

PATENT ASSIGNMENT

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Postal Code:	19808
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CORRESPONDENCE DATA	
Fax Number:	(608)258-4258
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	608-257-5035
Email:	MadisonIPDocketing@foley.com, dlawson@foley.com
Correspondent Name:	Paul S. Hunter
Address Line 1:	Verex Plaza 150 East Gilman Street
Address Line 2:	Foley & Lardner LLP
Address Line 4:	Madison, WISCONSIN 53703-1481
ATTORNEY DOCKET NUMBER:	088245-7531
NAME OF SUBMITTER:	Paul S. Hunter
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 - (i) damages,
 - (ii) injunctive relief, and
 - (iii) any other remedies of any kind

for past, current, and future infringement; and

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

<u>Patent or application no.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and Inventors</u>
<u>5,068,749</u> <u>(07/577,220)</u>	US	<u>11/26/1991</u> <u>(8/31/1990)</u>	<u>Electronically tunable</u> <u>polarization-independent</u> <u>liquid crystal optical filter</u> <u>Patel, Jayantilal S.</u>
<u>5,150,236</u> <u>(07/598,476)</u>	US	<u>9/22/1992</u> <u>(10/16/1990)</u>	<u>Tunable liquid crystal etalon</u> <u>filter</u> <u>Patel, Jayantilal S.</u>
<u>5,132,824</u> <u>(07/651,028)</u>	US	<u>7/21/1992</u> <u>(2/5/1991)</u>	<u>Liquid-crystal modulator array</u> <u>Patel, Jayantilal S.; Weiner,</u> <u>Andrew M.</u>
<u>5,111,321</u> <u>(07/677,769)</u>	US	<u>5/5/1992</u> <u>(3/29/1991)</u>	<u>Dual-polarization liquid-</u> <u>crystal etalon filter</u> <u>Patel, Jayantilal S.</u>
<u>5,218,604</u> <u>(07/577,273)</u>	US	<u>6/8/1993</u> <u>(8/31/1990)</u>	<u>Dual-hubbed arrangement to</u> <u>provide a protected ring</u> <u>interconnection</u> <u>Sosnosky, Joseph</u>
<u>CA2090429</u> <u>(CA2090429)</u>	CA	<u>7/6/1999</u> <u>(5/7/1991)</u>	<u>DUAL-HUBBED</u> <u>ARRANGEMENT TO</u> <u>PROVIDE A PROTECTED</u> <u>RING INTERCONNECTION</u> <u>SOSNOSKY JOSEPH</u>
<u>FR0545936</u> <u>(FR91911538.6)</u>	FR	<u>9/8/1999</u> <u>(5/7/1991)</u>	<u>A DUAL-HUBBED</u> <u>ARRANGEMENT TO</u> <u>PROVIDE A PROTECTED</u> <u>RING INTERCONNECTION</u> <u>SOSNOSKY JOSEPH</u>
<u>GB0545936</u> <u>(GB91911538.6)</u>	GB	<u>9/8/1999</u> <u>(5/7/1991)</u>	<u>A DUAL-HUBBED</u> <u>ARRANGEMENT TO</u> <u>PROVIDE A PROTECTED</u> <u>RING INTERCONNECTION</u> <u>SOSNOSKY JOSEPH</u>
<u>JP2084528</u> <u>(JP03-510178)</u>	JP	<u>8/23/1996</u> <u>(5/7/1991)</u>	<u>A DUAL-HUBBED</u> <u>ARRANGEMENT TO</u> <u>PROVIDE A PROTECTED</u> <u>RING INTERCONNECTION</u> <u>SOSNOSKY JOSEPH</u>

