

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Furukawa Electric North America, Inc.	12/22/2008
RECEIVING PARTY DATA	
Name:	OFS Fitel, LLC
Street Address:	2000 Northeast Expressway
Internal Address:	Intellectual Property Law Division
City:	Norcross
State/Country:	GEORGIA
Postal Code:	30071
PROPERTY NUMBERS Total: 6	
Property Type	Number
Patent Number:	8103142
Patent Number:	7925128
Patent Number:	8000570
Application Number:	12525124
Application Number:	12525138
Application Number:	12525122
CORRESPONDENCE DATA	
Fax Number:	(770)798-4501
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Email:	arocheater@ofsoptics.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	OFS Fitel, LLC
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CH \$240.00 8103142

PATENT

ATTORNEY DOCKET NUMBER:

OMNIBUS APPLICATIONS US

NAME OF SUBMITTER:

Allisha D. Rochester

Total Attachments: 59

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INTELLECTUAL PROPERTY ASSIGNMENT

This Intellectual Property Assignment (this "IP Assignment") is effective as of December 29, 2008 (the "Effective Date") by Furukawa Electric North America, Inc., a Delaware corporation ("Assignor").

RECITALS:

WHEREAS, Assignor and OFS Fitel, LLC, a Delaware limited liability company ("Assignee"), are parties to an Asset Contribution and Assumption of Liabilities Agreement as of the even date herewith (the "Asset Contribution Agreement"), pursuant to which Assignor sells, transfers, sets over, conveys, delivers and contributes in kind to Assignee as additional paid in capital all of Assignor's right, title and interest in and to the IP Division, as such term defined therein, for good and valuable consideration;

WHEREAS, the IP Division includes the patents and patent applications owned by Assignor as set forth in Exhibit A, and the inventions described and claimed therein ("Patents"), and other valuable trade secret information ("IP");

WHEREAS, Assignee is desirous of acquiring all rights, title and interest owned by Assignor in the Patents and IP;

NOW, THEREFORE, for good and valuable consideration that Assignor receives from Assignee under the Asset Contribution Agreement, the receipt and sufficiency of which consideration Assignor hereby acknowledges:

1. Assignor hereby sells, assigns, transfers, and conveys to Assignee and its successors, assigns, and nominees, absolutely and in perpetuity, Assignors' entire right, title, and interest worldwide in and to the IP and Patents, including without limitation the entire right, title, and interest in and to the inventions described in the applications for such Patents in any form or embodiment thereof; patent applications filed in any country based thereon; patent applications filed under the provisions of any applicable international treaty; any and all patents or reissues or extensions thereof to be obtained in any country upon said inventions and any divisional, continuation, continuation-in-part or substitute applications which have been filed or may be filed upon said invention or inventions in any country and including the right to sue and maintain current suits for and receive all damages from past infringements and other misuse arising prior to the Effective Date, the same to be held and enjoyed by Assignee, its successors, assigns, and legal representatives.

2. Assignor further agrees to execute all documents and does all such other things as may be necessary or appropriate to carry out the intent and/or purpose of this Assignment. In addition, and without limiting the generality of the foregoing, Assignor further agrees, at the request of Assignee or its successors in interest, to do all lawful acts which may be required for obtaining and enforcing the intellectual property rights in the Patents, and to otherwise aid Assignee or its successors in interest in enforcing intellectual property rights in the Patents, all at the expense of Assignee or its successors in interest.

3. Assignor hereby constitutes and appoints Assignee and its successors and assigns as Assignor's true and lawful attorneys with full power of substitution, in Assignor's names and stead but on behalf and for the benefit of the Assignee and its successors and assigns, to demand and receive any and all of the Patents and to give receipts and releases for and in respect of the same, and any part thereof, and from time to time to institute and prosecute, at the expense and for the benefit of the Assignee and its successors and assigns, any and all proceedings at law, in equity or otherwise, or to execute such documents, which the Assignee or its successors or assigns may deem proper for the collection or reduction to possession of, or recordation of ownership to, any of the Patents, or for the collection and enforcement of any claim or right of any kind hereby sold, conveyed, transferred and assigned, or intended so to be, and to do all acts and things in relation to the Patents which the Assignee or its successors or assigns shall deem desirable. The foregoing powers are coupled with an interest and are and shall be irrevocable by the Assignor or by dissolution of the Assignor or in any manner or for any reason whatsoever.

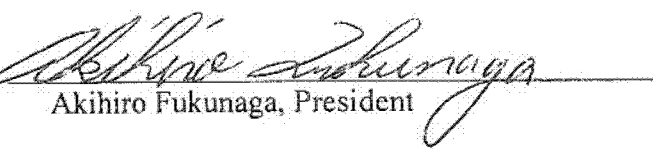
4. This Assignment shall be governed by the law of Delaware without regard to any conflicts of laws.

IN WITNESS WHEREOF, Assignor has executed this Assignment as follows:

ASSIGNOR:

FURUKAWA ELECTRIC NORTH AMERICA, INC.

By:


Akihiro Fukunaga, President

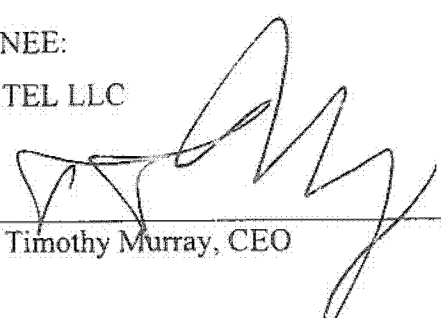
Date:

12/22/2008

ASSIGNEE:

OFS FITEL LLC

By:


Timothy Murray, CEO

Date:

12/22/2008

EXHIBIT A
PATENTS

Patents

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
4,880,291	Aberson 3-6-1/	14-Nov-1989	04-Feb-2008	OPTICAL FIBER CONNECTOR AND METHODS OF MAKING
4,691,989	Blyler 10/	08-Sep-1987	27-Jun-2006	OPTICAL FIBER CABLE
4,696,438	Myers 15/	29-Sep-1987	24-Oct-2006	Spool for holding optical fiber
4,707,174	Johnson 16-55-7-6/	17-Nov-1987	20-Nov-2006	FABRICATION OF HIGH-SILICA GLASS ARTICLE
4,708,726	Miller 14-4/	24-Nov-1987	02-Sep-2006	FABRICATION OF A LIGHTGUIDE PERFORM BY THE OUTSIDE VAPOR DEPOSITION PROCESS
4,713,105	Krause 15-11-23/	15-Dec-1987	25-Nov-2006	METHOD FOR GLASS FIBER SPLICING BY FLAME FUSION
4,726,677	Glantschnig 2-1/	23-Feb-1988	22-Dec-2006	AUTOFOCUSED LIGHTGUIDE PREFORM PROFILER
4,730,894	Arroyo 8/	15-Mar-1988	27-Mar-2006	OPTICAL FIBER CABLE HAVING A PREFABRICATED STRENGTH SYSTEM AND METHODS OF MAKING
4,735,856	Spectran 7/	05-Apr-1988	31-Mar-2006	Hermetic Coating for Optical Fiber and Product
4,738,055	Jackson 5-4-2/	19-Apr-1988	12-Nov-2006	Methods of Adjusting Optical Fiber Components
4,743,085	Jenkins 1-5/	10-May-1988	28-May-2006	Optical Fiber Cable Having Non-Metallic Sheath System
4,744,631	Eichenbaum 9-6-9/	17-May-1988	31-Aug-2007	Single mode optical fiber ribbon cable
4,761,168	Blyler 9-6-4/	02-Aug-1988	22-Sep-2006	Optical Fiber Manufacturing Technique
4,763,978	Courtney-Pratt 38-17/	16-Aug-1988	03-Oct-2006	OPTICAL FIBER CONNECTOR

OFS CONFIDENTIAL

10/14/2008

Page 1

PATENTS ASSIGNED TO FENIA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
4,767,181	McEowen 18/	30-Aug-1988	26-Mar-2007	Electrical/lightwave connection arrangement
4,767,429	Fleming 16-1/	30-Aug-1988	11-Dec-2006	Glass Body Formed From a Vapor(miDerived Gel and Process for Producing Same
4,770,492	Spectran 8/	13-Sep-1988	28-Oct-2006	Pressure Sensitive Optical Fiber
4,770,494	Csencsits 2-4-1-12/	13-Sep-1988	12-Feb-2006	Low-loss silica optical waveguides
4,781,433	Arroyo 10-3-2-6-10-4/	01-Nov-1988	22-Dec-2006	NONE
4,784,452	Spectran 16/	15-Nov-1988	01-Aug-2006	Optical Fiber Coupler
4,785,139	Lynch 4-2/	15-Nov-1988	30-May-2006	CABLE WITH FLEXIBLE HIGH PRESSURE EQUIPMENT ENCLOSURE MATERIAL AND METHOD OF CONSTRUCTING SAME
4,793,683	Cannon 4-3-3/	27-Dec-1988	08-May-2006	Optical Fiber Connector
4,798,346	Myers 14-9/	17-Jan-1989	05-Dec-2006	Methods of and Apparatus for Taking Up Lightguide Fiber
4,802,723	Miller 11/	07-Feb-1989	07-Feb-2006	OPTICAL FIBER TAP
4,802,726	Palmquist 6-3/	07-Feb-1989	08-Oct-2007	METHOD OF AND APPARATUS FOR RECONFIGURING OPTICAL FIBER CONNECTOR COMPONENTS AND PRODUCTS PRODUCED THEREBY
4,810,395	Levy 7-2/	07-Mar-1989	20-May-2007	Thixotropic Grease Composition
4,812,009	Carlisle 4-6-3/	14-Mar-1989	30-Jun-2007	OPTICAL FIBER CONNECTOR
4,812,153	Andrejco 8-54/	14-Mar-1989	12-Jan-2007	METHOD OF MAKING A GLASS BODY HAVING A GRADED REFRACTIVE INDEX PROFILE

OFS CONFIDENTIAL

10/14/2008

Page 2

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
4,812,344	Spectran 9/	14-Mar-1989	28-Mar-2008	Composite Capillary Tube Structure and Method of Forming
4,815,813	Arroyo 14-1-1/	28-Mar-1989	30-Oct-2007	WATER RESISTANT COMMUNICATIONS CABLE
4,818,060	Arroyo 11/	04-Apr-1989	31-Mar-2007	OPTICAL FIBER BUILDING CABLES
4,820,007	Ross 4-1/	11-Apr-1989	12-Feb-2008	CABLE CLOSURE AND METHODS OF ASSEMBLING
4,820,322	Baumgart 2-3-4-16-15/	11-Apr-1989	23-Sep-2007	METHOD OF AND APPARATUS FOR OVERCLADDING A GLASS ROD
4,826,278	Gartside 7-5-8/	02-May-1989	25-Mar-2008	OPTICAL FIBER CABLE INCLUDING A PLURALITY OF MULTIFIBER UNITS WITHIN A SINGLE TUBE
4,830,463	Lemaire 5-58-16/	16-May-1989	08-Feb-2008	Optical Fiber Containing Al And P
4,840,449	Ghandeharizadeh 1/	20-Jun-1989	27-Jan-2008	OPTICAL FIBER SPLICE ORGANIZER
4,840,653	Rabinovich 12/	20-Jun-1989	19-Sep-2008	Fabrication of High\miSilica Glass Article
4,842,626	Barns 8-45-5/	27-Jun-1989	28-May-2007	PROCESS FOR MAKING OPTICAL FIBERS
4,844,575	Kinard 9-4-2-7-12/	04-Jul-1989	10-Apr-2007	OPTICAL FIBER CABLE
4,848,687	Myers 16-10/	18-Jul-1989	17-Jun-2008	Methods of Taking Up Lightguide Fiber
4,850,670	Mathis 2-13/	25-Jul-1989	25-Jul-2006	Optical Fiber Connector
4,851,165	Rennell 1-9/	25-Jul-1989	02-Sep-2007	Method of Apparatus for Coating Optical Fibers

OFS CONFIDENTIAL

10/14/2008

Page 3

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
4,852,963	Lampert 5/	01-Aug-1989	30-Jun-2007	Optical Fiber Biconic Connector
4,859,023	Eichenbaum 7-3/	22-Aug-1989	22-Aug-2006	Sheathed Optical Fiber Cable
4,863,235	Anderson 3-5-4-1-1/	05-Sep-1989	05-Sep-2006	CONNECTOR FOR OPTICAL FIBER CABLE
4,867,523	Scott 1/	19-Sep-1989	28-Oct-2008	Optical fiber connector including serpentine grooved member actuated by longitudinal forces
4,867,526	Arroyo 13/	19-Sep-1989	30-Oct-2007	WATER RESISTANT COMMUNICATIONS CABLE
4,870,117	Levy 8-1/	26-Sep-1989	03-Mar-2008	FILLED CABLES
4,872,736	Myers 4-1-1/	10-Oct-1989	19-Apr-2008	CONNECTOR ASSEMBLY HAVING A LATCHING MECHANISM
4,872,895	Fleming 17-15-53-2/	10-Oct-1989	11-Dec-2006	Method for Fabricating Articles Which Include High Silica Glass Bodies
4,874,222	Spectran 11/	17-Oct-1989	31-Mar-2006	Hermetic Coatings for Non(m)Silica Based Optical Fibers
4,875,916	Baltzer 3-11-7/	24-Oct-1989	22-Sep-2008	METHODS OF AND APPARATUS FOR ADJUSTING THE CONFIGURATION OF OPTICAL SUBSTRATE
4,875,952	Mullin 10-12/	24-Oct-1989	08-Feb-2008	Forced Encapsulation Means for a Cable
4,876,303	Chapin 9-22/	24-Oct-1989	21-Mar-2009	Mineral-Oil-Free Encapsulant
4,881,792	Alameel 1-1/	21-Nov-1989	31-Mar-2008	SELF-ADJUSTING OPTICAL FIBER CONNECTOR ASSEMBLY
4,883,339	Spectran 10/	28-Nov-1989	17-Jul-2007	Oxide Coatings for Fluoride Glass

OFS CONFIDENTIAL

10/14/2008

Page 4

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
4,893,393	Claxton 2-7-3/	16-Jan-1990	08-Feb-2008	Strengthened buffered optical fiber
4,896,938	Mathis 5-18/	30-Jan-1990	27-Feb-2009	Optical Fiber Connector Comprising Glass Tubes
4,896,940	Kathiresan 3-13-11/	30-Jan-1990	10-Feb-2009	Optical fiber cable for use in high temperature contaminating environment
4,898,446	Hinckley 1/	06-Feb-1990	28-Oct-2008	Optical Fiber Connector
4,900,124	Lampert 7-2/	13-Feb-1990	12-Dec-2008	Biconic optical fiber connecting device having attenuator
4,900,126	Jackson 7-1-9-1-2/	13-Feb-1990	30-Jun-2008	Bonded array of transmission media
4,904,050	Dunn 1-4-1/	27-Feb-1990	31-Aug-2008	Methods of and systems for optical fiber sensing
4,909,592	Arroyo 17-8/	20-Mar-1990	29-Sep-2008	COMMUNICATION CABLE HAVING WATER BLOCKING PROVISIONS IN CORE
4,909,816	MacChesney 36-20/	20-Mar-1990	20-Mar-2007	Optical fiber fabrication and resulting product
4,913,517	Arroyo 16-1-2-11/	03-Apr-1990	11-Jul-2008	Communication Cable Having Water Blocking Strength Members
4,913,859	Overton 4-12/	03-Apr-1990	21-Apr-2009	Methods of Curing Optical Fiber Coatings
4,914,866	Jackson 8-8-4/	10-Apr-1990	27-Jan-2009	Apparatus for Adjusting Optical Fiber Connector Components
4,915,472	Liu 1/	10-Apr-1990	28-Dec-2008	Optical Fiber Terminal Plug Connectors
4,915,716	Monroe 2-2/	10-Apr-1990	10-Apr-2007	Fabrication of Lightguide Soot Preforms

