

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NORTEL NETWORKS LIMITED	03/17/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CIENA LUXEMBOURG S.A.R.L.
<b>Street Address:</b>	560A RUE DE NEUDORF
<b>Internal Address:</b>	L-2220
<b>City:</b>	GRAND-DUCHY OF LUXEMBOURG
<b>State/Country:</b>	LUXEMBOURG
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13124443
<b>CORRESPONDENCE DATA</b>	
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<b>Email:</b>	sharon.mattocks@blakes.com
<b>Correspondent Name:</b>	BLAKE, CASSELS & GRAYDON LLP
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<b>ATTORNEY DOCKET NUMBER:</b>	102831/00440
<b>NAME OF SUBMITTER:</b>	Kent Daniels

**Total Attachments: 24**

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## ASSIGNMENT OF PATENT RIGHTS

THIS PATENT ASSIGNMENT (this "Patent Assignment") is made and entered into as of March 19, 2010 ("Effective Date") by and between Nortel Networks Limited, a corporation incorporated under the laws of Canada having its executive offices at 5945 Airport Road, Suite 360, Mississauga, Ontario, L4V 1R9, Canada ("Assignor"), and Ciena Luxembourg S.a.r.l., a Société à responsabilité limitée organized under the laws of the Grand Duchy of Luxembourg having its registered office at 560A, rue de Neudorf, L-2220, Luxembourg, Grand-Duchy of Luxembourg ("Assignee").

**WHEREAS**, pursuant to that certain Amended and Restated Asset Sale Agreement dated November 24, 2009, as amended from time to time, by and between Nortel Networks Corporation, a corporation incorporated under the laws of Canada ("NNC"), Assignor, Nortel Networks Inc., a corporation incorporated under the laws of Delaware ("NNI" and, together with NNC and Assignor, the "Main Sellers"), the affiliates of the Main Sellers listed in Exhibit A of the Amended and Restated Asset Sale Agreement (the "Other Sellers" and, together with the Main Sellers, the "Sellers") and Ciena Corporation, a corporation incorporated under the laws of the State of Delaware ("Ciena") and certain of its affiliates (the "Asset Sale Agreement"), the Sellers agreed to assign to Assignee their entire right, title and interest in and to the patents and patent applications set forth on Schedule A attached hereto (the "Assigned Patents");

**WHEREAS**, pursuant to the Asset Sale Agreement, Ciena designated Assignee as a Designated Purchaser (as defined therein) with respect to, among other things, the Assigned Patents, permitting Assignee to purchase, be assigned and assume the Sellers' respective right, title and interest to Assigned Patents; and

**WHEREAS**, Assignor owns all right, title, and interest in and to the Assigned Patents, with the exception of United States patent application 10/027249; United States patent 6,144,486; United Kingdom patent 0 859 435; French patent 0 859 435; Italian patent 0 859 435; and German patent 69809609, each of which is co-owned by Assignor and another entity.

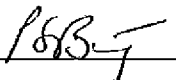

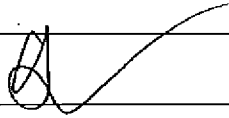

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby sell, assign, transfer and set over to Assignee, Assignor's entire right, title and interest in and to the Assigned Patents (and in the case of any patent applications included in the Assigned Patents, any patents issuing from such patent applications), for the United States and for all foreign countries, including any continuations, divisions, continuations-in-part, reissues, reexaminations, or extensions which may be filed by Assignee or its successors or assigns, or foreign equivalents thereof, and including the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Patent Assignment and sale had not been made, together with the right to sue and collect for past and future infringement or other unauthorized use thereof, and any and all corresponding rights that, now or hereafter, may be secured throughout the world and the physical patent prosecution files in Assignor's possession or under Assignor's control of any of the foregoing.

Assignor authorizes and requests the appropriate government authority to record Assignee as owner of the Assigned Patents, including any continuations, divisions, continuations-in-part, reissues, reexaminations or extensions thereof which may be filed by Assignee or its successors or assigns, and to issue any and all letters patent of the United States and other countries thereon to Assignee, as assignee of the entire right, title and interest in, to and under the same, for the sole use and enjoyment of Assignee, its successors, assigns or other legal representatives.

Assignor shall take all actions and execute and deliver such other documents that Assignee may reasonably request at Assignee's cost, to effect the terms of this Patent Assignment and to perfect Assignee's title in and to those Assigned Patents assigned to it hereunder.


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SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, Assignor has caused this Patent Assignment to be executed by its duly authorized representatives as of the Effective Date.

<b>ASSIGNOR:</b>	
<b>NORTEL NETWORKS LIMITED</b>	
By: 	Witnessed by:
Name: Paviter S. Binning	Name: 
Title: Executive Vice President, Chief Financial Officer and Chief Restructuring Officer	Title: YOLANDA LOPEZ-GOMEZ MANAGER, CORPORATE SECRETARIAL AND SENIOR SECURITIES LAW CLERK
Date: 17 MARCH 2010	
At: City of Mississauga, Ontario	
By: 	Witnessed by: 
Name: Anna Ventresca	Name: YOLANDA LOPEZ-GOMEZ
Title: General Counsel – Corporate and Corporate Secretary	Title: MANAGER, CORPORATE SECRETARIAL AND SENIOR SECURITIES LAW CLERK
Date: 17 March 2010	
At: City of Mississauga, Ontario	

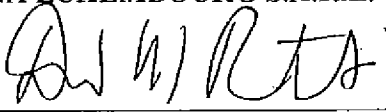
Province of Ontario  
 City of Mississauga

On this 17th day of March 2010, before me personally appeared PAVITER S. BINNING and ANNA VENTRESCA, both known to me, who being duly sworn, did depose and say that the foregoing Patent Assignment was made for the purposes and considerations so stated, and that they were authorized to act on behalf of Nortel Networks Limited in entering into such Patent Assignment.

  
 Notary Public: ROBERT KALL TIMBERG  
 My commission expires: \_\_\_\_\_  
 My commission is for life

**ACKNOWLEDGED BY:**

**CIENA LUXEMBOURG S.A.R.L.**

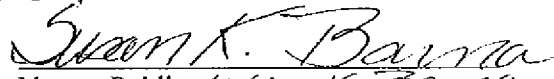
By: 

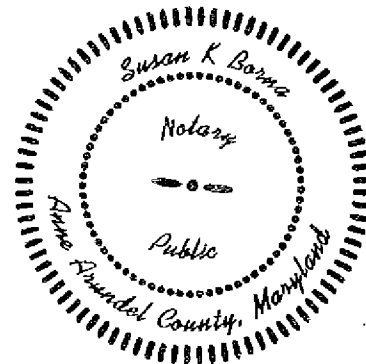
Name: David M. Rothenstein

Title: Type A Manager

State of Maryland )  
City of: Linthicum ) ss.

On this 18<sup>th</sup> day of March 2010, before me personally appeared David M. Rothenstein, known to me, who being duly sworn, did depose and say that the foregoing Patent Assignment was made for the purposes and considerations so stated, and that they were authorized to act on behalf of Ciena Luxembourg S.a.r.l. in acknowledging such Patent Assignment.

  
Notary Public: Susan K. Barma  
My commission expires: 9/23/17



**Schedule A**  
**Patents and Patent Applications**

*[See attached]*

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
ID9783	US	07484,188	5,046,807	Expired	1-Mar-89	22-Feb-90	10-Sep-91	FIBRE OPTIC TRANSMISSION SYSTEM
ID8832	US	07517,255	5,237,583	Granted	4-May-89	1-May-90	17-Aug-93	SEQUENCE SYNCHRONISATION
ID9788	US	07535,744	5,111,324	Granted	5-Jun-89	8-Jun-90	5-May-92	OPTICAL RECEIVERS
RO2512	US	07410,378	4,986,444	Expired	20-Sep-89	21-Sep-89	26-Feb-91	CLOCK RECOVERY CIRCUIT
RO2320	US	07426,659	4,950,887	Expired	26-Oct-89	26-Oct-89	21-Aug-90	OPTICAL FIBER INTERFACE
RO2340	US	07430,547	5,001,707	Expired	2-Nov-89	2-Nov-89	19-Mar-91	METHOD OF PROVIDING RESERVED BANDWIDTH IN A DUAL BUS SYSTEM
RO2267	US	07440,157	4,965,884	Expired	22-Nov-89	22-Nov-89	23-Oct-90	DATA ALIGNMENT METHOD AND APPARATUS
RO2493	US	07447,313	4,972,160	Expired	7-Dec-89	7-Dec-89	20-Nov-90	PHASE LOCK LOOP CIRCUIT WITH IMPROVED OUTPUT SIGNAL JITTER PERFORMANCE
TM0028	US	07450,790	5,005,810	Expired	14-Dec-89	14-Dec-89	9-Apr-91	SECOND ORDER ACTIVE FILTERS
RO2507	US	07524,398	5,063,579	Granted	11-May-90	11-May-90	5-Nov-91	SCALAR FOR SYNCHRONOUS DIGITAL CLOCK
RO2587	US	07531,446	5,103,464	Granted	31-May-90	31-May-90	7-Apr-92	METHOD AND APPARATUS FOR TIMING RECOVERY IN DIGITAL DATA COMMUNICATIONS
ID9913	US	071715,509	5,170,275	Granted	14-Jun-90	14-Jun-91	8-Dec-92	OPTICAL MIXING FOR HETERODYNE DETECTION
ID9878	US	071715,340	5,260,819	Granted	16-Jun-90	14-Jun-91	9-Nov-93	TELEMETRY
RO2596	US	07593,208	5,130,988	Granted	17-Sep-90	17-Sep-90	14-Jul-92	SOFTWARE VERIFICATION BY FAULT INSERTION
ID9876	US	071969,185	5,321,754	Granted	19-Sep-90	2-Feb-93	14-Jun-84	SEQUENCE SYNCHRONISATION
RO2473	US	07620,884	5,148,113	Granted	29-Nov-90	29-Nov-90	15-Sep-92	CLOCK PHASE ALIGNMENT
RO2489	US	08008,235	5,255,111	Granted	20-Dec-90	21-Jan-93	19-Oct-93	BIDIRECTIONAL OPTICAL TRANSMISSION
ID8991	US	08064,156	5,347,237	Granted	20-Dec-90	15-Aug-93	13-Sep-94	CRYSTAL OSCILLATOR
ID9871	US	07805,873	5,221,130	Granted	22-Dec-90	9-Dec-91	11-Oct-94	DIGITAL SIGNAL RETIMING AND CLOCK EXTRACTION APPARATUS
ID0019	US	07928,868	5,355,243	Granted	6-Sep-91	11-Aug-92	11-Oct-94	DIRECT DETECTION OF OPTICAL PSK SIGNALS
RO2686	US	07927,307	5,187,713	Granted	30-Jan-92	30-Jan-92	16-Feb-93	NONLINEAR DEVICE CONTROL METHODS AND APPARATUS
ID0061	US	08365,572	5,434,702	Granted	4-Mar-92	22-Dec-94	18-Jun-95	OPTICAL REGENERATORS
RO2685	US	07865,533	5,365,510	Granted	9-Apr-92	9-Apr-92	15-Nov-94	COMMUNICATIONS SYSTEM WITH A SINGLE PROTECTION LOOP
RO2700	US	08019,583	5,334,951	Granted	18-Feb-93	18-Feb-93	2-Aug-94	PHASE LOCK LOOPS AND METHODS FOR THEIR OPERATION
ID0172	US	08249,501	5,473,395	Granted	21-May-93	16-May-94	26-Dec-95	SERIAL BUS SYSTEM
RO2750	US	08080,542	5,376,759	Granted	24-Jun-93	24-Jun-93	27-Dec-94	A MULTIPLE LAYER PRINTED CIRCUIT BOARD
RO2750	US	08186,945	5,430,933	Granted	24-Jun-93	27-Jan-94	17-Jul-95	A MULTIPLE LAYER PRINTED CIRCUIT BOARD
ID0204	US	08285,263	5,463,487	Granted	31-Jul-93	29-Jul-94	31-Oct-95	OPTICAL TRANSMISSION SYSTEM
ID0210	US	08265,689	5,410,624	Granted	1-Sep-93	24-Jun-94	25-Apr-95	WDM COMMUNICATION SYSTEMS
ID0225	US	08591,543	5,760,935	Granted	14-Sep-93	26-Jan-96	2-Jun-98	OPTICAL COMMUNICATIONS NETWORK
RO2838	US	08133,396	5,467,251	Granted	8-Oct-93	8-Oct-93	14-Nov-95	PCBS AND HEAT SINK STRUCTURES
RO2856	US	08498,649	5,861,902	Granted	9-Oct-93	29-Jun-95	2-Sep-97	PCBS AND HEAT SINK STRUCTURES
ID0234	US	08932,728	5,781,596	Granted	10-Nov-93	17-Sep-97	14-Jul-98	POINTER JUSTIFICATION EVENT LEAK CONTROL
RO2783	US	08154,084	5,402,320	Granted	18-Nov-93	18-Nov-93	28-Mar-95	SHELL INTERFACE KEYING SYSTEM
ID0266	US	08737,817	5,954,477	Granted	21-May-94	19-May-95	13-Apr-99	COMMUNICATIONS SYSTEM
RO2880	US	08261,350	5,510,929	Granted	16-Jun-94	16-Jun-94	30-Apr-96	METHOD AND APPARATUS FOR MONITORING PERFORMANCE OF OPTICAL TRANSMISSION SYSTEMS
ID0296	US	08793,629	6,075,828	Granted	17-Aug-94	15-Aug-95	13-Jun-00	FAULT LOCATION IN OPTICAL COMMUNICATION SYSTEMS
RO2938	US	08322,140	5,548,671	Granted	13-Oct-94	13-Oct-94	20-Aug-96	PROGRAMMABLE DIFFERENTIAL WAVELENGTH DISCRIMINATOR
ID0357	US	08634,424	5,784,372	Granted	18-Apr-95	18-Apr-95	21-Jun-98	SWITCHING ARRANGEMENT
ID0369	US	08634,423	5,875,188	Granted	18-Apr-95	18-Apr-96	23-Feb-99	TECHNIQUES TO REDUCE CROSSTALK IN MULTI-CHANNEL ICS
ID0380	US	08664,150	5,917,627	Granted	17-Jun-95	14-Jun-96	26-Jun-99	DEMULTIPLIXING TONE TRANS AND TRIB CHANNEL ID FOR TDM
RO2904	US	08513,280	5,579,328	Granted	10-Aug-95	10-Aug-95	29-Nov-96	DIGITAL CONTROL OF LASER DIODE POWER LEVELS
RO3023	US	08694,123	5,731,956	Granted	21-Aug-95	8-Aug-96	24-Mar-98	ELECTRONIC DEVICES FOR CONNECTION INTO BACKPLANES
RO2997	US	08519,010	5,671,259	Granted	24-Aug-95	24-Aug-95	23-Sep-97	CLOCK RECOVERY CIRCUIT
RR1110	US	08707,440	5,933,258	Granted	6-Sep-95	4-Sep-96	3-Aug-99	OPTICAL COMMUNICATION SYSTEM
ID0419	US	08952,677	6,222,843	Granted	29-Sep-95	25-Sep-96	24-Apr-01	PROVIDING SERVICES IN A TELECOMMUNICATIONS NETWORK
RO2871	US	08725,778	6,104,611	Granted	5-Oct-95	4-Oct-96	15-Aug-00	PACKAGING SYSTEM FOR THERMALLY CONTROLLING THE TEMPERATURE OF ELECTRONIC EQUIPMENT
RO3065	US	08568,724	5,566,162	Granted	7-Dec-95	7-Dec-95	15-Oct-96	METHOD OF SECTIONALIZING TROUBLE ON TELECOMMUNICATION NETWORK CONNECTIONS
MO0158	US	08568,911	5,852,637	Granted	7-Dec-95	7-Dec-95	22-Dec-98	SERIAL MULTI-GB/S DATA RECEIVER
RO3025	US	08922,095	5,822,094	Granted	18-Jan-96	5-Sep-97	13-Oct-98	SELF STIMULATION SIGNAL DETECTION IN AN OPTICAL TRANSMISSION SYSTEM
RO3025	US	08588,176	5,658,716	Granted	18-Jan-96	18-Jan-96	12-Jan-99	SELF STIMULATION SIGNAL DETECTION IN AN OPTICAL TRANSMISSION SYSTEM
RG-024	US	08595,583	5,719,508	Granted	1-Feb-96	1-Feb-96	17-Feb-99	LOSS OF LOCK DETECTOR FOR MASTER TIMING GENERATOR



Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
RO3100	US	08788300	6,064,501	Granted	23-Mar-96	24-Jan-97	16-May-00	METHOD OF DETERMINING OPTICAL AMPLIFIER FAILURES
TM0038	US	081628227	#EMPTY	Filed	4-Apr-96	4-Apr-96	#EMPTY	SOLDER CONNECTION TESTING BETWEEN ELECTRONIC COMPONENTS AND SUBSTRATES CARRYING THE COMPONENTS
RO3096	US	081650536	5,815,308	Granted	20-May-96	20-May-96	29-Sep-98	BIDIRECTIONAL OPTICAL AMPLIFIER
RO3134	US	081785806	5,774,242	Granted	28-May-96	15-Jan-97	30-Jun-98	EYE MASK FOR MEASUREMENT OF DISTORTION IN OPTICAL TRANSMISSION SYSTEMS
RO3072	US	081655400	5,757,683	Granted	29-May-96	30-May-96	28-May-98	DIGITAL RECEIVE FILTER FOR COMMUNICATIONS SYSTEMS
RO3077	US	081655399	5,917,635	Granted	30-May-96	30-May-96	29-Jun-99	OPTICAL REPEATERS FOR SINGLE-AND MULTIWAVELENGTH OPERATION WITH DISPERSION EQUALIZATION
RO3101	US	081650555	6,252,692	Granted	7-Jun-96	7-Jun-96	28-Jun-01	OPTICAL FIBER TRANSMISSION SYSTEMS
RO3079	US	081652571	6,005,695	Granted	13-Jun-96	13-Jun-96	21-Dec-99	OPTICAL TRANSMISSION SYSTEM
RO3147	US	081899818	6,280,969	Granted	20-Jun-96	24-Jul-97	11-Sep-01	MULTI-PORT RAM WITH SHADOW WRITE TEST ENHANCEMENT
RO3102	US	081659929	5,901,858	Granted	25-Jun-96	25-Jun-96	1-Sep-98	OPTICAL TRANSMISSION SYSTEMS USING OPTICAL AMPLIFIERS AND WAVELENGTH DIVISION MULTIPLEXING
RO3102	US	091110182	6,067,179	Granted	25-Jun-96	6-Jul-98	23-May-00	OPTICAL TRANSMISSION SYSTEMS USING OPTICAL AMPLIFIERS AND WAVELENGTH DIVISION MULTIPLEXING
RO3102	US	091110395	6,101,016	Granted	25-Jun-96	6-Jul-98	8-Aug-00	OPTICAL TRANSMISSION SYSTEMS USING OPTICAL AMPLIFIERS AND WAVELENGTH DIVISION MULTIPLEXING
ID0524	US	09214248	6,483,632	Granted	28-Jun-96	20-Sep-99	19-Nov-02	MULTISTAGE OPTICAL AMPLIFIER WITH GAIN FLATTENING
ID0524	US	10206625	6,894,829	Granted	28-Jun-96	30-Jun-02	17-May-05	OPTICAL AMPLIFIER MODULES
RO3106	US	081783869	6,256,282	Granted	11-Jul-96	18-Jan-97	3-Jul-01	SELF-HEALING LINE SWITCHED RING FOR ATM TRAFFIC
RO3106	US	091467243	6,886,791	Granted	11-Jul-96	20-Dec-99	3-May-05	SELF-HEALING LINE SWITCHED RING FOR ATM TRAFFIC
RO3097	US	081862450	5,999,258	Granted	17-Jul-96	28-Jun-97	7-Dec-98	OPTICAL INTERFERENCE MEASUREMENT METHOD AND SYSTEM
RO3088	US	081687302	5,787,089	Granted	25-Jul-96	25-Jul-96	28-Jul-98	DIGITAL SIGNAL BROADCASTING
ID0526	US	081901983	5,940,008	Granted	29-Jul-96	29-Jul-97	17-Aug-99	COMMUNICATION SWITCHING NETWORK
ID0520	US	081893337	6,140,920	Granted	6-Aug-96	16-Jul-97	31-Oct-00	OPTICAL TRANSMISSION SYSTEM ELEMENT TEST
ID0537	US	081715662	5,969,840	Granted	6-Sep-96	18-Sep-96	19-Oct-99	OPTICAL ELEMENT POWER CONTROL
RO3117	US	081728427	6,751,454	Granted	10-Oct-96	10-Oct-96	12-May-98	WAVELENGTH BYPASSED RING NETWORKS
ID0541	US	081892954	6,356,885	Granted	21-Oct-96	15-Jul-97	12-Mar-02	NETWORK MODEL FOR ALARM CORRELATION
ID0599	US	081892433	6,598,033	Granted	21-Oct-96	14-Jul-97	22-Jul-03	PROBLEM MODEL FOR ALARM CORRELATION
ID0640	US	081795739	6,031,847	Granted	23-Oct-96	29-Oct-96	29-Feb-00	STABLE POWER CONTROL FOR OPTICAL TRANSMISSION SYSTEMS
ID0540	US	091458209	6,266,945	Granted	23-Oct-96	9-Dec-98	31-Jul-01	STABLE POWER CONTROL FOR OPTICAL TRANSMISSION SYSTEMS
ID0527	US	081799366	5,922,299	Granted	29-Oct-96	29-Oct-96	19-Oct-98	TRAFFIC ROUTING AND PATH PROTECTION IN SDH CROSS-CONNECT
RO3137	US	081764086	6,112,015	Granted	6-Dec-96	6-Dec-96	29-Aug-00	NETWORK MANAGEMENT GRAPHICAL USER INTERFACE
ID0538	US	081769986	6,128,111	Granted	19-Dec-96	19-Dec-96	3-Oct-00	MONITORING OF NONLINEAR EFFECTS
ID0626	US	091629140	6,509,990	Granted	19-Dec-96	2-Jul-97	21-Jan-03	OPTICAL TIMING DETECTION
ID0626	US	081866994	6,282,007	Granted	19-Dec-96	2-Jul-97	28-Aug-01	OPTICAL TIMING DETECTION
RO2789	US	081789312	5,895,351	Granted	19-Dec-96	19-Dec-96	20-Apr-99	FORWARD ERROR CORRECTION ASSISTED RECEIVER OPTIMIZATION
ID0538	US	091637553	6,463,617	Granted	19-Dec-96	11-Aug-00	19-Nov-02	MONITORING OF NONLINEAR EFFECTS
ID0597	US	081795684	5,949,560	Granted	5-Feb-97	5-Feb-97	7-Sep-99	OPTICAL TRANSMISSION SYSTEM
ID0879	US	091016184	6,144,486	Granted/Co-p	17-Feb-97	30-Jan-98	7-Nov-00	PUMP WAVELENGTH TUNING OF OPTICAL AMPLIFIERS AND USE OF SAME IN WAVELENGTH DIVISION MULTIPLEXED SYSTEMS
ID00165	US	081821149	5,818,304	Granted	20-Mar-97	20-Mar-97	8-Oct-98	PHASE-LOCKED LOOP
RO3133	US	081827419	5,892,858	Granted	27-Mar-97	27-Mar-97	6-Apr-99	DUOBINARY CODING AND MODULATION TECHNIQUE FOR OPTICAL COMMUNICATIONS SYSTEMS
RO3337	US	081826496	6,198,749	Granted	3-Apr-97	3-Apr-97	6-Mar-01	SYSTEM FOR INVERSE MULTIPLEXING ANALOG CHANNELS
ID0728	US	091860347	6,600,749	Granted	11-Apr-97	18-Nov-99	25-Jul-03	PLANNING SYSTEM FOR BROADBAND MULTISERVICE CONNECTIONS
ID0617	US	081844199	5,793,231	Granted	18-Apr-97	18-Apr-97	11-Aug-98	CURRENT MEMORY CELL
ID0659	US	081847424	5,831,461	Granted	24-Apr-97	24-Apr-97	3-Nov-98	A METHOD AND APPARATUS FOR TRACKING CHARACTERISTICS OF A DATA STREAM AND A SYSTEM INCORPORATING THE SAME
RO3197	US	081847529	6,298,038	Granted	24-Apr-97	24-Apr-97	2-Oct-01	TRANSPARENT TRANSPORT
RO3580	US	081847526	5,841,760	Granted	24-Apr-97	24-Apr-97	24-Nov-98	TRANSPARENT MULTIPLEXER/MULTIPLIER Y
ID0623	US	081862706	5,860,837	Granted	9-Jun-97	15-Jul-97	9-Mar-99	EYE MEASUREMENT OF OPTICAL SIGNALS BY OPTICAL SAMPLING
RO3439	US	081878636	6,266,694	Granted	19-Jun-97	19-Jun-97	24-Jul-01	ARCHITECTURE FOR NETWORK MANAGER
ID0555	US	081878751	6,222,652	Granted	20-Jun-97	20-Jun-97	24-Apr-01	METHOD OF AND APPARATUS FOR DETECTING TRANSIENTS IN AN OPTICAL TRANSMISSION SYSTEM
RP2092	US	081886493	6,483,903	Granted	11-Jul-97	11-Jul-97	19-Nov-02	APPARATUS AND METHOD FOR RESTORING FIBER OPTIC COMMUNICATIONS NETWORK CONNECTIONS
RO3396	US	081895261	6,128,280	Granted	16-Jul-97	16-Jul-97	3-Oct-00	DYNAMIC CONNECTION BANDWIDTH CONTROL

