005 6,912,606
US	<i>Coding Scheme Using a Transition Indicator for Signal Transmission in Optical Communications Network</i>	09/794727	10/04/2005 6,952,405 B2
US	<i>Method for Restoring Diversely Routed Circuits</i>	09/851,555	6/27/2005 7,012,887 B2
US	<i>Restoration Scheme for Mesh based Switching Networks</i>	09/910,652	5/23/2006 7,050,561
US	<i>Network Span Protection Using Span Identifiers</i>	10/886,154	11/2/2010 7,826,345
US	<i>Facility and Equipment testing for Packet Networks</i>	11/418,173	9/13/2011 8,018,854

JURISDICTION	TITLE	APP. NO.	ISSUE DATE
US	<i>Multiple-line Card Packet Switch Using Packet Tags to Identify Ports</i>	61/892,916	Application date 10/18/2013
US	<i>QoS Architecture for Multiple-line Card Packet Switch</i>	61/892,918	Application date 10/18/2013



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 3, 2014

PTAS

KAI ZHU  
2700 PLUMAS STREET #120  
RENO, NV 89509

**502700450**

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 02/28/2014

REEL/FRAME: 032319/0029  
NUMBER OF PAGES: 16

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SYCAMORE NETWORKS, INC.

DOC DATE: 02/28/2014

ASSIGNEE:

DRAGON INTELLECTUAL PROPERTY, LLC  
2700 PLUMAS STREET #120  
RENO, NEVADA 89509

APPLICATION NUMBER: 09251814

FILING DATE: 02/17/1999

PATENT NUMBER: 6504631

ISSUE DATE: 01/07/2003

TITLE: SYSTEM AND METHOD PROVIDING CONTROL CHANNEL FOR  
WAVELENGTH-DIVISION MULTIPLEXED NETWORK

APPLICATION NUMBER: 09361927

FILING DATE: 07/27/1999

PATENT NUMBER: 6433904

ISSUE DATE: 08/13/2002

TITLE: METHOD AND APPARATUS FOR IMPROVING TRANSMISSION PERFORMANCE OVER  
WAVELENGTH DIVISION MULTIPLEXED OPTICAL COMMUNICATION LINKS  
USING FORWARD ERROR CORRECTION CODING

APPLICATION NUMBER: 09467607

FILING DATE: 12/20/1999

PATENT NUMBER: 6400479

ISSUE DATE: 06/04/2002

TITLE: OPTICAL POWER BALANCER FOR OPTICAL AMPLIFIED WDM NETWORKS

APPLICATION NUMBER: 09468192 FILING DATE: 12/21/1999  
PATENT NUMBER: 6430201 ISSUE DATE: 08/06/2002  
TITLE: METHOD AND APPARATUS FOR TRANSPORTING GIGABIT ETHERNET AND FIBER  
CHANNEL SIGNALS IN WAVELENGTH-DIVISION MULTIPLEXED SYSTEMS

APPLICATION NUMBER: 09470487 FILING DATE: 12/22/1999  
PATENT NUMBER: 6557101 ISSUE DATE: 04/29/2003  
TITLE: METHODS AND APPARATUS FOR UPGRADING PROGRAMMABLE CONTROL LOGIC  
WITHOUT DISTURBING NETWORK TRAFFIC FLOWING THROUGH FUNCTIONAL  
ELEMENTS CONTROLLED BY THE CONTROL LOGIC

APPLICATION NUMBER: 09475298 FILING DATE: 12/29/1999  
PATENT NUMBER: 6433903 ISSUE DATE: 08/13/2002  
TITLE: OPTICAL MANAGEMENT CHANNEL FOR WAVELENGTH DIVISION MULTIPLEXED  
SYSTEMS

APPLICATION NUMBER: 09475836 FILING DATE: 12/30/1999  
PATENT NUMBER: 6580531 ISSUE DATE: 06/17/2003  
TITLE: METHOD AND APPARATUS FOR IN CIRCUIT BIASING AND TESTING OF A  
MODULATED LASER AND OPTICAL RECEIVER IN A WAVELENGTH DIVISION  
MULTIPLEXING OPTICAL TRANSCEIVER BOARD

APPLICATION NUMBER: 09547944 FILING DATE: 04/12/2000  
PATENT NUMBER: 6681248 ISSUE DATE: 01/20/2004  
TITLE: METHOD FOR PORT CONNECTIVITY DISCOVERY IN TRANSPARENT HIGH  
BANDWIDTH NETWORKS

APPLICATION NUMBER: 09586181 FILING DATE: 06/01/2000  
PATENT NUMBER: 6847607 ISSUE DATE: 01/25/2005  
TITLE: AUTOMATIC PROVISIONING OF PROTECTION CIRCUITS IN A  
COMMUNICATIONS NETWORK