OFS CONFIDENTIAL

10/14/2008

Page 5

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
4,927,227	Bensel 1-2-1-5-4/	22-May-1990	31-Oct-2008	Optical Fiber Cable Closure
4,932,990	Michie 3-3-3/	12-Jun-1990	19-Sep-2009	Methods of Making Optical Fiber And Products Produced Thereby
4,934,785	Mathis 6-19/	19-Jun-1990	23-Feb-2009	Optical Fiber Connector
4,934,818	Glantschnig 3-2/	19-Jun-1990	24-Mar-2009	Refractive Index Profiling Technique
4,938,560	Arroyo 22-11-15/	03-Jul-1990	11-Aug-2009	Animal-Resistant Cable
4,938,562	Spectran 14/	03-Jul-1990	14-Jul-2009	Oxide Coatings for Fluoride Glass
4,946,237	Arroyo 19-10/	07-Aug-1990	30-Jun-2009	Cable Having Non-Metallic Armoring Layer
4,952,226	Frazee 10-10/	28-Aug-1990	27-Feb-2009	Lightguide Coating Control
4,955,976	Freeman 3-9/	11-Sep-1990	14-Jun-2009	Optical Fiber Connector
4,957,526	Frazee 12-12/	18-Sep-1990	02-Jun-2009	Optical Fiber Coating Control Process
4,958,903	Cobb 1-1/	25-Sep-1990	09-Dec-2008	Splice Closure
4,962,992	Chapin 11-1-1-2-5-2-13-1/	16-Oct-1990	15-May-2009	Optical Transmission Media And Methods Of Making Same
4,968,339	Miller 17-3-5-1/	06-Nov-1990	02-Jan-2010	Method of Fluorine Doped Modified Chemical Vapor Deposition
4,971,419	Gartside 8-7-14/	20-Nov-1990	16-Feb-2009	Optical Fiber Cable and Methods of Making

OFS CONFIDENTIAL

10/14/2008

Page 6

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
4,971,614	D'Annessa 4-3/	20-Nov-1990	29-Sep-2008	Methods Of An Apparatus For Making A Connection Between Two Tubes
4,973,343	Frazee 11-11/	27-Nov-1990	02-Jun-2009	Optical Fiber Coating Control Apparatus
4,974,926	Blee 1-4-3-2/	04-Dec-1990	06-Apr-2009	Underwater Optical Fiber Cable
4,974,930	Blyler 16-17-16-3/	04-Dec-1990	13-Nov-2009	Mode ScramblerWith Non-Invasive Fabrication In An Optical Fiber's Cladding
4,979,795	Mascarenhas 1/	25-Dec-1990	29-Jun-2009	Collable Torque-balanced Cable and Method of Manufacture
4,980,007	Ferguson 1/	25-Dec-1990	14-Jul-2009	Methods of Fabricating an Optical Fiber Ribbon
5,000,541	DiMarcello 6-2-7-16/	19-Mar-1991	27-Sep-2009	Hermetically Sealed Optical Fibers
5,000,771	Fleming 20-21/	19-Mar-1991	29-Dec-2009	Method For Manufacturing An Article
5,005,175	Desurvire 2-4-17-2/	02-Apr-1991	27-Nov-2009	Erbium-Doped Fiber Amplifier
5,011,260	Marx 2-2-1-3/	30-Apr-1991	26-Jul-2009	Buffered Optical Fiber Having A Strippable Buffer Layer
5,015,063	Panuska 8-16/	14-May-1991	25-Oct-2009	Optical Fiber Cable Core
5,015,068	Petisce 6/	14-May-1991	15-Feb-2010	Coated Optical Fiber and Methods of Making
5,027,079	Desurvire 4-8-4/	25-Jun-1991	31-Jul-2010	Erbium-Doped Fiber Amplifier
5,028,246	Spectran 23/	02-Jul-1991	08-Feb-2009	Methods of Making Optical Waveguides

OFS CONFIDENTIAL

10/14/2008

Page 7

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,032,001	Shang 3/	16-Jul-1991	09-Mar-2010	Optical Fiber Having Enhanced Bend Resistance
5,039,325	Miller 20-5-6-2/	13-Aug-1991	11-Jun-2010	Method for Consolidating Doped Glass Using an Encapsulating Structure
5,044,724	Glodis 3-17/	03-Sep-1991	22-Dec-2009	Method of Producing Optical Fiber, and Fiber Produced by the Method
5,050,957	Hamilton 6-5-10-7/	24-Sep-1991	27-Apr-2010	Optical Fiber Service Cable
5,067,783	Lampert 10/	26-Nov-1991	16-Oct-2010	Optical Fiber Connector Buildout System
5,073,004	Clayton 2-1-4-24/	17-Dec-1991	18-May-2010	Tunable Optical Filter
5,074,533	Cohen 19-16-3-20/	24-Dec-1991	03-Aug-2010	Optical Fiber Communication System Comprising A Fiber Amplifier
5,074,643	Petisce 5/	24-Dec-1991	13-Dec-2009	An Article Comprising A Nonpigmented Cured Color Coating
5,076,824	Miller 18/	31-Dec-1991	14-May-2010	Method of Making Fiber Optical Preform with Pyrolytic Coated Mandrel
5,082,345	Cammons 2-5-9/	21-Jan-1992	13-Aug-2010	Optical Fiber Connecting Device Including Attenuator
5,082,348	Gartside 9-10-19/	21-Jan-1992	20-Jul-2010	Optical Fiber Cable
5,082,719	Arroyo 21/	21-Jan-1992	12-Jul-2009	Water Resistant Communications Cable
5,090,978	O'Brien 9/	25-Feb-1992	12-Jun-2010	Methods of Collapsing Glass Tube
5,095,519	Dorsey 2/	10-Mar-1992	30-Nov-2010	Apparatus and Method for Producing an In-Line Optical Fiber Attenuator

OFS CONFIDENTIAL

10/14/2008

Page 8

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,097,529	Cobb 3-2-1-3/	17-Mar-1992	22-Mar-2011	Space-Saving Optical Fiber Cable Closure
5,104,433	Chapin 14-2-2-3-7-6-17-2/	14-Apr-1992	29-May-2010	Methods of Making Optical Fiber
5,109,457	Panuska 12-21-13-4/	28-Apr-1992	01-Feb-2011	All-Dielectric Cable Having Enhanced Fiber Access
5,125,063	Panuska 11-20/	23-Jun-1992	08-Nov-2010	Lightweight Optical Fiber Cable
5,131,064	Arroyo 27-5-11-2-22-3-4/	14-Jul-1992	19-Feb-2011	Cable Having Lightning Protective Sheath System
5,147,432	Edmonston 3-4/	15-Sep-1992	10-Jul-2011	Methods Of And Apparatus For Coating Optical Fibers
5,155,303	Bensel 2-4-2-1/	13-Oct-1992	17-May-2011	Cable Closure Including Grommet Having Enhanced Sealing Capability
5,157,747	Atkins 4-2-22/	20-Oct-1992	18-Jan-2011	Apparatus Comprising a Photorefractive Optical Fiber, and Method of Producing the Fiber
5,163,115	Sheu 1/	10-Nov-1992	30-Oct-2011	Cables Such As Optical Fiber Cables Including Superabsorbent Polymeric Materials Which Are Temperature and Salt Tolerant
5,165,543	Heyda 1-8-7-1/	24-Nov-1992	25-Sep-2011	Protected Optical Fiber Package
5,185,827	Poole 2/	09-Feb-1993	26-Sep-2011	Apparatus For Compensating Chromatic Dispersion in Optical Fibers
5,185,845	Jones 4/	09-Feb-1993	15-Oct-2011	Optical Fiber Closure Having Enhanced Storage Capability
5,187,763	Tu 2/	16-Feb-1993	26-Apr-2011	Optical Fiber Cable Having Dripless, Non-Bleeding and Optical Fiber Coating-Compatible Waterblocking Material In Core Thereof
5,189,725	Bensel 4-5/	23-Feb-1993	28-Jan-2012	Optical Fiber Closure

OFS CONFIDENTIAL

10/14/2008

Page 9

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,204,925	Bonanni 4-3-6/	20-Apr-1993	11-Sep-2011	Optical Interconnection of Circuit Packs
5,210,810	Darden 8-5/	11-May-1993	19-Dec-2011	Hermaphroditic Connector For Single Fiber Optical Cable
5,217,518	Petisce 15/	08-Jun-1993	14-Feb-2012	Apparatus for Making Coated Optical Fibers
5,218,655	Mizrahi 2/	08-Jun-1993	29-May-2012	Article Comprising an Optical Waveguide with In-Line Refractive Index Grating
5,219,623	Petisce 16/	15-Jun-1993	30-Apr-2012	Methods of Producing and Article Which Includes a Light Energy Cured Coating Material
5,221,306	Fleming 22-1-22/	22-Jun-1993	31-Oct-2010	Method And Apparatus For Modifying The Transverse Cross Section Of A Body
5,222,177	Chu 1-2-9-24/	22-Jun-1993	31-Mar-2012	Underwater Optical Fiber Cable Having Optical Fiber Coupled To Grooved Core Member
5,228,893	Smithgall 13-1/	20-Jul-1993	27-Nov-2011	Optical Fiber Tension Monitoring Technique
5,233,200	DiMarcello 7-7-5-24/	03-Aug-1993	23-Dec-2011	Method and Apparatus for Contactless Monitoring of Tension in a Moving Fiber
5,235,659	Atkins 6-8-3-25/	10-Aug-1993	05-May-2012	Method of Making an Article Comprising an Optical Waveguide
5,240,488	Chandross 60-3-25-62-2/	31-Aug-1993	14-Aug-2012	Manufacture of Vitreous Silica Product
5,242,477	Edmonston 4-6/	07-Sep-1993	01-May-2012	Apparatus For Coating Optical Fibers
5,259,046	DiGiovanni 14-1-28/	02-Nov-1993	01-Oct-2012	Article Comprising An Optical Waveguide Containing A Fluorescent Dopant
5,259,051	Burack 6-3-3/	02-Nov-1993	28-Aug-2012	Optical Fiber Interconnection Apparatus And Methods Of Making Same

OFS CONFIDENTIAL

10/14/2008

Page 10

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,261,016	Poole 4/	09-Nov-1993	22-Dec-2012	Chromatic Dispersion Compensated Optical Fiber Communication System
5,263,103	Kosinski 2/	16-Nov-1993	16-Nov-2012	Apparatus Comprising A Low Reflection Optical Fiber Termination
5,274,734	Jin 56-9-27/	28-Dec-1993	28-Aug-2012	Article Comprising A Rare Earth Or Transition Metal Doped Optical Fiber
5,277,730	Darsey 13-5/	11-Jan-1994	07-Apr-2012	Methods Of Recoating Spliced Lengths Of Optical Fibers Apparatus For Making Same
5,280,556	Jones 5/	18-Jan-1994	25-Sep-2012	Cable Closure Which Includes A Cable Sheath Gripping Assembly
5,285,513	Kaufman 7-4/	08-Feb-1994	30-Nov-2012	Optical Fiber Cable Provided With Stabilized Waterblocking Material
5,287,427	Alkins 8-10-9-31/	15-Feb-1994	28-Jan-2013	Method of Making an Article Comprising an Optical Component, and Article Comprising the Component
5,292,390	Burack 7-4/	08-Mar-1994	30-Sep-2012	Optical Fiber Encapsulation Techniques
5,294,260	Larsen-Moss 3-1/	15-Mar-1994	30-Oct-2012	Apparatus For Curing Coatings On Drawn Optical Fiber
5,298,047	Hart 8-8-26/	29-Mar-1994	03-Aug-2012	Method Of Making A Fiber Having Low Polarization Mode Dispersion Due To A Permanent Spin
5,308,947	Fleming 26/	03-May-1994	25-Feb-2013	Iridium Fiber Draw Induction Furnace
5,309,260	Mizrahi 8-1/	03-May-1994	23-Dec-2012	Method For Forming Distributed Bragg Reflectors In Optical Media
5,316,562	Smithgall 16-2/	31-May-1994	06-Jul-2012	Optical Fiber Tension Monitoring Technique
5,318,611	Spectran 25/	07-Jun-1994	13-Mar-2012	Methods of Making Optical Waveguides and Waveguides Made Thereby

OFS CONFIDENTIAL

10/14/2008

Page 11

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,323,404	Grubb 2/	21-Jun-1994	02-Nov-2013	Optical Fiber Laser Or Amplifier Including High Reflectivity Gratings
5,327,515	Anderson 1-1-10/	05-Jul-1994	14-Jan-2013	Method For Forming A Bragg Grating In An Optical Medium
5,327,516	Chraplyvy 9-8-30/	05-Jul-1994	28-May-2013	Optical Fiber For Wavelength Division Multiplexing
5,329,605	Wargoltz 2/	12-Jul-1994	27-Oct-2012	Undersea Armored Cable
5,337,382	Mizrahi 12/	09-Aug-1994	22-Apr-2013	Article Comprising An Optical Waveguide With In-Line Refractive Index Grating
5,344,475	Bhandarkar 3-1-29-64/	06-Sep-1994	11-Mar-2013	Manufacture Of High Proof Test Optical Fiber Using Sol-Gel
5,345,525	Holman 6-8-5/	06-Sep-1994	28-Jan-2012	Utility Optical Fiber Cable
5,345,528	Katz 6-5-5/	06-Sep-1994	28-Jul-2013	Method for Enhancing the Pullout Strength of Polymer-Coated Optical Fiber
5,346,655	Blyler 35-51-19/	13-Sep-1994	26-Jul-2013	Method Of Thermoforming An Optical Fiber End
5,356,447	Bhandarkar 2/	18-Oct-1994	11-Mar-2013	Manufacture of High Proof(m)Test Optical Fiber Using Sol(m)Gel
5,356,449	Kuwahara 1-1/	18-Oct-1994	24-May-2013	VAD Process Improvements
5,363,239	Mizrahi 7-24/	08-Nov-1994	23-Dec-2012	Method For Forming Spatially-Varying Distributed Bragg Reflectors In Optical Media
5,363,461	Bergmann 15/	08-Nov-1994	20-Jul-2013	Field Installable Optical Fiber Connectors
5,367,589	MacDonald 7-15-7/	22-Nov-1994	22-Oct-2013	Optical Fiber Package

