

**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>
Tropic Networks Inc.	04/13/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Alcatel-Lucent Canada Inc.
<b>Street Address:</b>	600 March Road
<b>City:</b>	Ottawa, Ontario
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	K2K 2E6
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	10733327
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(613)831-3329
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	613-831-6003
<b>Email:</b>	vdonnelly@ip-mex.com
<b>Correspondent Name:</b>	Victoria Donnelly
<b>Address Line 1:</b>	PO Box 24001
<b>Address Line 2:</b>	Hazeldean RPO
<b>Address Line 4:</b>	Kanata, Ontario, CANADA K2M2C3
<b>ATTORNEY DOCKET NUMBER:</b>	TR-191-US
<b>NAME OF SUBMITTER:</b>	Victoria Donnelly
<b>Total Attachments: 29</b> source=3-Assignment-Tropic-Alcatel#page1.tif source=3-Assignment-Tropic-Alcatel#page2.tif source=3-Assignment-Tropic-Alcatel#page3.tif source=3-Assignment-Tropic-Alcatel#page4.tif	

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## PATENT ASSIGNMENT

This PATENT ASSIGNMENT, effective as of this 13th day of April, 2007 is made by and between TROPIC NETWORKS INC, a corporation organized under the laws of Canada with offices at 135 Michael Cowpland Drive, Ottawa, Ontario Canada K2M 2E9 (hereinafter referred to as the "Assignor"), and ALCATEL-LUCENT CANADA INC., a corporation organized under the laws of Canada with offices at 600 March Road, Ottawa, Ontario K2K 2E6 (hereinafter referred to as the "Assignee").

**WHEREAS**, the Assignor is desirous of transferring and assigning to the Assignee, and the Assignee is desirous of acquiring from the Assignor, all of the Assignor's right, title and interest in and to the inventions disclosed in the patents, patent applications and inventive submissions as set forth on Schedule A.

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignor does hereby convey, transfer, assign and deliver to Assignee, the entire right, title, interest, property and benefit for Canada, the United States of America and all foreign countries, jurisdictions and political entities of the world, including all rights of priority, in and to inventions disclosed in the patents, patent applications and inventive submissions identified on Schedule A, and in and to all Letters Patents of Canada, the United States of America and all foreign countries, jurisdictions and political entities of the world, which may or shall be granted on said inventions, or any parts thereof, or any divisional, continuation, reissue or other applications based in whole or in part thereon, and the right to recover for past infringement of the patents. Assignee hereby accepts said Assignment.

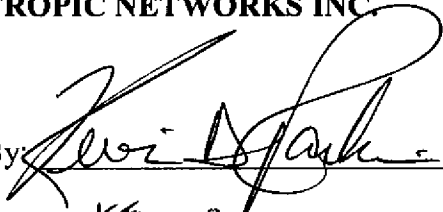
Assignor agrees to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in Canada, the United States of America and in all other countries, jurisdictions and political entities of the world, to Assignee, and to vest and confirm in Assignee, its successors, assigns, legal representatives or nominees, the legal title to all such patents.

Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the Canadian Intellectual Property Office, the Commissioner of Patents and Trademarks of the United States Patent and Trademark Office and any other similarly competent official in any other countries, jurisdictions or political entities of the world, to issue such Letters Patent as shall be granted upon said inventions or applications based thereon to said Assignee, its successors, assigns legal representatives or nominees.

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IN WITNESS WHEREOF, Assignor has hereunto executed this instrument this 13th day of April, 2007.

**TROPIC NETWORKS INC.**

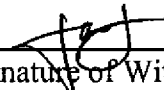
By: 

Name: KEVIN RANKIN

Title: CEO


**Statement of Witness for Tropic Networks Inc.**

I, James Smith, whose full post office address 515 Legget Drive, Suite 800, Ottawa, Ontario, K2K 3G6 state that I was personally present and did see Kevin Rankin who is personally known to me to be the person who duly executed the above Assignment on behalf of Tropic Networks Inc., and I hereby witness the same on the date set forth above.

  
[Signature of Witness]

IN WITNESS WHEREOF, Assignee has hereunto executed this instrument this  
13th day of April, 2007.

**ALCATEL-LUCENT CANADA INC.**

By:   
Name: *Michael A. Stewart*  
Title: *Ass't Secretary*

**Statement of Witness for Alcatel-Lucent Canada Inc.**

I, James Smith, whose full post office address 515 Legget Drive, Suite 800, Ottawa, Ontario, K2K 3G6 state that I was personally present and did see MICHAEL STEWART who is personally known to me to be the person who duly executed the above Assignment on behalf of Tropic Networks Inc., and I hereby witness the same on the date set forth above.