<u>5,381,434</u> (08/039,771)	US	<u>1/10/1995</u> (3/30/1993)	<u>High-temperature, uncooled diode laser</u> <u>Bhat, Rajaram; Zah, Chung-en</u>
<u>CN2194109147.3</u> (CN94109147.3)	CN	<u>12/15/2000</u> (9/9/1994)	<u>High-Temperature, Uncooled Diode Laser</u> <u>Bart Rajaram;</u> <u>Jahar Tong</u>
<u>5,541,949</u> (08/380,427)	US	<u>7/30/1996</u> (1/30/1995)	<u>Strained silicon quantum-well diode lasers</u> <u>Bhat, Rajaram; Zah, Chung-En</u>
<u>5,793,745</u> (08/645,638)	US	<u>8/11/1998</u> (5/13/1996)	<u>Bundled protection switching in a wide area network background of the invention</u> <u>Manchester, James S.</u>
<u>CA2252807</u> (CA2252807)	CA	<u>7/4/2000</u> (5/5/1997)	<u>Bundled protection switching in a wide area network</u> <u>Manchester, James S.</u>
<u>6,167,325</u> (08/826,253)	US	<u>12/26/2000</u> (9/5/1997)	<u>Methods and apparatus for restoring connections in an ATM network</u> <u>Hsing, Deh-phone K.; Wu, Tsung-Hu; Kant, Latha;</u> <u>Cheng, Bo-Chao; Goncu, Yusuf Goksel</u>
<u>5,999,288</u> (09/170,454)	US	<u>12/7/1999</u> (10/12/1998)	<u>Connection set-up and path assignment in wavelength division multiplexed ring networks</u> <u>Ellinas, Georgios Nicos; Bala, Krishna; Chang, Gee-Kung</u>
<u>CA2319805</u> (CA2319805)	CA	<u>7/12/2005</u> (1/19/1999)	<u>Connection set-up and path assignment in wavelength division multiplexed ring networks</u> <u>Ellinas, Georgios Nicos; Bala, Krishna; Chang, Gee-Kung</u>

<u>6,724,747</u> (09/205,560)	<u>US</u>	<u>4/20/2004</u> (12/3/1998)	<u>Method and system for media connectivity over a packet-based network</u> <u>Arango, Mauricio; Cahl, Louis; Cook, Michael J.; Ely, Thomas C.; Huitema, Christian; Obrock, Frederick; Smyk, Darek A.</u>
<u>CA2312325</u> (CA2312325)	<u>CA</u>	<u>11/9/2004</u> (12/3/1998)	<u>Method and system for media connectivity over a packet-based network</u> <u>Arango, Mauricio; Cahl, Louis; Cook, Michael J.; Ely, Thomas C.; Huitema, Christian; Obrock, Frederick; Smyk, Darek A.</u>
<u>6,549,572</u> (09/304,274)	<u>US</u>	<u>4/15/2003</u> (5/6/1999)	<u>Method and apparatus for automated time domain monitoring in optical networks</u> <u>Anderson, William T.; Banwell, Thomas C.; Cheung, Nim K.; Hodge, James E.</u>
<u>CA2331462</u> (CA2331462)	<u>CA</u>	<u>7/5/2005</u> (5/13/1999)	<u>Method and apparatus for automated time domain monitoring in optical networks</u> <u>Anderson, William T.; Banwell, Thomas C.; Cheung, Nim K.; Hodge, James E.</u>
<u>DE69929881</u> (DE69929881.4)	<u>DE</u>	<u>2/15/2006</u> (5/13/1999)	<u>Method and apparatus for automated time domain monitoring in optical networks</u> <u>Anderson, William T.; Banwell, Thomas C.; Cheung, Nim K.; Hodge, James E.</u>
<u>GB1078481</u> (GB99921955.3)	<u>GB</u>	<u>2/15/2006</u> (5/13/1999)	<u>Method and apparatus for automated time domain monitoring in optical networks</u> <u>Anderson, William T.; Banwell, Thomas C.; Cheung, Nim K.; Hodge, James E.</u>

<u>TW142174</u> <u>(TW088107769)</u>	<u>TW</u>	<u>9/21/2001</u> <u>(5/13/1999)</u>	<u>Method and apparatus for</u> <u>automated time domain</u> <u>monitoring in optical networks</u> <u>Anderson, William T.;</u> <u>Banwell, Thomas C.; Cheung,</u> <u>Nim K.; Hodge, James E.</u>
<u>MY124085</u> <u>(MY9901890)</u>	<u>MY</u>	<u>6/30/2006</u> <u>(5/13/1999)</u>	<u>Method and apparatus for</u> <u>automated time domain</u> <u>monitoring in optical networks</u> <u>Anderson, William T.;</u> <u>Banwell, Thomas C.; Cheung,</u> <u>Nim K.; Hodge, James E.</u>
<u>MX222823</u> <u>(MX10581)</u>	<u>MX</u>	<u>9/20/2004</u> <u>(5/13/1999)</u>	<u>Method and apparatus for</u> <u>automated time domain</u> <u>monitoring in optical networks</u> <u>Anderson, William T.;</u> <u>Banwell, Thomas C.; Cheung,</u> <u>Nim K.; Hodge, James E.</u>
<u>6,851,052</u> <u>(09/458,336)</u>	<u>US</u>	<u>2/1/2005</u> <u>(12/10/1999)</u>	<u>Method and device for</u> <u>generating approximate</u> <u>message authentication codes</u> <u>Graveman, Richard F.</u>
<u>7,167,984</u> <u>(10/969,518)</u>	<u>US</u>	<u>1/23/2007</u> <u>(1/27/2005)</u>	<u>Method and device for</u> <u>generating approximate</u> <u>message authentication codes</u> <u>Graveman, Richard F.</u>
<u>6,513,218</u> <u>(09/832,693)</u>	<u>US</u>	<u>2/4/2003</u> <u>(4/11/2001)</u>	<u>Accessing fiber fracture</u> <u>surfaces in fiber optic</u> <u>connectors</u> <u>Gebizlioglu, Osman S.; Ozgur,</u> <u>Mustafa</u>
<u>6,612,006</u> <u>(10/277,019)</u>	<u>US</u>	<u>9/2/2003</u> <u>(10/21/2002)</u>	<u>Apparatus for extracting a</u> <u>fiber from a fiber-ferrule</u> <u>Gebizlioglu, Osman S.; Ozgur,</u> <u>Mustafa</u>
<u>5,115,436</u> <u>(07/521,114)</u>	<u>US</u>	<u>5/19/1992</u> <u>(5/4/1990)</u>	<u>Forward error correction code</u> <u>system</u> <u>McAuley, Anthony J.</u>