OFS CONFIDENTIAL

10/14/2008

Page 12

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,371,815	Poole 5/	06-Dec-1994	09-Nov-2013	Low(miLoss Dual)(miMode Optical Fiber Compensators
5,373,571	Spectran 19/	13-Dec-1994	16-Mar-2013	Fiber Optic Diffuser Tip
5,373,578	Parker 1-24-15-27/	13-Dec-1994	21-Dec-2013	Strippable Coating For Optical Fiber
5,379,364	Chandross 61-7-30-67-3/	03-Jan-1995	31-Aug-2013	Vitreous Silica Product Manufactured Via A Sol-Gel Process Using A Polymer Additive
5,380,559	Filas 9-1/	10-Jan-1995	30-Apr-2013	Electroless Metallization of Optical Fiber for Hermetic Packaging
5,384,885	Diner 1/	24-Jan-1995	28-Oct-2013	Variable Attenuation Optical Fiber Coupling
5,389,442	Arroyo 36-5-9-26/	14-Feb-1995	25-Nov-2012	Water Blocking Strength Members
5,394,504	Burack 8-7-3/	28-Feb-1995	24-Feb-2014	Optical Fiber Encapsulation Techniques
5,396,572	Bradley 1-12/	07-Mar-1995	10-Aug-2013	Optical Fiber Connector Having A Unipartite Cap
5,397,372	Partus 24-3/	14-Mar-1995	30-Nov-2013	MCVD Method Of Making A Low OH Fiber Preform With A Hydrogen-Free Heat Source
5,402,516	Blyler 34-3-4-22-14-25/	28-Mar-1995	30-Sep-2013	Optical Fiber Apparatus
5,411,566	Poole 6-51/	02-May-1995	08-Jun-2014	Optical Fiber Spatial Mode Converter Using Periodic Core Deformation
5,414,788	Kammilott 4-4-19-2/	09-May-1995	28-Jun-2014	Method And Apparatus For Fusion Splicing Optical Fibers
5,416,863	Vengsarkar 4/	16-May-1995	30-Dec-2013	Mode-Field Transforming Optical Waveguide

OFS CONFIDENTIAL

10/14/2008

Page 13

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,418,881	Hart 10-10-39/	23-May-1995	03-Oct-2014	Article Comprising Optical Fiber Having Low Polarization Mode Dispersion, Due To Permanent Spin
5,421,930	Holland 6/	06-Jun-1995	01-Nov-2013	Optical Fiber Routing Method And Apparatus
5,430,817	Vengsarkar 7/	04-Jul-1995	31-Mar-2014	Optical Systems And Devices Using Long Period Spectral Shaping Devices
5,432,880	Diner 2/	11-Jul-1995	17-Mar-2014	Angled Optical Connector Ferrule
5,434,945	Burek 4-6-17/	18-Jul-1995	28-Jun-2014	Protective Shell For Cable Connection Module
5,440,666	Burek 2-2-8-5/	08-Aug-1995	22-Jun-2014	Splice Closure and Grip Block
5,448,672	Blonder 43-16/	05-Sep-1995	05-Sep-2012	Optical Fibers with Matte Finishes
5,448,674	Vengsarkar 5-34/	05-Sep-1995	16-Feb-2014	Article Comprising A Dispersion(miCompensating Optical Waveguide
5,448,675	Leone 1-13/	05-Sep-1995	09-Jun-2014	Telecommunications Distribution Frame With Tracing
5,450,518	Burek 5-8-7-1/	12-Sep-1995	13-Oct-2014	Optical Fiber Cable Splice Closure
5,461,690	Lampert 14/	24-Oct-1995	29-Jul-2014	Bend-Limiting Apparatus For A Cable
5,478,371	Lemaire 14-4-9/	26-Dec-1995	13-Sep-2014	Method For Producing Photoinduced Bragg Gratings By Irradiating A Hydrogenated Glass Body In Heated State
5,481,634	Anderson 6-13-3/	02-Jan-1996	24-Jun-2014	Connector For Optical Fiber
5,481,638	Roll 3-11/	02-Jan-1996	05-Jul-2014	Techniques For Stripping Optical Fiber Encapsulants

OFS CONFIDENTIAL

10/14/2008

Page 14

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,481,639	Cobb 7-6-5/	02-Jan-1996	28-Oct-2014	Compact Closure For Optical Fiber Cable
5,490,229	Ghandeharizadeh 3-2/	06-Feb-1996	27-Sep-2014	Slidably Mounted Optical Fiber Distribution Tray
5,502,786	Inniss 7-11-2/	26-Mar-1996	08-Mar-2015	Method of Controlling Polarization Properties of a Photo-Induced Device in an Optical Waveguide and Method of Investigating Structure of an Optical Waveguide
5,513,294	Roll 5-14/	30-Apr-1996	08-Dec-2014	Method of Forming Optical Fiber Connectors
5,530,710	Grubb 4/	25-Jun-1996	15-May-2015	High-Power Pumping of Three-Level Optical Fiber Laser Amplifier
5,539,849	Pelisse 25/	23-Jul-1996	26-Aug-2014	Optical Fiber Cable And Core
5,550,654	Erdogan 6-25/	27-Aug-1996	13-Mar-2015	Method for Forming, in Optical Media, Refractive Index Perturbations Having Reduced Birefringence
5,550,940	Vengsarkar 10-45/	27-Aug-1996	24-Feb-2015	Optical Tapping Filters Employing Long Period Gratings
5,558,693	Spectran 28/	24-Sep-1996	08-Jan-2013	Methods of Making Optical Waveguides
5,559,907	Inniss 5-6-1/	24-Sep-1996	17-Feb-2014	Method of Controlling Polarization Properties of A Photo-Induced Device In An Optical Waveguide and Method of Investigating Structure of An Optical Waveguide
5,559,922	Arnett 13/	24-Sep-1996	28-Feb-2015	Wire Guide and Optical Fiber Storage Spool Assembly
5,563,732	Erdogan 4-18-19/	08-Oct-1996	06-Jan-2014	Laser Pumping of Erbium Amplifier
5,565,014	Fleming 28/	15-Oct-1996	31-Mar-2014	Process of Manufacturing A Vitreous Silica Product Including Hydrothermally Drying A Colloidal Sol-Gel
5,578,101	Blonder 77-8-37-15/	26-Nov-1996	01-Sep-2015	Method Of Making A Sol-Gel Glass Body And Removing Same From Mold

OFS CONFIDENTIAL

10/14/2008

Page 15

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,578,106	Fleming 30-4/	26-Nov-1996	17-Aug-2015	Method For Making Optical Fiber Preforms by Collapsing a Hollow Glass Tube Upon a Glass Rod
5,587,830	Chraplyvy 8-7/	24-Dec-1996	24-Dec-2013	High Capacity Optical Fiber Network (Chraplyvy 8-7)
5,598,499	Burek 8-6/	28-Jan-1997	01-Nov-2015	Seal For Cable Splice Closure
5,600,439	Csipkes 5-12/	04-Feb-1997	27-Apr-2015	Self-Calibration System And Method For Determining The Adequacy Of An Interferometer Angle And Surface Curvatures In An Inspection System For Determining Disparity Between Two Surfaces
5,611,016	Fangmann 1-1-2/	11-Mar-1997	07-Jun-2016	Dispersion-Balanced Optical Cable
5,619,610	King 3-9/	08-Apr-1997	29-Dec-2015	Optical Terminator
5,620,495	Aspell 2-10-8-2-1/	15-Apr-1997	16-Aug-2015	Formation Of Gratings In Polymer-Coated Optical Fibers
5,620,496	Erdogan 9-17-30-3/	15-Apr-1997	04-Dec-2015	Method of Making Stable Optical Devices Employing Radiation-Induced Index Changes
5,623,508	Grubb 6-3-52/	22-Apr-1997	12-Feb-2016	Article Comprising A Counter-Pumped Optical Fiber Raman Amplifier
5,625,472	Mizrahi 31-3/	29-Apr-1997	26-Jan-2016	Method for Forming Distributed Bragg Reflectors in Optical Media
5,630,003	Arroyo 46/	13-May-1997	30-Nov-2015	Loose Tube Fiber Optic Cable
5,636,304	Mizrahi 27-33/	03-Jun-1997	23-Aug-2015	Article Comprising A Spatially Varying Bragg Grating In An Optical Fiber
5,636,474	Lampert 19-20-1/	10-Jun-1997	30-Aug-2015	Anti-Snag Latch Assembly For A Connector
5,638,481	Arnett 17/	10-Jun-1997	26-Sep-2015	Flush Mounted Outlet

OFS CONFIDENTIAL

10/14/2008

Page 16

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,647,043	Anderson-JM 10-4-1-20/	08-Jul-1997	12-Oct-2015	Uniparlite Jack Receptacle
5,649,042	Saito 2/	15-Jul-1997	11-Dec-2015	Pre-connectorized Loose Tube Cable
5,659,650	Arnett 19/	19-Aug-1997	26-Sep-2015	Hinged Faceplate
5,673,280	Grubb 5-1-50/	30-Sep-1997	12-Feb-2016	Article Comprising A Low Noise Optical Fiber Raman Amplifier
5,673,342	Nelson 4-5-54-9/	30-Sep-1997	28-May-2016	Communication System Comprising A Low Cost Optical Filter
5,684,910	Chapin 16-3-7-10/	04-Nov-1997	24-Jun-2016	Buffered Optical Fiber Having A Strippable Buffer Layer
5,684,911	Burgett 2/	04-Nov-1997	01-Sep-2015	Sub-Surface Fiber Optic Splice Housing And Method Of Splicing Fiber Optic Cable
5,687,268	Stephenson 6-1/	11-Nov-1997	27-Nov-2015	Pivotable Optical Shutter For Blocking Emission From A Lightguide Adapter
5,692,087	Atkins 17-36-25-7/	25-Nov-1997	13-Mar-2015	Optical Fiber With Low OH Impurity And Communication System Using The Optical Fiber
5,694,503	Fleming 11-42-20/	02-Dec-1997	09-Sep-2016	Article Comprising A Temperature Compensated Optical Fiber Refractive Index Grating
5,703,978	DiGiovanni 33-6-4-23-59/	30-Dec-1997	01-Aug-2016	Temperature Insensitive Long (mi) Period Fiber Grating Devices
5,708,669	DiGiovanni 32-21/	13-Jan-1998	24-Sep-2016	Article Comprising A Cladding-Pumped Optical Fiber Laser
5,716,738	Kohnke 2-6/	17-Feb-1998	04-Nov-2016	Method And Apparatus For Making Continuous Chirped Fiber Bragg Gratings
5,719,977	Lampert 22-1/	17-Feb-1998	23-Apr-2016	Optical Connector With Immovable Ferrule

OFS CONFIDENTIAL

10/14/2008

Page 17

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,731,892	DiGiovanni 37-2-2-6/	24-Mar-1998	22-Apr-2017	Article Comprising Hybrid Optical Fiber Amplifier
5,735,708	Arnett 21-5/	07-Apr-1998	30-Apr-2016	Apparatus And Method For Displaying Information At A Wall Face Plate
5,740,295	Kinard 12-14-27-5/	14-Apr-1998	14-Apr-2015	Low Fiber Count Optical Cable
5,742,715	Boehlke 2-11-5-11/	21-Apr-1998	21-Dec-2015	Optical Fiber Status Analyzer And Related Methods
5,745,615	Atkins 15-1-3/	28-Apr-1998	11-Oct-2016	Method Of Making An Optical Fiber Grating, And Article Made By The Method
5,745,627	Arroyo 48-2/	28-Apr-1998	28-Dec-2015	Composite Cable For Fiber-To-The-Curb Architecture Using Centralized Power
5,751,879	Graham 5-3-10-5-12/	12-May-1998	28-Dec-2015	Wound Optical Fiber Cable Including Robust Component Cable(s) And A System For Manufacture Of The Cable
5,756,209	Hale 1/	26-May-1998	31-Dec-2016	Photocurable Low Refractive Index Coatings
5,764,829	Judkins 3-2-17/	09-Jun-1998	26-Feb-2016	Optical Signal Shaping Device For Complex Spectral Shaping Applications
5,773,486	Chandross 75-4-2/	30-Jun-1998	26-Sep-2016	Method For The Manufacture Of Optical Gratings
5,774,618	Jones 11/	30-Jun-1998	19-Dec-2016	Compact Closure For Optical Fiber Cable
5,786,891	Brewer 1-1-2-1-1-23/	28-Jul-1998	11-Mar-2017	Method And Apparatus For Detecting Defects In An Optical Fiber Coating
5,802,234	Vengsarkar 27-4/	01-Sep-1998	21-Mar-2017	Dispersion Compensating Optical Fiber, And Communication System Comprising Same
5,802,236	DiGiovanni 29-20-2-1/	01-Sep-1998	14-Feb-2017	Article Comprising A Micro-Structured Optical Fiber And Method Of Making Such Fiber

OFS CONFIDENTIAL

10/14/2008

Page 18

PATENTS ASSIGNED TO FENIA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,805,621	Grubb 11-2-1-5-1-10/	08-Sep-1998	12-Nov-2016	Fiber Multimode Laser With Reduced Noise
5,809,195	Brown 2-10-5-14-2/	15-Sep-1998	24-Jan-2017	Modular Optical Fiber Ribbon
5,815,518	Reed 8-5-13/	29-Sep-1998	06-Jun-2017	Article Comprising A Cascaded Raman Fiber Laser
5,818,992	Albio 9-4-24-7/	06-Oct-1998	03-Mar-2017	Thermoplastic Optical Terminator Having A Glass-Transition Temperature Greater Than 80 C
5,824,961	Burek 13-9-3/	20-Oct-1998	30-Apr-2017	Central Strength Member Anchor For Optical Cables
5,828,448	Brewer 2-2-3-2-2-24/	27-Oct-1998	11-Mar-2017	Method And Apparatus For Distinguishing Between Defects In An Optical FiberCoating
5,838,855	Stephenson 9/	17-Nov-1998	16-May-2017	Sleeve Housing For Optical Coupling Buildout
5,838,864	Patel 28-8/	17-Nov-1998	30-Apr-2017	Optical Cable Having An Improved Strength System
5,841,920	Lemaire 23-26/	24-Nov-1998	18-Mar-2017	Fiber Grating Package
5,855,503	Csipkes 17-1-25-8/	05-Jan-1999	25-Feb-2017	Fiber Optic Connector With Improved Loss Performance And Method For Fabricating Same
5,857,051	Travieso 7-15/	05-Jan-1999	21-Apr-2017	High Density Riser And Plenum Breakout Cables For Indoor And Outdoor Cable Applications
5,861,047	Fleming 35-5/	19-Jan-1999	29-Sep-2017	Method For Manufacturing An Article Comprising A Refractory Dielectric Body
5,862,281	Shahid 28/	19-Jan-1999	04-Sep-2017	Optical Fiber Connectors
5,862,290	Burek 15-11/	19-Jan-1999	01-May-2017	Optical Fiber Cable Splice Closure