  
[Signature of Witness]

PATENT PORTFOLIO OF TROPIC NETWORKS Nov 03 2006

File No.	Title	Inventor Last Name	Status	Country	Type	Filed	Serial No.	Issued	Patent No.
Internal									
TR-001-CA	Optical Multiplexer, Demultiplexer and Methods	Bacque Chimfwembe Ngi	Issued	CA	Regular	Apr 24, 2001	2,344,541	May 9, 2006	2,344,541
TR-001-US-CIP	Optical Multiplexer, Demultiplexer and Methods	Bacque Chimfwembe Ngi	Issued	US	CIP	Sept 30, 2002	10/259,597	June 22, 2004	6,754,413
TR-001-CA-CIP	Optical Multiplexer, Demultiplexer and Methods	Bacque Chimfwembe Ngi	Filed	CA	CIP	July 7, 2003	2,434,723		
TR-002-CA	Optical Connection Arrangements	Kelly Bierman	Issued	CA	Regular	June 15, 2001	2,350,864	Apr 12, 2005	2,350,864
TR-002-US	Optical Connection Arrangements	Kelly Bierman	Issued	US	Regular	June 15, 2001	09/880,811	Jan 6, 2004	6,674,935
TR-003-CA	Add/Drop Multiplexing in WDM Optical Networks	Liu Wan Remedios	Issued	CA	Regular	July 5, 2001	2,352,264	12-Dec-06	2,352,264
TR-003-US	Add/Drop Multiplexing in WDM Optical Networks	Liu Wan Remedios	Issued	US	Regular	July 6, 2001	09/899,151	Dec 7, 2004	6,829,438
TR-005-US	Method and System for Monitoring Performance of Optical Network	Liu Vethanayagam Oprea	Issued	US	Regular	Nov 23, 2001	09/990,366	Apr 18, 2006	7,031,606
TR-006-US	Flexible Optical Network Architecture	Liu	Issued	US	Regular	Sept 18, 2001	09/953,952	May 6, 2003	6,559,987
TR-006-CA	Flexible Optical Network Architecture	Liu	Filed	CA	Regular	Sept 18, 2001	2,357,671		
TR-008-US	Interposer Chip for Protocol Conversion	Zboril Knox	Issued	US	Regular	Apr 24, 2002	10/128,290	15-Aug-06	7,092,404

TR-009-US	Redundancy Systems and Methods in Communications Systems	Jones Patriarche	Issued	US	Regular	Apr 12, 2002	10/120,435	Jan 3, 2006	6,983,294
TR-009-CA	Redundancy Systems and Methods in Communications Systems	Jones Patriarche	Filed	CA	Regular	May 1, 2002	2,384,261		
TR-010-CA	Methods and Apparatus for Selecting Multiple Paths Taking Into Account Shared Risk	Piedra Carpini Dang Edmison Neudstadter	Issued	CA	Regular	June 14, 2001	2,350,449	Jan 3, 2006	2,350,449
TR-010-US	Methods and Apparatus for Selecting Multiple Paths Taking Into Account Shared Risk	Piedra Carpini Dang Edmison Neudstadter	Issued	US	Regular	June 14, 2001	09/879,937	Apr 19, 2005	6,882,627
TR-011-CA	Method and System for Allocating and Controlling Labels in Multi-Protocol Label Switched Networks	Kasvand-Harris Neustadter Carpini Mark	Filed	CA	Regular	May 13, 2002	2,385,999		
TR-011-US	Method and System for Allocating and Controlling Labels in Multi-Protocol Label Switched Networks	Kasvand-Harris Neustadter Carpini Mark	Issued	US	Regular	May 14, 2002	10/143,780	10-Oct-06	7,120,165
TR-012-US	Packet Network Providing Fast Distribution of Node Related Information and a Method Therefor	Mark Carpini Thi	Issued	US	Regular	Mar 20, 2002	10/101,383	24-Oct-06	7,126,921
TR-012-CA	Packet Network Providing Fast Distribution of Node Related Information and a Method Therefor	Mark Carpini Thi	Filed	CA	Regular	Apr 19, 2002	2,382,656		

TR-013-US	A Label Switched Communication Network and System and Method for Path Restoration	Carpini Mark Pieda	Abandoned	US	Regular	Sept 28, 2001	09/964,766	
TR-013-CA	A Label Switched Communication Network and System and Method for Path Restoration	Carpini Mark Pieda	Filed	CA	Regular	Oct 1, 2001	2,358,174	
TR-014-CA	A Label Switched Communication Network, a Method of Conditioning the Network and a Method of Transmission	Carpini Mark Kasvand Harris	Filed	CA	Regular	Aug 31, 2001	2,356,567	
TR-014-US	A Label Switched Communication Network, a Method of Conditioning the Network and a Method of Transmission	Carpini Mark Kasvand Harris	OA Received	US	Regular	Aug 31, 2001	09/943,005	24-Oct-06 7,126,907
TR-015-CA	Two-Stage Reconnect System and Method	Dang Neustadter Carpini Spicer	Filed	CA	Regular	Jan 30, 2003	2,417,680	
TR-015-US	Two-Stage Reconnect System and Method	Dang Neustadter Carpini Spicer	OA Received	US	Regular	Apr 9, 2002	10/117,992	
TR-016-CA (Design)	Front Panel for Optoelectronic Shelf	Watters Tutton Busschaert	Issued	CA	Design	May 24, 2001	2001-1300	Feb 28, 2002 94,711
TR-016-US (Design)	Front Panel for Optoelectronic Shelf	Watters Tutton Busschaert	Issued	US	Design	May 24, 2001	29/142,332	Nov 12, 2002 D465,496