<u>5,341,474</u> <u>(07/884,515)</u>	US	<u>8/23/1994</u> <u>(5/15/1992)</u>	<u>Communications architecture</u> <u>and buffer for distributing</u> <u>information services</u> <u>Gelman, Alexander;</u> <u>Kobriniski, Haim; Smoot,</u> <u>Lanny S.; Weinstein, Stephen</u> <u>B.</u>
<u>CA2181243</u> <u>(CA2181243)</u>	CA	<u>9/26/2000</u> <u>(2/2/1994)</u>	<u>Communications architecture</u> <u>and buffer for distributing</u> <u>information services</u> <u>Gelman, Alexander;</u> <u>Kobriniski, Haim; Smoot,</u> <u>Lanny S.; Weinstein, Stephen</u> <u>B.</u>
<u>6,115,154</u> <u>(09/156,715)</u>	US	<u>9/5/2000</u> <u>(9/18/1998)</u>	<u>Method and system for</u> <u>detecting loss of signal in</u> <u>wavelength division</u> <u>multiplexed systems</u> <u>Antoniades, Neophytos;</u> <u>Jackel, Janet Lehr, Richards,</u> <u>Dwight Hugh; Xin, Wei</u>
<u>CA2343211</u> <u>(CA2343211)</u>	CA	<u>3/14/2006</u> <u>(1/11/1994)</u>	<u>METHOD AND SYSTEM</u> <u>FOR DETECTING LOSS OF</u> <u>SIGNAL IN WAVELENGTH</u> <u>DIVISION MULTIPLEXED</u> <u>SYSTEMS</u> <u>ANTONIADES</u> <u>NEOPHYTOS; JACKEL</u> <u>JANET LEHR; RICHARDS</u> <u>DWIGHT HUGH; XIN WEI</u>
<u>EP99945244.4</u>	EP	<u>8/26/1999</u>	<u>METHOD AND SYSTEM</u> <u>FOR DETECTING LOSS OF</u> <u>SIGNAL IN WAVELENGTH</u> <u>DIVISION MULTIPLEXED</u> <u>SYSTEMS</u> <u>ANTONIADES</u> <u>NEOPHYTOS; JACKEL</u> <u>JANET LEHR; RICHARDS</u> <u>DWIGHT HUGH; XIN WEI</u>