APPLICATION NUMBER: 09589942 FILING DATE: 06/07/2000  
PATENT NUMBER: 6396051 ISSUE DATE: 05/28/2002  
TITLE: HIGH RESOLUTION OPTICAL PERFORMANCE MONITOR FOR DWDM SYSTEM

APPLICATION NUMBER: 09650893 FILING DATE: 08/30/2000  
PATENT NUMBER: 6826372 ISSUE DATE: 11/30/2004  
TITLE: METHODS AND APPARATUS FOR DYNAMIC THRESHOLD SETTING FOR AN  
OPTICALLY AMPLIFIED RECEIVER

APPLICATION NUMBER: 09696860 FILING DATE: 10/26/2000  
PATENT NUMBER: 6862564 ISSUE DATE: 03/01/2005  
TITLE: NETWORK EMULATOR

APPLICATION NUMBER: 09754832 FILING DATE: 01/03/2001  
PATENT NUMBER: 6456427 ISSUE DATE: 09/24/2002  
TITLE: SYSTEMS AND METHODS FOR REDUCING A SIGNAL SPECTRUM TILT

APPLICATION NUMBER: 09765059 FILING DATE: 01/17/2001  
PATENT NUMBER: 6553175 ISSUE DATE: 04/22/2003  
TITLE: VARIABLE OPTICAL ATTENUATOR

APPLICATION NUMBER: 09779190 FILING DATE: 02/08/2001  
PATENT NUMBER: 6839871 ISSUE DATE: 01/04/2005  
TITLE: METHOD FOR TRANSPARENT MULTIPLEXING OF SONET/ SDH STREAMS

APPLICATION NUMBER: 09780527 FILING DATE: 02/09/2001  
PATENT NUMBER: 6823470 ISSUE DATE: 11/23/2004  
TITLE: METHOD AND APPARATUS FOR CORRECTING DATA

APPLICATION NUMBER: 09781572 FILING DATE: 02/12/2001  
PATENT NUMBER: 6614569 ISSUE DATE: 09/02/2003  
TITLE: SYSTEM AND METHOD FOR NARROW CHANNEL SPACED DENSE WAVELENGTH  
DIVISION MULTIPLEXING/DEMULTIPLEXING

APPLICATION NUMBER: 09794949 FILING DATE: 02/27/2001  
PATENT NUMBER: 6952405 ISSUE DATE: 10/04/2005  
TITLE: CODING SCHEME USING A TRANSITION INDICATOR FOR SIGNAL  
TRANSMISSION IN OPTICAL COMMUNICATIONS NETWORKS

APPLICATION NUMBER: 09820266 FILING DATE: 03/28/2001  
PATENT NUMBER: 6388805 ISSUE DATE: 05/14/2002  
TITLE: TWO FIBER SUPPORT WITH SINGLE OPTICAL AMPLIFIER

APPLICATION NUMBER: 09823404 FILING DATE: 03/30/2001  
PATENT NUMBER: 6483637 ISSUE DATE: 11/19/2002  
TITLE: SYSTEM AND METHOD FOR PER-BAND OPTICAL AMPLIFICATION

APPLICATION NUMBER: 09829412 FILING DATE: 04/09/2001  
PATENT NUMBER: 6445850 ISSUE DATE: 09/03/2002  
TITLE: METHOD AND APPARATUS FOR PER-BAND COMPENSATION WITH GAP-FREE  
BAND STRUCTURE FOR HIGH SPEED DWDM TRANSMISSION

APPLICATION NUMBER: 09844875 FILING DATE: 04/27/2001  
PATENT NUMBER: 6529315 ISSUE DATE: 03/04/2003  
TITLE: OPTICAL AMPLIFIER PROVIDING DISPERSION COMPENSATION

APPLICATION NUMBER: 09851555 FILING DATE: 05/08/2001  
PATENT NUMBER: 7012887 ISSUE DATE: 03/14/2006  
TITLE: METHOD FOR RESTORING DIVERSELY ROUTED CIRCUITS

APPLICATION NUMBER: 09852428 FILING DATE: 05/09/2001  
PATENT NUMBER: 6549312 ISSUE DATE: 04/15/2003  
TITLE: METHOD FOR DESIGNING OPTICAL FILTER CARDS

APPLICATION NUMBER: 09862218 FILING DATE: 05/21/2001  
PATENT NUMBER: 6738262 ISSUE DATE: 05/18/2004  
TITLE: PORT FILLER BAFFLE

APPLICATION NUMBER: 09867865 FILING DATE: 05/29/2001  
PATENT NUMBER: 6859468 ISSUE DATE: 02/22/2005  
TITLE: METHOD AND SYSTEM FOR MODE STABILIZATION OF VCSELS USING  
INCREASED BIAS CURRENT