PATENT

REEL: 026134 FRAME: 0767

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
ID0725	US	09/111,480	6,751,414	Granted	18-Jul-97	7-Jul-99	15-Jun-04	CIRCUIT AND CHANNEL ASSIGNMENT PLAN FOR OPTICAL TRANSMISSIONS
13378XR	US	09/547,813	6,228,139	Granted	23-Jul-97	11-Apr-00	8-May-01	HANDHELD DOCUMENT SCANNER
AB0148	US	09/910,271	5,907,654	Granted	13-Aug-97	13-Aug-97	25-May-99	PRINTED CIRCUIT BOARD FOR CONNECTION TO AN OPTICAL FIBER
ID0653	US	09/916,168	6,072,814	Granted	21-Aug-97	21-Aug-97	6-Jun-00	MONITORING INDUCED COUNTERPROPAGATING SIGNALS IN OPTICAL COMMUNICATIONS SYSTEMS
RO3807	US	09/138,019	6,359,857	Granted	22-Aug-97	21-Aug-98	19-Mar-02	PROTECTION SWITCHING TRIGGER GENERATION
ID0684	US	09/921,208	6,233,610	Granted	27-Aug-97	27-Aug-97	15-May-01	COMMUNICATIONS NETWORK HAVING MANAGEMENT SYSTEM ARCHITECTURE SUPPORTING REUSE
RO4528	US	09/917,784	6,863,018	Granted	27-Aug-97	27-Aug-97	7-Oct-03	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	09/443,329	6,493,117	Granted	27-Aug-97	19-Nov-96	10-Dec-02	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	09/372,576	6,556,321	Granted	27-Aug-97	12-Aug-99	29-Apr-03	WDM OPTICAL NETWORK AND SWITCHING NODE WITH PILOT TONE COMMUNICATIONS
RO4528	US	09/372,575	6,529,300	Granted	27-Aug-97	12-Aug-99	4-Mar-03	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	10/323,685	6,751,418	Granted	27-Aug-97	20-Dec-02	15-Jun-04	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	10/323,680	6,892,032	Granted	27-Aug-97	20-Dec-02	10-May-05	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	10/323,679	6,748,174	Granted	27-Aug-97	20-Dec-02	8-Jun-04	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	10/323,681	6,785,652	Granted	27-Aug-97	20-Dec-02	21-Sep-04	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	10/323,682	6,757,498	Granted	27-Aug-97	20-Dec-02	29-Jun-04	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	10/323,683	6,775,479	Granted	27-Aug-97	20-Dec-02	10-Aug-04	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	09/372,577	6,084,894	Granted	27-Aug-97	12-Aug-99	4-Jul-00	WDM OPTICAL NETWORK WITH PASSIVE PASS-THROUGH AT EACH NODE
RO4528	US	09/730,549	6,563,615	Granted	27-Aug-97	7-Dec-00	13-May-03	TECHNIQUE FOR DETECTING A NOISE ON A DATA CHANNEL
ID0700	US	09/929,360	6,124,960	Granted	8-Sep-97	8-Sep-97	26-Sep-00	TRANSMISSION SYSTEM WITH CROSS PHASE MODULATION COMPENSATION
RR2105	US	09/932,252	6,292,464	Granted	17-Sep-97	17-Sep-97	18-Sep-01	APPARATUS AND METHOD FOR SELF ROUTING CONTROL MECHANISM FOR RESTORING FIBER OPTIC COMMUNICATIONS NETWORK CONNECTIONS
RO3325	US	09/933,876	5,910,753	Granted	19-Sep-97	19-Sep-97	8-Jun-99	DIRECT DIGITAL PHASE SYNTHESIS
RO3858	US	09/933,875	6,058,718	Granted	19-Sep-97	19-Sep-97	30-May-00	DISTORTION PENALTY MEASUREMENT PROCEDURE IN OPTICAL SYSTEMS USING NOISE LOADING
13141OK	US	09/122,955	6,025,950	Granted	22-Sep-97	27-Jul-98	15-Feb-00	MONOLITHIC ALL-SEMICONDUCTOR OPTICALLY ADDRESSED SPATIAL LIGHT MODULATOR BASED ON LOW PHOTOCONDUCTIVE SEMICONDUCTORS
RO3727	US	09/960,027	6,239,889	Granted	22-Oct-97	5-Dec-97	29-May-01	OPTICAL SIGNAL POWER DETECTION WITH SIGNATURE BIT PATTERN IN WDM SYSTEMS
TA0118	US	09/962,298	6,178,161	Granted	31-Oct-97	31-Oct-97	23-Jan-01	COMMUNICATIONS METHODS AND APPARATUS
RO3659	US	09/963,629	6,237,034	Granted	4-Nov-97	4-Nov-97	22-May-01	METHOD AND SYSTEM FOR TRANSMITTING AND RECEIVING ALARM NOTIFICATION AND ACKNOWLEDGEMENTS WITHIN A TELECOMMUNICATIONS NETWORK
RR2288	US	09/964,823	6,154,296	Granted	5-Nov-97	5-Nov-97	28-Nov-00	TELECOMMUNICATIONS NETWORK HAVING SHARED PROTECT CAPACITY ARCHITECTURE
RO3599	US	09/973,661	5,945,948	Granted	21-Nov-97	21-Nov-97	7-Sep-98	FACEPLATE WITH OPTICAL ADAPTER CARRIER
RO3319	US	09/973,475	5,913,005	Granted	25-Nov-97	25-Nov-97	15-Jun-99	FIBER SLACK STORAGE RETRACTABLE PANEL AND INTERFACE
RO3761	US	09/984,191	6,128,283	Granted	3-Dec-97	3-Dec-97	3-Oct-00	PROCESS AND APPARATUS FOR DATA TRANSMISSION USING A POSITIVE GROUP ACKNOWLEDGMENT PROTOCOL
ID0755	US	09/984,394	6,178,025	Granted	3-Dec-97	3-Dec-97	23-Jan-01	OPTICAL NETWORK LOSS OF SIGNAL DETECTION
ID0817	US	09/156,740	6,477,249	Granted	9-Dec-97	17-Sep-98	5-Nov-02	COMMUNICATIONS SIGNAL SPLITTER AND FILTER
RO3428	US	09/988,084	5,936,565	Granted	10-Dec-97	10-Dec-97	10-Aug-99	DIGITALLY CONTROLLED DUTY CYCLE INTEGRATION
ID0810	US	09/014,742	6,223,219	Granted	10-Dec-97	28-Jan-98	24-Apr-01	TRAIL MANAGEMENT ACROSS TRANSPORT FUNCTIONALITY OF LARGE AND COMPLEX TELECOMMUNICATIONS NETWORKS
RO3675	US	09/984,760	6,205,158	Granted	19-Dec-97	19-Dec-97	20-Mar-01	NETWORK ARCHITECTURES WITH TRANSPARENT TRANSPORT CAPABILITIES
RO3684	US	09/994,761	6,040,833	Granted	19-Dec-97	19-Dec-97	21-Mar-00	METHOD AND APPARATUS FOR CHANNEL EQUALIZATION IN WAVELENGTH DIVISION MULTIPLEXED SYSTEMS
RO3684	US	09/996,173	5,993,251	Granted	22-Dec-97	22-Dec-97	30-Nov-98	STAGGERED FACEPLATE
RO3759	US	09/996,763	5,939,916	Granted	23-Dec-97	23-Dec-97	17-Aug-99	PHASE SHIFTER SUITABLE FOR CLOCK RECOVERY SYSTEMS
RO3817	US	09/997,452	6,087,874	Granted	23-Dec-97	23-Dec-97	11-Jul-00	VARIABLE DELAY CIRCUIT FOR DELAYING LOGIC SIGNALS, CHARACTERIZED BY A DELAY TIME THAT IS A LINEAR FUNCTION OF A CONTROL VOLTAGE
RO4384	US	09/000,790	6,825,120	Granted	23-Dec-97	28-Apr-99	23-Sep-03	METHOD AND APPARATUS FOR AUTO DETECTION OF AALS TYPE FRAMES FOR VCC AND VPC SWITCHES
RO4384	US	10/398,805	#EMPTY	Filed	23-Dec-97	21-Mar-03	#EMPTY	METHOD AND APPARATUS FOR AUTO DETECTION OF AALS TYPE FRAMES FOR VCC AND VPC SWITCHES
RO3677	US	09/997,727	6,101,200	Granted	24-Dec-97	24-Dec-97	8-Aug-00	LASER MODULE ALLOWING SIMULTANEOUS WAVELENGTH AND POWER CONTROL
RO3308	US	09/997,781	5,934,485	Granted	24-Dec-97	24-Dec-97	10-Aug-99	TELECOMMUNICATIONS RACK
ID0756	US	09/044,888	6,310,883	Granted	24-Dec-97	20-Mar-98	30-Oct-01	TRAFFIC ROUTE FINDER IN COMMUNICATIONS NETWORK

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
RO4027	US	091002,009	6,008,808	Granted	31-Dec-97	31-Dec-97	28-Dec-99	TOOLS FOR DATA MANIPULATION AND VISUALIZATION
ID0812	US	091901,516	6,522,436	Granted	11-Feb-98	9-Jul-01	18-Feb-03	MULTIPLY TRANSMISSION OF OPTICAL SIGNALS
ID0812	US	091048,402	6,313,932	Granted	11-Feb-98	25-Mar-99	6-Nov-01	MULTIPLY TRANSMISSION OF OPTICAL SIGNALS
RO3760	US	091030,896	6,111,676	Granted	25-Feb-98	26-Feb-98	25-Aug-00	WAVELENGTH SPECIFIC OPTICAL REFLECTION METER/LOCATOR IN SIGNATURED WAVELENGTH DIVISION MULTIPLY SYSTEMS
ID0866	US	091257,223	7,075,935	Granted	27-Feb-98	25-Feb-99	11-Jul-06	ENGINEERING OPERATIONS CHANNEL PROVISION
RO3822	US	091034,908	6,046,638	Granted	4-Mar-98	4-Mar-98	4-Apr-00	RECEIVE AMPLIFIER FOR HIGH SPEED DATA SIGNALS
RO3822	US	091481,907	6,165,454	Granted	4-Mar-98	12-Jan-00	2-Jan-01	RECEIVE AMPLIFIER FOR HIGH SPEED DATA
RO3875	US	091054,388	6,016,086	Granted	3-Apr-98	3-Apr-98	18-Jan-00	NOISE CANCELLATION MODIFICATION TO NON-CONTACT BUS
RO4130	US	091055,360	6,323,978	Granted	6-Apr-98	6-Apr-98	27-Nov-01	ROBUST VARIABLE-BIT-RATE OPTICAL CHANNEL OVERHEAD
RO3923	US	091116,477	6,542,511	Granted	30-Apr-98	16-Jul-98	1-Apr-03	PROGRAMMABLE TRANSPORT AND NETWORK ARCHITECTURE
RO3879	US	091074,661	6,222,668	Granted	8-May-98	8-May-98	24-Apr-01	FAST LOSS OF SIGNAL (LOS) DETECTION FOR BIDIRECTIONAL OPTICAL AMPLIFIERS
RO3839	US	091076,240	6,278,746	Granted	12-May-98	12-May-98	21-Aug-01	TIMING RECOVERY LOOP CIRCUIT IN A RECEIVER OF A MODEM
RO3840	US	091076,635	6,285,044	Granted	12-May-98	12-May-98	11-Sep-01	AUTOMATIC GAIN CONTROL CIRCUIT FOR A MODEM RECEIVER
RO3907	US	091081,666	5,958,748	Granted	20-May-98	20-May-98	28-Sep-99	OPTICAL ADD/DROP MULTIPLEXER/MULTIPLIER
RO3867	US	091043,414	6,101,012	Granted	20-May-98	30-Jun-99	8-Aug-00	OPTICAL ADD/DROP MULTIPLEXER/MULTIPLIER
RO3834	US	091083,999	6,365,553	Granted	26-May-98	26-May-98	14-May-02	REDUNDANT LINK DELAY MAINTENANCE CIRCUIT AND METHOD
RO4160	US	091090,283	6,089,523	Granted	4-Jun-98	4-Jun-98	30-May-00	DIFFERENTIAL DATA DRIVER
RO3949	US	091090,568	5,920,258	Granted	8-Jun-98	8-Jun-98	6-Jul-99	ALARM SIGNAL PROCESSING CIRCUIT
RO4064	US	091093,388	6,246,668	Granted	9-Jun-98	9-Jun-98	12-Jun-01	HITLESS MANUAL PATH SWITCHING USING LINKED POINTER PROCESSORS
RQ2407	US	091094,525	6,487,177	Granted	12-Jun-98	12-Jun-98	26-Nov-02	METHOD AND SYSTEM FOR ENHANCING COMMUNICATIONS EFFICIENCY IN DATA COMMUNICATIONS NETWORKS
RO4013	US	291099,909	D407,686	Granted	25-Jun-98	25-Jun-98	6-Apr-99	POWER SUPPLY AND BATTERY HOUSING Y
RO4249	US	091199,322	6,393,488	Granted	30-Jun-98	25-Nov-98	15-Jan-02	LARGE SCALE COMMUNICATIONS NETWORK HAVING A FULLY MESHED OPTICAL CORE TRANSPORT NETWORK
RO4532	US	091352,605	6,263,130	Granted	14-Jul-98	13-Jul-99	17-Jul-01	WIDEBAND OPTICAL SERVICE CHANNEL FOR WAVE DIVISION NETWORKS
RO3938	US	091115,610	6,292,829	Granted	15-Jul-98	15-Jul-98	18-Sep-01	METHOD AND DEVICE FOR NETWORK MANAGEMENT
RN1190	US	091359,075	6,895,018	Granted	28-Jul-98	22-Jul-99	17-May-05	METHOD AND APPARATUS FOR IMPROVED SONET DATA COMMUNICATION CHANNEL MECHANISM FOR INTEGRATION OF MANAGEMENT FUNCTIONALITY IN COMMUNICATIONS NETWORKS
ID0851	US	091124,479	6,349,332	Granted	29-Jul-98	29-Jul-98	19-Feb-02	MECHANISM FOR INTEGRATION OF MANAGEMENT FUNCTIONALITY IN COMMUNICATIONS NETWORKS
ID1066	US	091352,608	6,287,701	Granted	29-Jul-98	28-Jul-99	2-Oct-01	WIDE DYNAMIC RANGE TRANSMISSION AMPLIFIER
BA0218	US	091128,243	6,266,038	Granted	3-Aug-98	3-Aug-98	4-Sep-01	METHOD AND APPARATUS FOR REMOTELY CONFIGURING A NETWORK DEVICE
RO3904	US	091132,485	6,356,546	Granted	11-Aug-98	11-Aug-98	12-Mar-02	UNIVERSAL TRANSFER METHOD AND NETWORK WITH DISTRIBUTED SWITCH
RO3904	US	101022,403	7,061,819	Granted	11-Aug-98	20-Dec-01	13-Jun-06	UNIVERSAL TRANSFER METHOD AND NETWORK WITH DISTRIBUTED SWITCH
RO3810	US	091372,580	6,329,872	Granted	14-Aug-98	12-Aug-99	11-Dec-01	CHARGE PUMP CIRCUIT FOR A PHASE LOCKED LOOP
ID0887	US	091231,433	6,483,620	Granted	28-Aug-98	14-Jan-99	19-Nov-02	POLARIZATION MODE DISPERSION MEASUREMENT
ID1035	US	091231,436	6,559,991	Granted	28-Aug-98	14-Jan-99	8-May-03	POLARIZATION MODE DISPERSION COMPENSATION
RO4067	US	091151,295	6,115,825	Granted	11-Sep-98	11-Sep-98	5-Sep-00	METHOD FOR SYNCHRONIZATION DISTRIBUTION IN A COMMUNICATIONS NETWORK
ID0899	US	091156,684	6,411,417	Granted	22-Sep-98	22-Sep-98	25-Jun-02	OPTICAL EQUALIZER
RO4081	US	091158,858	6,057,731	Granted	23-Sep-98	23-Sep-98	2-May-00	LOW-DISTORTION HIGH-FREQUENCY AMPLIFIER
RO4287	US	091161,433	6,816,681	Granted	24-Sep-98	24-Sep-98	9-Nov-04	ANALOGOUS CHANNEL METHOD FOR PERFORMANCE MONITORING AND EQUALIZATION IN OPTICAL NETWORKS
ID1042	US	091219,374	6,819,668	Granted	29-Sep-98	25-Dec-98	16-Nov-04	TRAIL MANAGEMENT IN A COMMUNICATIONS NETWORK
ID1043	US	091199,084	6,564,258	Granted	30-Sep-98	16-Nov-98	13-May-03	DETECTION OF NETWORK TOPOLOGY CHANGES AFFECTING TRAIL ROUTING CONSISTENCY
RO4281	US	091210,812	6,453,899	Granted	6-Oct-98	15-Dec-98	13-Aug-02	EYE QUALITY MONITOR FOR A 2R REGENERATOR
ID1049	US	091193,095	6,477,668	Granted	6-Oct-98	15-Nov-98	5-Nov-02	MANIPULATION OF TRAIL ROUTES RESULTING FROM CHANGES IN NETWORK TOPOLOGY OPERATIONAL NEED
RO4016	US	10252,543	7,127,171	Granted	6-Oct-98	24-Sep-02	24-Oct-06	ARCHITECTURAL ARRANGEMENT FOR BANDWIDTH MANAGEMENT IN LARGE CENTRAL OFFICES
ID1048	US	091166,874	6,917,630	Granted	6-Oct-98	6-Oct-98	12-Jun-05	CONCATENATION OF CONTAINERS IN SYNCHRONOUS DIGITAL HIERARCHY NETWORK
ID1048	US	11257,483	#EMPTY	Filed	6-Oct-98	24-Oct-05	#EMPTY	CONCATENATION OF CONTAINERS IN SYNCHRONOUS DIGITAL HIERARCHY NETWORK
RO4002	US	091172,631	6,389,016	Granted	14-Oct-98	14-Oct-98	14-May-02	DATA COMMUNICATION SYSTEM AND METHOD FOR TRANSPORTING DATA
RO3884	US	091173,033	5,161,136	Granted	16-Oct-98	16-Oct-98	12-Dec-00	HIGH PERFORMANCE USER INTERFACE AND METHOD OF STRUCTURING SAME
RO4084	US	091175,945	6,064,238	Granted	21-Oct-98	21-Oct-98	16-May-00	LOW AMPLITUDE PEAK DETECTOR
RO4239	US	091178,865	5,120,066	Granted	27-Oct-98	27-Oct-98	19-Sep-00	SPLIT TUBE JUNCTION FORM AND METHOD OF USE