TR-021-US	Multi-Constraint Routing System and Method	Lee Ganti Srinivasan Carpini Neustadler Dang Wong	Issued	US	Regular	Dec 26, 2001	10/025,869	Aug 2, 2005	6,925,061
TR-025-CA	Extension of Link Aggregation Protocols Over the Network	Mark Carpini	Issued	CA	Regular	June 15, 2001	2,350,673	Sept 7, 2004	2,350,673
TR-025-CA (DIV)	Extension of Link Aggregation Protocols Over the Network	Mark Carpini	Issued	CA	Divisional	June 15, 2001	2,459,027	Apr 25, 2006	2,459,027
TR-025-US	Extension of Link Aggregation Protocols Over the Network	Mark Carpini	Issued	US	Regular	June 14, 2001	09/879,939	Oct 18, 2005	6,956,824
TR-029-US	System and Method for Distribution of Software	Dawson	Issued	US	Regular	Oct 2, 2001	09/967,950	23-May-06	7,051,112
TR-029-CA	System and Method for Distribution of Software	Dawson	Filed	CA	Regular	Oct 2, 2001	2,358,137		
TR-030-US	Cascaded Flow Policing Systems and Methods	Ganti Lee Mark	OA Received	US	Regular	June 29, 2001	09/893,584		
TR-030-CA	Cascaded Flow Policing Systems and Methods	Ganti Lee Mark	OA Received	CA	Regular	June 29, 2001	2,352,004		
TR-031-US	Stacked Backplane Assembly	Harris Batterton	Issued IMSCIENCES	US	Regular	Feb 5, 2002	10/062,780	June 29, 2004	6,757,177
TR-031-CA	Stacked Backplane Assembly	Harris Batterton	Issued IMSCIENCES	CA	PCT	June 4, 2002	2,455,568	12-Dec-06	2,455,568
TR-032-US	Module and Method for Interconnecting Optoelectronic Cards	Harris Knox	Issued IMSCIENCES	US	Regular	May 30, 2001	09/866,785	June 24, 2003	6,582,133
TR-032-CA	Module and Method for Interconnecting Optoelectronic Cards	Harris Knox	Issued IMSCIENCES	CA	Regular	May 30, 2001	2,349,494	Sept 28, 2004	2,349,494

TR-034-US	Network Resource Allocation Methods and Systems	Lee Johnsons Vieregge	Issued IMSCIENCES	US	Regular	July 31, 2001	09/917,669	Aug 31, 2004	6,785,737
TR-034-CA	Network Resource Allocation Methods and Systems	Lee Johnsons Vieregge	Issued IMSCIENCES	CA	Regular	July 31, 2001	2,354,353	Jan 3, 2006	2,354,353
TR-037-US	Label Distribution Protocol Supporting Multiple Classes of Service in a Multi Protocol Label Switching (MPLS) Network, Methods and MPLS Network Using Thereof	Ganti Seddigh Nandy	Issued	US	Regular	Mar 28, 2002	10/107,333	27-Feb-07	7,184,434
TR-037-CA	Label Distribution Protocol Supporting Multiple Classes of Service in a Multi Protocol Label Switching (MPLS) Network, Methods and MPLS Network Using Thereof	Ganti Seddigh Nandy	Filed	CA	Regular	Mar 28, 2002	2,379,594		
TR-038-CA	Real-Time Method For Bit-Reversal of Large Size Arrays	Jin	Issued IMSCIENCES	CA	Regular	July 9, 2001	2,352,683	Nov 15, 2005	2,352,683
TR-038-US	Real-Time Method For Bit-Reversal of Large Size Arrays	Jin	Issued IMSCIENCES	US	Regular	July 9, 2001	09/900,153	Sept 7, 2004	6,789,097
TR-041-US	Topology Discovery in Optical WDM Networks	Obeda Bierman Dang Nelles Neustadter	Issued	US	Regular	Sept 27, 2001	09/963,501	Nov 22, 2005	6,968,131
TR-041-CA	Topology Discovery in Optical WDM Networks	Obeda Bierman Dang Nelles Neustadter	Filed	CA	Regular	Sept 27, 2001	2,357,988		

TR-041-EP	Topology Discovery in Optical WDM Networks	Obeda Bierman Dang Nelles Neustadter	Filed	EPO	PCT	June 4, 2002	2,732,282.50		
TR-043-US	System and Method for Performing Pre-emptive Protection Switching	Vieregge Johnsen Carpini Donnelly	Issued	US	Regular	Dec 26, 2001	10/025,868	July 5, 2005	6,915,463
TR-043-CA	System and Method for Performing Pre-emptive Protection Switching	Vieregge Johnsen Carpini Donnelly	Filed	CA	Regular	May 10, 2002	2,365,648		
TR-047-CA	Method and Apparatus for Network Link Planning	Braun Gholamhosseini	Filed	CA	PCT	July 8, 2002	2,455,569		
TR-048-US	Control Communications in Communications Networks	Dang Heatley	Issued	US	Regular	Aug 23, 2001	09/934,851	Apr 25, 2006	7,035,209
TR-048-CA	Control Communications in Communications Networks	Dang Heatley	Filed	CA	Regular	Apr 19, 2002	2,382,505		
TR-051-US	TDM-Quality Voice Over Packet	Skemer	Issued	US	Regular	Oct 15, 1999	09/419,471	May 27, 2003	6,570,849
TR-052-US	A Method of Labeling Data Units with a Domain Field	Skemer	Issued	US	Regular	Dec 10, 1999	09/464,452	May 20, 2003	6,567,406
TR-053-CA	Distributed Subscriber Management System	Skemer	Filed	CA	Regular	Jan 14, 2000	2,296,213		
TR-053-US	Distributed Subscriber Management System	Skemer	OA Received	US	Regular	Jan 8, 2001	09/755,037		