<u>JP3670583</u> (JP2000-571589)	JP	<u>4/22/2005</u> (8/26/1999)	<u>METHOD AND SYSTEM FOR DETECTING LOSS OF SIGNAL IN WAVELENGTH DIVISION MULTIPLEXED SYSTEMS</u> <u>ANTONIADES</u> <u>NEOPHYTOS; JACKEL</u> <u>JANET LEHR; RICHARDS</u> <u>DWIGHT HUGH; XIN WEI</u>
<u>TH052708</u>	TH	<u>9/26/1999</u>	<u>METHOD AND SYSTEM FOR DETECTING LOSS OF SIGNAL IN WAVELENGTH DIVISION MULTIPLEXED SYSTEMS</u> <u>ANTONIADES</u> <u>NEOPHYTOS; JACKEL</u> <u>JANET LEHR; RICHARDS</u> <u>DWIGHT HUGH; XIN WEI</u>
<u>MX230762</u> (MX2001002734)	MX	<u>9/21/2005</u> (9/26/1999)	<u>METHOD AND SYSTEM FOR DETECTING LOSS OF SIGNAL IN WAVELENGTH DIVISION MULTIPLEXED SYSTEMS</u> <u>ANTONIADES</u> <u>NEOPHYTOS; JACKEL</u> <u>JANET LEHR; RICHARDS</u> <u>DWIGHT HUGH; XIN WEI</u>
<u>IN199158</u> (IN2001/00362/CHE)	IN	<u>3/1/2006</u> (9/26/1999)	<u>METHOD AND SYSTEM FOR DETECTING LOSS OF SIGNAL IN WAVELENGTH DIVISION MULTIPLEXED SYSTEMS</u> <u>ANTONIADES</u> <u>NEOPHYTOS; JACKEL</u> <u>JANET LEHR; RICHARDS</u> <u>DWIGHT HUGH; XIN WEI</u>
<u>5,117,469</u> (07/649,659)	US	<u>5/26/1992</u> (2/1/1991)	<u>Polarization-dependent and polarization-diversified opto-electronic devices using a strained quantum well</u> <u>Cheung, Kwok-wai; Zah, Chung-en</u>

<u>6,075,631</u> (08/926,332)	US	<u>6/13/2000</u> (9/5/1997)	<u>Hitless reconfiguration of a wavelength division multiplexed optical communication network</u> <u>Bala, Krishna; Chang, Gee-Kung; Ellinas, Georgios Nicos; Post, Michael; Shen, Chien-Chung; Wei, John Yee-Keung</u>
<u>CA2298584</u> (CA2298584)	CA	<u>9/4/2001</u> (12/23/1997)	<u>Hitless reconfiguration of a wavelength division multiplexed optical communication network</u> <u>Wei, John Yee-Keung; Post, Michael; Shen, Chien-Chung; Ellinas, Georgios N.; Chang, Gee-Kung; Bala, Krishna</u>
<u>7443801</u> (10/975,641)	US	<u>10/28/2008</u> (10/28/2004)	<u>Remote estimation of round-trip delays in a data network</u> <u>Inventors: Arnold L. Neidhardt; Yegnanarayanan Chandramouli</u>
<u>CA2583595</u>	CA	<u>10/27/2005</u>	<u>Remote estimation of round-trip delays in a data network</u> <u>Inventors: Arnold L. Neidhardt; Yegnanarayanan Chandramouli</u>
<u>JP2007-539195</u>	JP	<u>10/27/2005</u>	<u>Remote estimation of round-trip delays in a data network</u> <u>Inventors: Arnold L. Neidhardt; Yegnanarayanan Chandramouli</u>
<u>EP05815125.9</u>	EP	<u>10/27/2005</u>	<u>Remote estimation of round-trip delays in a data network</u> <u>Inventors: Arnold L. Neidhardt; Yegnanarayanan Chandramouli</u>
<u>6,207,949</u> (09/437,838)	US	<u>3/27/2001</u> (11/10/1999)	<u>Method and apparatus for stabilizing attenuators in optical networks</u> <u>Jackel, Janet L.</u>

<u>5,173,695</u> (07/546,415)	US	<u>12/22/1992</u> (6/29/1990)	<u>High-speed flexible variable-length-code decoder</u> <u>Sun, Ming-Ting; Tzou, Kou-Hu</u>
<u>5,121,383</u> (07/615,014)	US	<u>6/9/1992</u> (11/16/1990)	<u>Duration limited statistical multiplexing in packet networks</u> <u>Golestani, S. Jamaloddin</u>
<u>5,319,638</u> (07/758,734)	US	<u>6/7/1994</u> (9/12/1991)	<u>Link-by-link congestion control for packet transmission systems</u> <u>Lin, Huai-An</u>
<u>5,414,707</u> (08/160,526)	US	<u>5/9/1995</u> (12/1/1993)	<u>Broadband ISDN processing method and system</u> <u>Johnston, Cesar A.; Smith, David J.; Young, Jr., Kenneth C.</u>
<u>5,917,624</u> (08/693,732)	US	<u>6/29/1999</u> (8/7/1996)	<u>Method and system for applying fiber to the curb architecture using a broadband gateway at service locations, including homes</u> <u>Wagner, Stuart S.</u>
<u>6,535,485</u> (09/410,581)	US	<u>3/18/2003</u> (10/1/1999)	<u>Methods and systems for an improved reliability packet network</u> <u>Story, Roger E.</u>
<u>6,868,544</u> (09/732,568)	US	<u>3/15/2005</u> (12/8/2000)	<u>Method and system for general-purpose interactive notifications</u> <u>Dalai, Siddhartha R.; Shim, Hyong Sop; Wullert, II, John R.</u>
<u>6,968,052</u> (09/768,417)	US	<u>11/22/2005</u> (1/24/2001)	<u>Method and apparatus for creating a presence monitoring contact list with dynamic membership</u> <u>Wullert, II, John R.</u>
<u>6,515,796</u> (09/812,324)	US	<u>2/4/2003</u> (3/20/2001)	<u>Saturated amplifier generating burst support signal</u> <u>Jackel, Janet</u>