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
RO4357	US	09/163,178	6,361,237	Granted	30-Oct-98	30-Oct-98	30-Apr-02	TRAIL EXPLORER AND METHOD FOR EXPLORING TRAILS IN A COMMUNICATION NETWORK
BA0250	US	09/184,522	6,365,648	Granted	2-Nov-98	2-Nov-98	7-May-02	METHODS FOR INITIALIZING A BOX ON A DATA COMMUNICATIONS NETWORK
RO3736	US	09/189,021	6,566,232	Granted	10-Nov-98	10-Nov-98	22-Jul-03	HYBRID AMPLIFIER-GENERATOR FOR OPTIMIZING CABLE NETWORK TRANSMISSIONS
ID0896	US	09/196,366	6,424,439	Granted	24-Nov-98	24-Nov-98	29-Jul-02	WAVELENGTH DIVISION MULTIPLEXED CHANNEL TAGGING
RO3924	US	09/199,479	6,388,781	Granted	25-Nov-98	25-Nov-98	14-May-02	APPARATUS FOR TIME DIVISION WAVE DIVISION CONVERSION
RO4319	US	09/199,327	6,574,016	Granted	25-Nov-98	25-Nov-98	3-Jun-03	METHOD AND APPARATUS FOR ANCILLARY DATA IN A WAVELENGTH-DIVISION MULTIPLEXED SYSTEM
RO4357	US	09/200,782	6,392,592	Granted	30-Nov-98	30-Nov-98	21-May-02	SIGNAL DEGRADE OSCILLATION CONTROL MECHANISM
ID1067	US	09/203,853	7,369,496	Granted	2-Dec-98	2-Dec-98	6-May-08	FLOW CONTROL OF FRAME BASED DATA OVER A SYNCHRONOUS DIGITAL NETWORK
ID1067	US	12/053,307	#EMPTY	Filed	2-Dec-98	21-Mar-98	#EMPTY	FLOW CONTROL OF FRAME BASED DATA OVER A SYNCHRONOUS DIGITAL NETWORK
ID1060	US	09/257,434	6,434,229	Granted	15-Dec-98	12-Mar-99	13-Aug-02	CHANNEL ASSOCIATED SIGNALING (CAS) COMPATIBLE TELECOMMUNICATIONS NODE AND SOFTWARE PLATFORM THEREFOR
ID1011	US	09/257,437	6,687,032	Granted	15-Dec-98	12-Mar-99	3-Feb-04	OPTICAL EQUALIZER
ID0832	US	09/211,882	6,373,826	Granted	15-Dec-98	15-Dec-98	18-Apr-02	SPANNING TREE ALGORITHM
RO4368	US	09/215,464	6,381,247	Granted	17-Dec-98	17-Dec-98	30-Apr-02	SERVICE INDEPENDENT SWITCH INTERFACE
ID0890	US	09/218,110	6,633,584	Granted	21-Dec-98	21-Dec-98	14-Oct-03	PAYLOAD TRANSLATION BETWEEN FRAME OPTIONS IN SYNCHRONOUS DIGITAL HIERARCHY NETWORKS
ID1037	US	09/276,080	6,901,082	Granted	22-Dec-98	25-Mar-99	31-May-05	METHOD AND APPARATUS FOR COMMUNICATING INFORMATION
RO4353	US	09/218,428	6,754,340	Granted	22-Dec-98	22-Dec-98	22-Jun-04	STABLE ADAPTIVE FILTER AND METHOD
RO4124	US	09/217,909	6,317,214	Granted	22-Dec-98	22-Dec-98	13-Nov-01	METHOD AND APPARATUS TO DETERMIN A MEASUREMENT OF OPTICAL MULTIPLE PATH INTERFERENCE
RO3782	US	09/219,313	6,269,378	Granted	23-Dec-98	23-Dec-98	31-Jul-01	METHOD AND APPARATUS FOR PROVIDING A NAME SERVICE WITH AN APPARENTLY SYNCHRONOUS INTERFACE
ID1114	US	09/295,186	6,356,627	Granted	23-Dec-98	20-Apr-99	12-Mar-02	COMMUNICATION SYSTEM ARCHITECTURE, APPARATUS AND MANAGEMENT AND SIGNALING METHOD THEREIN
TA0120	US	09/223,005	6,538,802	Granted	30-Dec-98	30-Dec-98	25-Mar-03	MODEM SHELF
RO4420	US	09/238,893	6,523,564	Granted	28-Jan-99	28-Jan-99	4-Mar-03	DATA PULSE RECEIVER
BA0314	US	09/248,803	6,718,382	Granted	11-Feb-99	11-Feb-99	6-Apr-04	TECHNIQUE FOR DETECTING LEAKY POINTS WITHIN A NETWORK PROTOCOL DOMAIN
BA0375	US	09/512,576	6,875,993	Granted	25-Feb-99	24-Feb-00	12-Apr-05	APPARATUS AND METHOD FOR BINDING A CONNECTION-ORIENTED CLIENT TO A COMMUNICATION CHANNEL
RO4275	US	09/261,186	6,446,152	Granted	3-Mar-99	3-Mar-99	3-Sep-02	SYSTEM AND METHOD FOR MULTI-COUPLING DIGITAL SIGNALS AND A BACKPLANE DATA BUS WITH MULTI-COUPLING OF DIGITAL SIGNALS
RO4388	US	09/273,772	6,658,013	Granted	23-Mar-99	23-Mar-99	2-Dec-03	METHOD AND APPARATUS FOR ENSURING SURVIVABILITY OF INTER-RING TRAFFIC
RO4388	US	10/706,920	7,042,835	Granted	23-Mar-99	14-Nov-03	9-May-06	METHOD AND APPARATUS FOR ENSURING SURVIVABILITY OF INTER-RING TRAFFIC
RO4500	US	09/288,733	6,323,954	Granted	12-Apr-99	12-Apr-99	27-Nov-01	WDM SYSTEM EQUALIZATION WITH EDFA OPTICAL AMPLIFIERS
RR2569	US	09/293,464	6,947,415	Granted	15-Apr-99	15-Apr-99	20-Sep-05	METHOD AND APPARATUS FOR PROCESSING PACKETS IN A ROUTING SWITCH
RO4488	US	09/817,753	6,757,098	Granted	15-Apr-99	27-Mar-01	29-Jun-04	HIGHLY SCALABLE MODULAR OPTICAL AMPLIFIER BASED SUBSYSTEM
RO4488	US	09/292,340	6,235,499	Granted	15-Apr-99	15-Apr-99	22-May-01	HIGHLY SCALABLE MODULAR OPTICAL AMPLIFIER BASED SUBSYSTEM
102771D	US	09/437,064	6,351,592	Granted	21-Apr-99	9-Nov-99	26-Feb-02	PASSIVE OPTICAL NETWORK ARRANGEMENT
ID1104	US	09/335,423	6,427,042	Granted	22-Apr-99	24-Jun-99	30-Jul-02	OPTICAL FIBRE DUCTING SYSTEM
RO4451	US	09/296,291	6,592,273	Granted	22-Apr-99	22-Apr-99	15-Jul-03	OUT-OF-BAND VEHICLE FOR OPTICAL CHANNEL OVERHEAD INFORMATION
RO4307	US	09/296,576	6,584,279	Granted	22-Apr-99	22-Apr-99	15-Jul-03	METHOD AND APPARATUS FOR TRANSPORTING IP DATAGRAMS OVER SYNCHRONOUS OPTICAL NETWORKS AT GUARANTEED QUALITY OF SERVICE
10457RO	US	09/497,107	6,897,662	Granted	26-Apr-99	3-Feb-00	10-May-05	MULTI-LEVEL HIERARCHY FOR HIGH CAPACITY TRANSPORT SYSTEMS
105230D	US	09/365,936	6,990,517	Granted	30-Apr-99	30-Aug-99	24-Jan-06	SYNCHRONIZATION MODELLING USING TEMPLATES AND NETWORK MANAGEMENT SYSTEM
RO4469	US	11/222,919	#EMPTY	Filed	30-Apr-99	9-Sep-05	#EMPTY	METHOD AND APPARATUS FOR BANDWIDTH MANAGEMENT OF AGGREGATE DATA FLOWS
BA0246	US	09/323,676	6,788,692	Granted	3-May-99	1-Jun-99	7-Sep-04	NETWORK SWITCH LOAD BALANCING
10198RO	US	09/307,812	6,522,671	Granted	10-May-99	10-May-99	19-Feb-03	PROTOCOL INDEPENDENT SUB-RATE DEVICE
10198RO	US	10/349,939	#EMPTY	Filed	10-May-99	24-Jan-03	#EMPTY	PROTOCOL INDEPENDENT SUB-RATE DEVICE
10180RO	US	09/323,018	6,476,945	Granted	1-Jun-99	1-Jun-99	5-Nov-02	WAVELENGTH ALLOCATION IN A RING
10601RO	US	09/975,983	#EMPTY	Filed	1-Jun-99	8-Nov-04	#EMPTY	HIGH SPEED ETHERNET BASED ON SONET TECHNOLOGY
RO4402	US	09/741,337	6,381,384	Granted	2-Jun-99	21-Dec-00	30-Apr-02	FLEXIBLE WDM NETWORK ARCHITECTURE
RO4402	US	09/324,124	6,192,173	Granted	2-Jun-99	2-Jun-99	20-Feb-01	FLEXIBLE WDM NETWORK ARCHITECTURE

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
10423D	US	09/338,692	6,483,345	Granted	23-Jun-99	23-Jun-99	19-Nov-02	HIGH SPEED LEVEL SHIFT CIRCUIT FOR LOW VOLTAGE OUTPUT
10153RO	US	09/338,264	6,259,837	Granted	24-Jun-99	24-Jun-99	10-Jul-01	OPTICAL INTER-RING PROTECTION HAVING MATCHED NODES
ID1135	US	09/383,645	6,522,691	Granted	28-Jun-99	26-Aug-99	18-Feb-03	METHOD OF AND APPARATUS FOR DETERMINING THE CAPACITY OF A TELECOMMUNICATIONS SYSTEM
ID1134	US	09/342,363	6,608,362	Granted	29-Jun-99	29-Jun-99	12-Aug-03	SYNCHRONIZATION IN A TELECOMMUNICATIONS NETWORK
10002D	US	09/345,063	6,275,331	Granted	30-Jun-99	30-Jun-99	14-Aug-01	OPTICAL AMPLIFIERS
ID1085	US	09/349,349	6,643,464	Granted	7-Jul-99	7-Jul-99	4-Nov-03	CONSTRAINED OPTICAL MESH PROTECTION FOR TRANSMISSION SYSTEMS
10420RO	US	09/349,087	7,002,886	Granted	8-Jul-99	8-Jul-99	21-Feb-06	MAPPING ARBITRARY SIGNALS INTO SONET
10420RO	US	11/289,351	7,286,564	Granted	8-Jul-99	30-Nov-05	23-Oct-07	MAPPING ARBITRARY SIGNALS INTO SONET
14704RO	US	10/124,235	7,257,117	Granted	8-Jul-99	18-Apr-02	14-Aug-07	MAPPING ARBITRARY SIGNALS
10193D	US	09/352,167	6,198,356	Granted	12-Jul-99	12-Jul-99	6-Mar-01	VOLTAGE CONTROLLED OSCILLATOR POWER SUPPLY AND TEMPERATURE COMPENSATION CIRCUIT
RO4440	US	09/358,932	6,744,760	Granted	23-Jul-99	23-Jul-99	1-Jun-04	NODE CONFIGURATIONS WITHIN COMMUNICATION SYSTEMS
10182RO	US	09/368,370	6,480,315	Granted	6-Aug-99	6-Aug-99	12-Nov-02	METHOD AND APPARATUS FOR SNR MEASUREMENT
RO4311	US	09/371,795	6,473,397	Granted	10-Aug-99	10-Aug-99	28-Oct-02	ADD/DROP MULTIPLEXER AND METHOD, AND BIDIRECTIONAL LINE SWITCHED RING FEATURING SUCH MULTIPLEXERS
10155RO	US	09/386,482	6,521,895	Granted	31-Aug-99	31-Aug-99	15-Sep-03	ENHANCED COMMUNICATION SERVICES FOR DATA NETWORKS
RN1131	US	09/391,031	6,757,306	Granted	7-Sep-99	7-Sep-99	29-Jun-04	METHOD AND SYSTEM FOR INTERMEDIATE LEVEL 2 TRANSPARENCY USING THE SONET LDCC
12686RO	US	09/733,022	6,842,868	Granted	19-Sep-99	11-Dec-00	11-Jan-05	CONNECTION INTEGRITY MONITOR FOR DIGITAL SELECTION CIRCUITS
RO4509	US	09/401,976	6,510,530	Granted	23-Sep-99	23-Sep-99	21-Jan-03	AT-SPEED BUILT-IN TESTING OF MULTI-PORT COMPACT SRAMS
10246RO	US	09/550,489	6,876,649	Granted	27-Sep-99	17-Apr-00	5-Apr-05	HIGH-CAPACITY WDM-TDM PACKET SWITCH
10347RO	US	09/405,094	6,952,396	Granted	27-Sep-99	27-Sep-99	4-Oct-05	ENHANCED DUAL CONTROL ROTATING RING NETWORK CONTROL SYSTEM
RP2332	US	09/406,317	6,618,384	Granted	27-Sep-99	27-Sep-99	9-Sep-03	METHOD AND SYSTEM FOR INTEGRATION OF ATM EDGE SWITCH WITH ACCESS DEVICE
11193RO	US	09/409,989	6,326,854	Granted	30-Sep-99	30-Sep-99	4-Dec-01	COAXIAL RESONATOR AND OSCILLATION CIRCUITS FEATURING COAXIAL
11193RO	US	09/471,140	6,297,704	Granted	30-Sep-99	23-Dec-99	2-Oct-01	OSCILLATION CIRCUITS FEATURING COAXIAL RESONATORS
13593RO	US	09/732,752	6,425,746	Granted	30-Sep-99	11-Dec-00	6-Aug-02	OSCILLATION CIRCUITS FEATURING COAXIAL RESONATORS
10653RO	US	09/411,649	6,493,086	Granted	4-Oct-99	4-Oct-99	10-Dec-02	METHOD AND APPARATUS FOR HIGH RESOLUTION MONITORING OF OPTICAL SIGNALS
10653RO	US	10/266,574	6,687,009	Granted	4-Oct-99	9-Oct-02	3-Feb-04	METHOD AND APPARATUS FOR HIGH RESOLUTION MONITORING OF OPTICAL SIGNALS
11396D	US	09/547,323	6,888,842	Granted	5-Oct-99	11-Apr-00	3-May-03	SCHEDULING AND RESERVATION FOR DYNAMIC RESOURCE CONTROL SYSTEMS
11217D	US	09/414,367	6,636,529	Granted	7-Oct-99	7-Oct-99	21-Oct-03	SEMI-TRANSPARENT TRIBUTARY FOR SYNCHRONOUS TRANSMISSION
10605D	US	09/416,679	7,020,141	Granted	12-Oct-99	12-Oct-99	28-Mar-05	ATM COMMON PART SUB-LAYER DEVICE AND METHOD
10210RR	US	09/420,329	6,735,392	Granted	19-Oct-99	18-Oct-99	11-May-04	SYSTEM AND METHOD FOR TRANSMITTING AND RESTORING AN OPTICAL SIGNAL
10748RO	US	09/431,165	6,697,577	Granted	1-Nov-99	1-Nov-99	24-Feb-04	METHOD AND APPARATUS FOR IN-SERVICE OPTIMIZATION OF THE PERFORMANCE OF AN OPTICAL TRANSMISSION SYSTEM
BA0437	US	09/434,159	6,633,576	Granted	4-Nov-99	4-Nov-99	14-Oct-03	APPARATUS AND METHOD FOR INTERLEAVED PACKET STORAGE
10799RO	US	09/438,516	6,937,614	Granted	12-Nov-99	12-Nov-99	30-Aug-05	TRANSPARENT PORT FOR HIGH RATE NETWORKING
10820RO	US	09/443,128	6,444,922	Granted	18-Nov-99	18-Nov-99	3-Sep-02	ZERO CROSS-TALK SIGNAL LINE DESIGN
11260RO	US	09/444,344	6,564,341	Granted	19-Nov-99	19-Nov-99	13-May-03	CARRIER-GRADE SNMP INTERFACE FOR FAULT MONITORING
10329RO	US	09/590,455	6,519,302	Granted	24-Nov-99	18-Oct-00	11-Feb-03	METHOD AND APPARATUS FOR REGENERATING DATA
12897RO	US	09/600,146	6,961,307	Granted	6-Dec-99	9-Jul-01	1-Nov-05	QUEUE MANAGEMENT MECHANISM FOR PROPORTIONAL LOSS RATE DIFFERENTIATION
10220RO	US	09/456,566	6,741,553	Granted	8-Dec-99	8-Dec-99	25-May-04	METHOD AND SYSTEM FOR PROTECTING VIRTUAL TRAFFIC IN A COMMUNICATIONS NETWORK
SS0195	US	09/457,904	6,485,309	Granted	8-Dec-99	8-Dec-99	25-Nov-02	VIRTUAL MIDPLANE TO ENHANCE CARD INTERCONNECTIONS USING A MATRIX OF INTERCONNECTING ASSEMBLIES Y
10445RN	US	09/461,615	6,201,708	Granted	15-Dec-99	15-Dec-99	19-Mar-01	BACKPLANE SLOT ARRANGEMENT FOR USE WITH SINGLE OR MULTIPLE WIDTH CIRCUIT BOARDS
TA0722	US	09/461,012	6,462,926	Granted	15-Dec-99	15-Dec-99	8-Oct-02	LOW LOSS DIODE-ORING CIRCUIT
13047QT	US	09/465,257	6,813,241	Granted	18-Dec-99	18-Dec-99	2-Nov-04	NETWORK ARCHITECTURE AND METHOD OF PROVIDING LINK PROTECTION IN A BIDIRECTIONAL DATA TRAFFIC NETWORK
10800RO	US	09/467,778	6,262,280	Granted	20-Dec-99	20-Dec-99	16-Sep-01	METHODS AND APPARATUS FOR ADJUSTING POWER IN AN OPTICAL SIGNAL FOR PROVIDING A SEAMLESS OPTICAL RING AND FOR PROVIDING A BIDIRECTIONAL EQUALIZED AMPLIFIER
11304RO	US	09/494,513	6,690,938	Granted	20-Dec-99	31-Jan-00	20-Jan-04	METHOD AND APPARATUS FOR CROSS-CONNECTING DATA STREAMS WITH EFFICIENT MEMORY UTILIZATION AND TRANSPARENT PROTOCOL CONVERSION