TR-056-CA	Avoiding Amplified Spontaneous Emission Loops in Optical Networks	Kelly Wan	Filed	CA	Regular	May 10, 2002	2,385,846		
TR-058-US	Method and System for Traffic Management in Packet Networks Using Random Early Marking	Zboril	Issued IMSCIENCES	US	Regular	Oct 4, 2001	09/969,785	Dec 20, 2005	6,977,943
TR-058-CA	Method and System for Traffic Management in Packet Networks Using Random Early Marking	Zboril	Filed IMSCIENCES	CA	Regular	Oct 4, 2001	2,358,284		
TR-060-US	Monitor, System and Method for Monitoring Performance of a Scheduler	Saint-Hilaire Hristov	Issued IMSCIENCES	US	Regular	Dec 28, 2001	10/028,286	15-Aug-06	7,092,360
TR-060-CA	Monitor, System and Method for Monitoring Performance of a Scheduler	Saint-Hilaire Hristov	Filed IMSCIENCES	CA	Regular	July 2, 2002	2,392,498		
TR-067-CA	Protection System and Method for Resilient Packet Ring (RPR) Interconnection	Lee Bacque	Filed	CA	Regular	July 10, 2002	2,392,942		
TR-067-US	Protection System and Method for Resilient Packet Ring (RPR) Interconnection	Lee Bacque	Filed	US	Regular	July 10, 2002	10/191,548		
TR-068-US	Label Switched Routing System and Method	Marian Oprea	Issued IMSCIENCES	US	Regular	Oct 19, 2001	09/981,887	Jan 3, 2006	6,982,977
TR-068-CA	Label Switched Routing System and Method	Marian Oprea	Filed IMSCIENCES	CA	Regular	May 10, 2002	2,385,844		

TR-073-US	Real-Time Method and Apparatus for Performing a Large Size Fast Fourier Transform	Jin Wan Marziliano	Issued	US	Regular	Dec 26, 2001	10/025,870	Nov 8, 2005	6,963,892
TR-073-CA	Real-Time Method and Apparatus for Performing a Large Size Fast Fourier Transform	Jin Wan Marziliano	Filed	CA	Regular	May 17, 2002	2,386,711		
TR-074-CA #1	Channel Identification in Communications Networks	Wan Remedios Jin Chimfwembe	Filed	CA	Regular	Oct 5, 2001	2,358,382		
TR-074-US	Channel Identification in Communications Networks	Wan Remedios Jin Chimfwembe	Issued	US	Regular	Oct 10, 2001	09/972,991	30-May-06	7,054,556
TR-074-US-CIP#1	Channel Identification in Communications Networks	Wan Remedios Jin Chimfwembe	Issued	US	CIP	Feb 8, 2002	10/067,748	02-Jan-07	7,158,723
TR-074-US-CIP#2	Channel Identification in Communications Networks	Wan Remedios Jin Chimfwembe	Issued	US	CIP	Oct 4, 2002	10/263,959	26-Dec-06	7,155,122
TR-074-CA#2	Channel Identification in Communications Networks	Wan Remedios Jin Chimfwembe	Filed	CA	PCT	Oct 4, 2002	2,458,383		
TR-074-EP	Channel Identification in Communications Networks	Wan Remedios Jin Chimfwembe	Issued	EPO	PCT	Oct 4, 2002	2764461.6		1433278
TR-074-EP-DIV	Channel Identification in Communications Networks	Wan Remedios Jin Chimfwembe	Issued	EPO	Divisional	Nov 25, 2004	4027996	30-May-06	1508988
TR-075-US	Method and Apparatus for Spectrum Analysis with Variable Detection	Jin	Issued	US	Regular	Nov 26, 2001	09/991,683	July 22, 2003	6,597,161

Patent No.	Inventor(s)	Applicant	Country	IPC Class.	Priority Date	Pub. Date	Pub. No.	Pub. No.
TR-075-CA	Wan Remedios Chimfwembe Jin Wan Remedios Chimfwembe	CA	Filed	PCT	June 10, 2002		2,464,251	
TR-077-US	Mark Patriarche	US	Issued	Regular	Dec 26, 2001	Mar 14, 2006	10/025,872	7,012,933
TR-077-CA	Mark Patriarche	CA	Filed	Regular	May 17, 2002		2,386,963	
TR-080-US	Ng	US	Issued	Regular	Mar 5, 2002	Sept 7, 2004	10/087,863	6,786,844
TR-080-CA	Ng	CA	Filed	Regular	May 17, 2002		2,386,962	
TR-081-US	Marian Oprea	US	Issued	Regular	Dec 21, 2001	Feb 14, 2006	10/023,758	7,000,029
TR-081-CA	Marian Oprea	CA	Filed	Regular	June 10, 2002		2,390,331	