OFS CONFIDENTIAL

10/14/2008

Page 19

PATENTS ASSIGNED TO FENIA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,868,815	DiGiovanni 35-1-21/	09-Feb-1999	20-Feb-2017	A Method Of Making An Optical Fiber By Blowing On A Preform To Enhance Collapse
5,873,923	DiGiovanni 43/	23-Feb-1999	27-Oct-2017	A Method Of Making A Cladding-Pumped Fiber Structure
5,878,182	Peckham 1/	02-Mar-1999	05-Jun-2017	Optical Fiber Having A Low-Dispersion Slope In The Erbium Amplifier Region
5,880,825	Jakobsen 3-3/	09-Mar-1999	29-Jan-2018	Method And Apparatus For Detecting Defects In An Optical Fiber
5,887,099	Csipkes 18-26-12/	23-Mar-1999	03-Oct-2017	Fiber Optic Connector With Improved Return Loss Performance
5,894,540	Drewing 1/	13-Apr-1999	22-May-2017	Optical Fiber Take\miUp Assembly
5,896,477	Stephenson 8-1/	20-Apr-1999	16-May-2017	Optical Fiber Coupling Buildout System
5,896,482	Blee 3-9-12/	20-Apr-1999	13-Dec-2016	Optical Fiber Cable For Underwater Use Using Terrestrial Optical Fiber Cable
5,896,486	Burek 14-10-10/	20-Apr-1999	01-May-2017	Mass Fusion Splice Tray For Optical Fibers
5,897,679	Anderson-JM 12-1-17/	27-Apr-1999	27-Aug-2017	Dimensional Control In The Manufacture Of Optical Fiber Ferrule Connectors By Etching
5,898,494	Csipkes 1-8/	27-Apr-1999	27-Apr-2016	Automatic Inspection System and Method for Contactlessly Measuring The Disparity Between Two Surfaces
5,898,811	DiGiovanni 34-9/	27-Apr-1999	22-Jan-2017	Multi-Fiber Optical Cable
5,904,983	Chan 4-14-22-10-14/	18-May-1999	23-May-2017	Corrosion-Resistant Optical Fibers And Waveguides
5,905,838	Judy 3-2-4-2-10/	18-May-1999	18-Feb-2018	Dual Window WDM Optical Fiber Communication

OFS CONFIDENTIAL

10/14/2008

Page 20

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,907,647	Eggleston 1-7-13-28/	25-May-1999	18-Feb-2017	Long-Period Grating Switches And Devices Using Them
5,907,652	DiGiovanni 41-2/	25-May-1999	13-Mar-2018	Article Comprising An Air-Clad Optical Fiber
5,907,653	Burek 12-8-2/	25-May-1999	01-May-2017	Racetrack Grommet For Optical Fiber Cable Splice Closure
5,908,484	Decker 9-19-15-8-4/	01-Jun-1999	16-Oct-2018	Method Of Making A Coated Optical Fiber Comprising Measuring The Delamination Resistance Of The Coating
5,915,062	Jackson 11-15/	22-Jun-1999	01-Jul-2017	Low Loss Optical Fiber Reel
5,921,497	Utley 1/	13-Jul-1999	19-Dec-2017	Cable Rotary Joint
5,922,141	Darsey 18/	13-Jul-1999	28-Mar-2017	Method For Non-Contact Fiber Cleaning
5,923,684	DiGiovanni 30-9-12-55/	13-Jul-1999	09-Sep-2017	Fiber Amplifier With Multiple Pass Pumping
5,923,805	Anderson-JM 13-9-70-25-15/	13-Jul-1999	22-Dec-2017	Connector For Plastic Optical Fiber
5,928,574	DiMarcello 12-15-5-5/	27-Jul-1999	24-Apr-2018	Method Of Making Optical Fiber
5,930,420	Atkins 16-5/	27-Jul-1999	15-Aug-2017	Method For Producing Photo Induced Grating Devices By UV Irradiation Of Heat-Activated Hydrogenated Glass
5,935,288	DiGiovanni 45-1/	10-Aug-1999	29-Dec-2017	Method For Producing Fused Fiber Bundles
5,937,134	DiGiovanni 40/	10-Aug-1999	07-Aug-2017	Cladding Pumped Fiber Lasers
5,939,137	Kuck 13-7-3/	17-Aug-1999	25-Jun-2018	Method For Coating An Optical Fiber And Device For Performing Same

OFS CONFIDENTIAL

10/14/2008

Page 21

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,943,126	Aloisio 10-3-3-1-2/	24-Aug-1999	08-May-2018	Method And Apparatus For Detecting Surface Qualities On An Optical Fiber
5,944,866	Chen 1-1-10/	31-Aug-1999	03-Jun-2018	Fabrication Including Sol(miGel Processing
5,944,949	Mock 14/	31-Aug-1999	12-Nov-2017	Method and Apparatus For Separating One Or More Optical Fibers From An Optical Fiber Ribbon
5,949,941	DiGiovanni 44/	07-Sep-1999	21-Nov-2017	Cladding-Pumped Fiber Structures
5,953,353	Headley 3-62/	14-Sep-1999	20-Nov-2017	Article Comprising An Improved Rare Earth-Doped Optical Fiber Laser
5,953,471	Espindola 2-30-6/	14-Sep-1999	01-Jul-2017	Optical Communication System Having Short Period Reflective Bragg Gratings
5,954,974	Broer 3-1-3/	21-Sep-1999	25-Sep-2017	Laser(miAssisted Coating Removal From Optical Fibers
5,956,131	Mamyshev 6-37/	21-Sep-1999	17-Jul-2016	System And Method For Mapping Chromatic Dispersion In Optical Fibers
5,956,832	Reagan 10/	28-Sep-1999	17-Feb-2018	Optical Fiber Connector Insertion And Removal Tool
5,960,130	Pimpinella 26/	28-Sep-1999	22-Sep-2017	Method Of Testing Splice Connections In An Optical Fiber Cable
5,962,067	Bautista 2-79-9/	05-Oct-1999	09-Sep-2017	METHOD FOR COATING AN ARTICLE WITH A LADDER SILOXANE POLYMER AND COATED ARTICLE
5,966,491	DiGiovanni 38/	12-Oct-1999	22-Nov-2015	Cladding-Pumped Fiber Laser Structure
5,979,190	Fleming 37-6/	09-Nov-1999	17-Jul-2018	Method For Manufacturing An Article Comprising A Refractory Dielectric Body
5,981,064	Burack 12-14/	09-Nov-1999	20-Nov-2017	Flexible Filament Device with Pressure-Sensitive Flame Retardant Adhesive

OFS CONFIDENTIAL

10/14/2008

Page 22

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
5,982,967	Chapin 19-12-16/	09-Nov-1999	12-Dec-2017	Color-Coded Optical Fiber Cable And A Method For Manufacturing The Same
5,991,483	Engelberth 5/	23-Nov-1999	10-Feb-2018	Optical Fiber Grating Packages
5,999,671	Jin 141-26-33/	07-Dec-1999	27-Oct-2017	Tunable Long-Period Optical Grating Devices And Optical Systems Employing Same
6,007,727	Bohrer 7-81-7-1-1/	28-Dec-1999	06-Mar-2018	Process For Treating By\miProduct Of Optical Fiber Fabrication
6,011,615	Mamyshev 9-39/	04-Jan-2000	09-Jun-2017	Fiber Optic Cable Having A Specified Path Average Dispersion
6,011,892	Chraplyvy 22-23/	04-Jan-2000	28-May-2013	Optical Fiber For Wavelength Division Multiplexing
6,017,154	Carlisle 10-2-26/	25-Jan-2000	05-Feb-2018	Optical Fiber Connector With Cable Anchoring Means
6,024,498	Carlisle 11-3-1/	15-Feb-2000	05-Feb-2018	Optical Connector Assembly
6,030,664	DiMarcello 13-17-16-6-4/	29-Feb-2000	15-Jul-2018	Coating Die For Multiple Coated Optical Fibers
6,041,155	Anderson-DC 1-12/	21-Mar-2000	10-Dec-2017	Universal Dust Cover
6,049,506	White 14/	11-Apr-2000	29-Jan-2019	OPTICAL FIBER SAGNAC INTERFEROMETER WHICH IDENTIFIES HARMONICALLY RELATED NULLS IN THE DETECTED SPECTRUM
6,055,348	Jin 160-9/	25-Apr-2000	23-Sep-2018	Tunable Grating Device And Optical Communication Devices And Systems Comprising Same
6,068,796	Graham 7-9-14-19/	30-May-2000	01-Aug-2015	Sub-Miniature Optical Fiber Cables, And Apparatuses And Methods For Making The Sub-Miniature Optical Fiber Cables
6,076,974	Carlisle 13-5/	20-Jun-2000	14-Sep-2016	Optical Fiber Connector

OFS CONFIDENTIAL

10/14/2008

Page 23

PATENTS ASSIGNED TO FENIA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,085,016	Espindola 10-154-6-76/	04-Jul-2000	15-Jun-2018	Magnetically Controlled Variable Optical Attenuator
6,086,775	Pritchett 1-1-1/	11-Jul-2000	13-Mar-2018	Preparation of Colored Optical Fiber for Splicing
6,101,301	Engelberth 6-9-151-29-3/	08-Aug-2000	16-Apr-2018	Temperature-Compensated Optical Fiber Gratings With Fine Wavelength Tuning
6,102,582	Espindola 21-163-12/	15-Aug-2000	21-Sep-2018	Article Comprising Controllable Optical Connectors
6,105,396	Glodis 5-1-4-3-73/	22-Aug-2000	14-Jul-2018	METHOD OF MAKING A LARGE MCVD SINGLE MODE FIBER PREFORM BY VARYING INTERNAL PRESSURE TO CONTROL PREFORM STRAIGHTNESS
6,108,470	Jin 167-16/	22-Aug-2000	26-Oct-2018	Article Comprising Temperature(m)Compensated Tunable Grating And Systems Using Such Device
6,109,065	Atkins 19-4/	29-Aug-2000	22-Apr-2018	Improved Method For Making Optical Waveguide Devices And Preforms Therefor
6,122,935	Glodis 6-5-1-22/	26-Sep-2000	08-Jul-2018	High Rate MCVD Method Of Making An Optical Fiber Preform
6,131,415	Chang 1-1-21-3/	17-Oct-2000	20-Jun-2017	Method of Making a Fiber Having Low Loss At 1385 nm by Cladding a VAD Preform with a D/d <7.5
6,134,364	DeFabritis 4-15-2-3-3-33- /	17-Oct-2000	20-Sep-2017	Optical Fiber Ribbon
6,137,924	Strasser 20-14/	24-Oct-2000	02-Sep-2018	Article Comprising A Dispersion Compensating Grating With Low Polarization Mode Dispersion
6,141,142	Espindola 28-32-1-13/	31-Oct-2000	19-Feb-2019	Article Comprising An L-Band Optical Fiber Amplifier
6,149,315	Stephenson 15/	21-Nov-2000	04-Sep-2018	Side Load Resistant Buildout
6,157,757	Glaretta 1-2/	05-Dec-2000	12-Nov-2018	Polymer Fiber Optical Transmission System

OFS CONFIDENTIAL

10/14/2008

Page 24

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,161,398	Partus 27/	19-Dec-2000	09-Apr-2018	Methods Of And Systems for Vapor Delivery Control In Optical Proform Manufacture
6,173,100	Weeks 2-8-13-2-8/	09-Jan-2001	26-Feb-2019	Cables With Water-Blocking And Flame-Retarding Tapes
6,185,348	Shahid 37/	06-Feb-2001	19-Jan-2019	Apparatus And Method For Manufacturing A Multifiber Interconnection Circuit
6,185,351	Daneshvar 2-1-1/	06-Feb-2001	15-Oct-2019	All(miDielectric, Self(miSupporting, Loose(miTube Cable With Optical Fiber Ribbons
6,193,420	Sikorski 4/	27-Feb-2001	13-Aug-2019	Shielded Optical Fiber Adaptor
6,205,268	Chraplyvy 26-12-1-3-5-5/	20-Mar-2001	28-May-2013	High Capacity Optical Fiber Network Operating In the 1385 nm Region
6,206,581	Driscoll 6-40-6-6-9/	27-Mar-2001	06-Oct-2019	An Optical Connector Having A One(miPiece Housing
6,211,957	Erdogan 11-38-4/	03-Apr-2001	03-Mar-2020	In(miLine All(miFiber Polarimeter
6,215,932	Hardwick 12-20-21-5-18-13/	10-Apr-2001	15-Sep-2019	Stacks Of Optical Fiber Ribbons Closely Bound By Respective Buffer Encasements With Relatively Hard Exteriors And Relative Soft Interiors, Associated Methods And Associated Fiber Optic Cables
6,215,934	Aloisio 11-12-16-5-1-32/	10-Apr-2001	01-Oct-2018	Coated Optical Fiber with Improved Strippability
6,220,763	Stephenson 13/	24-Apr-2001	04-Sep-2018	Optical Fiber Buildout System
6,222,975	Gilbert 3-5-1-10-32/	24-Apr-2001	11-Dec-2018	Method For Detecting And Reporting Fiber Usage For Customer Billing
6,223,563	Bahr 2-17-10/	01-May-2001	17-Mar-2020	Process For Fabricating Fluorine-Doped Sol-Gel Article
6,226,431	Brown 5-18-1/	01-May-2001	29-Jun-2019	Optical Fiber Cable

OFS CONFIDENTIAL

10/14/2008

Page 25

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,229,948	Blee 4-1-21-17-14/	08-May-2001	08-Sep-2019	Apparatus For Pole-Mounting An Optical Fiber Splice Closure
6,232,549	Burek 18-14-4/	15-May-2001	26-Jan-2019	Splice Closure Ground Lug Insulator
6,243,523	Aloisio 14-16-22-7-9-3/	05-Jun-2001	29-Jun-2019	Coated Optical Fiber With Increased Modulus And Thermally Enhanced Strippability
6,249,638	Hale 8/	19-Jun-2001	31-Dec-2016	Photocurable Low Refractive Index Coatings
6,250,817	Driscoll 4-38-3/	26-Jun-2001	19-Oct-2019	A Device That Attaches To The Boot Of An Optical Fiber Simplex Connector To Provide The Connector With Anti-Snagging And Or Polarity Identification Features
6,251,252	Spectran 30C/	26-Jun-2001	25-Aug-2018	Metalization of Non(mil)Hermetic Optical Fibers
6,254,278	Andrews 2-31-1/	03-Jul-2001	06-Oct-2019	Optical Fiber Tunable Connector Adapter
6,256,439	Brown 6-14/	03-Jul-2001	21-Oct-2018	Lubricant For Central Core Fiber Optical Cable Having Stranded Ribbons
6,259,850	Crosby 1-1/	10-Jul-2001	26-Oct-2019	Crossconnect Module Having Monitoring Provisions
6,263,136	Jennings 9-16-36/	17-Jul-2001	29-Oct-2019	Intelligent Optical Transmitter Module
6,266,471	Burek 20-16-13/	24-Jul-2001	17-Aug-2019	Gripping Assembly For Fiber Splice Closure
6,273,619	Shahid 35-1-18/	14-Aug-2001	14-Dec-2018	Alignment Sleeves For Interconnecting Optical Adapter Ferrules Of Dissimilar Size, And Methods For Making Same
6,275,629	Eggleton 7-6-24/	14-Aug-2001	30-Oct-2018	Optical Grating Devices With Adjustable Chirp
6,275,643	Bandy 2-8-26/	14-Aug-2001	09-Feb-2020	Attenuator Element For Use With An Optical Fiber Adapter