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
11308RO	US	09/466,664	6,735,259	Granted	20-Dec-99	20-Dec-99	11-May-04	METHOD AND APPARATUS FOR OPTIMIZATION OF A DATA COMMUNICATIONS SYSTEM USING SACRIFICIAL BITS
11401ID	US	09/541,185	6,959,335	Granted	22-Dec-99	3-Apr-00	25-Dec-05	METHOD OF PROVIDING A ROUTE IN A CONNECTIONLESS COMMUNICATIONS NETWORK SUCH THAT A GUARANTEED QUALITY OF SERVICE IS PROVIDED
11102ID	US	09/471,440	6,728,266	Granted	23-Dec-99	23-Dec-99	27-Apr-04	PRICING MECHANISM FOR RESOURCE CONTROL IN A COMMUNICATIONS NETWORK
10731RO	US	09/471,093	6,829,247	Granted	23-Dec-99	23-Dec-99	7-Dec-04	METHOD AND APPARATUS FOR ESTABLISHING DEDICATED LOCAL AREA NETWORK (LAN) CONNECTIONS IN AN OPTICAL TRANSMISSION NETWORK
10870RO	US	09/471,322	6,239,637	Granted	23-Dec-99	23-Dec-99	29-May-01	METHOD AND APPARATUS FOR TRANSMITTING AN ELECTRICAL SIGNAL FEATURING PULSE EDGE COMPRESSION
10637RO	US	09/471,139	6,512,611	Granted	23-Dec-99	23-Dec-99	28-Jan-03	METHOD OF DEACTIVATING PROTECTION FIBER RESOURCES IN OPTICAL RING NETWORKS
RO-4377	US	09/472,124	6,718,141	Granted	23-Dec-99	23-Dec-99	6-Apr-04	NETWORK AUTODISCOVERY IN AN ALL-OPTICAL NETWORK
11095RO	US	09/472,912	6,654,411	Granted	27-Dec-99	27-Dec-99	25-Nov-03	METHOD AND SYSTEM FOR ESTIMATING ERROR RATE OF COMMUNICATION CHANNEL OVER A WIDE DYNAMIC RANGE
10475RO	US	09/570,033	6,333,678	Granted	29-Dec-99	12-May-00	25-Dec-01	METHOD AND APPARATUS FOR AGILE PHASE NOISE FILTERING USING PHASE LOCKED LOOPS
10480RO	US	09/512,976	7,068,679	Granted	29-Dec-99	10-Jul-00	27-Jun-06	ASYNCHRONOUS PAYLOAD MAPPING USING DIRECT PHASE TRANSFER
10795RO	US	09/473,714	6,919,879	Granted	29-Dec-99	29-Dec-99	16-Nov-04	METHOD AND APPARATUS FOR ENCODING AND DECODING OPTICAL POWER AND NON PAYLOAD DATA IN AN OPTICAL SIGNAL
10795RO	US	10/654,052	7,174,109	Granted	29-Dec-99	30-Sep-04	6-Feb-07	METHOD AND APPARATUS FOR ENCODING AND DECODING OPTICAL POWER AND NON PAYLOAD DATA IN AN OPTICAL SIGNAL
10795RO	US	11/612,916	7,546,284	Granted	29-Dec-99	19-Dec-06	18-Mar-08	METHOD AND APPARATUS FOR ENCODING AND DECODING OPTICAL POWER AND NON PAYLOAD DATA IN AN OPTICAL SIGNAL
11309RO	US	09/481,691	6,687,464	Granted	30-Dec-99	12-Jan-00	3-Feb-04	OPTIMIZATION OF A COMMUNICATIONS SYSTEM BASED ON IDENTIFICATION OF AN OPTICAL MEDIUM
11370RO	US	09/473,139	6,486,563	Granted	30-Dec-99	30-Dec-99	26-Nov-02	AGILE OPTICAL-CORE DISTRIBUTED PACKET SWITCH
12141RO	US	09/739,385	6,944,163	Granted	10-Feb-00	19-Dec-00	13-Sep-05	10 GIGABIT ETHERNET MAPPINGS FOR A COMMON LAN/WAN PMD INTERFACE WITH A SIMPLE UNIVERSAL PHYSICAL MEDIUM DEPENDENT INTERFACE
12072RO	US	09/536,020	7,031,607	Granted	21-Feb-00	27-Mar-00	18-Apr-06	MP.S APPLICATION TO OPTICAL CROSS-CONNECT USING WAVELENGTH AS A LABEL
12072RO	US	11/352,797	7,412,168	Granted	21-Feb-00	13-Feb-06	12-Aug-08	MP.S APPLICATION TO OPTICAL CROSS-CONNECT USING WAVELENGTH AS A LABEL
11742ID	US	09/533,565	6,919,722	Granted	22-Mar-00	22-Mar-00	11-Feb-03	METHOD AND APPARATUS FOR CONTROLLING THE READ CLOCK SIGNAL RATE OF FIRST-IN FIRST-OUT (FIFO) DATA MEMORY
12301ID	US	09/745,989	6,928,053	Granted	28-Mar-00	21-Dec-00	9-Aug-05	DYNAMIC RESOURCE CONTROL IN TELECOMMUNICATIONS NETWORKS
11451ID	US	09/537,361	6,870,829	Granted	29-Mar-00	29-Mar-00	22-Mar-05	MESSAGE SIGNALING IN A SYNCHRONOUS TRANSMISSION APPARATUS
11951ID	US	09/537,359	6,728,483	Granted	29-Mar-00	29-Mar-00	27-Apr-04	METHOD AND ARRANGEMENT FOR CLOCK AND DATA RECOVERY
11921ID	US	09/537,362	6,854,368	Granted	29-Mar-00	29-Mar-00	25-Nov-03	APPARATUS AND METHOD FOR PROCESSING FRAME STRUCTURED DATA SIGNALS
11610RO	US	09/538,224	6,842,587	Granted	30-Mar-00	30-Mar-00	11-Jan-05	USE OF AMPLIFIED SPONTANEOUS EMISSION FROM A SEMICONDUCTOR OPTICAL AMPLIFIER TO MINIMIZE CHANNEL INTERFERENCE DURING INITIALIZATION OF AN EXTERNALLY MODULATED DWDM TRANSMITTER
12201ID	US	09/538,121	6,877,394	Granted	30-Mar-00	30-Mar-00	23-Apr-02	OPTICAL AMPLIFIER GAIN CONTROL
11532RO	US	09/539,707	6,735,170	Granted	31-Mar-00	31-Mar-00	11-May-04	METHOD AND SYSTEM FOR ESTABLISHING CONTENT-FLEXIBLE CONNECTIONS IN A COMMUNICATIONS NETWORK
11345RO	US	09/539,706	7,197,243	Granted	31-Mar-00	31-Mar-00	27-Mar-07	OPTICAL WAVEFORM FOR USE IN A DWDM OPTICAL NETWORK AND SYSTEMS FOR GENERATING AND PROCESSING SAME
11345RO	US	11/281,437	7,321,728	Granted	31-Mar-00	18-Nov-05	22-Jan-08	OPTICAL WAVEFORM FOR USE IN A DWDM OPTICAL NETWORK AND SYSTEMS FOR GENERATING AND PROCESSING SAME
11874ID	US	09/544,362	6,490,389	Granted	6-Apr-00	6-Apr-00	3-Dec-02	FIBRE FUSE PROTECTION
11418RO	US	09/548,667	6,940,808	Granted	13-Apr-00	13-Apr-00	6-Sep-05	ADAPTIVE RATE TRAFFIC RECOVERY MECHANISM FOR COMMUNICATION NETWORKS
11997RO	US	09/552,593	7,065,103	Granted	19-Apr-00	19-Apr-00	20-Jun-06	HYPER-CONCATENATION ACROSS MULTIPLE PARALLEL CHANNELS
11892ID	US	09/559,854	6,400,861	Granted	27-Apr-00	27-Apr-00	4-Jun-02	OPTICAL DEMULTIPLEXER ARCHITECTURE
11834ID	US	09/560,628	6,768,822	Granted	28-Apr-00	28-Apr-00	27-Jul-04	CHROMATIC DISPERSION COMPENSATION
12300ID	US	09/565,700	6,892,233	Granted	4-May-00	4-May-00	10-May-05	OPTICAL COMMUNICATION NETWORK AND METHOD OF REMOTELY MANAGING MULTIPLEXERS
11950ID	US	09/573,235	6,661,079	Granted	18-May-00	18-May-00	20-Jan-04	OPTICAL FIBRE MONITORING SYSTEM
12004ID	US	09/573,239	6,981,065	Granted	18-May-00	18-May-00	27-Dec-05	PROVISIONING OF CONNECTION THROUGH A SONET/SDH NETWORK
11961RO	US	09/577,814	6,975,649	Granted	25-May-00	25-May-00	13-Dec-05	HYPER-CONCATENATION ACROSS INDEPENDENT POINTER PROCESSORS
11740RO	US	09/583,283	6,913,459	Granted	31-May-00	31-May-00	6-Nov-01	METHOD FOR CALIBRATING AND OPERATING AN UNCOOLED AVALANCHE PHOTODIODE OPTICAL RECEIVER

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12669RO	US	09/624,269	6,684,270	Granted	2-Jun-00	24-Jul-00	27-Jan-04	ACCELERATED FILE SYSTEM THAT RECOGNIZES AND REROUTES UNCONTENDED READ OPERATION TO A SECOND FASTER PATH FOR USE IN HIGH-CAPACITY DATA TRANSFER SYSTEMS
12680RO	US	09/624,051	7,113,984	Granted	2-Jun-00	24-Jul-00	26-Sep-06	APPLICATIONS FOR NETWORKED STORAGE SYSTEMS
12680RO	US	10/814,076	#EMPTY	Filed	2-Jun-00	81-Mar-04	#EMPTY	APPLICATIONS FOR NETWORKED STORAGE SYSTEMS
12398RO	US	09/594,583	6,298,673	Granted	15-Jun-00	15-Jun-00	11-Sep-01	BIAS CIRCUITS FOR DEPLETION MODE FIELD EFFECT TRANSISTORS
12229RO	US	09/597,974	7,162,536	Granted	20-Jun-00	20-Jun-00	9-Jan-07	VALIDATION OF A CONNECTION BETWEEN ARBITRARY END-NODES IN A COMMUNICATIONS NETWORK
11011RO	US	09/605,824	6,898,007	Granted	29-Jun-00	29-Jun-00	3-May-05	WAVELENGTH ACCESS SERVER (WAS) ARCHITECTURE
11011RO	US	11/118,263	7,394,985	Granted	29-Jun-00	29-Apr-05	1-Jul-08	WAVELENGTH ACCESS SERVER (WAS) ARCHITECTURE
11739RO	US	09/609,282	6,701,089	Granted	30-Jun-00	30-Jun-00	2-Mar-04	OVER-EQUALIZATION FOR MULTI-SPAN WAVELENGTH DIVISION MULTIPLEXED FIBER OPTIC COMMUNICATIONS SYSTEMS
12399RO	US	09/608,137	6,330,361	Granted	30-Jun-00	30-Jun-00	11-Dec-01	METHODS, SYSTEMS, MEDIA AND SIGNALS FOR DETERMINING OPTIMUM PRE-COMPENSATION AND OPTIMIZATION OF AN OPTICAL SYSTEM
12388RO	US	09/613,478	7,042,908	Granted	10-Jul-00	10-Jul-00	9-May-06	METHOD AND APPARATUS FOR TRANSMITTING ARBITRARY ELECTRICAL SIGNALS OVER A DATA NETWORK
12672RO	US	09/601,987	6,625,025	Granted	10-Jul-00	10-Jul-01	23-Sep-03	COMPONENT COOLING IN ELECTRONIC DEVICES
12672RO	US	10/427,478	6,836,409	Granted	10-Jul-00	1-May-03	28-Dec-04	COMPONENT COOLING IN ELECTRONIC DEVICES
11949RO	US	09/616,997	7,260,099	Granted	14-Jul-00	14-Jul-00	21-Aug-07	PROCESSING OF ARBITRARILY FORMATTED CLIENT SIGNALS TO ACHIEVE COMPATIBILITY WITH EXISTING TRANSPORT NETWORKS
12207RO	US	09/617,224	6,810,011	Granted	17-Jul-00	17-Jul-00	26-Oct-04	PROTECTION SWITCHING WITHIN AN OPEN LAYER
12899RO	US	09/622,181	6,920,159	Granted	17-Jul-00	2-Apr-01	19-Jul-05	ARCHITECTURE AND ADDRESSING SCHEME FOR STORAGE INTERCONNECT AND EMERGING STORAGE SERVICE PROVIDERS
10631RO	US	09/620,248	6,994,248	Granted	20-Jul-00	20-Jul-00	23-Aug-05	APPARATUS AND METHOD FOR OPTICAL COMMUNICATION PROTECTION
10631RO	US	11/038,206	#EMPTY	Filed	20-Jul-00	21-Jan-05	#EMPTY	APPARATUS AND METHOD FOR OPTICAL COMMUNICATION PROTECTION
12294RO	US	09/620,488	6,816,487	Granted	20-Jul-00	20-Jul-00	9-Nov-04	MAPPING OF HIGH BANDWIDTH CONNECTIONS IN A MULTI-STAGE SWITCH
11968RO	US	09/619,996	6,816,494	Granted	20-Jul-00	20-Jul-00	9-Nov-04	METHOD AND APPARATUS FOR DISTRIBUTED FAIRNESS ALGORITHM FOR DYNAMIC BANDWIDTH ALLOCATION ON A RING
10631RO	US	11/038,206	#EMPTY	Filed	20-Jul-00	21-Jan-05	#EMPTY	APPARATUS AND METHOD FOR OPTICAL COMMUNICATION PROTECTION
12594RO	US	09/629,624	6,810,210	Granted	31-Jul-00	31-Jul-00	26-Oct-04	COMMUNICATION PATH IMPAIRMENT DETECTION FOR DUPLEX OPTIC COMMUNICATION LINK
10602RO	US	09/630,681	6,920,287	Granted	1-Aug-00	1-Aug-00	19-Jul-05	SMART CONNECT
12016RO	US	09/630,190	6,768,718	Granted	1-Aug-00	1-Aug-00	27-Jul-04	COURTEOUS ROUTING
12016RO	US	10/639,237	#EMPTY	Filed	1-Aug-00	6-May-04	#EMPTY	COURTEOUS ROUTING
14983BA	US	09/631,645	7,321,932	Granted	15-Aug-00	15-Aug-01	22-Jan-08	SYSTEM, DEVICE AND METHOD FOR MANAGING CONNECTION ESTABLISHMENT AND RELATED SERVICES IN AN OPTICAL COMMUNICATION SYSTEM
13072BA	US	09/630,119	#EMPTY	Filed	15-Aug-00	15-Aug-01	#EMPTY	SYSTEM, DEVICE AND METHOD FOR MANAGING CONNECTION SERVICES IN AN OPTICAL COMMUNICATION SYSTEM
14984BA	US	09/630,097	#EMPTY	Filed	15-Aug-00	15-Aug-01	#EMPTY	SYSTEM, DEVICE AND METHOD FOR MANAGING CONNECTION SERVICES IN AN OPTICAL COMMUNICATION SYSTEM
14985BA	US	09/630,095	#EMPTY	Filed	15-Aug-00	15-Aug-01	#EMPTY	SYSTEM, DEVICE AND METHOD FOR MANAGING CONNECTION QUALITY IN AN OPTICAL COMMUNICATION SYSTEM
12610ID	US	09/642,121	6,663,849	Granted	18-Aug-00	18-Aug-00	27-Jan-04	OPTICAL COMMUNICATIONS NETWORK
12889RO	US	09/644,648	6,545,850	Granted	24-Aug-00	24-Aug-00	8-Apr-03	BACKPLANE POWER LANDING SYSTEM
12923RO	US	09/635,586	6,570,762	Granted	24-Aug-00	24-Aug-01	27-May-03	TELECOMMUNICATIONS SYSTEM
12642ID	US	09/648,151	6,771,810	Granted	25-Aug-00	25-Aug-00	3-Aug-04	OPTICAL BIT INTERLEAVING
12738RO	US	09/652,397	6,915,348	Granted	14-Sep-00	14-Sep-00	5-Jul-05	VALIDATION OF A CONNECTION BETWEEN ARBITRARY END-POINTS IN A COMMUNICATIONS NETWORK USING AN AUGMENTED SPE
12211RO	US	09/653,923	6,798,395	Granted	15-Sep-00	15-Sep-00	18-May-04	POINTER PROCESSING AND PATH BIP-8 COMPUTATION FOR LARGE CONCATENATED PAYLOADS
12211RO	US	10/787,200	7,046,699	Granted	15-Sep-00	27-Feb-04	16-May-06	POINTER PROCESSING AND PATH BIP-8 COMPUTATION FOR LARGE CONCATENATED PAYLOADS
12211RO	US	11/375,056	7,428,249	Granted	15-Sep-00	15-Mar-06	23-Sep-08	POINTER PROCESSING AND PATH BIP-8 COMPUTATION FOR LARGE CONCATENATED PAYLOADS
10784RO	US	09/655,994	6,928,054	Granted	20-Sep-00	20-Sep-00	9-Aug-05	APPARATUS, METHOD, MEDIA AND SIGNALS FOR CONNECTION-CLASS PARAMETER CONTROL OF PACKET FLOW
12742RO	US	09/655,288	6,563,359	Granted	20-Sep-00	20-Sep-00	13-May-03	TECHNIQUE FOR DISTRIBUTING COMMON PHASE CLOCK SIGNALS
12712RO	US	09/657,685	6,975,657	Granted	21-Sep-00	21-Sep-00	13-Dec-05	SYSTEM AND METHOD FOR GENERATION OF LARGE CONCATENATED PAYLOADS
13309CK	US	08/847,506	6,677,570	Granted	22-Sep-00	22-Sep-01	13-Jan-04	WIDE DYNAMIC RANGE OPTICAL POWER DETECTOR
12426RO	US	09/657,680	6,967,524	Granted	22-Sep-00	22-Sep-00	1-Nov-05	WDM CHANNEL EQUALIZATION IN ADD/DROP-CAPABLE OPTICAL NETWORKS