TR-082-US	An Apparatus and Method for Controlling Data Transmission	Russell Chouinard Van Asten	Filed	US	Regular	Sept 20, 2002	10/247,472		
TR-082-CA#2	An Apparatus and Method for Controlling Data Transmission	Russell Chouinard Van Asten	Filed	CA	Regular	Oct 11, 2002	2,407,966		
TR-082-CA#1	An Apparatus and Method for Controlling Data Transmission	Russell Chouinard Van Asten	Filed	CA	Regular	Dec 31, 2001	2,366,397		
TR-083-CA	Interconnect System with Error Correction	Maung Raahemi Zboril Van Asten	Filed IMSCIENCES	CA	Regular	Nov 30, 2001	2,354,072		
TR-083-US	Interconnect System with Error Correction	Maung Raahemi Zboril Van Asten	Issued IMSCIENCES	US	Regular	Dec 5, 2001	10/004,441	Dec 27, 2005	6,981,200
TR-086-US	Flexible Optical Network Architecture and Optical Add/Drop Multiplexer/Demultiplexer Therefor	Liu	Issued IMSCIENCES	US	CIP	Dec 13, 2001	10/013,676	July 15, 2003	6,594,045
TR-086-CA	Flexible Optical Network Architecture and Optical Add/Drop Multiplexer/Demultiplexer Therefor	Liu	Filed IMSCIENCES	CA	Regular	Nov 8, 2002	2,411,630		

TR-091-US	Method and Apparatus for Integrated Network Planning and Business Modeling	Ngi Marcellus Beamish	Filed	US	Regular	Apr 24, 2002	10/128,340		
TR-091-CA	Method and Apparatus for Integrated Network Planning and Business Modeling	Ngi Marcellus Beamish	Filed	CA	PCT	Jan 10, 2003	2,475,103		
TR-094-US	Method and Apparatus for Selecting Maximally Disjoint Shortest Paths in a Network	Wong Pieda Neustadter	Issued	US	Regular	Apr 15, 2002	10/121,654	16-May-06	7,046,634
TR-094-CA	Method and Apparatus for Selecting Maximally Disjoint Shortest Paths in a Network	Wong Pieda Neustadter	Filed	CA	Regular	Jan 30, 2003	2,417,864		
TR-095-US	Methods and Systems Preventing Frame Mis-Ordering in Explicitly Routed Networks	Grabner Lee Van Gulik	Filed	US	Regular	May 9, 2002	10/140,997		
TR-095-CA	Methods and Systems Preventing Frame Mis-Ordering in Explicitly Routed Networks	Grabner Lee Van Gulik	Filed	CA	Regular	Jan 30, 2003	2,417,683		



TR-097-US	High-Speed Packet Memory	Van Asten Maung Dada	Issued IMSCIENCES	US	Regular	July 15, 2002	10/194,277	Oct 24, 2006	7,126,959
TR-101-US	Communication System with Balanced Transmission Bandwidth	Zboril	Issued	US	Regular	June 18, 2002	10/173,304	Oct 24, 2006	7,126,970
TR-101-CA	Communication System with Balanced Transmission Bandwidth	Zboril	Filed	CA	Regular	June 18, 2002	2,390,883		
TR-102-US	Method and Apparatus of Computation Reduction for Tone Detection	Jin Wan Remedios Marziliano	Issued	US	Regular	Apr 30, 2002	10/134,382	May 4, 2004	6,732,058
TR-102-CA#1	Method and Apparatus of Computation Reduction for Tone Detection	Jin Wan Remedios Marziliano	Filed	CA	Provisional	Mar 20, 2002	2,377,623		
TR-106-CA	A Switch and a Switching Apparatus for a Communication Network	Wirth Zboril Oprea	Filed	CA	Regular	Nov 8, 2002	2,411,637		
TR-106-US	A Switch and a Switching Apparatus for a Communication Network	Wirth Zboril Oprea	Issued	US	Regular	Mar 29, 2002	10/108,515	30-Jan-07	7,170,895
TR-110-US	Method and System of Measuring Latency and Packet Loss in a Network	Edmison Johnsen Carpini	Issued IMSCIENCES	US	Regular	Apr 30, 2002	10/134,553	Oct 24, 2006	7,127,508

TR-110-CA	Method and System of Measuring Latency and Packet Loss in a Network	Edmison Johnsen Carpini	Filed	IMSCIENCES	CA	PCT	Oct 11, 2002	2,466,913		
TR-113-US	A Method for Visualization of Optical Network Topology	Nelles Obeda Adamski Donnelly	Issued		US	Regular	Mar 20, 2002	10/101,155	16-May-06	7,047,496
TR-113-CA	A Method for Visualization of Optical Network Topology	Nelles Obeda Adamski Donnelly	Filed		CA	Regular	Nov 8, 2002	2,411,423		
TR-113-US (DIV)	A Method for Visualization of Optical Network Topology	Nelles Obeda Adamski Donnelly	Filed		US	Divisional	Feb 7, 2006	11/348,322		
TR-119-US	Method and System for Identification of Channels in an Optical Network	Obeda Remedios Wan Kelly	Filed		US	Regular	Sept 30, 2002	10/259,290		
TR-119-CA	Method and System for Identification of Channels in an Optical Network	Obeda Remedios Wan Kelly	Filed		CA	Regular	June 2, 2003	2,430,797		
TR-119-US-CIP	Method and System for Identification of Channels in an Optical Network	Obeda Remedios Wan Kelly	Issued		US	CIP	June 3, 2003	10/452,511	28-Nov-06	7,142,783
TR-121-US	Method and Apparatus for Gain Excursion Minimization in Automatic Gain Controlled Optical Systems	Ng Wan Remedios Bierman Nguyen	Issued		US	Regular	July 16, 2002	10/195,495	June 7, 2005	6,903,867