OFS CONFIDENTIAL

10/14/2008

Page 26

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,287,018	Andrews 5-32-5-2-5/	11-Sep-2001	28-Jul-2019	Tuning Optical Fiber Connector
6,292,612	Golowich 2-14-5/	18-Sep-2001	07-Jun-2019	Multi-Mode Optical Fiber Having Improved Refractive Index Profile And Devices Comprising Same
6,293,710	Driscoll 2-36-5-5-8/	25-Sep-2001	06-Oct-2019	An Optical Connector Having A One-Piece Housing
6,295,400	Shahid 49/	25-Sep-2001	11-Oct-2019	Multipitch Optical Fiber Ribbon
6,296,201	Jackson 1-1/	02-Oct-2001	28-Jan-2020	Method And Apparatus For Removing Optical Fiber
6,298,188	Chapin 21-21-9/	02-Oct-2001	22-Oct-2019	Plenum Rated High Modulus Buffered Optical Fiber
6,303,182	Eggleton 15-2-11-31/	16-Oct-2001	18-Feb-2019	Method Of Making Optical Fiber Devices Having Variable Thickness Metal Coatings
6,307,988	Eggleton 17-19-33-81/	23-Oct-2001	28-Jul-2019	Optical Fiber Communication System Incorporating Automatic Dispersion Compensation Modules To Compensate For Temperature Induced Variations
6,310,899	Jacobovitz-Veselka 5-11/	30-Oct-2001	15-Apr-2018	Cascaded Raman Resonator System And Apparatus
6,317,535	Jennings 12-19-39/	13-Nov-2001	24-Aug-2019	System And Method For Testing Optical Fibers That Lead Between A Telecommunications Provider And A Customer's Premises
6,317,549	Brown 1/	13-Nov-2001	24-May-2019	Optical Fiber Having Negative Dispersion And Low Slope In The Erbium Amplifier Region
6,317,553	Harper 1-28-3-36-8/	13-Nov-2001	07-May-2019	Methods for Making Coated Fiber Strands Having One Or More Heterogeneous Regions
6,318,903	Andrews 6-7-43-4-5-10/	20-Nov-2001	29-Feb-2020	Optical Fiber Connector For A Backplane
6,321,013	Hardwick 10-18-19-3-16-11/	20-Nov-2001	15-Sep-2019	Stacks Of Optical Fiber Ribbons Closely Bound By Respective Buffer Encasements, Associated Methods, And Associated Fiber Optic Cables

OFS CONFIDENTIAL

10/14/2008

Page 27

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,325,547	Cammons 6-35-4/	04-Dec-2001	06-Oct-2019	An Optical Connector Having A Housing Assembly That is Comprised Of Polyphenylsulfone
6,337,057	Bohrer 8-10-5/	08-Jan-2002	23-Jun-2019	Process For The Direct Production Of Germanium Tetrachloride From Hydrated Germanate-Containing Solids Using Gaseous Hydrogen Chloride
6,343,490	Alonzo 1-15-9-56/	05-Feb-2002	02-Aug-2019	Processing Entailing SolGel Fabrication Of Silica Glass
6,351,585	Amundson 6-13-1-9-30/	26-Feb-2002	02-Feb-2019	Thermally Adjustable Optical Fiber Grating Device With Packaging For Enhanced Performance
6,351,587	Holland 14/	26-Feb-2002	12-Nov-2019	MULTI-FIBER DIGITAL DELAY LINE
6,352,372	Shahid 47/	05-Mar-2002	11-Oct-2019	High-Density Optical Connectors
6,355,751	Blyler 40-2-3/	12-Mar-2002	31-Dec-2016	Curable Coatings With Improved Adhesion To Glass
6,356,687	Shahid 42/	12-Mar-2002	02-Apr-2019	Optoelectronic Modules For Offset Launching Of Optical Signals, And Methods For Making Same
6,357,934	Driscoll 5-39/	19-Mar-2002	27-Jan-2020	Optical Fiber Boot For A Connector That Provides Anti-Snagging And Polarity Identification
6,360,049	Freed 1-8-15-10-35/	19-Mar-2002	01-Feb-2020	Method for Fiber And Copper Cable In Distributing Frame or Bay Shelves
6,364,534	Lampert 42/	02-Apr-2002	29-Feb-2020	Panel Mounting Assembly For Optical Fiber Connectors
6,366,724	Jennings 14-21-41/	02-Apr-2002	29-Oct-2019	Integrated Optical Transmitter And Receiver Module
6,367,984	Sheldon 9-27/	09-Apr-2002	10-Nov-2019	Optical Fiber Adapter
6,370,293	Emmerich 1-45/	09-Apr-2002	16-Sep-2019	Flexible Optical Circuits Having Optical Fibers Encapsulated Between Porous Substrates And Methods For Fabricating Same

OFS CONFIDENTIAL

10/14/2008

Page 28

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,370,300	Eggleton 12-7-12-27-78/	09-Apr-2002	18-Feb-2019	Optical Communication System Incorporating Automatic Dispersion Compensation Modules
6,377,737	Sheu 22/	23-Apr-2002	21-Feb-2020	Filling Compound Having Alumina Gelling Agent
6,385,368	Amundson 2-1-10-5/	07-May-2002	19-Feb-2019	Method And Apparatus For Modulating Signal Strength Within Optical Systems
6,386,002	Bhandarkar 11-52-77-4/	14-May-2002	14-May-2016	Processing Entailing Sol-Gel Production of Silica Glass
6,393,178	Ranka 4-20-14C/	21-May-2002	01-Feb-2021	Microstructure Optical Fibers For Dispersion Management In Optical Communication Systems
6,396,573	Pimpinella 54/	28-May-2002	17-Feb-2020	System And Method For Optically Testing Broadcasting Systems
6,400,450	Golowich 5-17-10/	04-Jun-2002	17-Mar-2020	Method Of Qualifying A Multimode Optical Fiber for Bandwidth Performance
6,400,865	Strasser 37-3/	04-Jun-2002	31-May-2020	Article Comprising A Bragg Grating In A Few-Mode Optical Waveguide
6,404,962	Hardwick 11-19-20-4-17-12/	11-Jun-2002	15-Sep-2019	Groups Of Optical Fibers Closely Bound By Easily Removable Buffer Encasements, And Associated Fiber Optic Cables
6,409,392	Driscoll 3-37-2/	25-Jun-2002	19-Oct-2019	Duplex Clip For Clipping Two Optical Fiber Simplex Connectors Together To Form A duplex Connector
6,415,079	Burdge 1-19-40-6-11/	02-Jul-2002	03-Mar-2020	Optical Fiber Gratings Having Internal GAP Cladding For Reduced Short Wavelength Cladding Mode Loss
6,415,085	Graham 6-8-11-13/	02-Jul-2002	01-Aug-2015	Sub-Miniature Optical Fiber Cables, and Apparatuses and Methods for Making The Sub-Miniature Optical Fiber Cables
6,415,090	Taylor 41-10/	02-Jul-2002	13-Nov-2020	Optical Fiber Coatings
6,416,235	Rabinovich 21/	09-Jul-2002	02-Jun-2018	Glass Ferrule Optical Fiber Connectors

OFS CONFIDENTIAL

10/14/2008

Page 29

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,421,486	Daneshvar 1-1/	16-Jul-2002	01-Jul-2019	Extruded Buffer Tubes Comprising Polyolefin Resin Based Color Concentrates For Use In Fiber Optic Cables
6,421,493	Burek 22-52-1/	16-Jul-2002	24-Mar-2020	Apparatus And Method For Assembling And Aligning A Plurality Of Optical Fibers
6,422,043	DiGiovanni 52-4-1-16/	23-Jul-2002	16-Nov-2019	Method Of Making An Improved Multimode Optical Fiber And Fiber Made By Method
6,427,040	Ahuja 1-18-10-23/	30-Jul-2002	30-Oct-2018	Optical Waveguide Gratings Device With Adjustable Optical Space Profile
6,427,041	Strasser 36-2/	30-Jul-2002	31-May-2020	Article Comprising A Tilted Grating In A Single Mode Waveguide
6,430,344	Dixon 5-8-18-11/	06-Aug-2002	23-Feb-2021	Communication Cable Having Enhanced Crush Resistance
6,430,352	Jennings 16-23-43/	06-Aug-2002	23-Mar-2020	Apparatus And Method Of Testing Optical Networks Using Router Modules
6,430,967	Mueller 8/	13-Aug-2002	26-Oct-2019	Pressure Monitoring System Using Disposable Seals
6,434,172	DiGiovanni 53-19-14-11/	13-Aug-2002	06-Aug-2019	Article Comprising Fiber Raman Device
6,437,894	Gilbert 4-6-2-11-33/	20-Aug-2002	11-Dec-2018	Fiber Distribution Shelf Assembly For A Fiber Administration System Having Integrated Line Tracing Capabilities
6,438,277	Eggleton 16-18/	20-Aug-2002	03-Jun-2019	Stabilized Thermally Tunable Optical Waveguide Devices And Communication Systems Employing Them
6,438,308	Phillips 1-29/	20-Aug-2002	30-Sep-2018	Upgradeable Connector Module For Use In A Fiber Administration System
6,442,977	Bhandarkar 18-1-8/	03-Sep-2002	20-Jun-2020	Sol-Gel Process For Fabricating Germanium-Doped Silica Article
6,446,468	Fleming 42-1-4-6/	10-Sep-2002	01-Aug-2020	Process For Fabricating Optical Fiber Involving Overcladding During Sintering

OFS CONFIDENTIAL

10/14/2008

Page 30

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,453,097	Newton 9-10/	17-Sep-2002	18-Oct-2019	Minicord Cable Apparatus Having High Modulus Buffered Optical Fiber And Method For Making
6,456,370	Ingles 3/	24-Sep-2002	29-Mar-2021	Method Of Measuring Bending Loss With An Optical Time Domain Reflectometer
6,456,768	Boncek 3-44-1/	24-Sep-2002	18-Oct-2020	Optical Fiber Cable Tracing System
6,456,895	Aloisio 13-3-9/	24-Sep-2002	13-Sep-2019	Method And Apparatus For Detecting Conditions In An UV Curing Lamp System
6,457,329	Bhandarkar 19-18-58/	01-Oct-2002	14-Dec-2020	Process For Fabricating Sol-Gel Article Involving Low-Shrinkage Formulation
6,460,378	Dong 1-7-22-5/	08-Oct-2002	29-Feb-2020	Collapsing a Multitube Assembly and Subsequent Optical Fiber Drawing In The Same Furance
6,460,379	Mueller 9-59/	08-Oct-2002	25-Oct-2019	MCVD Apparatus Having Two Opposing Motors To Eliminate Backlash in Burner Motion
6,464,402	Andrews 3-33-6-3-6/	15-Oct-2002	28-Jul-2019	Optical Fiber Connector Tuning Index Tool
6,467,312	De Hazan 1-82-7-6-10/	22-Oct-2002	11-Jul-2020	Method of Making Microstructured Optical Fiber
6,474,876	Sikorski 5/	05-Nov-2002	13-Aug-2019	Shielded Optical Fiber Adaptor
6,478,472	Anderson-JM 15-10/	12-Nov-2002	10-Jan-2021	High-Density Optical Connecting Block
6,481,721	Mueller 2-1/	19-Nov-2002	15-Jul-2019	Method And Apparatus For Overcladding A Glass Rod
6,483,973	Spectran 2/	19-Nov-2002	31-Mar-2020	Cladding Member for Optical Fibers and Optical Fibers Formed With the Cladding Member
6,483,975	Hsu 3-5-22-28/	19-Nov-2002	27-Apr-2021	Positive Dispersion Optical Fiber Having Large Effective Area

OFS CONFIDENTIAL

10/14/2008

Page 31

PATENTS ASSIGNED TO FENIA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,487,327	Mock 8/	26-Nov-2002	05-Jun-2020	Optical Fiber Connector Monitor Apparatus
6,487,345	Dixon 4-17-13-9/	26-Nov-2002	12-Jan-2020	Communication Cable Having Reduced Jacket Shrinkage
6,487,348	Jackson 22/	26-Nov-2002	12-Nov-2019	Variable Fiber Count Optical Fiber Cable Core
6,490,398	Gruner-Nielsen 2-1/	03-Dec-2002	21-Feb-2021	Dispersion-Compensating Fiber Having A High Figure Of Merit
6,498,887	Gruner-Nielsen 3-1-2-1/C	24-Dec-2002	21-Feb-2021	Dispersion Compensating Fiber Having A High Relative Dispersion Slope
6,499,318	Lemaire 16-51/	31-Dec-2002	24-Mar-2014	Glass Optical Waveguides Passivated Against Hydrogen-Induced Loss Increases
6,499,318	Lemaire 24-71/	31-Dec-2002	01-Nov-2015	Glass Optical Waveguides Passivated Against Hydrogen-Induced Loss Increases
6,501,900	Albio 15-25-6-15-1-40/	31-Dec-2002	17-Feb-2020	Variable Optical Fiber Attenuator Device
6,504,973	DiGiovanni 62-1-1-28-30/	07-Jan-2003	16-Mar-2022	Raman Amplified Dispersion Compensating Modules
6,504,979	Norris 10-21-13/	07-Jan-2003	06-Sep-2021	Water Blocking Optical Fiber Cable
6,511,231	Lampert 50-10/	28-Jan-2003	27-Dec-2020	Optical Connector Receptacle Having Switching Capability
6,513,994	DiGiovanni 55-20-1/	04-Feb-2003	28-Apr-2020	Testing Optical Fiber Splices
6,521,156	Bream 2-14-79-35-6/	18-Feb-2003	12-Oct-2019	Process For Extruding Tubes and Apparatus Therefor
6,522,434	Jennings 13-20-40/	18-Feb-2003	13-Aug-2019	System And Method For Determining Optical Loss Characteristics Of Optical Fibers In An Optical Fiber Network

OFS CONFIDENTIAL

10/14/2008

Page 32

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,524,014	Sheldon 3-21/	25-Feb-2003	01-Apr-2019	Universal Modular Optical Fiber Buildout
6,532,773	Mazzarese 3-2-1/	18-Mar-2003	30-Jun-2020	Method Of Modifying The Index Profile Of An Optical Fiber Preform In The Longitudinal Direction
6,542,689	Boncek 1/	01-Apr-2003	15-Nov-2019	Attenuator For Buffered Optical Fibers
6,543,941	Lampert 46/	08-Apr-2003	18-Oct-2020	Optical/Electrical Jack Receptacle
6,543,942	Veng 1/	08-Apr-2003	21-Sep-2020	Dispersion-Compensating Fiber System Having A Bridge Fiber And Methods For Making Same
6,546,712	Moss 6-10-1-3-11/	15-Apr-2003	12-May-2021	Reverse Oscillating Lay (ROL) Consistency Control System for Optical Fiber Cable Manufacturing
6,547,450	Lampert 48/	15-Apr-2003	27-Jun-2021	Quick-Release Dust Cap For An Optical Plug
6,553,790	Fleming 41-46/	29-Apr-2003	09-May-2020	Process For Fabricating Optical Fiber Involving Tuning Of Core Diameter Profile
6,554,484	Lampert 47-9/	29-Apr-2003	27-Dec-2020	Optical Connector Receptacle Having Switching Capability
6,556,761	Jennings 21-28-48/	29-Apr-2003	29-Sep-2020	Self Detection System For A Fiber Distribution Frame
6,560,395	Shahid 48/	06-May-2003	11-Oct-2019	Apparatus And Method For Manufacturing An Optical Fiber Ribbon
6,565,269	Riis 1-1-2/	20-May-2003	09-Jun-2021	Systems and Methods for Low-Loss Splicing of Optical Fibers Having a High Concentration of Fluorine to Other Types of Optical Fiber
6,567,583	Mettler 8-2/	20-May-2003	05-Nov-2019	Mode Converter And Method
6,568,074	Shahid 54/	27-May-2003	01-Mar-2021	Apparatus And Method For Making Planar Optical Fiber Circuits