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
13296D	US	091671,862	6,778,782	Granted	27-Sep-00	27-Sep-00	17-Aug-04	DISPERSION COMPENSATION
11988RO	US	091671,252	6,510,066	Granted	28-Sep-00	28-Sep-00	21-Jan-03	HINGED REMOVABLE CONNECTOR MODULE
12531RO	US	091672,788	6,735,725	Granted	29-Sep-00	29-Sep-00	11-May-04	METHOD AND APPARATUS FOR PERFORMANCE MANAGEMENT OF MULTIPLEXED TRANSMISSION SYSTEM
12583RO	US	091679,389	6,452,716	Granted	5-Oct-00	5-Oct-00	17-Sep-02	AMPLITUDE MODULATION OF A PUMP LASER SIGNAL IN A DISTRIBUTED RAMAN AMPLIFIER
12754ID	US	091688,558	6,980,737	Granted	16-Oct-00	16-Oct-00	27-Dec-05	METHOD AND APPARATUS FOR RAPIDLY MEASURING OPTICAL TRANSMISSION CHARACTERISTICS IN PHOTONIC NETWORKS
13424RO	US	091750,085	7,288,433	Granted	24-Oct-00	29-Dec-00	30-Oct-07	METHOD AND SYSTEM FOR PROVIDING ROBUST CONNECTIONS IN NETWORKING APPLICATIONS
12719RO	US	091708,038	6,917,586	Granted	8-Nov-00	8-Nov-00	12-Jul-05	METHOD OF ADDRESSING PHYSICAL PROBLEMS OF A TOPOLOGICAL NETWORK USING A TOPOLOGY ENGINE
13457RO	US	091749,409	6,608,258	Granted	8-Nov-00	28-Dec-00	19-Aug-03	HIGH DATA RATE COAXIAL INTERCONNECT TECHNOLOGY BETWEEN PRINTED WIRING BOARDS
13357RO	US	101434,222	6,872,595	Granted	8-Nov-00	9-May-03	29-Mar-05	TECHNIQUE FOR ELECTRICALLY INCONNECTING SIGNALS BETWEEN CIRCUIT BOARDS
13908RO	US	091853,711	6,996,514	Granted	13-Nov-00	14-May-01	7-Feb-06	TIME SIMULATION TECHNIQUES TO DETERMINE NETWORK AVAILABILITY
12177RO	US	091718,381	6,687,723	Granted	24-Nov-00	24-Nov-00	3-Feb-04	TRIMODE ADAPTIVE FILTER AND METHOD
12493RO	US	091722,733	6,459,532	Granted	28-Nov-00	28-Nov-00	1-Oct-02	METHOD AND APPARATUS FOR OPTICAL SIGNAL TRANSMISSION USING MULTIPLE SUB SIGNALS OF NON-UNIFORM BANDWIDTH
12877RO	US	091722,339	7,149,432	Granted	28-Nov-00	28-Nov-00	12-Dec-08	METHOD AND APPARATUS FOR EQUALIZATION ACROSS PLURAL DATA CHANNELS
12862RO	US	091725,207	6,826,200	Granted	29-Nov-00	29-Nov-00	30-Nov-04	COMBINER/MUX SIMULATED BI-TRANSPARENCY IN FIBER OPTIC NETWORKS
12899RO	US	091730,550	6,922,532	Granted	7-Dec-00	7-Dec-00	26-Jul-05	OPTICAL PERFORMANCE MONITORING FOR DWDM NETWORKS
12094BA	US	091732,041	6,928,075	Granted	7-Dec-00	7-Dec-00	9-Aug-05	METHOD AND APPARATUS FOR AGGREGATING MULTICAST INTERFACES
12333RO	US	091731,762	6,445,204	Granted	8-Dec-00	8-Dec-00	3-Sep-02	APPARATUS FOR PROBING DIGITAL SIGNALS WITHIN PRINTED CIRCUIT BOARDS
12848ID	US	091734,976	6,895,023	Granted	11-Dec-00	11-Dec-00	17-May-05	PACKET-BASED OPTICAL COMMUNICATIONS NETWORKS
12616ID	US	091735,034	6,816,680	Granted	12-Dec-00	12-Dec-00	9-Nov-04	OPTICAL COMMUNICATIONS NETWORK AND NODES FOR FORMING SUCH A NETWORK
12558ID	US	091737,050	#EMPTY	Filed	14-Dec-00	14-Dec-00	#EMPTY	COMMUNICATION SYSTEM AND METHOD THEREFOR
12864RO	US	091738,982	6,426,876	Granted	19-Dec-00	19-Dec-00	30-Jul-02	CIRCUIT PACK HANDLING SYSTEM
12543RO	US	091739,000	6,398,863	Granted	19-Dec-00	19-Dec-00	28-May-02	LIQUID COOLING OF REMOVABLE ELECTRONIC MODULES BASED ON LOW PRESSURE APPLYING BIASING MECHANISMS
12688RO	US	101014,806	7,072,581	Granted	20-Dec-00	13-Dec-01	4-Jul-06	APPARATUS AND METHOD FOR SIGNAL RECOGNITION WITHIN WDM OPTICAL NODES
12965RO	US	091739,588	6,392,890	Granted	20-Dec-00	20-Dec-00	21-May-02	METHOD AND DEVICE FOR HEAT DISSIPATION IN AN ELECTRONICS SYSTEM
13298RO	US	091739,711	6,853,841	Granted	20-Dec-00	20-Dec-00	8-Feb-05	METHOD OF PROTECTING TRAFFIC IN A MESH NETWORK
11958RO	US	091742,229	7,000,025	Granted	21-Dec-00	21-Dec-00	14-Feb-06	MULTI-CHANNEL SHARING IN A HIGH-CAPACITY NETWORK
13098RO	US	091740,991	6,885,632	Granted	21-Dec-00	21-Dec-00	26-Apr-05	METHOD AND SYSTEM FOR SIGNAL DEGRADE (SD) INFORMATION PASSTHROUGH IN T-MUX SYSTEMS
13077RO	US	091740,942	6,834,304	Granted	21-Dec-00	21-Dec-00	21-Dec-04	METHOD AND APPARATUS FOR CREATING A NETWORK AUDIT REPORT
13266ID	US	091745,882	6,938,486	Granted	21-Dec-00	21-Dec-00	28-Dec-04	SWITCHING OF LOW ORDER DATA STRUCTURES USING A HIGH ORDER SWITCH
13876ID	US	091751,884	6,528,871	Granted	22-Dec-00	22-Dec-00	30-Sep-03	FIBER FUSE PROTECTOR
13864ID	US	091747,679	6,840,043	Granted	22-Dec-00	22-Dec-00	26-Oct-03	FIBER FUSE PROTECTION
13158ID	US	091747,588	#EMPTY	Filed	22-Dec-00	22-Dec-00	#EMPTY	NETWORK PROXY APPARATUS AND METHOD
13897ID	US	091771,802	6,704,890	Granted	22-Dec-00	25-Jan-01	9-Mar-04	SKELWICK COMPENSATING INTERFACE FOR OPERATION WITH ARBITRARY DATA
13875ID	US	091747,659	6,526,192	Granted	22-Dec-00	22-Dec-00	25-Feb-03	FIBER FUSE PROTECTION
13045RO	US	101027,249	#EMPTY	Filed/Co-pending	22-Dec-00	20-Dec-01	#EMPTY	MEASURING OPTICAL SIGNAL POWER IN AN OPTICAL SYSTEM
12848RO	US	091746,013	6,925,484	Granted	26-Dec-00	26-Dec-00	2-Aug-05	METHOD AND APPARATUS FOR OPTICAL NETWORK MAINTENANCE TOOL
12804RO	US	091745,525	7,127,056	Granted	26-Dec-00	26-Dec-00	24-Oct-06	DYNAMIC ADAPTATION TO CONGESTION IN CONNECTION-ORIENTED NETWORKS
12909RO	US	091745,867	6,788,896	Granted	26-Dec-00	26-Dec-00	7-Sep-04	TECHNIQUE FOR ALL-OPTICAL PACKET SWITCHING
12451RO	US	091749,568	6,637,426	Granted	28-Dec-00	28-Dec-00	3-Feb-04	OUT OF BAND FIBER CHARACTERIZATION USING OPTICAL AMPLIFIER LIGHT SOURCES
133165S	US	091753,339	7,304,948	Granted	29-Dec-00	25-Dec-00	4-Dec-07	CONGESTION CONTROL FOR SIGNALING TRANSPORT PROTOCOLS
12959ID	US	091754,041	6,958,995	Granted	29-Dec-00	29-Dec-00	25-Oct-05	NON-BLOCKING HIGH CAPACITY FINE GRAIN SWITCH
133165S	US	11923,840	#EMPTY	Filed	29-Dec-00	25-Oct-07	#EMPTY	CONGESTION CONTROL FOR SIGNALING TRANSPORT PROTOCOLS
13654RO	US	091773,707	6,580,498	Granted	2-Feb-01	2-Feb-01	17-Jun-03	OPTICAL RETURN LOSS DETECTOR FOR OPTICAL TRANSMISSION SYSTEMS
14988BA	US	091933,338	6,516,106	Granted	9-Feb-01	20-Aug-01	4-Feb-03	SUBTRACKING ANALOG NOISE FROM AN OPTICAL COMMUNICATION CHANNEL USING STABLE, NON-ABSORBING OPTICAL HARD LIMITERS



Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
13730RO	US	09/782,082	6,941,359	Granted	14-Feb-01	14-Feb-01	6-Sep-05	METHOD AND SYSTEM FOR VISUALLY REPRESENTING NETWORK CONFIGURATIONS
12571RO	US	09/789,559	6,955,019	Granted	22-Feb-01	22-Feb-01	25-Oct-05	HARMONIC INTERLEAVING OF FORWARD ERROR CORRECTED (FEC) SIGNALS
12532RO	US	09/800,523	7,046,700	Granted	8-Mar-01	8-Mar-01	16-May-06	SPECTRALLY INVISIBLE FRAMING HIGH ERROR RATE DATA SIGNALS
13493ID	US	09/804,390	6,907,197	Granted	12-Mar-01	12-Mar-01	14-Jun-05	METHOD AND APPARATUS FOR MEASURING AND ESTIMATING OPTICAL SIGNAL TO NOISE RATIO IN PHOTONIC NETWORKS
13579RO	US	09/809,016	6,883,169	Granted	12-Mar-01	12-Mar-01	19-Apr-05	APPARATUS FOR MANAGING THE INSTALLATION OF SOFTWARE ACROSS A NETWORK
13597RO	US	09/808,173	6,856,592	Granted	15-Mar-01	15-Mar-01	15-Feb-05	METHOD OF PROVIDING RESTORATION ROUTES IN A MESH NETWORK
14354RO	US	29/138,544	0475,041	Granted	16-Mar-01	16-Mar-01	27-May-03	COMMUNICATION CABINET
14333RO	US	10/087,286	6,786,647	Granted	15-Mar-02	7-Sep-04	7-Sep-04	MECHANICALLY CONSTRAINED CONNECTION
14390RO	US	10/025,496	7,206,309	Granted	27-Mar-01	26-Dec-01	17-Apr-07	HIGH AVAILABILITY PACKET FORWARDING APPARATUS AND METHOD
13646RO	US	09/822,190	6,907,560	Granted	2-Apr-01	14-Jun-05	14-Jun-05	FORWARD ERROR CORRECTION (FEC) ON A LINK BETWEEN ICS
13623ID	US	09/825,064	6,714,702	Granted	3-Apr-01	9-Apr-01	30-Mar-04	OPTICAL DEMULTIPLEXING SYSTEM AND METHOD
13567RO	US	10/473,799	7,221,820	Granted	9-Apr-01	19-Mar-04	22-May-07	HIGH SPECTRAL EFFICIENCY, HIGH PERFORMANCE OPTICAL MUX AND DEMUX ARCHITECTURE
14189RO	US	29/140,490	0490,803	Granted	19-Apr-01	19-Apr-01	1-Jun-04	COMMUNICATIONS CABINET
13805RO	US	09/842,837	6,894,905	Granted	27-Apr-01	27-Apr-01	17-May-05	COMMUNICATION DEVICE PLANE HAVING A HIGH-SPEED BUS
14143ID	US	09/846,094	6,525,869	Granted	30-Apr-01	30-Apr-01	25-Feb-03	RAMAN AMPLIFIER
14355ID	US	09/846,916	6,473,223	Granted	1-May-01	1-May-01	29-Oct-02	RAMAN AMPLIFIER
13428RO	US	09/852,777	6,839,523	Granted	11-May-01	11-May-01	4-Jan-05	MONITORING DISTRIBUTED GAIN IN AN OPTICAL TRANSMISSION SYSTEM
13755ID	US	09/862,864	7,167,442	Granted	22-May-01	22-May-01	23-Jan-07	HITLESS PROTECTION SWITCHING
13755ID	US	10/154,173	7,193,964	Granted	22-May-01	22-May-02	20-Mar-07	HITLESS PROTECTION SWITCHING
13891ID	US	09/864,843	6,824,928	Granted	24-May-01	24-May-01	23-Sep-03	RAMAN AMPLIFICATION
13867ID	US	09/867,176	6,714,701	Granted	29-May-01	29-Mar-04	30-Mar-04	OPTICAL SWITCH USING MICROMIRRORS AND METHOD OF TESTING THE SAME
13393ID	US	09/867,178	#EMPTY	Abandoned	29-May-01	29-May-01	#EMPTY	LINK MANAGEMENT IN OPTICAL NETWORKS
13593RO	US	09/870,634	6,650,990	Granted	1-Jun-01	1-Jun-01	9-Dec-03	OPTICAL AMPLIFICATION AND RECEIVING SYSTEM AND METHOD
14155RO	US	09/873,389	6,897,187	Granted	5-Jun-01	5-Jun-01	24-Feb-04	METHOD AND APPARATUS FOR RAMAN AMPLIFIER GAIN CONTROL
13601RO	US	09/875,154	7,245,582	Granted	7-Jun-01	7-Jun-01	17-Jul-07	PROTECTION SWITCHING IN A MULTI-STAGE SWITCH FABRIC
13473RO	US	09/896,557	#EMPTY	Abandoned	27-Jun-01	20-Sep-01	#EMPTY	CONTROL OF PARAMETERS IN A GLOBAL OPTICAL CONTROLLER
13473RO	US	11/593,166	#EMPTY	Filed	27-Jun-01	15-Sep-06	#EMPTY	CONTROL OF PARAMETERS IN A GLOBAL OPTICAL CONTROLLER
13799ID	US	09/894,612	6,999,470	Granted	28-Jun-01	28-Jun-01	14-Feb-06	METHODS AND APPARATUS FOR TRANSMITTING SYNCHRONOUS DATA
13527RO	US	09/892,569	7,027,781	Granted	28-Jun-01	28-Jun-01	11-Apr-06	USER-CONSTRAINED OPTICAL ROUTE FLOODING SYSTEM AND METHOD
13465RO	US	09/893,747	6,512,377	Granted	29-Jun-01	28-Jun-01	28-Jun-01	METHOD AND APPARATUS FOR EXTRACTION OF VIA PARASITICS
13390RO	US	10/191,488	6,813,305	Granted	1-Jul-01	10-Jul-02	2-Nov-04	METHOD AND APPARATUS FOR OPTICAL WAVELENGTH CONVERSION
14177RO	US	09/874,907	6,966,342	Granted	16-Jul-01	12-Oct-01	7-Feb-06	CONTROL SYSTEM FOR AN AGILE OPTICAL NETWORK
14739RO	US	10/107,044	7,372,803	Granted	24-Jul-01	28-Mar-02	13-May-08	APPARATUS AND METHOD FOR ESTABLISHMENT AND PROTECTION OF CONNECTIONS WITHIN MESH NETWORKS
14211RO	US	09/961,297	7,190,913	Granted	25-Jul-01	25-Sep-01	20-Feb-07	TRANSPARENT ERROR COUNT TRANSFER METHOD AND APPARATUS
13812RO	US	09/975,965	6,499,812	Granted	31-Jul-01	15-Oct-01	9-Dec-02	TEMPERATURE-COMPENSATED SMALL SIGNAL PEAK DETECTOR
14328ID	US	09/975,830	5,842,283	Granted	22-Aug-01	12-Oct-01	11-Jan-05	GENERATION OF VARIABLE DIFFERENTIAL GROUP DELAY
13501RO	US	09/975,985	7,305,183	Granted	27-Aug-01	15-Oct-01	4-Dec-07	MEASUREMENT OF POLARIZATION DEPENDENT LOSS IN AN OPTICAL TRANSMISSION SYSTEM
13658ID	US	09/993,822	6,522,811	Granted	27-Aug-01	8-Nov-01	18-Feb-03	ARRAYED WAVEGUIDE GRATING
140628A	US	09/952,628	7,127,180	Granted	14-Sep-01	14-Sep-01	24-Oct-06	SYSTEM, DEVICE, AND METHOD FOR SUPPORTING CUT-THROUGH PATHS IN AN OPTICAL COMMUNICATION SYSTEM
140828A	US	11/592,974	#EMPTY	Filed	14-Sep-01	15-Sep-06	#EMPTY	SYSTEM, DEVICE, AND METHOD FOR SUPPORTING CUT-THROUGH PATHS IN AN OPTICAL COMMUNICATION SYSTEM
14183RO	US	09/972,666	7,023,942	Granted	9-Oct-01	9-Oct-01	4-Apr-06	METHOD AND APPARATUS FOR DIGITAL DATA SYNCHRONIZATION
14748ID	US	09/973,650	#EMPTY	Filed	9-Oct-01	9-Oct-01	#EMPTY	DISTORTION MEASUREMENT IN OPTICAL COMMUNICATION SYSTEMS
14027RO	US	09/975,014	5,556,744	Granted	12-Oct-01	12-Oct-01	29-Apr-03	REDUCTION OF DISPERSION EFFECTS IN OPTICAL TRANSMISSION FIBRE SYSTEMS
13521ID	US	09/975,841	#EMPTY	Filed	12-Oct-01	12-Oct-01	#EMPTY	BANDWIDTH ALLOCATION IN A SYNCHRONOUS TRANSMISSION NETWORK FOR PACKET ORIENTED SIGNALS
13689RO	US	09/984,858	7,012,984	Granted	31-Oct-01	31-Oct-01	14-Mar-06	METHOD AND APPARATUS FOR DETECTING A NETWORK TIMING LOOP
14457ID	US	10/008,080	5,937,821	Granted	2-Nov-01	2-Nov-01	30-Aug-05	OPTICAL POWER TRANSPARENT MONITOR
14568ID	US	10/008,081	#EMPTY	Filed	2-Nov-01	2-Nov-01	#EMPTY	COMMUNICATION NETWORKS
14560RO	US	09/996,548	6,859,865	Granted	9-Nov-01	9-Nov-01	22-Feb-05	SYSTEM AND METHOD FOR REMOVING LATENCY EFFECTS IN ACKNOWLEDGED DATA TRANSFERS
14371RO	US	09/987,788	7,143,161	Granted	16-Nov-01	16-Nov-01	28-Nov-06	TANDEM CONNECTION MONITORING PARALLEL PROCESSING

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
14934D	US	091990.713	6,536,806	Granted	21-Nov-01	21-Nov-01	25-Mar-03	SEMICONDUCTOR OPTICAL AMPLIFIER
12288RO	US	091992.410	7,197,031	Granted	25-Nov-01	26-Nov-01	27-Mar-07	CROSS-CONNECTION OF HIGH BANDWIDTH SIGNAL TRAFFIC ACROSS INDEPENDENT PARALLEL SHELVES
14589D	US	101006.472	6,587,622	Granted	4-Dec-01	4-Dec-01	1-Jul-03	ORIENTATION SWITCHABLE OPTICAL FIBRES
14913FR	US	101054.208	7,221,675	Granted	7-Dec-01	22-Jan-02	22-May-07	ADDRESS RESOLUTION METHOD FOR A VIRTUAL PRIVATE NETWORK, AND CUSTOMER EDGE DEVICE FOR IMPLEMENTING THE METHOD
13732RO	US	101012.478	6,741,140	Granted	12-Dec-01	12-Dec-01	25-May-04	CIRCUIT FOR RECEIVING AN AC COUPLED BROADBAND SIGNAL
13468RO	US	101014.353	7,155,128	Granted	14-Dec-01	14-Dec-01	26-Dec-06	DECORRELATION OF WDM SIGNALS
14026RO	US	101020.805	7,009,978	Granted	18-Dec-01	18-Dec-01	7-Mar-06	COMMUNICATIONS INTERFACE FOR PROVIDING A PLURALITY OF COMMUNICATION CHANNELS TO A SINGLE PORT ON A PROCESSOR
13689RO	US	101021.054	6,938,187	Granted	19-Dec-01	19-Dec-01	30-Aug-05	TANDEM CONNECTION MONITORING
13676RO	US	101022.355	6,687,044	Granted	20-Dec-01	20-Dec-01	9-Feb-04	CONNECTION DISCOVERY FOR OPTICAL AMPLIFIER SYSTEMS
14663RO	US	101079.915	7,156,477	Granted	20-Dec-01	22-Feb-02	2-Jan-07	DATA COMMUNICATION APPARATUS WITH DISTRIBUTED TRAFFIC PROTECTION SWITCHING SYSTEM
14920D	US	101034.036	7,146,098	Granted	20-Dec-01	20-Dec-01	5-Dec-06	OPTICAL PROTECTION SCHEME
14694RO	US	101119.765	7,167,481	Granted	20-Dec-01	11-Apr-02	23-Jan-07	TECHNIQUE FOR COMPUTING PATHWAYS IN A MULTI-STAGE SWITCH FABRIC THROUGH EXPLOITATION OF SYMMETRICAL LINKS
14105D	US	101032.412	7,013,349	Granted	21-Dec-01	21-Dec-01	14-Mar-06	SWITCH SUBTENDING IN A SYNCHRONOUS TRANSMISSION SYSTEM
14678RO	US	101036.921	7,068,608	Granted	21-Dec-01	21-Dec-01	27-Jun-06	AUTOMATED METHOD FOR CONNECTION DISCOVERY WITHIN CONSOLIDATED NETWORK ELEMENTS
14372RO	US	101025.795	7,062,165	Granted	26-Dec-01	26-Dec-01	13-Jun-06	RECEIVER MONITORING AND OPTIMIZATION USING FORWARD ERROR CORRECTION INFORMATION
14526RO	US	101025.628	7,149,975	Granted	26-Dec-01	26-Dec-01	12-Dec-06	OPTICAL NETWORK ADMINISTRATION GRAPHICAL USER INTERFACE
13696RO	US	101029.282	7,340,174	Granted	26-Dec-01	26-Dec-01	4-Mar-08	PROGRAMMABLE OADM WITH CHROMATIC DISPERSION, DISPERSION SLOPE AND AMPLITUDE RIPPLE COMPENSATION, AND METHOD
14618RO	US	101029.194	7,203,743	Granted	26-Dec-01	26-Dec-01	10-Apr-07	HIERARCHICAL TREE-BASED PROTECTION SCHEME FOR MESH NETWORKS
14618RO	US	111617.296	#EMPTY	Filed	26-Dec-01	26-Dec-06	#EMPTY	HIERARCHICAL TREE-BASED PROTECTION SCHEME FOR MESH NETWORKS
14570D	US	101051.928	#EMPTY	Filed	18-Jan-02	18-Jan-02	#EMPTY	DATA DRIVEN CONNECTION RULE CONSTRAINT ENGINE APPLIED TO TRAIL MANAGEMENT
14667RO	US	101059.344	6,917,759	Granted	31-Jan-02	31-Jan-02	12-Jul-05	SHARED MESH SIGNALING ALGORITHM AND APPARATUS
15230RM	US	101195.448	7,450,497	Granted	31-Jan-02	16-Jul-02	11-Nov-08	SHARED MESH SIGNALING METHOD AND APPARATUS
15230RM	US	121244.373	#EMPTY	Filed	31-Jan-02	2-Oct-08	#EMPTY	SHARED MESH SIGNALING METHOD AND APPARATUS
14200RO	US	101057.351	7,299,807	Granted	7-Feb-02	7-Feb-02	3-Jul-07	VARIABLE CLAMP EQUALIZATION METHOD AND APPARATUS
14126RO	US	111545.334	7,272,308	Granted	8-Feb-02	12-Oct-06	16-Sep-07	METHOD OF WDM CHANNEL TAGGING AND MONITORING, AND APPARATUS
14128RO	US	101067.910	#EMPTY	Filed	8-Feb-02	8-Feb-02	#EMPTY	METHOD OF WDM CHANNEL TAGGING AND MONITORING, AND APPARATUS
14841RO	US	101068.937	5,590,700	Granted	11-Feb-02	11-Feb-02	8-Jul-03	ADAPTIVE OPTICAL AMPLIFIER CONTROL
14665RO	US	101079.559	7,260,102	Granted	22-Feb-02	22-Feb-02	21-Aug-07	TRAFFIC SWITCHING USING MULTI-DIMENSIONAL PACKET CLASSIFICATION
14666RO	US	101094.201	7,406,033	Granted	28-Feb-02	28-Feb-02	29-Jul-08	METHODS, DEVICES AND SOFTWARE FOR COMBINING PROTECTION PATHS ACROSS A COMMUNICATIONS NETWORK
14730RO	US	101094.310	6,917,763	Granted	5-Mar-02	5-Mar-02	12-Jul-05	TECHNIQUE FOR VERIFYING FIBER CONNECTIVITY IN A PHOTONIC NETWORK
14540RO	US	101094.656	#EMPTY	Filed	12-Mar-02	12-Mar-02	#EMPTY	SYSTEM AND METHOD FOR AUTOMATIC NEIGHBOR DISCOVERY
14700D	US	101096.033	7,190,668	Granted	13-Mar-02	13-Mar-02	13-Mar-07	IDENTIFICATION OF PRIORITY FAULTS IN A TRANSPORT NETWORK
14990D	US	101097.291	7,023,842	Granted	14-Mar-02	14-Mar-02	4-Apr-06	SWITCH MODEL COMPONENT
14064RO	US	101097.586	7,475,126	Granted	15-Mar-02	15-Mar-02	6-Jan-09	METHOD AND APPARATUS FOR SYSTEM LINEUP AND TESTING
14610RO	US	101254.861	7,447,228	Granted	15-Mar-02	26-Sep-02	4-Nov-08	TECHNIQUE FOR DELIVERING BURSTED NATIVE MEDIA DATA FLOWS OVER AN ETHERNET PHYSICAL LAYER
15856RO	US	101238.881	7,281,326	Granted	20-Mar-02	8-Dec-03	16-Oct-07	TECHNIQUE FOR ROUTING CONDUCTIVE TRACES BETWEEN A PLURALITY OF ELECTRONIC COMPONENTS MULTILAYER SIGNAL ROUTING DEVICE
15162D	US	101104.788	6,868,201	Granted	22-Mar-02	22-Mar-02	15-Mar-05	RECONFIGURABLE WDM MUX/DEMUX/ADM
15022RO	US	101103.860	#EMPTY	Filed	25-Mar-02	25-Mar-02	#EMPTY	TECHNIQUE FOR MEASURING SIGNAL QUALITY AND POWER LOSS IN DARK FIBERS OF A PHOTONIC NETWORK
14512RO	US	101107.472	7,124,369	Granted	28-Mar-02	28-Mar-02	17-Oct-06	MULTILAYER PATH EXPLORER
14925RO	US	101108.789	6,748,154	Granted	28-Mar-02	28-Mar-02	8-Jun-04	OPTICAL MODULE ACCESS TRAY
15038RO	US	101109.120	6,765,308	Granted	28-Mar-02	28-Mar-02	31-Aug-04	SPECTRAL CONDITIONING SYSTEM AND METHOD
15048D	US	101109.216	6,687,050	Granted	28-Mar-02	28-Mar-02	3-Feb-04	AMPLIFIER GAIN ERROR
15213FR	US	101195.101	#EMPTY	Filed	28-Mar-02	28-Jun-02	#EMPTY	SIGNALING METHODS FOR A TELECOMMUNICATION SYSTEM AND DEVICES FOR IMPLEMENTING SUCH METHODS
14636D	US	101109.903	7,095,923	Granted	29-Mar-02	29-Mar-02	22-Aug-06	WAVELENGTH SELECTIVE OPTICAL FILTER
14943RO	US	101113.827	6,842,561	Granted	29-Mar-02	29-Mar-02	11-Jan-05	OPTICAL PERFORMANCE MONITORING SCHEME