TR-121-CA	Method and System for Multi-Level Management of an Optical Network Including Automatic Initialization	Ng Wan Remedios Bierman Nguyen	Filed	CA	PCT	Jan 10, 2003	2,472,737		
TR-122-US	Method and System for Automatic Initialization of an Optical Network	Wan Remedios Ng	Issued	US	Regular	Oct 1, 2002	10/260,621	June 27, 2006	7,068,932
TR-134-CA	Multi-Constraint Routing System and Method	Lee	Filed	CA	PCT	Aug 9, 2002	2,466,905		
TR-134-US	Multi-Constraint Routing System and Method	Lee	Filed	US	CIP	May 23, 2002	10/152,832		
TR-135-CA	System and Method for Providing Protection of Data Communications in Packet-Based Networks	Mark Zboril	Filed	CA	Regular	Nov 8, 2002	2,411,410		
TR-135-US	System and Method for Providing Protection of Data Communications in Packet-Based Networks	Mark Zboril	Filed	US	Regular	July 12, 2002	10/193,129		
TR-138-CA	System and Method for Distributed Resource Reservation Protocol - Traffic Engineering (RSVP-TE) Hitless Restart in Multi-Protocol Label Switching (MPLS) Network	Seddigh Nandy Bennett	Filed	CA	Regular	May 12, 2003	2,428,517		

TR-138-US	System and Method for Distributed Resource Reservation Protocol - Traffic Engineering (RSVP-TE) Hitless Restart in Multi-Protocol Label Switching (MPLS) Network	Seddigh Nandy Bennett	Filed	US	Regular	May 12, 2003	10/435,458		
TR-142-CA	Fast Work-Conserving Round Robin Scheduling	Romanko	Filed	CA	Regular	Feb 6, 2003	2,418,500		
TR-142-US	Fast Work-Conserving Round Robin Scheduling	Romanko	Allowed	US	Regular	Oct 21, 2002	10/273,857		
TR-143-CA	Method and System for Monitoring Performance of Optical Network	Liu Obeda Vethanayagam Oprea	Filed	CA	Regular	May 3, 2002	2,384,581		
TR-143-US	Method and System for Monitoring Performance of Optical Network	Liu Obeda Vethanayagam Oprea	Issued	US	Regular	May 2, 2002	10/136,407	27-Feb-07	7,184,660
TR-151-US	Method and System for Determining Location and Value of Dispersion Compensating Modules in an Optical Network	Ng Kelly Pieda	Issued	US	Regular	Oct 21, 2002	10/273,858	Dec 7, 2004	6,829,406
TR-151-CA	Method and System for Determining Location and Value of Dispersion Compensating Modules in an Optical Network	Ng Kelly Pieda	Filed	CA	Regular	Feb 6, 2003	2,418,544		
TR-152-US	Duplex Reflective Re-Configurable Optical Add/Drop Multiplexer	Kelly	Issued	US	Regular	May 19, 2003	10/440,222	Dec 14, 2004	6,832,019

TR-152-CA	Duplex Reflective Re-Configurable Optical Add/Drop Multiplexer	Kelly	Filed	CA	Regular	May 20, 2003	2,428,939		
TR-155-US	Method and System for Powering Up an Optical Network	McCloskey Braun Ng	Filed IMSCIENCES	US	Regular	July 18, 2003	10/621,413		
TR-155-CA	Method and System for Powering Up an Optical Network	McCloskey Braun Ng	Filed	CA	Regular	July 18, 2003	2,435,726		
TR-159-US	Method for Determining Optimal Location and Value of Dispersion Compensation Modules in an Optical Network	Ng	Issued	US	Regular	May 23, 2003	10/443,965	Aug 24, 2004	6,782,159
TR-159-CA	Method for Determining Optimal Location and Value of Dispersion Compensation Modules in an Optical Network	Ng	Filed	CA	Regular	May 23, 2003	2,429,475		
TR-160-CA	Method and System for Precision Cross-Talk Cancellation in Optical Amplifiers	Chimfwembe Nguyen Chan	Filed	CA	Regular	June 30, 2003	2,434,148		
TR-160-US	Method and System for Precision Cross-Talk Cancellation in Optical Amplifiers	Chimfwembe Nguyen Chan	Issued	US	Regular	June 30, 2003	10/607,968	Apr 18, 2006	7,031,050
TR-161-US	A Method for Describing Problems in a Telecommunications Network	Scarth	Filed	US	Regular	June 27, 2003	10/606,896		
TR-161-CA	A Method for Describing Problems in a Telecommunications Network	Scarth	Filed	CA	Regular	June 27, 2003	2,433,766		
TR-163-US	Optical Ring Interconnect	Bacque	Issued IMSCIENCES	US	Regular	July 7, 2003	10/612,908	June 28, 2005	6,912,340