OFS CONFIDENTIAL

10/14/2008

Page 33

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,568,218	Mueller 14-74/	27-May-2003	02-Feb-2020	Apparatus And Method For Shaping Glass Tubes
6,571,581	Mueller 19/	03-Jun-2003	03-Mar-2021	Contactless Extrusion Process And Apparatus
6,571,582	Bhandarkar 21-4-85-11/	03-Jun-2003	19-Apr-2021	Manufacture Of Silica Bodies Using Sol-Gel Techniques
6,574,403	Golowich 6-2-11-1/	03-Jun-2003	17-May-2020	Apparatus And Method For Improving Bandwidth Of Multimode Optical Fibers
6,575,346	Fenjac 1-1-11-2-4-1/	10-Jun-2003	12-Apr-2021	Torque Capstan That Improves Reverse Oscillating Lay (ROL) Consistency During an Optical Fiber Cable Manufacturing Process
6,576,165	Aolsio 16-7/	10-Jun-2003	22-Dec-2020	Shape Memory Device For Optical Connectors And Splices
6,578,387	Spectran 3/	17-Jun-2003	28-Jan-2020	Method of Fabrication of Rare Earth Doped Preforms For Optical Fibers
6,578,387	Spectran 3C/	17-Jun-2003	28-Jan-2020	Method of Fabrication of Rare Earth Doped Preforms For Optical Fibers
6,579,015	Lampert 49/	17-Jun-2003	14-Mar-2021	Optical Ferrule Having a Multiple-Angle Pedestal
6,583,867	Jennings 11-18-38/	24-Jun-2003	13-Aug-2019	System And Method For Monitoring Optical Fiber Integrity Between The telecommunications Provider And A Customer's Premises
6,583,938	Lampert 45-11/	08-Jul-2003	08-Dec-2020	Optical-Electrical Plug Connector
6,594,427	Dixon 3-7-16-12-8/	15-Jul-2003	22-Aug-2020	Communication Cable Having Polypropylene Copolymer Jacketing Material
6,596,203	Au 2-4-23-5/	22-Jul-2003	02-May-2020	Method and Apparatus for Increasing UV Dose and Throughput of High-Speed UV Curing Processes
6,600,859	Chandralah 5-24-4-20/	29-Jul-2003	02-Jul-2021	Composite Modular Optical Fiber Ribbon

OFS CONFIDENTIAL

10/14/2008

Page 34

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,603,914	Edvold 1-1-1-3/	05-Aug-2003	05-Aug-2021	Dispersion Compensating Fiber With Reduced Splice Loss And Methods For Making Same
6,605,783	Reed 14/	12-Aug-2003	25-Mar-2020	Non-Metallic Transmission Cables And Method For Terminating The Same
6,608,952	Eggleton 28-25-1-18/	19-Aug-2003	19-Sep-2021	Fiber Apparatus Manipulating Optical Signals
6,609,837	Lampert 54/	26-Aug-2003	16-Nov-2021	Optical Fiber Adapter For Dissimilar Size Ferrules
6,611,418	Mazlout 1-24-1/	26-Aug-2003	01-Jan-2022	Compliant Collect Chuck
6,611,646	Norris 2-10-9-1/	26-Aug-2003	08-Oct-2019	Hybrid Strength Member For An Optical Cable
6,619,856	Lampert 57-3-14/	16-Sep-2003	20-May-2022	Polarization Maintaining Optical Fiber Connector Adapter
6,631,229	Norris 13-17/	07-Oct-2003	07-Sep-2021	Water Blocking Optical Fiber Cable
6,633,715	Knudsen 2-1/	14-Oct-2003	20-Dec-2021	Optical Fiber Having Negative Dispersion, Negative Dispersion Slope and Large Effective Area
6,636,685	Hicks 10-55/	21-Oct-2003	30-Jan-2022	Systems and Methods for Fabricating Flexible Optical Fiber Circuits
6,649,215	Harper 2-29-5-42-10/	18-Nov-2003	07-May-2019	Methods for Making Coated Fiber Strands Having One or More Heterogeneous Regions
6,652,155	Lampert 51/	25-Nov-2003	21-Jun-2021	Optical Connector Plug
6,654,531	Gruner-Nielsen 9-3-3-2/	25-Nov-2003	15-Mar-2022	Dispersion-Compensating Module
6,658,191	German 35-26-33-57/	02-Dec-2003	31-Dec-2022	Overlay For Telecommunication Distribution Frame

OFS CONFIDENTIAL

10/14/2008

Page 35

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,658,215	Strasser 34-24/	02-Dec-2003	24-Sep-2019	Arrangement For Mitigating First-Order And Second-Order Polarization Mode Dispersion In Optical Fiber Communication Systems
6,661,502	Jakobsen 4-4/	09-Dec-2003	28-Oct-2019	Method And Apparatus For Measuring The Diameter And/Or Eccentricity Of A Coating Layer Of A Coated Optical Fiber
6,663,293	Lampert 52-1/	16-Dec-2003	16-Mar-2021	Tunable Optical Fiber Connector
6,671,441	Bocanegra 2-1-1-23-7/	30-Dec-2003	22-Aug-2020	Optical Cabling Apparatus Having Improved Dry Filling Compound And Method For Making
6,681,071	Jackson 4-2-12-5-6-13/	20-Jan-2004	15-May-2022	Dry Core Indoor/Outdoor Fiber Optic Cable
6,688,781	Anderson 6-17-3-28/	10-Feb-2004	11-Mar-2022	Optical Connector Adapter Having Switching Capability
6,688,881	Olewicz 1/	10-Feb-2004	09-Aug-2022	Universal Torch Mount Assembly for the High Deposition Glass Torches
6,697,558	Hansen 20-1-1-19-19C/	24-Feb-2004	30-Jan-2021	Raman Amplified Optical System With Reduction Of Four-Wave Mixing Effects
6,701,753	Dong 3-9/	09-Mar-2004	09-Feb-2021	Method And Apparatus For Making Improved Optical Fiber Preforms And Optical Fiber Therefrom
6,704,100	McCurdy 2-1/	09-Mar-2004	08-Aug-2022	Systems and Methods for Accurately Measuring Low Values of Polarization Mode Dispersion in an Optical Fiber Using Localized External Perturbation Induced Low Mode Coupling
6,705,765	Lampert 56-2-13-25/	16-Mar-2004	20-May-2022	Polarization Maintaining Optical Fiber Connector Plug
6,707,976	Gruner-Nielsen 8-3-2/	16-Mar-2004	04-Sep-2022	Inverse Dispersion Compensating Fiber
6,707,980	Holman 1-6/	16-Mar-2004	23-Feb-2022	Variable Attenuator for Optical Fiber Applications
6,717,659	Adams 1-10-2-1-26/	06-Apr-2004	14-Jun-2022	Method And Apparatus for Detecting Airlines In Optical Fibers

OFS CONFIDENTIAL

10/14/2008

Page 36

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,718,800	Spectran 1/	13-Apr-2004	20-Jan-2020	Method of Preparing Preforms For Optical Fibers
6,721,088	Boutellier 2-1-1-5/	13-Apr-2004	15-Mar-2022	Single-Source Multiple-Order Raman Amplifier for Optical Transmission Systems
6,724,956	Edvold 2-5-1-31/	20-Apr-2004	03-Apr-2022	Method and Apparatus For Providing Dispersion Compensation
6,735,985	DiGiovanni 61-14-1-3-1/	18-May-2004	27-Feb-2022	Multimode Optical Fibers With Increased Bandwidth
6,744,939	Lampert 55-1-12/	01-Jun-2004	20-May-2022	Polarization Maintaining Optical Fiber Connector and Method of Tuning (PM Connectors)
6,748,136	Headley 5-1/	08-Jun-2004	15-Mar-2022	Wide Band Raman Amplifiers
6,753,118	Deshmukh 1-29-1-1-1-18/	22-Jun-2004	27-Mar-2022	Optical Grating Fabrication Process
6,767,144	Yablon 3/	27-Jul-2004	03-Jul-2022	Systems And Methods For Reducing Splice Loss In Optical Fibers
6,767,205	Jenkins 1-2-2-28/	27-Jul-2004	25-Mar-2023	Housing for an Optical Fiber Preform Torch
6,768,577	Eggleton 30-3/	27-Jul-2004	15-Mar-2022	Tunable Multimode Laser Diode Module, Tunable Multimode Wavelength Division Multiplex Raman Pump, and Amplifier, And A System, Method, And Computer Program Product For Controlling Tunable Multimode Laser Diodes Raman Pumps Tunable Polarizers
6,768,824	Ramachandran 4/	27-Jul-2004	23-Oct-2022	Tunable Mode-Converters Using Few Mode Fibers
6,768,835	Ramachandran 2/	27-Jul-2004	04-Sep-2022	Dispersion-Compensating Modular Having Precise Control of Residual Dispersion
6,768,847	DiGiovanni 63-1-4-30-31/	27-Jul-2004	15-Mar-2022	Systems and Methods for Fabricating Varying Waveguide Optical Fiber Device
6,768,849	DiGiovanni 65-2-32/	27-Jul-2004	03-Jul-2022	

OFS CONFIDENTIAL

10/14/2008

Page 37

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,768,853	Neveux 7/	27-Jul-2004	21-Jun-2022	Buffered Optical Fibers and Methods of Making Same
6,772,974	Gallagher 2-1-1-5/	10-Aug-2004	19-Nov-2022	Systems and Methods for Precision Mapping and Removal of Defects in a Spooled Material Using Spool Rotation and Variable Winding Pitch
6,775,447	Nicholson 2-33/	10-Aug-2004	20-Sep-2022	All-Fiber, Low-Noise Supercontinuum Source
6,775,449	White 7/	10-Aug-2004	26-Mar-2022	Multiple Optical Fiber Having Reduced Intermodal Dispersion
6,776,012	Chang 3-9-24/	17-Aug-2004	26-Jun-2021	Method And Apparatus For Fabricating Optical Fiber Using Improved Oxygen Stoichiometry And Deuterium Exposure
6,778,715	Ramachandran 5/	17-Aug-2004	06-Nov-2022	Optical Fiber-Based Device With Tunable Birefringence
6,778,744	Norris 12-22-15-16/	17-Aug-2004	08-Oct-2019	Dielectric Optical Fiber Cable Having Reduced Preferential Bending
6,778,745	Debban 2-24-9-1-19-14-12/	17-Aug-2004	23-Aug-2021	Optical Fiber Cable Apparatus Having Encased Ribbon Stack
6,782,148	Eggleton 29-2/	24-Aug-2004	15-Mar-2022	Modifying Birefringence In Optical Fibers
6,788,397	Golowich 7-18/	07-Sep-2004	28-Feb-2020	Technique For Measuring Modal Power Distribution Between An Optical Source And Multimode Fiber
6,789,954	Lampert 58-4-15/	24-Sep-2004	13-Sep-2022	Robust Optical Connector
6,791,678	Garner 2-1-4/	14-Sep-2004	23-Jul-2022	System and Method for Obtaining Spin and Mechanical Twist Data During Optical Fiber Draw
6,801,696	Davis 2-3-6-14/	05-Oct-2004	07-Jun-2022	Fiber Optic Cable Structure and Method
6,801,700	MacChesney 86-12-6-29/a	05-Oct-2004		Optical Fiber Design for Secure Tap-Proof Transmission

OFS CONFIDENTIAL

10/14/2008

Page 38

PATENTS ASSIGNED TO FENIA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,807,338	Bouteiller 1-24-4-2/	19-Oct-2004	27-Sep-2021	Multiwavelength Cascaded Raman Resonator
6,807,358	Jones 18-4-1-6-26/	19-Oct-2004	30-Aug-2022	Rotary Variable Attenuator Using an Off-Set Ferrule and Stop for Optical Fiber Applications
6,810,196	Jones 9-5-7-31/	26-Oct-2004		Variable Attenuator for Optical Fiber Applications
6,811,329	Chandan 3-2/	02-Nov-2004	12-Dec-2022	Systems and Methods for Monitoring Pre-Splice Heat Treatment of Optical Fibers
6,816,663	Daoud 299/	09-Nov-2004	07-Apr-2023	Unitary Fan-Out Device for Optical Ribbon Cables
6,823,123	Rathje 1/	23-Nov-2004	06-Sep-2022	Method and Apparatus for Providing Dispersion Compensation
6,825,341	DiGiovanni 64-1-5-1/	30-Nov-2004	04-Nov-2022	Systems And Methods For Reducing Splice Loss In Optical Fibers
6,826,342	Bise 1-2/	30-Nov-2004	13-Mar-2023	Temperature Tuning of Dispersion In Photonic Band Gap Fiber
6,827,507	Chandan 2-1/	07-Dec-2004	12-Dec-2022	Systems and Methods For Reducing Splice Loss In Optical Fibers
6,834,516	Jablonsowski 4-1-3/	28-Dec-2004	18-Jan-2023	Method for Controlling Temperature During Fabrication of a VAD Optical Preform
6,836,603	Bocanegra 5-6-4-20/	28-Dec-2004	14-Aug-2023	Tight Buffered Optical Drop Cables
6,836,606	Abeeluck 1-33-5-1-2/	28-Dec-2004	15-Jan-2023	Filled-Core Optical Fiber and Method of Making the Same
6,839,481	White 20/	04-Jan-2005	04-Apr-2023	High-Capacity Multimode Optical Fiber Systems
6,839,484	White 19/	04-Jan-2005	01-Apr-2023	Optical Fiber for Single-Made Operation

OFS CONFIDENTIAL

10/14/2008

Page 39

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,840,687	Riis 2-2-5/	11-Jan-2005	20-May-2023	Systems and Methods for Low-Loss Splicing of Optical Fibers
6,845,194	Ramachandran 1/A	18-Jan-2005	11-Jun-2022	Optical Bandpass Filter Using Long Period Gratings
6,847,763	Eggleton 32-1-4/	25-Jan-2005	17-Dec-2022	Colorless Tunable Dispersion Compensator Based on Thermally Tunable Fiber Bragg Grating Bundle and Optical Switch
6,859,596	Garner 1-1-1-1/	22-Feb-2005	23-Jul-2022	Systems and Methods for Forming Ultra-Low PMD Optical Fiber
6,860,645	Miller 1-2/	01-Mar-2005	26-Jun-2023	Optical Fiber Cable Connector System
6,865,320	Westbrook 17/a	08-Mar-2005	25-Feb-2023	Optical Tabs Formed Using Fiber Gratings
6,865,327	Atkins 23-4-4-2-1-3/a	08-Mar-2005	19-Sep-2022	Method of Making Optical Fiber With Reduced E-Band and L-Band Loss Peaks
6,885,792	Eggleton 34-1-19/	26-Apr-2005	24-Sep-2022	Compact, Low Resolution, Wavelength Monitor
6,888,991	White 21/	03-May-2005	04-Apr-2023	Single-Mode Fiber Systems
6,898,368	Colombo 3-2-28-6-60-35-3-/	24-May-2005	13-Sep-2022	Adapter Systems For Dynamically Updating Information Related to a Network and Methods For Developing the Adapter Systems
6,899,470	DiGiovanni 68-6/	31-May-2005	17-Jul-2022	Systems and Methods for Fabricating Low-Loss, High-Strength Optical Fiber Transmission Lines
6,904,210	Chandraiah 6-25-2/	07-Jun-2005	22-Jul-2022	Fiber Optic Ribbon Design to Buffer Against Bend Loss
6,904,217	Kallish 15-4-4-2/	07-Jun-2005	04-Oct-2025	Method for the Manufacture of Optical Fibers, Improved Optical Fibers, and Improved Raman Fiber Amplifier Communication Systems
6,904,218	Peckham 6-1-7/	07-Jun-2005	12-May-2023	A Super-Large Effective-Area (SLA) Optical Fiber and Communication System Incorporating the Same