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
15027ID	US	10105949	6,907,549	Granted	29-Mar-02	29-Mar-02	14-Jun-05	ERROR DETECTION IN COMMUNICATION SYSTEMS
15065ID	US	10108917	6,959,149	Granted	29-Mar-02	29-Mar-02	25-Oct-05	POWER BALANCING IN DWDM OPTICAL NETWORKS
15008RO	US	10115081	7,020,226	Granted	4-Apr-02	4-Apr-02	28-Mar-06	IQ DISTORTION COMPENSATION FOR THE RECEPTION OF OFDM SIGNALS
15385RO	US	101628884	7,356,256	Granted	15-May-02	30-Jul-03	8-Apr-08	DIGITAL PERFORMANCE MONITORING FOR AN OPTICAL COMMUNICATIONS SYSTEM
15251RO	US	101145035	7,457,538	Granted	15-May-02	15-May-02	25-Nov-08	DIGITAL PERFORMANCE MONITORING FOR AN OPTICAL COMMUNICATIONS SYSTEM
15119RO	US	11486485	#EMPTY	Filed	14-Jun-02	14-Jul-06	#EMPTY	COMMUNICATION BETWEEN CALL CONTROLLERS BY AMENDING CALL PROCESSING MESSAGES
15119RO	US	101170701	#EMPTY	Filed	14-Jun-02	14-Jun-02	#EMPTY	COMMUNICATION BETWEEN CALL CONTROLLERS BY AMENDING CALL PROCESSING MESSAGES
141385RO	US	10401552	7,339,889	Granted	20-Jun-02	31-Mar-03	4-Mar-08	CONTROL PLANE ARCHITECTURE FOR AUTOMATICALLY SWITCHED OPTICAL NETWORK
15467RM	US	10445985	7,010,210	Granted	21-Jun-02	27-May-03	7-Mar-06	ENTRY AND INTERNAL FIBER CLIPS FOR A FIBER MANAGEMENT SYSTEM
15298ID	US	10180568	7,035,501	Granted	26-Jun-02	26-Jun-02	1-Aug-06	COHERENT OPTICAL RECEIVER
15420ID	US	10180595	7,471,903	Granted	26-Jun-02	26-Jun-02	30-Dec-03	OPTICAL COMMUNICATIONS SYSTEM
15350ID	US	10180575	6,666,137	Granted	26-Jun-02	26-Jun-02	23-Dec-03	FEED FORWARD OPTICAL POWER CONTROL
14836ID	US	10185135	7,382,777	Granted	27-Jun-02	27-Jun-02	22-Apr-08	CONCATENATED TRANSMISSION OF SYNCHRONOUS DATA
15275ID	US	10185110	7,224,514	Granted	27-Jun-02	27-Jun-02	29-May-07	USING GAIN TILT FOR LOCAL COMPENSATION OF UNWANTED POWER GRADIENTS
15257ID	US	10185136	6,858,586	Granted	28-Jun-02	28-Jun-02	22-Feb-05	3 FIBRE1 AND Q COUPLER
15031RO	US	10189018	7,525,907	Granted	5-Jul-02	5-Jul-02	28-Apr-09	METHOD, DEVICE AND SOFTWARE FOR ESTABLISHING PROTECTION PATHS ON DEMAND AND REVERSE PROTECTION SWITCHING IN A COMMUNICATIONS NETWORK
13504RO	US	10191246	6,760,148	Granted	8-Jul-02	8-Jul-02	6-Jul-04	COMPENSATION OF POLARIZATION DEPENDENT LOSS
14820RO	US	10189458	6,798,563	Granted	8-Jul-02	8-Jul-02	28-Sep-04	METHOD AND DEVICE FOR REDUCING PUMP NOISE TRANSFER IN RAMAN AMPLIFICATION
15322RO	US	10190528	#EMPTY	Filed	9-Jul-02	9-Jul-02	#EMPTY	METHOD AND APPARATUS BACKWARD AND FORWARD COMPATIBILITY IN DEVICE MANAGEMENT
14872RO	US	10162471	#EMPTY	Filed	23-Jul-02	23-Jul-03	#EMPTY	METHOD AND APPARATUS FOR DETERMINING SIGNAL VIABILITY IN OPTICAL NETWORKS
14857RO	US	10207913	7,327,689	Granted	31-Jul-02	31-Jul-02	5-Feb-06	DATA PROCESSING EQUIPMENT WITH MULTI-FUNCTION TRACE MESSAGE PROCESSOR
15124RO	US	10207810	7,436,763	Granted	31-Jul-02	31-Jul-02	14-Oct-08	DATA COMMUNICATION APPARATUS WITH A DUAL MODE PROTECTION SWITCHING SYSTEM
15349RO	US	10227846	6,894,169	Granted	19-Aug-02	27-Aug-02	17-May-05	ZWITTERIONIC CHROMOPHORES AND POLYMERS CONTAINING SUCH CHROMOPHORES
15308RO	US	10231030	6,894,832	Granted	30-Aug-02	30-Aug-02	17-May-05	TECHNIQUE FOR ADAPTIVELY CONTROLLING GAIN IN AN OPTICAL AMPLIFIER
15501ID	US	10280177	#EMPTY	Filed	30-Aug-02	24-Oct-02	#EMPTY	SYNCHRONOUS TRANSMISSION NETWORK NODE
15440RO	US	10241423	7,376,085	Granted	12-Sep-02	12-Sep-02	20-May-08	CONSTRAINT BASED ROUTING WITH NON-TRANSITIVE EXCEPTIONS
15281RO	US	10441025	#EMPTY	Filed	18-Sep-02	20-May-03	#EMPTY	TECHNIQUE FOR TRANSMITTING AN OPTICAL SIGNAL THROUGH AN OPTICAL NETWORK
14875RO	US	10246389	7,130,368	Granted	19-Sep-02	19-Sep-02	31-Oct-06	CLOCK RECOVERY USING A DIRECT SMOOTHING PROCESS
15429ID	US	10247172	7,447,239	Granted	19-Sep-02	19-Sep-02	4-Nov-08	TRANSMISSION PATH MONITORING
15532RO	US	101686372	7,489,407	Granted	20-Sep-02	19-Sep-03	3-Mar-09	SYSTEM AND METHOD FOR MANAGING AN OPTICAL NETWORKING SERVICE
15932RO	US	12930488	#EMPTY	Filed	20-Sep-02	22-Feb-09	#EMPTY	SERVICE MANAGEMENT CHANNEL FOR MANAGING AN OPTICAL NETWORKING SERVICE
15458ID	US	10254109	7,184,672	Granted	25-Sep-02	25-Sep-02	27-Feb-07	ANALOGUE MAINTENANCE DETECTION
14810RO	US	10291602	7,263,551	Granted	25-Sep-02	12-Nov-02	16-Oct-07	TECHNIQUE FOR IMPLEMENTING AN ADD/DROP COLLECTOR FOR SUPPORTING DEDICATED AND SHARED TIMESLOTTING
15545ID	US	10251089	7,400,593	Granted	30-Sep-02	30-Sep-02	15-Jul-08	DETERMINING USING VALUE OF TRAFFIC RELYING ON A GIVEN COMPONENT OF A COMMUNICATIONS NETWORK
15575RO	US	10282944	7,382,984	Granted	3-Oct-02	3-Oct-02	3-Jun-08	ELECTRICAL DOMAIN COMPENSATION OF OPTICAL DISPERSION IN AN OPTICAL COMMUNICATIONS SYSTEM
16290RO	US	10677288	7,376,358	Granted	3-Oct-02	3-Oct-02	20-May-08	LOCATION SPECIFIC OPTICAL MONITORING
15277RO	US	10252968	6,795,594	Granted	3-Oct-02	3-Oct-02	21-Sep-04	DIABINARY MODULATION SCHEME FOR A MACH-ZEHNDER OPTICAL MODULATOR
15575RO	US	10531314	#EMPTY	Filed	3-Oct-02	10-Sep-07	#EMPTY	ELECTRICAL DOMAIN COMPENSATION OF OPTICAL DISPERSION IN AN OPTICAL COMMUNICATIONS SYSTEM
15249RO	US	10278791	#EMPTY	Filed	25-Oct-02	25-Oct-02	#EMPTY	METHOD AND APPARATUS FOR PROVIDING DATA CONFIDENTIALLY FOR VERY HIGH-SPEED MULTIPLE-WAVELENGTH OPTICAL DATA LINKS
15269RO	US	10379611	6,869,437	Granted	5-Nov-02	5-Mar-03	22-Feb-05	METHOD AND SYSTEM FOR EXTENDING THE REACH OF A DATA COMMUNICATION CHANNEL USING A FLOW CONTROL INTERCEPTION DEVICE
15269RO	US	11061405	7,208,445	Granted	5-Nov-02	18-Feb-05	24-Apr-07	METHOD AND SYSTEM FOR EXTENDING THE REACH OF A DATA COMMUNICATION CHANNEL USING A FLOW CONTROL INTERCEPTION DEVICE

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
15422RO	US	10368596	6,986,677	Granted	25-Nov-02	20-Feb-03	7-Feb-06	METHOD AND APPARATUS FOR PROTECTING MEMORY STACKS
15578RO	US	10367466	7,362,965	Granted	2-Dec-02	2-Dec-02	3-Jun-08	ELECTRICAL DOMAIN MITIGATION OF POLARIZATION DEPENDENT EFFECTS IN AN OPTICAL COMMUNICATIONS SYSTEM
15611ID	US	10324706	7,082,554	Granted	28-Dec-02	20-Dec-02	13-Jun-06	TRAFFIC MONITORING IN A TRANSPORT NETWORK
15662RO	US	10764516	#EMPTY	Filed	27-Jan-03	27-Jan-04	#EMPTY	METHODS FOR CO-MODELING AND ANALYZING PACKET NETWORKS OPERATING OVER OPTICAL NETWORKS
15648RO	US	10769209	7,315,695	Granted	3-Feb-03	30-Jan-04	1-Jan-08	METHOD AND APPARATUS FOR DEFINING OPTICAL BROADBAND SERVICES ON AN OPTICAL COMMUNICATION NETWORK
15692SS	US	10690713	7,321,730	Granted	6-Feb-03	23-Jun-03	22-Jan-08	METHOD AND APPARATUS FOR THE TRANSMISSION FAULT DETECTION IN AN ACCESS NETWORK
15640ID	US	10799884	6,892,362	Granted	20-Feb-03	20-Feb-03	10-May-05	HYBRID STATE MACHINE
15609RO	US	10434968	#EMPTY	Filed	4-Mar-03	9-May-03	#EMPTY	CYCLE-BASED RESTORATION IN MESH NETWORKS UTILIZING BANDWIDTH AND FLOW CONSIDERATIONS
15452RO	US	10378637	6,975,449	Granted	5-Mar-03	5-Mar-03	13-Dec-05	FAST, CONTINUOUSLY VARIABLE AUTOMATIC GAIN CONTROL FOR OPTICAL AMPLIFIERS
15878RO	US	10797271	#EMPTY	Filed	10-Mar-03	10-Mar-04	#EMPTY	DYNAMIC CONFIGURATION FOR A MODULAR INTERCONNECT
15525RO	US	10791049	7,391,793	Granted	18-Mar-03	18-Mar-03	24-Jun-08	TANDEM CONNECTION MONITORING IMPLEMENTING SINK FUNCTIONALITY ON EGRESS WITHOUT AN EGRESS POINTER PROCESSOR
15612RO	US	10405286	#EMPTY	Filed	3-Apr-03	3-Apr-03	#EMPTY	ELECTRICAL DOMAIN COMPENSATION OF NON-LINEAR EFFECTS IN AN OPTICAL COMMUNICATIONS SYSTEM
15553ID	US	10425809	7,266,310	Granted	29-Apr-03	29-Apr-03	4-Sep-07	DIGITAL COMPENSATION FOR OPTICAL TRANSMISSION SYSTEM
15559ID	US	10425808	7,272,327	Granted	29-Apr-03	29-Apr-03	18-Sep-07	MULTI-DETECTOR DETECTION OF OPTICAL SIGNALS
15766ID	US	10425810	7,209,670	Granted	29-Apr-03	24-Apr-07	24-Apr-07	POLARIZATION DIVERSITY RECEIVER FOR OPTICAL TRANSMISSION SYSTEM
15616RO	US	10436129	#EMPTY	Filed	19-May-03	19-May-03	#EMPTY	TRAFFIC DRIVEN VARIABLE BANDWIDTH OPTICAL TRANSMISSION
15513RO	US	10448227	6,975,517	Granted	14-May-03	30-May-03	13-Dec-05	EMBEDDED PREEMPHASIS AND DEEMPHASIS CIRCUITS
16117RO	US	10728894	#EMPTY	Filed	5-Jun-03	8-Dec-03	#EMPTY	CONTACT MAPPING USING CHANNEL ROUTING
15319RO	US	10457527	7,209,664	Granted	10-Jun-03	10-Jun-03	24-Apr-07	FREQUENCY AGILE TRANSMITTER AND RECEIVER ARCHITECTURE FOR DWDM SYSTEMS
15319RO	US	115683109	7,526,211	Granted	10-Jun-03	7-Mar-07	26-Apr-09	FREQUENCY AGILE TRANSMITTER AND RECEIVER ARCHITECTURE FOR DWDM SYSTEMS
15691RO	US	10457528	6,761,537	Granted	10-Jun-03	10-Jun-03	24-Aug-04	HIGH SPEED DIGITAL TO ANALOG CONVERTER
15317RO	US	10457555	#EMPTY	Filed	10-Jun-03	10-Jun-03	#EMPTY	FLEXIBLE BANDED MULTIMUX ARCHITECTURE FOR WDM SYSTEMS
15228RO	US	10463590	7,162,116	Granted	19-Jun-03	18-Jun-03	9-Jan-07	DEPOPULATED SWITCHABLE MICRO ELECTRO-MECHANICAL MIRRORS (MEMS) BASED MODULE FOR PHOTONIC FABRIC VERIFICATION AND PROTECTION
15635RO	US	10636037	7,365,514	Granted	18-Jun-03	7-Aug-03	6-May-08	SOURCE CREDIT BASED FAIRNESS SCHEME
14801RO	US	10609562	7,368,578	Granted	1-Jul-03	1-Jul-03	8-May-08	DIGITAL DATA DESYNCHRONIZATION METHOD
15980ID	US	10626394	#EMPTY	Filed	23-Jul-03	23-Jul-03	#EMPTY	MIXE ACROSS CLOSELY COUPLED OPTICAL CHANNELS
15973RO	US	10653632	#EMPTY	Filed	8-Aug-03	2-Sep-03	#EMPTY	SYSTEM AND METHOD FOR AUTOMATED ENGINEERING OF OPTICAL NETWORKS
16368RO	US	10917340	#EMPTY	Filed	28-Aug-03	13-Aug-04	#EMPTY	TECHNIQUE FOR ASYMMETRIC TRANSPORT
16255ID	US	10656543	7,477,843	Granted	5-Sep-03	5-Sep-03	13-Jan-09	METHOD OF AND SYSTEM FOR ROUTING IN A PHOTONIC NETWORK
14066DM	US	10667214	7,394,822	Granted	9-Sep-03	9-Sep-03	1-Jul-08	TECHNIQUE FOR SYNCHRONIZING REDUNDANT NETWORK ELEMENTS
15823RO	US	10662400	7,595,831	Granted	16-Sep-03	16-Sep-03	19-May-09	METHOD AND APPARATUS FOR PROVIDING GRADES OF SERVICE FOR UNPROTECTED TRAFFIC IN AN OPTICAL NETWORK
16176ID	US	10672900	7,389,337	Granted	28-Sep-03	28-Sep-03	17-Jun-08	MANAGEMENT OF NETWORK ELEMENTS USING A PROXY AGENT
16423ID	US	10672711	7,186,282	Granted	26-Sep-03	26-Sep-03	6-Mar-07	DATA MIRRORING SYSTEM
16467ID	US	10952028	7,363,548	Granted	29-Sep-03	29-Sep-04	22-Apr-08	PROBABLE CAUSE FIELDS IN TELECOMMUNICATIONS NETWORK ALARM INDICATION MESSAGES
16379RO	US	10675790	7,042,913	Granted	30-Sep-03	30-Sep-03	9-May-06	MEMORY PARTITIONING
16392RO	US	10675799	7,359,379	Granted	30-Sep-03	30-Sep-03	15-Apr-08	MANAGING DATA IN A SUBTENDED SWITCH
16393RO	US	10675463	7,542,484	Granted	30-Sep-03	30-Sep-03	2-Jun-09	MANAGING PAYLOAD SPECIFIC LATENCIES IN A CROSS-CONNECT SYSTEM
16390RO	US	10675097	7,246,289	Granted	30-Sep-03	30-Sep-03	17-Jul-07	MEMORY INTEGRITY SELF CHECKING IN A VIRTUAL CROSS-CONNECT
16390RO	US	10741266	#EMPTY	Filed	30-Sep-03	19-Dec-03	#EMPTY	SERVICE METRICS FOR MANAGING SERVICES TRANSPORTED OVER CIRCUIT-ORIENTED AND CONNECTIONLESS NETWORKS
16391RO	US	10675462	#EMPTY	Filed	30-Sep-03	30-Sep-03	#EMPTY	EFFICIENT PROVISIONING OF A VIRTUAL CROSS-CONNECT
16087ID	US	10675760	#EMPTY	Filed	30-Sep-03	30-Sep-03	#EMPTY	METHODS AND APPARATUS FOR DETERMINING A PATH IN A COMMUNICATIONS NETWORK
15686RO	US	10674530	7,418,212	Granted	1-Oct-03	1-Oct-03	26-Aug-08	ELECTRICAL DETECTION OF OPTICAL SYMBOLS
16134RO	US	10678466	7,519,982	Granted	9-Oct-03	9-Oct-03	14-Apr-09	SYSTEM AND METHOD OF COMMUNICATING STATUS AND PROTECTION INFORMATION BETWEEN CARDS IN A COMMUNICATIONS SYSTEM