TR-163-CA	Optical Ring Interconnect	Bacque	Filed IMSCIENCES	CA	Regular	July 7, 2003	2,434,729		
TR-165-US	Method for Determining Locations and Gain Settings of Amplifiers in an Optical Network	Ng Kelly	Issued	US	Regular	May 22, 2003	10/443,058	16-May-06	7,046,426
TR-165-CA	Method for Determining Locations and Gain Settings of Amplifiers in an Optical Network	Ng Kelly	Filed	CA	Regular	May 22, 2003	2,429,304		
TR-167-US	High-Speed Memory Having a Modular Structure	Van Asten Dada Maung	OA Responded IMSCIENCES	US	Regular	Sept 20, 2002	10/247,568		
TR-167-CA	High-Speed Memory Having a Modular Structure	Van Asten Dada Maung	Filed IMSCIENCES	CA	Regular	Jan 30, 2003	2,417,862		
TR-168-US	Method and Apparatus for Controlling a Variable Optical Attenuator in an Optical Network	Bierman Mohairram Donnelly	Issued	US	Regular	May 19, 2003	10/440,247	Jan 17, 2006	6,987,922
TR-168-CA	Method and Apparatus for Controlling a Variable Optical Attenuator in an Optical Network	Bierman Mohairram Donnelly	Filed	CA	Regular	May 20, 2003	2,429,083		
TR-170-US	Method and System for Multi-Level Power Management in an Optical System	Ng McCloskey	Filed	US	Regular	Aug 12, 2003	10/638,378		

TR-170-CA	Method and System for Multi-Level Power Management in an Optical System	Ng McCloskey	Filed	CA	Regular	Nov 20, 2003	2,450,152		
TR-171-US	Method and System for Selective Optical Payload Cancellation	Remedios Chan Chimfwembe Wan	Allowed	US	Regular	Aug 7, 2003	10/635,561		
TR-171-CA	Method and System for Selective Optical Payload Cancellation	Remedios Chan Chimfwembe Wan	Filed	CA	Regular	Aug 7, 2003	2,436,726		
TR-172-US	Reconfigurable Optical Add/Drop Multiplexer With Buried Dispersion Compensation Module	Kelly	Issued	US	Regular	Aug 8, 2003	10/636,664	Aug 16, 2005	6,931,176
TR-172-CA	Reconfigurable Optical Add/Drop Multiplexer With Buried Dispersion Compensation Module	Kelly	Filed	CA	Regular	Oct 9, 2003	2,444,078		
TR-172-AU	Reconfigurable Optical Add/Drop Multiplexer With Buried Dispersion Compensation Module	Kelly	Filed	AU	Regular	Nov 14, 2003	2003286050		
TR-172-EP	Reconfigurable Optical Add/Drop Multiplexer With Buried Dispersion Compensation Module	Kelly	Filed	EPO	Regular	Nov 14, 2003	3776724.1		
TR-174-CA	Method and Apparatus for Operating Variable Optical Attenuator by Modulating the Attenuation Thereof	Scarth Bierman Grabner	Filed	CA	Regular	July 15, 2003	2,435,259		

TR-174-US	Method and Apparatus for Operating Variable Optical Attenuator by Modulating the Attenuation Thereof	Scarath Bierman Grabner	Issued	US	Regular	July 15, 2003	10/618,604	July 04, 2006	7,072,561
TR-174-AU	Method and Apparatus for Operating Variable Optical Attenuator by Modulating the Attenuation Thereof	Scarath Bierman Grabner	Filed	AU	PCT	Jan 22, 2004	2004206598		
TR-174-EU	Method and Apparatus for Operating Variable Optical Attenuator by Modulating the Attenuation Thereof	Scarath Bierman Grabner	Filed	EPO	PCT	Jan 22, 2004	4704159.5		
TR-175-CA	Method and Apparatus for Optical Add/Drop Multiplexing in Optical Networks	Wan Remedios Oprea Chimfwembe	Filed	CA	Regular	Nov 18, 2003	2,449,592		
TR-175-US	Method and Apparatus for Optical Add/Drop Multiplexing in Optical Networks	Wan Remedios Oprea Chimfwembe	Issued	US	Regular	Aug 7, 2003	10/635,544	21-Nov-06	7,139,486



TR-176-CA	A Method and System for Light Path Monitoring in an Optical Communication Network	Seddigh Nandy Obeda Patriarche Neustadter	Filed	CA	Regular	Dec 2, 2003	2,451,888		
TR-176-US	A Method and System for Light Path Monitoring in an Optical Communication Network	Seddigh Nandy Obeda Patriarche Neustadter	Filed	US	Regular	Dec 2, 2003	10/725,025		
TR-177-CA	Method and Apparatus for Compensating for Side Effects of Cross Gain Modulation in Amplified Optical Networks	Obeda Bierman Bacque Kelly Remedios Wan	Issued	CA	Regular	Dec 19, 2003	2,453,813		
TR-177-US	Method and Apparatus for Compensating for Side Effects of Cross Gain Modulation in Amplified Optical Networks	Obeda Bierman Bacque Kelly Remedios Wan	Issued	US	Regular	July 29, 2003	10/628,418	24-Oct-06	7,127,165