APPLICATION NUMBER: 09872263 FILING DATE: 05/31/2001  
PATENT NUMBER: 6839866 ISSUE DATE: 01/04/2005  
TITLE: SYSTEM AND METHOD FOR THE USE OF RESET LOGIC IN HIGH  
AVAILABILITY SYSTEMS

APPLICATION NUMBER: 09872791 FILING DATE: 06/01/2001  
PATENT NUMBER: 6587630 ISSUE DATE: 07/01/2003  
TITLE: OPTICAL BACKPLANE CARTRIDGE

APPLICATION NUMBER: 09877499 FILING DATE: 06/08/2001  
PATENT NUMBER: 6912606 ISSUE DATE: 06/28/2005  
TITLE: GENERIC SERIAL BUS ARCHITECTURE



APPLICATION NUMBER: 09882620 FILING DATE: 06/15/2001  
PATENT NUMBER: 6735357 ISSUE DATE: 05/11/2004  
TITLE: MONITORING AND CONTROL OF ALL-OPTICAL CROSS CONNECT FABRICS  
USING MULTIPLE LASER SOURCES

APPLICATION NUMBER: 09896417 FILING DATE: 06/28/2001  
PATENT NUMBER: 6741761 ISSUE DATE: 05/25/2004  
TITLE: METHOD FOR ACHIEVING IMPROVED TRANSMISSION PERFORMANCE OVER  
FIBER USING A MACH-ZEHNDER MODULATOR

APPLICATION NUMBER: 09906195 FILING DATE: 07/16/2001  
PATENT NUMBER: 6456409 ISSUE DATE: 09/24/2002  
TITLE: METHOD AND APPARATUS FOR EXTENDING FIBER TRANSMISSION DISTANCE  
WITH MULTIPLE PRE-EMPHASES IN OPTICALLY AMPLIFIED DWDM SYSTEM

APPLICATION NUMBER: 09910652 FILING DATE: 07/19/2001  
PATENT NUMBER: 7050561 ISSUE DATE: 05/23/2006  
TITLE: RESTORATION SCHEME FOR MESH-BASED SWITCHING NETWORKS

APPLICATION NUMBER: 09911926 FILING DATE: 07/23/2001  
PATENT NUMBER: 6496305 ISSUE DATE: 12/17/2002  
TITLE: TWO FIBER SUPPORT WITH SINGLE OPTICAL AMPLIFIER

APPLICATION NUMBER: 09919704 FILING DATE: 07/31/2001  
PATENT NUMBER: 6661963 ISSUE DATE: 12/09/2003  
TITLE: SYSTEM AND METHOD FOR CALIBRATING AND OPERATING A SEMICONDUCTOR  
VARIABLE OPTICAL ATTENUATOR

APPLICATION NUMBER: 09920434 FILING DATE: 08/01/2001  
PATENT NUMBER: 6754208 ISSUE DATE: 06/22/2004  
TITLE: TRAFFIC SPREADING TO REDUCE BLOCKING IN A GROOMED CLOS  
COMMUNICATION SWITCH

APPLICATION NUMBER: 10004088 FILING DATE: 10/23/2001  
PATENT NUMBER: 6961525 ISSUE DATE: 11/01/2005  
TITLE: METHOD FOR CHANNEL BALANCE

APPLICATION NUMBER: 10118982 FILING DATE: 04/09/2002  
PATENT NUMBER: 6807001 ISSUE DATE: 10/19/2004  
TITLE: AUTO SHUTDOWN FOR DISTRIBUTED RAMAN AMPLIFIERS ON OPTICAL  
COMMUNICATION SYSTEMS

APPLICATION NUMBER: 10886154 FILING DATE: 07/07/2004  
PATENT NUMBER: 7826345 ISSUE DATE: 11/02/2010  
TITLE: NETWORK SPAN PROTECTION USING SPAN IDENTIFIERS

APPLICATION NUMBER: 11418173 FILING DATE: 05/03/2006  
PATENT NUMBER: 8018854 ISSUE DATE: 09/13/2011  
TITLE: FACILITY AND EQUIPMENT TESTING FOR PACKET NETWORKS

APPLICATION NUMBER: 61892916 FILING DATE: 10/18/2013  
PATENT NUMBER: ISSUE DATE:  
TITLE: MULTIPLE-LINE CARD PACKET SWITCH USING PACKET TAGS TO IDENTIFY  
PORTS

APPLICATION NUMBER: 61892918 FILING DATE: 10/18/2013  
PATENT NUMBER: ISSUE DATE:  
TITLE: QOS ARCHITECTURE FOR MULTIPLE-LINE CARD PACKET SWITCH

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