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
16135RO	US	10678,812	7,460,483	Granted	3-Oct-03	3-Oct-03	11-Nov-08	SYSTEM AND METHOD OF FORWARDING K-BYTES BETWEEN OPTICAL CARDS IN A COMMUNICATIONS SYSTEM
16097RO	US	10677,276	7,286,308	Granted	3-Oct-03	3-Oct-03	4-Sep-07	METHOD FOR OPTICAL CARRIER SUPPRESSION AND QUADRATURE CONTROL
16232RO	US	10678,780	7,443,831	Granted	3-Oct-03	3-Oct-03	28-Oct-08	CALL CONTROL USING A LAYERED CALL MODEL
16281RO	US	10677,223	7,023,601	Granted	3-Oct-03	3-Oct-03	4-Apr-06	OPTICAL E-FIELD MODULATION USING A MACH-ZEHNDER INTERFEROMETER
16232RO	US	12259,048	#EMPTY	Filed	3-Oct-03	27-Oct-08	#EMPTY	CALL CONTROL USING A LAYERED CALL MODEL
16094RO	US	10678,807	#EMPTY	Filed	3-Oct-03	3-Oct-03	#EMPTY	SYSTEM AND METHOD OF ADAPTIVELY MANAGING BANDWIDTH ON OPTICAL LINKS SHARED BY MULTIPLE SERVICES USING VIRTUAL CONCATENATION AND LINK CAPACITY ADJUSTMENT SCHEMES
16231D	US	10679,824	#EMPTY	Filed	3-Oct-03	3-Oct-03	#EMPTY	OPTICAL SUB-CARRIER MULTIPLEXED TRANSMISSION
16137RO	US	10680,475	7,378,229	Granted	7-Oct-03	7-Oct-03	20-May-08	SYSTEM IDENTIFICATION MODULE FOR A COMMUNICATIONS SYSTEM
16102RO	US	10681,872	6,884,937	Granted	8-Oct-03	8-Oct-03	26-Apr-05	ELECTROMAGNETIC COMPLIANT SHIELD HAVING ELECTROSTATIC DISCHARGE PROTECTION
16106RO	US	10681,875	6,982,481	Granted	8-Oct-03	8-Oct-03	3-Jan-06	SYSTEM FOR DISSIPATING HEAT AND SHIELDING ELECTROMAGNETIC RADIATION PRODUCED BY AN ELECTRONIC DEVICE
16107RO	US	10681,888	6,876,809	Granted	8-Oct-03	8-Oct-03	5-Apr-05	RELEASE MECHANISM FOR DISCONNECTING INTERNAL FIBER FROM AN OPTICAL MODULE
16108RO	US	10681,867	6,873,779	Granted	8-Oct-03	8-Oct-03	29-Mar-05	APPARATUS FOR MULTI-DIMENSIONAL FIBER MANAGEMENT
16108RO	US	10681,871	7,115,821	Granted	8-Oct-03	8-Oct-03	3-Oct-06	LASER MODULE CARRIER FOR PRINTED CIRCUIT BOARDS
16348RO	US	10681,595	6,969,186	Granted	8-Oct-03	8-Oct-03	29-Nov-05	DEVICE FOR CONDUCTING SOURCE LIGHT THROUGH AN ELECTROMAGNETIC COMPLIANT FACEPLATE
16158RO	US	10681,873	#EMPTY	Filed	8-Oct-03	8-Oct-03	#EMPTY	SYSTEM AND METHOD FOR SWITCHING PACKET TRAFFIC OVER AN OPTICAL TRANSPORT NETWORK
16330RO	US	10982,044	#EMPTY	Filed	9-Oct-03	8-Oct-04	#EMPTY	SYSTEM AND METHOD FOR ROUTING TRAFFIC IN AN OPTICAL NETWORK
16340RO	US	10961,792	#EMPTY	Filed	9-Oct-03	8-Oct-04	#EMPTY	SYSTEM AND METHOD FOR CONFIGURING A NETWORK ELEMENT FOR SUPPORT PROTECTION SWITCHING IN AN OPTICAL NETWORK
16477RO	US	10961,441	7,518,863	Granted	9-Oct-03	8-Oct-04	14-Apr-09	BACKPLANE ARCHITECTURE FOR ENABLING CONFIGURATION OF MULTI-SERVICE NETWORK ELEMENTS FOR USE IN A GLOBAL VARIETY OF COMMUNICATIONS NETWORKS
16342RO	US	10962,043	7,487,500	Granted	9-Oct-03	8-Oct-04	3-Feb-09	SYSTEM AND METHOD FOR INSTALLING AND CONFIGURING SOFTWARE FOR A NETWORK ELEMENT IN AN OPTICAL COMMUNICATIONS NETWORK
16341RO	US	10937,975	7,546,361	Granted	10-Oct-03	3-May-04	9-Jun-09	METHOD AND NETWORK FOR DELIVERING MANAGEMENT SOFTWARE FOR A NETWORK ELEMENT
16335RO	US	10858,035	7,486,669	Granted	10-Oct-03	1-Jun-04	3-Feb-09	METHOD FOR ACCESSING A MULTI-STAGE SWITCH FOR USE AS A SINGLE-STAGE SWITCH
16338RO	US	10958,676	#EMPTY	Filed	10-Oct-03	5-Oct-04	#EMPTY	METHOD AND NETWORK FOR ADAPTING A TRANSACTION LANGUAGE FOR NETWORK ELEMENTS
16204RO	US	10689,605	#EMPTY	Filed	22-Oct-03	22-Oct-03	#EMPTY	METHOD AND APPARATUS FOR PERFORMING ROUTING OPERATIONS IN A COMMUNICATIONS NETWORK
15889RO	US	10691,517	#EMPTY	Filed	24-Oct-03	24-Oct-03	#EMPTY	METHOD AND APPARATUS FOR DERIVING ALLOWABLE PATHS THROUGH A NETWORK WITH INTRANSITIVITY CONSTRAINTS
15877RO	US	10694,833	7,386,109	Granted	29-Oct-03	29-Oct-03	29-Apr-08	VIRTUAL PRIVATE NETWORKS WITHIN A PACKET NETWORK HAVING A MESH TOPOLOGY
16273D	US	10719,867	#EMPTY	Filed	21-Nov-03	21-Nov-03	#EMPTY	SOFTWARE CONFIGURATION OF MODULE DEPENDENT ON HISTORY
16092RO	US	10718,681	7,382,738	Granted	24-Nov-03	24-Nov-03	3-Jun-08	METHOD AND APPARATUS FOR COMPUTING METRIC INFORMATION FOR ABSTRACTED NETWORKS LINKS
16373D	US	10734,958	#EMPTY	Filed	15-Dec-03	15-Dec-03	#EMPTY	VIRTUAL CONCATENATION FOR PARALLEL DATA STREAMS
15410D	US	10738,494	7,315,584	Granted	17-Dec-03	17-Dec-03	1-Jan-08	COHERENT RECEIVER
16157RO	US	10738,896	7,287,081	Granted	17-Dec-03	17-Dec-03	25-Oct-07	CONTROLLED CALLS IN A TRANSMISSION NETWORK
16156RO	US	10738,830	#EMPTY	Filed	17-Dec-03	17-Dec-03	#EMPTY	CALL BEHAVIOR IN A TRANSMISSION NETWORK
16193RO	US	10744,359	7,522,846	Granted	23-Dec-03	23-Dec-03	21-Apr-09	TRANSMISSION POWER OPTIMIZATION APPARATUS AND METHOD
16208RO	US	10742,808	#EMPTY	Filed	29-Dec-03	29-Dec-03	#EMPTY	OPTICAL TRANSMISSION SYSTEM ARCHITECTURE SUPPORTING MIGRATION TO ELECTRONIC COMPENSATION OF LINK IMPAIRMENTS
16194RO	US	10747,970	6,965,712	Granted	29-Dec-03	29-Dec-03	15-Nov-05	LOW COST AMPLIFICATION IN DWDM NETWORKS
16214RO	US	10780,748	7,403,473	Granted	29-Dec-03	16-Jan-04	22-Jul-08	METHOD AND APPARATUS FOR ACCELERATED PROTECTION SWITCHING IN A MULTI-SWITCH NETWORK ELEMENT
16220RO	US	10767,833	#EMPTY	Filed	29-Jan-04	29-Jan-04	#EMPTY	METHOD AND APPARATUS FOR DETERMINING PROTECTION SWITCHING IN A MULTI-SWITCH NETWORK ELEMENT
16575D	US	10768,787	7,505,415	Granted	30-Jan-04	30-Jan-04	17-Mar-09	PERFORMANCE MONITORING IN A COMMUNICATIONS NETWORK
16748BA	US	10978,182	#EMPTY	Filed	5-Feb-04	25-Oct-04	#EMPTY	AUTOMATED NETWORK TO SAN TOPOLOGY LINKAGE

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
16548ID	US	10760,430	7,469,106	Granted	17-Feb-04	17-Feb-04	23-Dec-08	REFERENCE PHASE AND AMPLITUDE ESTIMATION FOR COHERENT OPTICAL RECEIVER
16395RO	US	10778,026	6,917,031	Granted	17-Feb-04	17-Feb-04	12-Jul-05	METHOD FOR QUADRATURE PHASE ANGLE CORRECTION IN A COHERENT RECEIVER OF A DUAL-POLARIZATION OPTICAL TRANSPORT SYSTEM
16750RO	US	10780,686	#EMPTY	Filed	18-Feb-04	18-Feb-04	#EMPTY	POLYPHASE CIRCULATING SWITCH
16376RO	US	10787,778	7,043,130	Granted	26-Feb-04	26-Feb-04	9-May-06	FIBER MANAGEMENT APPARATUS
16602RO	US	10787,501	7,145,773	Granted	26-Feb-04	26-Feb-04	5-Dec-08	PLUGGABLE ELECTRONIC MODULE
16000RO	US	10787,107	7,400,589	Granted	27-Feb-04	27-Feb-04	15-Jul-08	METHOD AND APPARATUS DERIVING OPTIMAL PATHS THROUGH A NETWORK SUBJECT TO A SUBSET SEQUENCE CONSTRAINT
15449RO	US	292200,741	D564455	Granted	3-Mar-04	3-Mar-04	18-Mar-08	CIRCUIT PACK
16396RO	US	10783,601	7,315,575	Granted	8-Mar-04	8-Mar-04	1-Jan-08	EQUALIZATION STRATEGY FOR DUAL-POLARIZATION OPTICAL TRANSPORT SYSTEMS
16588RO	US	10795,466	7,239,515	Granted	8-Mar-04	8-Mar-04	3-Jul-07	THERMAL ASSEMBLY FOR COOLING AN ELECTRONICS MODULE
16267RO	US	10795,321	7,353,324	Granted	9-Mar-04	9-Mar-04	15-Apr-06	ADAPTIVE JITTER BUFFER CONTROL
16424RO	US	10795,152	7,292,653	Granted	10-Mar-04	10-Mar-04	6-Nov-07	CARRIER LOCK DETECTOR
15020RO	US	10801,711	7,103,288	Granted	17-Mar-04	17-Mar-04	5-Sep-06	DYNAMIC CONTROL OF PHOTODIODE BIAS VOLTAGE
16436RO	US	10803,916	7,112,777	Granted	19-Mar-04	19-Mar-04	26-Sep-06	METHOD AND APPARATUS FOR PROTECTING OPTICAL RECEIVERS FROM OVERLOAD OPTICAL SIGNALS
16665RO	US	10808,065	#EMPTY	Filed	24-Mar-04	24-Mar-04	#EMPTY	METHOD AND APPARATUS FOR COLLECTING MANAGEMENT INFORMATION ON A COMMUNICATION NETWORK
16721RO	US	10813,059	7,304,947	Granted	31-Mar-04	31-Mar-04	4-Dec-07	CONNECTION CREATION/TERMINATION USING PARALLEL CROSS-CONNECTION DOWNLOAD/UPLOAD PROCESSES
16257RO	US	292202,919	D531978	Granted	7-Apr-04	7-Apr-04	14-Nov-06	FRONT SURFACE OF A COMMUNICATION CABINET
15734RO	US	10822,077	7,386,240	Granted	9-Apr-04	9-Apr-04	10-Jun-08	DISPERSION COMPENSATION IN OPTICAL SYSTEMS
16719RO	US	10820,776	7,430,173	Granted	9-Apr-04	9-Apr-04	30-Sep-08	DATA TRAFFIC POLICER
13480ID	US	10825,542	7,558,479	Granted	15-Apr-04	15-Apr-04	7-Jul-08	ANALYSIS AND CONTROL OF OPTICAL COMMUNICATIONS SYSTEMS
16513RO	US	10825,649	#EMPTY	Filed	16-Apr-04	16-Apr-04	#EMPTY	DEPENDABILITY MEASUREMENT SCHEMA FOR COMMUNICATION NETWORKS
16528ID	US	10829,545	#EMPTY	Filed	22-Apr-04	22-Apr-04	#EMPTY	DATA SECURITY IN OPTICAL COMMUNICATIONS SYSTEMS
16450RO	US	10843,330	7,554,905	Granted	12-May-04	12-May-04	30-Jun-09	METHOD AND APPARATUS FOR ROUTING A VIRTUAL CONCATENATION GROUP IN A NETWORK
16586RO	US	10846,158	6,948,968	Granted	19-May-04	19-May-04	27-Sep-05	FRONT INSTALLABLE GUIDE AND CIRCUIT CARD CONNECTING DEVICE HAVING SAME EQUIPMENT TRAY FOR SIMPLIFIED INSERTION AND REMOVAL OF RACK-MOUNTED EQUIPMENT
16269RO	US	10853,842	6,889,069	Granted	26-May-04	26-May-04	3-May-05	ACOUSTIC NOISE REDUCTION USING FAN SPEED CONTROL
16611RO	US	10864,007	7,331,532	Granted	8-Jun-04	8-Jun-04	19-Feb-08	DYNAMIC FIBER SLACK MANAGEMENT FOR TELECOM RACKS
16734RO	US	10863,922	7,200,315	Granted	9-Jun-04	9-Jun-04	3-Apr-07	FRONT ACCESS LAN AND TIMING (SAT)
16737RO	US	10864,851	7,037,143	Granted	9-Jun-04	9-Jun-04	2-May-06	FRONT ACCESS POWER LANDING DESIGN
16736RO	US	10864,198	#EMPTY	Filed	9-Jun-04	9-Jun-04	#EMPTY	FLASH ADC RECEIVER WITH REDUCED ERRORS
16656RO	US	10870,054	6,980,140	Granted	18-Jun-04	18-Jun-04	27-Dec-05	OPTICAL E-FIELD MODULATION USING A DIRECTLY DRIVEN LASER
16187RO	US	10872,850	#EMPTY	Filed	21-Jun-04	21-Jun-04	#EMPTY	METHOD AND APPARATUS FOR IMPLEMENTING LINK-BASED SOURCE ROUTING IN GENERIC FRAMING PROTOCOL
16698RO	US	10881,308	#EMPTY	Filed	30-Jun-04	30-Jun-04	#EMPTY	RF-ID FOR CABLE MANAGEMENT AND PORT IDENTIFICATION
16659RO	US	10885,273	6,968,594	Granted	6-Jul-04	6-Jul-04	29-Nov-05	OPTICAL HYBRID
16785RO	US	10884,949	7,483,641	Granted	7-Jul-04	7-Jul-04	27-Jan-09	CLOCK SYNCHRONIZATION BACKUP MECHANISM FOR CIRCUIT EMULATION SERVICE
15847RO	US	10888,421	7,191,355	Granted	9-Jul-04	9-Jul-04	13-Mar-07	REDUCING OR ELIMINATING CROSS-TALK AT DEVICE-SUBSTRATE INTERFACE
16926RO	US	10890,004	7,143,083	Granted	13-Jul-04	13-Jul-04	5-Dec-06	DISTRIBUTED VIRTUAL STORAGE SWITCH
16612RO	US	10891,992	#EMPTY	Filed	15-Jul-04	15-Jul-04	#EMPTY	PACKET-AWARE TIME DIVISION MULTIPLEXING SWITCH WITH DYNAMICALLY CONFIGURABLE SWITCHING FABRIC CONNECTIONS
16592RO	US	10892,118	#EMPTY	Filed	16-Jul-04	16-Jul-04	#EMPTY	DIGITAL SYNTHESIS OF READILY COMPENSATED OPTICAL SIGNALS
17072RO	US	10902,604	7,321,734	Granted	29-Jul-04	29-Jul-04	22-Jan-08	OPTICAL NETWORKING CIRCUIT PACK
16732RO	US	10925,591	7,123,907	Granted	25-Aug-04	25-Aug-04	17-Oct-06	METHOD AND APPARATUS FOR SYNCHRONIZING CLOCK TIMING BETWEEN NETWORK ELEMENTS
17118RO	US	11172,335	#EMPTY	Filed	13-Sep-04	13-Sep-04	#EMPTY	ETHERNET VIRTUAL CIRCUIT PROTECTION SWITCHING MECHANISM
17319RO	US	11225,952	#EMPTY	Filed	14-Sep-04	14-Sep-04	#EMPTY	FLOATING HEATSINK FOR REMOVABLE COMPONENTS
16755RO	US	10945,075	7,224,582	Granted	20-Sep-04	20-Sep-04	23-May-07	FLOATING HEATSINK FOR REMOVABLE COMPONENTS
16756RO	US	11377,727	7,405,591	Granted	20-Sep-04	17-Mar-06	29-Jul-08	TECHNIQUE FOR PREVENTING ILLEGAL INVOCATION OF SOFTWARE PROGRAMS
16730RO	US	10944,945	#EMPTY	Filed	21-Sep-04	21-Sep-04	#EMPTY	OPTICAL LASER CONTROL FOR OPTICAL COMMUNICATIONS SYSTEMS
17051ID	US	10946,224	#EMPTY	Filed	21-Sep-04	21-Sep-04	#EMPTY	