TR-182-CA	Method for Determining Location and Gain Settings of Amplifiers in an Optical Network by Using a Genetic Algorithm	Ng Kelly	Filed	CA	Regular	May 23, 2003	2,429,474		
TR-182-US	Method for Determining Location and Gain Settings of Amplifiers in an Optical Network by Using a Genetic Algorithm	Ng Kelly	Issued	US	Regular	May 23, 2003	10/443,955	May 2, 2006	7,038,837
TR-190-US	Method and System for Operating a Plurality of Electronic Variable Optical Attenuators (eVOAs)	Scarth Bierman Obeda Moharram Donnelly	Issued	US	Regular	July 15, 2003	10/618,582	Feb 7, 2006	6,996,323
TR-190-CA	Method and System for Operating a Plurality of Electronic Variable Optical Attenuators (eVOAs)	Scarth Bierman Obeda Moharram Donnelly	Filed	CA	Regular	July 15, 2003	2,435,131		
TR-191-US	Optical Wavekey Network and Method for Distributing Management Information Therein	Neustadter Grabner	Filed	US	Regular	Dec 12, 2003	10/733,327		
TR-191-CA	Optical Wavekey Network and Method for Distributing Management Information Therein	Neustadter Grabner	Filed	CA	Regular	Dec 15, 2003	2,453,079		
TR-192-US	System and Method for Power Management in an Optical Network	Ng Remedios Kelly Wan Groves	Issued	US	Regular	Sept 30, 2003	10/673,790	21-Nov-06	7,139,480

TR-192-CA	System and Method for Power Management in an Optical Network	Ng Remedios Kelly Wan Groves	Filed	CA	Regular	Mar 2, 2004	2,459,963		
TR-199-US	Method and Apparatus for Suppression of Alarms Across Network Elements	Castonguay Groves	Filed	US	Regular	Nov 12, 2004	10/986,347		
TR-199-CA	Method and Apparatus for Suppression of Alarms Across Network Elements	Castonguay Groves	Filed	CA	Regular	Nov 12, 2004	2,487,629		
TR-200-US	A Method and System for Network Wide Fault Isolation in an Optical Network	MacDonald	Filed	US	Regular	Nov 5, 2004	10/981,591		
TR-200-CA	A Method and System for Network Wide Fault Isolation in an Optical Network	MacDonald	Filed	CA	Regular	Nov 4, 2004	2,486,780		
TR-202-US	Methods and Apparatus for Detecting a Faulty Component along an Optical Path in an Optical Network	Bacque Wan Remedios Ng	Issued	US	Regular	Feb 25, 2005	11/065,098	21-Nov-06	7,139,069
TR-202-CA	Methods and Apparatus for Detecting a Faulty Component Along an Optical Path in an Optical Network	Bacque Wan Remedios Ng	Filed	CA	Regular	Feb 25, 2005	2,498,441		

TR-204-US	A Method for Network Commissioning Using Amplified Spontaneous Emission (ASE) Sources	Ng De Rocher Remedios Bacque Wan	Abandoned by USPTO mistake - will be reinstated	US	Regular	July 12, 2005	11/178,330		
TR-204-PCT	A Method for Network Commissioning Using Amplified Spontaneous Emission (ASE) Sources	Ng De Rocher Remedios Bacque Wan	Filed	PCT	PCT	July 12, 2005	CA2005/001071		
TR-205-Prov	A Method and System for Cost Minimization of Remotely Located Telecommunications Equipment	Bacque	Filed	US	Provisional	Feb 7, 2006	60/765,732		
TR-206-US	Method and System for Providing a Signature Signal in an Optical Network in the Event of Loss of a Client	Holmes Reepschlager	Filed	US	Regular	July 20, 2005	11/184,966		
TR-206-CA	Method and System for Providing a Signature Signal in an Optical Network in the Event of Loss of a Client	Holmes Reepschlager	Filed	CA	Regular	July 20, 2005	2,512,710		
TR-214-US	Method and System for Improved management of a communication network by extending the simple network management protocol	Spicer Edmison	Filed	US	Regular	June 15, 2006	11/452,922		

TR-214-CA	Method and System for Improved management of a communication network by extending the simple network management protocol	Spicer Edmison	Filed	CA	Regular	June 15, 2006	2,550,323		
TR-215-US	A Method of Avoiding Amplified Spontaneous Emission Loops in an Optical Network	Carpini Spicer	Filed	US	Regular	June 14, 2006	11/452,200		

TR-215-CA	A Method of Avoiding Amplified Spontaneous Emission Loops in an Optical Network	Carpini Spicer	Filed	CA	Regular	June 14, 2006	2,550,559		
TR-218-US-prov	A Method for Network Upgrade Using Amplified Spontaneous Emission (ASE) Sources	De Rocher Macdonald Carpini	Filed	US	Provisional	Dec 27, 2005	60/753,477		
TR-221-US	Noise Tone Avoidance in Optical Networks	Remedios Bacque Wan	Filed	US	Provisional	30-May-06	60/808,977		
TR-224-US	High Precision Loss Variation Measurements using Wavelength Tracker Techniques	De Rocher Bacque Remedios Harney	Filed	US	Provisional	April 06, 2006	60/789,597		
TR-225-US	Method and System for an Improved Sub-Carrier Based Power Measurement in Optical Networks	Wan	Filed	US	Provisional	30-May-06	60/808,975		
TR-230-US Back	Method and system for distributed measurement and compensation of chromatic dispersion in optical networks	Wan	Filed	US	Provisional	21-Jan-07	60/885,909		