OFS CONFIDENTIAL

10/14/2008

Page 40

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,923,023	Hong 12-1-2/	02-Aug-2005	01-Oct-2022	Methods and Apparatuses for Controlling Optical Fiber Primary Coating Diameter
6,923,024	Jablonski 5-4/	02-Aug-2005	20-Jul-2023	Method for Controlling the Growth Rate of a VAD Preform
6,927,849	Adams 2-3-1/	09-Aug-2005	23-Oct-2022	Optical Fiber Coating Defect Detector
6,928,841	Wu 5/	16-Aug-2006	23-Jun-2023	Method and Apparatus for Cleaning A Glass Core Rod During Fabrication
6,930,768	Ingles 5-33-17-1-1/	16-Aug-2005	12-May-2023	Detection of Discontinuities In A Multimode Optical Fiber
6,932,514	Anderson 17-7-8-62-9/	23-Aug-2005	21-Jan-2023	High Density Modular Backplane Connector for Fiber Optics
6,934,452	Bocanegra 6-7-4-5-21/	23-Aug-2005	22-Apr-2023	Improved Optical Fiber Cables
6,937,325	Garner 5-4-12-7/	30-Aug-2005	30-Jan-2023	Method and Apparatus for Measuring The Amount Of Spin Introduced Into A Glass Fiber During Manufacture
6,937,788	Ramachandran 3/	30-Aug-2005	04-Sep-2022	Adjustable Dispersion Compensator With Few Mode Fibers and Switchable Mode Converters
6,941,081	Moeller 9-12C/	06-Sep-2005	11-Nov-2022	Method And Apparatus For Polarization Measurements
6,950,578	Ramachandran 6/1	27-Sep-2005	28-May-2024	Highly Sensitive Sensors, Modulators and Tunable Attenuators With Long Period Fiber Gratings
6,950,611	Erdogan 12-42-7/	27-Sep-2005	12-Feb-2021	In-Line Polarization Monitoring And Control In Lightwave Communication Systems
6,952,517	Kalish 10-2-1-1/	04-Oct-2005	29-Jan-2023	Optical Fiber For Long-Haul Transmission System
6,958,096	Lindholm 1/	25-Oct-2005	04-Aug-2023	Systems and Methods for Coating Optical Fiber

OFS CONFIDENTIAL

10/14/2008

Page 41

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
6,959,137	Kalish 16-5-7-2/	25-Oct-2005	11-Jun-2023	Large-Effective-Area Dispersion and Slope Compensating Fiber and Transmission Line Incorporating The Same
6,960,028	Lampert 63/	01-Nov-2005	09-Sep-2023	Optical Fiber Connection Utilizing Fiber Containing Ferrules
6,966,201	DiGiovanni 66-3/	22-Nov-2005	16-Aug-2022	High-Temperature Sintering of Soot Bodies Doped Using Molecular Stuffing
6,967,767	Nicholson 3/	22-Nov-2005	18-Mar-2023	Swept Wavelength Broadband Raman Pump Source
6,970,624	DiGiovanni 71-6/	29-Nov-2005	13-Jun-2023	Cladding Pumped Optical Fiber Gain Devices
6,973,245	Bocanegra 7-8-5-6-22/	06-Dec-2005	30-Dec-2023	Improved Optical Fiber Cables
6,973,246	Bocanegra 8-9/	06-Dec-2005	28-Apr-2024	High Count Optical Fiber Cable
6,980,578	Ramachandran 10/	27-Dec-2005	18-Jan-2025	OPTICAL BANDPASS FILTER USING LONG PERIOD GRATINGS
6,990,270	Nicholson 4/	24-Jan-2006	11-Feb-2024	Fiber Amplifier for Generating Femtosecond Pulses in Single Mode Fiber
6,990,277	White 17/	24-Jan-2006	04-Apr-2023	Enhanced Multimode Fiber
6,991,679	Kenkare 2-9-4-1/	31-Jan-2006	28-Feb-2023	Multiple Feed Applicator Assembly for Coating Optical Fibers
6,996,317	Eggleton 37-1-4/	07-Feb-2006	23-Oct-2023	Optical Devices Including Microstructured Fiber Sections Disposed for Transverse Signal Propagation
7,001,466	Hong 13-2-3/	21-Feb-2006	20-Dec-2022	Systems and Methods for Automatic and Continuous Coating Supply During Optical Fiber Production
7,010,195	Westbrook 16/	07-Mar-2006	15-Mar-2022	Fiber Optic Grating With Tunable Polarization Dependent Loss

OFS CONFIDENTIAL

10/14/2008

Page 42

PATENTS ASSIGNED TO FENIA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
7,013,678	DiGiovanni 69-32-4-34/	21-Mar-2006	19-Sep-2022	Method for Fabricating Graded-Index Optical Fiber Lenses
7,021,083	McDonald 2-6/	04-Apr-2006	29-Jan-2023	Manufacture of High Purity Glass Tubes
7,031,589	Calabrese 2-2-28-11/	18-Apr-2006	09-Nov-2022	Improved Formulation for Low-Reflectance Attenuators
7,035,525	Gamer 4-11-12-3-1-1-1-6/	25-Apr-2006	26-Sep-2022	Methods and Apparatuses for Correcting Mechanical Twist in Optical Fiber
7,037,003	Christensen 1-7-5/	02-May-2006	12-Nov-2022	Systems and Methods for Reducing Splice Loss in Optical Fibers
7,043,128	DiGiovanni 72-15-2-4-2/A	09-May-2006	18-May-2024	Multimode Optical Fibers With Increased Bandwidth
7,046,899	Colombo 5-4-30-1-2/	16-May-2006	02-Mar-2024	An Intelligent Fiber Distribution Shelf Cover for Optical Fiber Management
7,057,735	Jasapara 1/	06-Jun-2006	06-Nov-2023	Method and Apparatus For Measuring the Optical and Physical Thickness of Optically Transparent Objects
7,072,099	Mermelstein 1/	04-Jul-2006	29-Oct-2022	Relative Intensity Noise (RIN) Reduction in Fiber-Based Raman Amplifier Systems
7,072,589	Jorgensen 1/	04-Jul-2006	16-Sep-2022	Method and Apparatus For Controlling The Power Level in An Optical Regenerator
7,077,580	Bradley 4-11-8-30/	18-Jul-2006	27-Oct-2023	Fiber Optic Connectors and Related Methods
7,080,945	Colombo 4-3-29-7-61-36-4-/C	25-Jul-2006		Connector Systems for Dynamically Updating Information Related to a Network and Methods for Developing the Connector Systems
7,081,323	Eggleton 36-3-20/	25-Jul-2006	27-Nov-2022	Method for Making Gratings and Phase Masks for Fiber Grating Fabrication
7,081,808	Colombo 2-1-27-5-59-34-2-/	25-Jul-2006	13-Sep-2022	Self Registering Apparatus and Systems and Methods for Dynamically Updating Information Related to a Network

OFS CONFIDENTIAL

10/14/2008

Page 43

PATENTS ASSIGNED TO FENIA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
7,082,228	Nelson 1/	25-Jul-2006	21-May-2023	Multiple Order PMD Compensator For Optical Fiber Transmission System
7,082,250	Jones 10-5-5/	25-Jul-2006	15-Apr-2024	Laser Cleaving Method For Optical Fibers
7,089,765	Jablonski 7/	15-Aug-2006	20-May-2022	Substrate Tube and Process For Producing A Preform For An Optical Fiber HERAEUS JOINT INVENTION - THREE ADDITIONAL INVENTORS
7,099,542	Ledbetter 1-2-1/	29-Aug-2006	15-Dec-2024	Loose Tube, Dry Cable Having Improved Performance at Low Temperatures
7,100,400	Bhandarkar 22-5-87-13/	05-Sep-2006	04-Mar-2023	Manufacture of Silica Bodies Using Sol-Gel Techniques
7,110,651	Ramachandran 23/	19-Sep-2006	19-Aug-2024	Optical Fibers Having Enhanced Separation of Higher-Order Modes JOINTLY OWNED WITH LUCENT/OFS)
7,116,472	Andrejco 10-1/	03-Oct-2006	18-Feb-2025	Erbium Doped Fiber For High Power Amplifiers
7,116,874	Brown 1-2-1-5-21/R	03-Oct-2006	22-Feb-2025	Nonlinear Fiber For Supercontinuum Generation
7,139,478	Eggleston 25-1-1-7-30-13/	21-Nov-2006	01-Sep-2023	Nonlinear Optical Device Comprising A Spectrally Broadening Fiber
7,143,611	Fletcher 3-1-29-8-4/	05-Dec-2006	18-Oct-2024	Optical Preform Assembly
7,149,429	Ufongene 1/	12-Dec-2006	13-Mar-2025	Coarse Wavelength Division Multiplexing System
7,164,833	Jablonski 6-11-3-2/	16-Jan-2007	19-Jun-2024	Optical Fiber for Improved Performance in the S-, C- and L-Bands
7,171,074	DiGiovanni 73-8/	30-Jan-2007	16-Nov-2024	Large Mode Area Gain Fibers With Signal Propagation In Higher Order Modes
7,171,089	Feder 3-6-22/D1	30-Jan-2007		Modification, Enhancement and Tuning of Light Generation in Highly Nonlinear Fibers Through Post Processing

OFS CONFIDENTIAL

10/14/2008

Page 44

PATENTS ASSIGNED TO FENA

AS OF 10/14/2008
642 Issued Patents

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
7,171,130	Fishteyn 2-2-3/	30-Jan-2007	30-Sep-2024	Tunable Method to Measure Pulse Distortion Due to Chromatic Dispersion and Other Impairments in a Fiber Optic Transmission System
7,177,510	Ramachandran 7/	13-Feb-2007	07-May-2025	Microbend Induced Fiber Gratings
7,187,838	Feustel 6-2-2/	06-Mar-2007	22-Apr-2025	System and Apparatus For Radial Optical Distribution
7,209,615	Fishteyn 3/	24-Apr-2007	11-Aug-2025	Etched Tapered Fiber Bundle and Method Of Producing It
7,212,707	Huang 1/	01-May-2007	31-Aug-2023	Temperature-Compensated Fiber Grating Packing Arrangement
7,218,821	Bocanegra 9-10-23/	15-May-2007	20-Aug-2024	Modular Optical Drop Cable
7,218,828	Feustel 5-1-1/	15-May-2007	10-Aug-2025	Optical Fiber Power Splitter Module Apparatus
7,221,838	Jakobsen 5-4-9/	22-May-2007	12-Feb-2025	Optical Fibers With Reduced Splice Loss And Methods For Making Same
7,228,029	Nicholson 7-9/	05-Jun-2007	18-Jan-2026	Large Effective Area Pulse Compressor Using Higher Order Modes
7,257,293	Finl 4-13/	14-Aug-2007	14-Jul-2026	Bend-Resistant Optical Fibers
7,266,259	Sumetsky 5/1	04-Sep-2007		Optical Fiber Microcoil Resonant Structure and Method of Making the Same
7,271,916	Jasapara 3-7/A	18-Sep-2007		Characterization of Optical Fiber Using Fourier Domain Optical Coherence Tomography
7,272,287	Bise 2-1-38/	18-Sep-2007	11-May-2025	Optical Fiber Filter for Suppression of Amplified Spontaneous Emission
7,272,288	DiGiovanni 73-8/A	18-Sep-2007	16-Nov-2024	Large Mode Area Gain Fibers With Signal Propagation In Higher Order Modes

OFS CONFIDENTIAL

10/14/2008

Page 45

Patent Number	Matter Number	Issue Date	Expiration Date	Invention Title
7,340,132	Ramachandran 16/	04-Mar-2008	27-Dec-2026	Polarization Insensitive Microbend Fiber Gratings and Devices Using Same
7,340,138	Yablon 12/	04-Mar-2008	25-Jan-2027	Non-Parabolic Gradient Index (GRIN) Lens For Optical Fibers
7,340,139	Ramachandran 18/	04-Mar-2008	27-Dec-2026	Polarization Insensitive Microbend Fiber Gratings and Devices Using the Same
7,352,939	Ramachandran 17/	01-Apr-2008	27-Dec-2026	Polarization Insensitive Microbend Fiber Gratings and Devices Using the Same
7,356,233	Fini 3/	08-Apr-2008	13-Apr-2026	Bandgap Fiber Design for Suppression of Higher-Order Modes
7,386,209	DiGiovanni 75-14/	10-Jun-2008		Large Mode Area Gain Fibers With Signal Propagation In Higher Order Modes
7,400,814	Hendrickson 6-6/A	15-Jul-2008	27-Mar-2027	Wall-Mountable Fiber Management Apparatus
7,406,238	Hokansson 1-1-1/	29-Jul-2008	20-Jul-2026	Optical Fiber With Extended Bandwidth For Crimp And Cleave Connectors
7,425,099	Olsen 1/10	16-Sep-2008	10-Apr-2027	Systems and methods for modifying selected portion of optical fiber microstructure
7,431,963	Konstadinidis 5-14-15	07-Oct-2008	03-Sep-2020	Optical fiber cables for microduct installations
7,437,046	DiGiovanni 77-1-4-7	14-Oct-2008	12-Feb-2027	Optical fiber configuration for dissipating stray light
RE33459	Bohannon 27-8-1Re/	27-Nov-1990	31-Jan-2006	Optical Fiber Cable
RE37079E	Stephenson 3-3-3RE/	06-Mar-2001		Optical Fiber Ferrule Connector Having Enhanced Provisions For Tuning
RE37080	Stephenson 5-5-Re/	06-Mar-2001	27-May-2012	Optical Fiber Ferrule Connector Having Enhanced Provisions For Tuning