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
17039RO	US	101946,983	#EMPTY	Filed	22-Sep-04	22-Sep-04	#EMPTY	METHOD AND APPARATUS FOR REDIALING A CONNECTION ON A COMMUNICATION NETWORK
16173RO	US	101961,111	7,363,574	Granted	6-Oct-04	12-Oct-04	22-Apr-08	METHOD AND SYSTEM FOR PARALLEL CRC CIRCULATION
17493RO	US	291214,997	5,233,438	Granted	12-Oct-04	12-Oct-04	20-Jun-06	OPTICAL NETWORK ELEMENT
17417RO	US	11250,666	#EMPTY	Filed	15-Oct-04	14-Oct-05	#EMPTY	ETHERNET FACILITY AND EQUIPMENT PROTECTION
17071RO	US	11236,101	#EMPTY	Filed	26-Oct-04	26-Oct-05	#EMPTY	METHOD AND SYSTEM FOR FLOW MANAGEMENT WITH SCHEDULING
16617RO	US	10979,655	#EMPTY	Filed	1-Nov-04	1-Nov-04	#EMPTY	METHOD AND APPARATUS FOR MANAGEMENT CALL SETUP AND RESTORATION IN AN OPTICAL COMMUNICATION SYSTEM
16684RO	US	11006,515	#EMPTY	Filed	10-Dec-04	10-Dec-04	#EMPTY	MODULATION E-FIELD BASED CONTROL OF A NON-LINEAR TRANSMITTER
17336RO	US	11301,718	#EMPTY	Filed	13-Dec-04	13-Dec-05	#EMPTY	METHOD AND APPARATUS FOR PROVISIONING OPTICAL SERVICES IN AN OPTICAL NETWORK
16707RO	US	11012,127	7,204,018	Granted	16-Dec-04	16-Dec-04	17-Apr-07	TECHNIQUE FOR REDUCING VIA CAPACITANCE
16707RO	US	11723,851	7,365,470	Granted	16-Dec-04	22-Mar-07	10-Jun-08	TECHNIQUE FOR REDUCING VIA CAPACITANCE
17122ID	US	11012,155	7,330,667	Granted	29-Dec-04	29-Dec-05	12-Feb-08	ELECTRICAL COMPENSATION OF OPTICAL IMPAIRMENTS
17098RO	US	11362,911	#EMPTY	Filed	29-Feb-05	29-Feb-06	#EMPTY	METHOD OF INITIALIZING OPTICAL COMMUNICATION LINKS
17098RO	US	11362,756	7,561,797	Granted	28-Feb-05	28-Feb-06	14-Jul-09	OPTICAL SIGNAL TRANSMITTER WITH ACTIVE OPTICAL E-FIELD DEGRADATION
17098RO	US	11362,912	7,558,478	Granted	28-Feb-05	28-Feb-06	7-Jul-09	PRECONFIGURING COMPENSATION OF OPTICAL PATH IMPAIRMENTS
16657RO	US	11067,011	#EMPTY	Filed	28-Feb-05	28-Feb-05	#EMPTY	CONTROL SYSTEM FOR A POLAR OPTICAL TRANSMITTER
17691RO	US	11302,826	#EMPTY	Filed	11-Mar-05	14-Dec-05	#EMPTY	NETWORK TOPOLOGY SYSTEMS AND METHODS
17143ID	US	11082,999	7,369,055	Granted	17-Mar-05	17-Mar-05	17-Jun-08	DQPSK RECEIVER PHASE CONTROL
16685RO	US	11084,396	#EMPTY	Filed	31-Mar-05	31-Mar-05	#EMPTY	METHOD AND APPARATUS FOR IMPROVING DUAL-POLARIZATION OPTICAL COMMUNICATION PERFORMANCE
17651RR	US	11906,821	7,519,294	Granted	22-Apr-05	4-Oct-07	14-Apr-09	METHOD AND APPARATUS FOR PROVIDING INTEGRATED SYMMETRIC AND ASYMMETRIC NETWORK CAPACITY ON AN OPTICAL NETWORK
1725RO	US	11394,705	#EMPTY	Filed	23-Apr-05	31-Mar-08	#EMPTY	METHOD AND APPARATUS FOR DESIGNING A P/L
17218RO	US	11279,060	#EMPTY	Filed	29-Apr-05	7-Apr-06	#EMPTY	METHOD AND APPARATUS FOR NON-DISRUPTIVE CALL MODIFICATION
17428RO	US	11235,134	#EMPTY	Filed	13-May-05	27-Sep-05	#EMPTY	METHODS AND APPARATUS FOR MONITORING THE INTEGRITY OF A QUANTUM CHANNEL SUPPORTING MULTI-QUANTA PULSE TRANSMISSION
17533ID	US	11162,530	#EMPTY	Filed	15-Jul-05	15-Jul-05	#EMPTY	A METHOD, APPARATUS, NETWORK DEVICE AND COMPUTER PROGRAM FOR MONITORING OVERSUBSCRIPTION OF DATA TRAFFIC IN A COMMUNICATION NETWORK
17353RO	US	11218,430	#EMPTY	Filed	6-Sep-05	6-Sep-05	#EMPTY	METHODS AND SYSTEMS FOR REDUCING WAITING-TIME JITTER
17874RO	US	11229,538	#EMPTY	Filed	20-Sep-05	20-Sep-06	#EMPTY	METHOD AND SYSTEM FOR ACHIEVING SPATIAL REUSE OVER A RESILIENT PACKET RING
17144RO	US	11239,148	7,522,842	Granted	30-Sep-05	30-Sep-05	21-Apr-09	OPTICAL TRANSMISSION SYSTEM USING RAMAN AMPLIFICATION
17817RO	US	11315,345	7,532,822	Granted	21-Oct-05	23-Dec-05	12-May-09	CLOCK RECOVERY FROM AN OPTICAL SIGNAL WITH POLARIZATION IMPAIRMENTS
17894RO	US	11294,613	7,555,227	Granted	6-Dec-05	30-Jun-09	30-Jun-09	POLARIZATION COMPENSATION IN A COHERENT OPTICAL RECEIVER
17888RO	US	11315,342	#EMPTY	Filed	21-Oct-05	23-Dec-05	#EMPTY	CLOCK RECOVERY FROM AN OPTICAL SIGNAL WITH DISPERSION IMPAIRMENTS
17899RO	US	11550,042	#EMPTY	Filed	21-Oct-05	17-Oct-06	#EMPTY	SAMPLE TIMING CONTROL IN AN OPTICAL RECEIVER
17889RO	US	11551,367	#EMPTY	Filed	21-Oct-05	20-Oct-06	#EMPTY	NON-LINEAR EQUALIZER IN A COHERENT OPTICAL RECEIVER
17889RO	US	11552,016	#EMPTY	Filed	21-Oct-05	23-Oct-06	#EMPTY	SIGNAL FRAMING IN A COHERENT OPTICAL RECEIVER
17889RO	US	11553,438	#EMPTY	Filed	21-Oct-05	20-Sep-06	#EMPTY	AUTOMATIC GAIN CONTROL IN A COHERENT OPTICAL RECEIVER
17899RO	US	11278,042	#EMPTY	Filed	21-Oct-05	7-Apr-06	#EMPTY	LASER CONTROL IN A COHERENT OPTICAL RECEIVER
17889RO	US	11286,392	#EMPTY	Filed	21-Oct-05	3-Mar-06	#EMPTY	CARRIER RECOVERY IN A COHERENT OPTICAL RECEIVER
17900RO	US	11423,822	#EMPTY	Filed	21-Oct-05	13-Jun-06	#EMPTY	SIGNAL ACQUISITION IN A COHERENT OPTICAL RECEIVER
18009RO	US	11294,146	7,492,732	Granted	1-Nov-05	5-Dec-05	17-Feb-09	DIFFERENTIAL CLOCK RECOVERY IN PACKET NETWORKS
18009RO	US	11362,697	#EMPTY	Filed	1-Nov-05	27-Feb-06	#EMPTY	THREE-WAY MESSAGE EXCHANGE CLOCK SYNCHRONIZATION
18009RO	US	11279,410	#EMPTY	Filed	1-Nov-05	12-Apr-06	#EMPTY	CLOCK SYNCHRONIZATION USING A WEIGHTED LEAST SQUARES ERROR FILTERING TECHNIQUE
18009RO	US	11279,431	#EMPTY	Filed	1-Nov-05	12-Apr-06	#EMPTY	TIMESTAMP-BASED ALL DIGITAL PHASE LOCKED LOOP FOR CLOCK SYNCHRONIZATION OVER PACKET NETWORKS
17803RO	US	11357,963	7,271,603	Granted	22-Feb-06	22-Feb-06	2-Oct-07	INTEGRATED OPTICAL WAVEFORM MODULATION
17803RO	US	12128,247	#EMPTY	Filed	22-Feb-06	28-May-08	#EMPTY	INTEGRATED OPTICAL WAVEFORM MODULATION
17803RO	US	11690,444	#EMPTY	Filed	22-Feb-06	23-Mar-07	#EMPTY	INTEGRATED OPTICAL WAVEFORM MODULATION
18212RO	US	11427,613	#EMPTY	Filed	3-Mar-06	29-Jun-06	#EMPTY	GRAPHICAL USER INTERFACE FOR NETWORK MANAGEMENT
18212RO	US	11548,090	#EMPTY	Filed	3-Mar-06	10-Oct-06	#EMPTY	NETWORK DATA MODEL AND TOPOLOGY DISCOVERY METHOD
18190SS	US	12225,220	#EMPTY	Filed	23-Mar-06	16-Sep-08	#EMPTY	AUTOMATED NETWORK CONGESTION AND TROUBLE LOCATOR AND CORRECTOR
17967BA	US	11388,482	#EMPTY	Filed	24-Mar-06	24-Mar-06	#EMPTY	LEAKING ROUTES AMONG ROUTING ENGINES IN A HIGHLY SCALABLE ROUTER

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
18259RO	US	11428,098	#EMPTY	Filed	30-Mar-06	30-Jun-06	#EMPTY	METHOD AND SYSTEM FOR MULTI-LAYER SIGNALING ACROSS MULTIPLE CONTROL NETWORKS
18028RO	US	11394,746	#EMPTY	Filed	31-Mar-06	31-Mar-06	#EMPTY	HIGH SPEED LOW NOISE SWITCH
18350RO	US	12298,441	#EMPTY	Filed	27-Apr-06	3-Nov-08	#EMPTY	METHOD AND SYSTEM FOR CONTROLLING OPTICAL NETWORKS
18178RO	US	11383,338	#EMPTY	Filed	15-May-06	15-May-06	#EMPTY	LOS BEAT DETECTOR
17841RO	US	11479,447	#EMPTY	Filed	30-Jun-06	30-Jun-06	#EMPTY	METHOD AND SYSTEM FOR VARIABLE VIABILITY SUMMARIZATION IN COMMUNICATIONS NETWORKS
18311RO	US	11458,737	7,388,535	Granted	20-Jul-06	20-Jul-06	17-Jun-08	DIGITIZING FRONT END FOR OPTICAL RECEIVER
18112RO	US	11498,894	#EMPTY	Filed	3-Aug-06	3-Aug-06	#EMPTY	METHOD AND SYSTEM FOR DATA PROCESSING IN A SHARED DATABASE ENVIRONMENT
18476RO	US	11610,780	#EMPTY	Filed	14-Dec-06	14-Dec-06	#EMPTY	PROVIDING SIP INTERWORKING IN A NEXT GENERATION NETWORK
18413RO	US	11614,208	#EMPTY	Filed	21-Dec-06	21-Dec-06	#EMPTY	REMOTE CONTROL OF MEDIA CONTENT DELIVERY TO A DIGITAL MEDIARECORDER
18488RO	US	11615,628	#EMPTY	Filed	22-Dec-06	22-Dec-06	#EMPTY	DYNAMIC ADVERTISING CONTROL
18521RO	US	11615,754	#EMPTY	Filed	22-Dec-06	22-Dec-06	#EMPTY	SHARING USAGE RIGHTS
18733RO	US	12027,942	#EMPTY	Filed	22-Dec-06	22-Dec-06	#EMPTY	METHOD AND SYSTEM FOR CONTENT SHARING
18599RO	US	11716,187	7,467,058	Granted	7-Feb-07	7-Feb-08	#EMPTY	ETHERNET SHARED PROTECTION RING
18553RO	US	11756,140	#EMPTY	Filed	9-Mar-07	9-Mar-07	16-Dec-08	METHOD AND APPARATUS FOR ALIGNING MULTIPLE OUTPUTS OF AN FPGA
18681RO	US	12114,059	#EMPTY	Filed	4-May-07	5-Jun-07	#EMPTY	SYSTEM AND METHOD FOR PROVIDING IMPROVED PACKET TRACEABILITY
18877RO	US	11866,082	#EMPTY	Filed	9-May-07	2-May-08	#EMPTY	HUB AND SPOKE COMPRESSION
19084ID	US	12262,232	#EMPTY	Filed	9-Oct-07	9-Oct-07	#EMPTY	MULTI-LENGTH DIVISION MULTIPLEXED PASSIVE OPTICAL NETWORK
18976RO	US	11950,585	#EMPTY	Filed	2-Nov-07	31-Oct-08	#EMPTY	SYNCHRONIZATION OF NETWORK NODES
18975RO	US	11956,740	#EMPTY	Filed	5-Dec-07	5-Dec-07	#EMPTY	SIGNAL EQUALIZER IN A COHERENT OPTICAL RECEIVER
18922RO	US	11960,208	#EMPTY	Filed	14-Dec-07	14-Dec-07	#EMPTY	ENHANCED FREQUENCY SYNTHESIZER
18754RO	US	11961,879	#EMPTY	Filed	19-Dec-07	19-Dec-07	#EMPTY	METHOD AND APPARATUS FOR KEY MANAGEMENT IN AN END-TO-END ENCRYPTION SYSTEM
18730RO	US	12341,537	#EMPTY	Filed	20-Dec-07	20-Dec-07	#EMPTY	MEDIA MONITORING
19055RO	US	12344,355	#EMPTY	Filed	21-Dec-07	22-Dec-08	#EMPTY	SYSTEM AND METHOD FOR INCREASING RESPONSIVENESS TO REQUESTS FOR STREAMING MEDIA
19056RO	US	12344,362	#EMPTY	Filed	31-Dec-07	26-Dec-08	#EMPTY	INTERWORKING AN ETHERNET RING NETWORK WITH A SPANNING TREE CONTROLLED ETHERNET NETWORK
19110RO	US	12344,382	#EMPTY	Filed	31-Dec-07	26-Dec-08	#EMPTY	INTERWORKING AN ETHERNET RING NETWORK AND AN ETHERNET NETWORK WITH TRAFFIC ENGINEERED TRUNKS
19325RO	US	12367,635	#EMPTY	Filed	14-Jan-08	26-Dec-08	#EMPTY	METHOD AND APPARATUS FOR ENABLING A TELEPHONE TO CONTROL A SEPARATE DISPLAY DEVICE
18972RO	US	12030,242	#EMPTY	Filed	8-Feb-08	9-Feb-09	#EMPTY	METHOD AND SYSTEM FOR IMPROVING ELECTRICAL PERFORMANCE OF VIAS FOR HIGH DATA RATE TRANSMISSION
18932RO	US	12037,514	#EMPTY	Filed	13-Feb-08	13-Feb-08	#EMPTY	LOW CONVERSION RATE DIGITAL DISPERSION COMPENSATION
19239RO	US	12038,118	#EMPTY	Filed	26-Feb-08	26-Feb-08	#EMPTY	METHOD AND SYSTEM FOR SYNCHRONOUS HIGH SPEED ETHERNET GFP MAPPING OVER AN OPTICAL TRANSPORT NETWORK
19226RO	US	12054,874	#EMPTY	Filed	28-Feb-08	28-Feb-08	#EMPTY	TRANSPARENT PROTOCOL INDEPENDENT DATA COMPRESSION AND ENCRYPTION
18990RO	US	12169,712	#EMPTY	Filed	25-Mar-08	25-Mar-08	#EMPTY	METHOD AND CIRCUIT FOR ADAPTIVE AUTOMATIC GAIN CONTROL
18847RO	US	12101,209	#EMPTY	Filed	26-Mar-08	8-Jul-08	#EMPTY	ONE WAY LATENCY MEASURES
18712RO	US	12330,691	#EMPTY	Filed	11-Apr-08	11-Apr-08	#EMPTY	SOFT THERMAL FAILURE IN A HIGH CAPACITY TRANSMISSION SYSTEM
18713RO	US	12279,597	#EMPTY	Filed	10-Jun-08	9-Dec-08	#EMPTY	OPTICAL COMMUNICATIONS SYSTEM HAVING CHROMATIC DISPERSION AND POLARIZATION MODE DISPERSION COMPENSATION
19555RO	US	12415,047	#EMPTY	Filed	10-Jun-08	19-Nov-08	#EMPTY	PROGRAMMABLE PHASE DETECTOR FOR SEQUENCE EQUALIZER FOR OPTICAL CHANNELS
19102RO	US	12182,575	#EMPTY	Filed	26-Jun-08	31-Mar-09	#EMPTY	METHOD AND SYSTEM TO STOP RETURN CURRENT FROM FLOWING INTO A DISCONNECTED POWER PORT OF AN NE POWERED BY DUAL BATTERY POWERED DEVICE
19279RO	US	12183,851	#EMPTY	Filed	30-Jul-08	30-Jul-08	#EMPTY	LOW DENSITY PARITY CHECK (LDPC) DECODER USING BROADCAST MESSAGING
19281RO	US	12183,839	#EMPTY	Filed	31-Jul-08	31-Jul-08	#EMPTY	OPTICAL ROUNDABOUT SWITCH
19042RO	US	12337,393	#EMPTY	Filed	31-Jul-08	31-Jul-08	#EMPTY	GANGED OPTICAL SWITCH
19254RO	US	12211,216	#EMPTY	Filed	19-Aug-08	17-Dec-08	#EMPTY	SYSTEM AND METHOD FOR REDUCING MEMORY REQUIREMENTS FOR ELECTRICAL DOMAIN COMPENSATION OF INTRA-CHANNEL NONLINEARITY IN AN OPTICAL COMMUNICATION SYSTEM
19216RO	US	12262,945	#EMPTY	Filed	16-Sep-08	16-Sep-08	#EMPTY	OPTICAL TRANSMITTER ERROR REDUCTION USING RECEIVER FEEDBACK
19253RO	US	12326,933	#EMPTY	Filed	31-Oct-08	31-Oct-08	#EMPTY	CONTROLLING SESSION KEYS THROUGH IN-BAND SIGNALING
	US		#EMPTY	Filed	3-Dec-08	3-Dec-08	#EMPTY	CYCLE SLIP LOCATION AND CORRECTION



Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
19550RO	US	12/347,362	#EMPTY	Filed	31-Dec-08	31-Dec-08	#EMPTY	RING TOPOLOGY DISCOVERY MECHANISM
19550RO	US	12/581,944	#EMPTY	Filed	31-Dec-08	20-Oct-09	#EMPTY	RING TOPOLOGY DISCOVERY MECHANISM
19919RO	US	12/692,065	#EMPTY	Filed	23-Jan-09	22-Jan-10	#EMPTY	HIGH SPEED SIGNAL GENERATOR
18760RO	US	12/644,453	#EMPTY	Filed	18-Feb-04	22-Dec-09	#EMPTY	POLY-PHASE CIRCULATING SWITCH
17218RO	US	12/689,710	#EMPTY	Filed	29-Apr-05	19-Jan-10	#EMPTY	METHOD AND APPARATUS FOR NON-DISRUPTIVE CALL MODIFICATION
18972RO	US	12/642,948	#EMPTY	Filed	13-Feb-08	21-Dec-09	#EMPTY	LOW CONVERSION RATE DIGITAL DISPERSION COMPENSATION
10329RO	US	09/448,283	6,188,737	Abandoned	24-Nov-99	24-Nov-99	13-Feb-01	METHOD AND APPARATUS FOR REGENERATING DATA
15553ID	US	11/682,130	#EMPTY	Abandoned	29-Apr-03	5-Mar-07	#EMPTY	DIGITAL COMPENSATION FOR OPTICAL TRANSMISSION SYSTEM
16038ID	US	10/675,769	#EMPTY	Abandoned	30-Sep-03	30-Sep-03	#EMPTY	OPTICAL TRANSMITTER SYSTEM
16039ID	US	10/460,285	#EMPTY	Abandoned	11-Jun-03	11-Jun-03	#EMPTY	DATA STORAGE NETWORK
17148ID	US	10/946,298	#EMPTY	Abandoned	21-Sep-04	21-Sep-04	#EMPTY	LOW COMPLEXITY METHOD FOR SYNCHRONISATION IN RECEIVER
17364BA	US	11/237,726	#EMPTY	Abandoned	8-Oct-04	28-Sep-05	#EMPTY	SYSTEM AND METHOD FOR PROVISIONING AND MANAGING CONFIGURATION ELEMENTS

Disc Number	App Filed Country Code	App Serial Number	App Patent Number	App Status	App Priority Date	App Filed Date	App Issue Date	App Title
19064ID	WO	PCT/EP2008/064833	#EMPTY	Filed	2-Nov-07	31-Oct-08	#EMPTY	SYNCHRONIZATION OF NETWORK NODES
19076RO	WO	PCT/CA2008/002118	#EMPTY	Filed	5-Dec-07	4-Dec-08	#EMPTY	SIGNAL EQUALIZER IN A COHERENT OPTICAL RECEIVER
19055RO	WO	PCT/CA2008/002300	#EMPTY	Filed	31-Dec-07	30-Dec-08	#EMPTY	INTERWORKING AN ETHERNET RING NETWORK WITH A SPANNING TREE CONTROLLED ETHERNET NETWORK
19056RO	WO	PCT/CA2008/002301	#EMPTY	Filed	31-Dec-07	30-Dec-08	#EMPTY	INTERWORKING AN ETHERNET RING NETWORK WITH AN ETHERNET NETWORK WITH TRAFFIC ENGINEERED TRUNKS
19072RO	WO	PCT/CA2008/001160	#EMPTY	Filed	13-Feb-08	12-Feb-09	#EMPTY	LOW CONVERSION RATE DIGITAL DISPERSION COMPENSATION
19047RO	WO	PCT/CA2008/000347	#EMPTY	Filed	11-Apr-08	20-Mar-09	#EMPTY	SOFT THERMAL FAILURE IN A HIGH CAPACITY TRANSMISSION SYSTEM
19102RO	WO	PCT/CA2008/000891	#EMPTY	Filed	30-Jul-08	30-Jun-09	#EMPTY	LOW DENSITY PARITY CHECK (LDPC) DECODER USING BROADCAST MESSAGING
19279RO	WO	PCT/CA2008/001078	#EMPTY	Filed	31-Jul-08	30-Jul-09	#EMPTY	OPTICAL ROUNDABOUT SWITCH
19281RO	WO	PCT/CA2008/001079	#EMPTY	Filed	31-Jul-08	30-Jul-09	#EMPTY	GANGED OPTICAL SWITCH
19042RO	WO	PCT/CA2008/000920	#EMPTY	Filed	19-Aug-08	30-Jun-09	#EMPTY	SYSTEM AND METHOD FOR REDUCING MEMORY REQUIREMENTS FOR ELECTRICAL DOMAIN COMPENSATION OF INTRA-CHANNEL NONLINEARITY IN AN OPTICAL COMMUNICATION SYSTEM
19409RO	WO	PCT/CA2008/001458	#EMPTY	Filed	17-Oct-08	15-Oct-09	#EMPTY	COHERENT AUGMENTED OPTICAL ADD-DROP MULTIPLEXER
19550RO	WO	PCT/CA2008/001570	#EMPTY	Filed	31-Dec-08	2-Nov-09	#EMPTY	RING TOPOLOGY DISCOVERY MECHANISM
19819RO	WO	PCT/CA2010/000066	#EMPTY	Filed	23-Jan-09	22-Jan-10	#EMPTY	HIGH SPEED SIGNAL GENERATOR
19216RO	WO	PCT/IB2008/007213	#EMPTY	Filed	31-Oct-08	23-Oct-09	#EMPTY	CONTROLLING SESSION KEYS THROUGH IN-BAND SIGNALING
19253RO	WO	PCT/CA2008/001160	#EMPTY	Filed	3-Dec-08	12-Nov-09	#EMPTY	CYCLE SLIP LOCATION AND CORRECTION
19254RO	WO	PCT/US2008/05619	#EMPTY	Filed	16-Sep-08	8-Sep-09	#EMPTY	OPTICAL TRANSMITTER ERROR REDUCTION USING RECEIVER FEEDBACK
19026RO	WO	PCT/CA2010/000130	#EMPTY	Filed	2-Feb-09	2-Feb-10	#EMPTY	POWER ALLOCATION AMONG SUB-BANDS IN CLOSED-LOOP DOWNLINK COOPERATION MULTIPLE POINT (COMP) TRANSMISSION