<u>6,934,290</u> (10/057,462)	US	<u>8/23/2005</u> (1/25/2002)	<u>Determining connection information for a network</u> Story, Roger E.
<u>7,061,869</u> (10/091,267)	US	<u>6/13/2006</u> (3/5/2002)	<u>Apparatus and method for graceful reassignment of out-of-kilter communications paths</u> Luss, Hanan; Wong, Richard T.
<u>7,085,242</u> (10/104,241)	US	<u>8/1/2006</u> (3/22/2002)	<u>Virtual IP topology reconfiguration migration</u> Liu, Kevin H.
<u>7,289,456</u> (10/118,187)	US	<u>10/30/2007</u> (4/8/2002)	<u>Determining and provisioning paths within a network of communication elements</u> Gupta, Sanyogita; Ferrer, Richard; Raheja, Raj C.
<u>7,359,322</u> (10/216,968)	US	<u>4/15/2008</u> (8/12/2002)	<u>Dynamic bandwidth reallocation</u> Khurana, Sumit; Samtani, Sunil; Talpade, Rajesh
<u>5,179,548</u> (07/722,051)	US	<u>1/12/1993</u> (6/27/1991)	<u>Self-healing bidirectional logical-ring network using crossconnects</u> Sandesara, Niranjana B.
<u>CA2112386</u> (CA2112386)	CA	<u>1/12/1999</u> (2/6/1992)	<u>Self-healing bidirectional logical-ring network using crossconnects</u> Sandesara, Niranjana Bhogilal
<u>5802232</u> (08/602,391)	US	<u>9/1/1998</u> (2/16/1996)	<u>Bonded structure with portions of differing crystallographic orientations, particularly useful as a non linear optical waveguide</u> Bhat, Rajaram; Caneau, Catherine Genevieve; Koza, Mark A.; Yoo, Sung-Joo

			<u>Coherent blue/green optical source and other structures utilizing non-linear optical waveguide with Quasi-phase-matching grating</u>
<u>5,796,902</u> <u>(08/682,863)</u>	<u>US</u>	<u>8/18/1998</u> <u>(7/5/1996)</u>	<u>Bhat, Rajaram; Caneau, Catherine; Koza, Mark A.; Yoo, Sung Joo</u>
<u>MY9903348</u>	<u>MY</u>		
<u>MX1371</u>	<u>MX</u>		
<u>MY2004747</u>	<u>MY</u>		
<u>TH061487</u>	<u>TH</u>		
<u>TW089121215</u>	<u>TW</u>		

Assignor represents, warrants and covenants that:

(1) Assignor has the full power and authority, and has obtained all third party consents, approvals and/or other authorizations required to enter into this Agreement and to carry out its obligations hereunder, including the assignment of the Patent Rights to Assignee; and

(2) Assignor owns, and by this document assigns to Assignee, all right, title, and interest to the Patent Rights, including, without limitation, all right, title, and interest to sue for infringement of the Patent Rights. Assignor has obtained and properly recorded previously executed assignments for the Patent Rights as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction. The Patent Rights are free and clear of all liens, claims, mortgages, security interests or other encumbrances, and restrictions. There are no actions, suits, investigations, claims or proceedings threatened, pending or in progress relating in any way to the Patent Rights. There are no existing contracts, agreements, options, commitments, proposals, bids, offers, or rights with, to, or in any person to acquire any of the Patent Rights.

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

The terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Piscataway on January 22, 2010.

ASSIGNOR:

Telcordia Licensing Company, LLC

By: Ellen Brown
Name: Ellen Brown
Title: President

(Signature MUST be notarized)

STATE OF NEW JERSEY)
) ss.
COUNTY OF MIDDLESEX)

of New Jersey On JANUARY 28 2010, before me, PHILIP J FELT ^{an ATTORNEY OF THE STATE}, Notary Public in and ~~for said State~~, personally appeared ELLEN BROWN, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Philip J Felt (Seal)
Attorney of the State of New Jersey