Patent Applications

Matter Number	Application Number	Filing Date	Invention Title
Glodis 4-70/P	60/057806	28-Aug-1997	Process For Fabricating Optical Fiber
Jackson 12-1-31/	60/059641	20-Sep-1997	Enhanced Fiber Optic Ribbon
Espindola 26-22/P	60/120767	19-Feb-1999	Wavelength Division Multiplex Optical Communication System Having Reduced Short Wavelength Loss
Kuck 21-8-2/P	60/141459	29-Jun-1999	Method of Making a Coated Optical Fiber Comprising Measuring the Delamination Resistance of the Coating at Two Different Temperatures
Shevchuk 38C/P	60/143590	13-Jul-1999	Connectors For Plastic Optical Fiber
Blyler 49-17-23-10-10C/P	60/166283	18-Nov-1999	Coated Optical Fiber With Enhanced Delamination Resistance And Thermally Enhanced Strippability
Ranka 3-13C/P	60/186949	04-Mar-2000	Decoupling Of Transverse Spatial Modes In Microstructure Optical Fibers
Ramachandran 1/	60/301,164	27-Jun-2001	Optical Bandpass Filter Using Long Period Gratings
Atkins 21-60-1-27-15-17/	09/899631	03-Jul-2001	Fiber Apparatus Having Improved Grating Fabrication And Performance Characteristics
Fletcher 1-25-2-7/	10/309852	04-Dec-2002	Rod-In-Tube Optical Fiber Preform and Method HERAEUS JOINT INVENTION - FOUR ADDITIONAL INVENTORS
Abeeluck 2-6/	60/457450	25-Mar-2003	Generation of a Supercontinuum by Launching Continuous-Wave Pump Light Into Optical Fibers
Hong 6-3-7-9-18/	10/407298	04-Apr-2003	Optical Fiber Fabrication and Product
Eggleton 35-1-27-2/	10/409227	08-Apr-2003	Microstructured Optical Waveguide for Providing Periodic and Resonant Structures
Ramachandran 6/	60/461529	09-Apr-2003	Highly Sensitive Sensors, Modulators and Tunable Attenuators With Long Period Fiber Gratings
Gruner-Nielsen 10-2/	10/426193	30-Apr-2003	Method for the Manufacture of Optical Fibers and Improved Optical Fibers
MacChesney 88-14-7-36/	10/440208	15-May-2003	Chemical Powder Deposition Method for Manufacture of Optical Fiber Preforms and Optical Fibers

Matter Number	Application Number	Filing Date	Invention Title
Chang 6-17-28/	10/620068	15-Jul-2003	Method and Apparatus For Fabricating Optical Fiber Using Deuterium Exposure
Baynham 1-10-4/	10/880,205	29-Jun-2004	Method of Improving Deposition of MOCVD Glass
Bertz 1-12-17-6/	10/947,464	22-Sep-2004	System and Method For Manufacturing Color-Coated Optical Fiber
Baumgart 4-5-37/	11/063,107	22-Feb-2005	Multimode Optical Fiber and Method For Manufacturing Same
Fletcher 4/	11/088,076	22-Mar-2005	Optical Fiber Preform With Overclad Tubes
Kalish 18-6-7-3/D1	11/091,106	28-Mar-2005	Raman Fiber Amplifier Communication Systems
Ramachandran 11-4/	11/105,850	14-Apr-2005	Optical Fiber Systems For Delivering Short High Power Pulses
Mermelstein 2-9/	11/169,998	28-Jun-2005	Suppression of Stimulated Brillouin Scattering in a Fiber Amplifier
Gibson 1-6-8/	11/170,257	29-Jun-2005	Optical Fiber and Hybrid Process for Fabricating Same
Desantolo 1-23/	60/750,966	16-Dec-2005	Aerosol Delivery for Improved Preform Fabrication
Windeler 22-10/	60/750,967	16-Dec-2005	Gain-Producing, Large-Mode-Area, Multimode, Hybrid Optical Fibers and Devices Using Same
Barish 4-4-8/	11/311,817	19-Dec-2005	Multiple Pass Axial Deposition Method for Fabrication of Optical Fibers with Complex Index Profile
Finl 2/	11/319,121	27-Dec-2005	Optical Fiber with Specialized Index Profile to Compensate for Bend-Induced Distortions
Nicholson 10/	11/362,973	27-Feb-2006	Method and apparatus for spectral broadening of a narrow linewidth laser
Ramachandran 12/	11/367,495	04-Mar-2006	Optical Fibers and Optical Fiber Devices with Total Dispersion Greater than Material Dispersion
Atkins 24-46-9-35/C1	11/444,754	31-Mar-2006	Optical Fiber Manufacture

Matter Number	Application Number	Filing Date	Invention Title
Ramachandran 24/	11/397,054	04-Apr-2006	Fiber-Optic Sensor Or Modulator Using Tuning of Long Period Gratings With Self Assembled Layers (JOINTLY OWNED WITH VIRGINA TECH)
DiGiovanni 70-21/C	11/403,354	13-Apr-2006	Manufacture of Optical Fibers Using Enhanced Doping
Nicholson 9-24/	11/417,093	03-May-2006	Stabilized Optical Fiber Continuum Frequency Combs Using Post-Processed Highly Nonlinear Fibers
DiGiovanni 74-4-11/	11/497,223	01-Aug-2006	Optical Fiber and Device Having an Elevated Threshold For Self-Focusing
Fletcher 5-3-1/	11/582,168	17-Oct-2006	Cylinder Sleeve For Processing Core Rods
Ramachandran 25/	60/863,082	26-Oct-2006	Production of Optical Pulses at a Desired Wavelength Using Soliton Self-Frequency Shift in Higher-Order-Mode Fiber (JOINTLY OWNED WITH CORNELL)
Nicholson 11/	11/589,012	27-Oct-2006	Optical Fiber Having Carbon Nanotubes and Method for Affixing the Nanotubes Thereto
Nicholson 12/	60/859,319	16-Nov-2006	Passively Modelocked Figure Eight Fiber Laser
Atkins 22-20 DIV/	11/607,385	01-Dec-2006	Soot Layer Formation for Solution Doping of Glass Preforms
Desantolo 1-23/A	11/634,002	05-Dec-2006	Aerosol Delivery for Improved Preform Fabrication
Bocanegra 10-11-25/	11/642,341	20-Dec-2006	Method for Installing an Optical Fiber Cable
Ramachandran 15/	11/643,520	21-Dec-2006	Polarization Insensitive Microbend Fiber Gratings and Devices Using the Same
Bise 3-48-48/	11/644,621	22-Dec-2006	Optical Fiber Preform With Improved Air/Glass Interface Structure
DiGiovanni 78-8/	11/698,541	26-Jan-2007	Higher brightness pumping of fiber amplifiers
Fleming 49-11-17-19-30-7-/	11/672,836	08-Feb-2007	Methods for Modifying Ovality of Optical Fiber Preforms
DiGiovanni 77-1-4-7/	11/705,229	12-Feb-2007	Optical Fiber Configuration for Dissipating Stray Light

ofs Confidential

2008/11/10

Page 3

Matter Number	Application Number	Filing Date	Invention Title
Finl 6/	60/893,048	05-Mar-2007	Large-Mode-Area Fibers
Ramachandran 20/	60/839,398	07-Mar-2007	Achieving Gaussian Outputs from Large Mode Area Higher Order Mode Fibers
Nicholson 8-23/	11/724,630	15-Mar-2007	Method Of Generating Enhanced Continuum Radiation In Bulk Materials
Nicholson 13-26/	11/728,226	23-Mar-2007	Light Sources Employing Fiber Bragg Gratings At Phase Matching Elements
Olsen 1-10/	11/733,571	10-Apr-2007	Air-Clad Optical Fiber
Hendrickson 7-7/	11/787,728	17-Apr-2007	Axial Overpackaging and Routing Apparatus for Optical Fiber Power Splitter Devices
Weimann 26/	60/927,475	03-May-2007	Crush and Bend Resistant Optical Cable
Barish 6-6-10/	11/801,365	09-May-2007	Method for making preform for low cost fibers
Graveston 1-1-27/	60/917,953	15-May-2007	Compact Indoor Optical Cable
Gruner-Nielsen 11-11/	11/803,744	16-May-2007	Systems and Methods for Creating Localized Refractive Index Modulations in an Optical Fiber
Windeler 24-15/	11/809,973	04-Jun-2007	Gain Producing Large-Mode-Area, Multimode, Hybrid Optical Fibers and Devices Using Same
Hendrickson 8-1-8/	60/945,611	22-Jun-2007	Fiber Optic Rapid Spooling Device
Hendrickson 9-1-9/	60/945,670	22-Jun-2007	Connector Cover For Pulling And Water Resistance
DiGiovanni 81-15/	60/946,796	28-Jun-2007	Thermophoretic Fractionalization of Small Particles
DiGiovanni 82-22/	11/771,155	29-Jun-2007	Large Mode Area Fibers Using Higher Order Modes
Sumetsky 7/	60/948,058	05-Jul-2007	Optimization of Optical Ring Resonator Devices For Sensing Applications

Matter Number	Application Number	Filing Date	Invention Title
Welmann 26/1	11/879,633	18-Jul-2007	Crush and Bend Resistant Optical Cable
Fini 8/	60/950,618	19-Jul-2007	Large-Mode-Area Fiber Design with Suppression of Higher Order Modes
Graveston 2-1-2/	60/952,119	26-Jul-2007	In-Line Cable Splitter Unit
Nicholson 14-21/	11/888,844	02-Aug-2007	Visible Continuum Generation Utilizing a Hybrid Optical Source
Bradley 6-4-5/1	11/836,824	10-Aug-2007	Hardened Connector for Outside Plant Applications
Hendrickson 10-28-10/	11/891,553	10-Aug-2007	Fiber Optic Cabling for Multi-Dwelling Unit (MDU) and Commercial Building Deployments
Sumetsky 8/	60/968,775	29-Aug-2007	Microfiber Photonic Device Immersed in a Liquid Material
Fini 7/	11/847,361	30-Aug-2007	Fiber Arrangement Mitigating Bend Distortion Impact in a High-Power Amplifier or Laser
Graveston 1-1-27/1	11/903,779	25-Sep-2007	Compact Indoor Optical Cable
Sumetsky 9/		25-Sep-2007	Locally Deformed and Perturbed Optical Fibers for Mode Conversion and Amplification of Light
DiGiovanni 81-15/1		08-Oct-2007	Thermophoretic Fractionalization of Small Particles
Sumetsky 8/1	11/871,547	12-Oct-2007	Microfiber Photonic Device Immersed in a Liquid Material
MacChesney 89-15-8-39/		22-Oct-2007	Chemical Powder Deposition Method For Manufacture of Optical Fiber Preforms and Optical Fibers (Continuation of MacChesney 88)
Ramachandran 25/1	11/977,918	26-Oct-2007	Production of Optical Pulses at a Desired Wavelength Using Soliton Self-Frequency Shift in Higher-Order-Mode Fiber (JOINTLY OWNED WITH CORNELL)
Graveston 3-3-30/	60/983,306	29-Oct-2007	Indoor Outdoor Terminal Cable
Gruner-Nielsen 12-3/	11/980,123	30-Oct-2007	Method for the Manufacture of Optical Fibers and Improved Optical Fibers

Matter Number	Application Number	Filing Date	Invention Title
DiGiovanni 76-3/	11/982,694	01-Nov-2007	Large Mode Area Fiber With Reduced SBS
Hendrickson 8-1-8/1	11/983,171	07-Nov-2007	Fiber Optic Rapid Spooling Device
Nicholson 12/1	11/985,442	14-Nov-2007	Passively Modelocked Figure Eight Fiber Laser
Fleming 50-49/	630072	10-Dec-2007	Method of depositing a vitreous layer on the inside of a ceramic tube using a low-pressure isothermal plasma.
Ramachandran 34-10-29/	61/013,516	13-Dec-2007	Multiple Mode Conversion and Beam Shaping with Superimposed Long-Period Gratings
Bubel 1-19-1-1-27/	61/021,769	17-Jan-2008	Tunable Dispersion Compensator With Minimum Differential Group Delay
Bradley 7-29/1	519395	18-Jan-2008	Alt-Dielectric Self-Supporting Optical Drop Cable
Graveston 3-3-30/1	399231	22-Jan-2008	Indoor Outdoor Terminal Cable
Kristensen 4-16-26-17/	61/022,626	22-Jan-2008	Method for Measuring Modal Content of Few Moded Fibers
Ramachandran 29/	61/028,043	12-Feb-2008	Generation and uses of Cylindrical Vector Beams in Optical Fibers
Fini 9-5/1	61/030,713	22-Feb-2008	Solid Ring-Assisted Fibers with Low Bend Loss
DiGiovanni 89-10-1-8-1-1/	12/072,433	26-Feb-2008	Optical Fiber Passivation Process
Andersen 2/	12/038,699	27-Feb-2008	Optical Fiber Spool
Fini 6/1	12/072,574	27-Feb-2008	Large-Mode-Area Fibers
Fini 9-5/	12/072,869	28-Feb-2008	Solid Ring-Assisted Fibers with Low Bend Loss
Li 2/	61/032,206	28-Feb-2008	Method For Improving The Performance Of A Dispersion Compensating Grating After UV-Writing

Matter Number	Application Number	Filing Date	Invention Title
Ramachandran 20/1	12/043,345	06-Mar-2008	Achieving Gaussian Outputs from Large Mode Area Higher Order Mode Fibers
Sumetsky 11/		02-Apr-2008	Asymmetrically Perturbed Optical Fibers For Mode Transformers
Ramachandran 33/	61/043,825	10-Apr-2008	Generation and Uses of Bessel Beams in Optical Fibers
Nicholson 19-30/	12/105,652	18-Apr-2008	Apparatus For Side Fire Fiber Lasers
Barish 5-8-9-9/1		23-Apr-2008	Zero water peak, single mode fibers with improved bending performance
Nicholson 17-19/	12/150,692	30-Apr-2008	All Fiber Module for Femtosecond Pulse Compression and Supercontinuum Generation
Sumetsky 12/	61/049,878	02-May-2008	Larger Size Probe for Near-Field Microscopy
Sumetsky 7/1	12/154,353	22-May-2008	Optimization of Optical Ring Resonator Devices For Sensing Applications
Boret 1-91-11-6/	61/056,461	28-May-2008	Low Bend Loss Fiber With Improved Fabrication and Tight-Bend Performance
Konstadinidis 9-4-14-31/	61/056,468	28-May-2008	In-Home Wiring Flame Retardant Drop Cable With Stiff Tight Buffer
Hendrickson 11-11/	12/156,297	30-May-2008	Fiber Distribution Box
Peckham 10/		30-May-2008	Negative Dispersion Fiber and Optical Transmission System Including The Same
Ramachandran 34-10-29/1		09-Jun-2008	Multiple Mode Conversion and Beam Shaping with Superimposed Long-Period Gratings
Kristensen 4-16-26-17/1		20-Jun-2008	Method for Measuring Modal Content of Few Moded Fibers
Ramachandran 35/		20-Jun-2008	
Hendrickson 9-1-9/1	12/144,259	23-Jun-2008	Connector Cover For Pulling And Water Resistance

ofis Confidential

2008/11/10

Page 7

Matter Number	Application Number	Filing Date	Invention Title
Finl 8/1	12/215,313	26-Jun-2008	Large-Mode-Area Fiber Design with Suppression of Higher Order Modes
Ramachandran 36/	12/147,806	27-Jun-2008	Optical Fibers and Optical Fiber Devices with Total Dispersion Greater than Material Dispersion
Ramachandran 37/	12/147,904	27-Jun-2008	Optical Fibers and Optical Fiber Devices with Total Dispersion Greater than Material Dispersion
Finl 10/	12/217,215	02-Jul-2008	Polarization Dependent Hollow-Core Optical Fibers
Gruner-Nielsen 13/	61/078,589	07-Jul-2008	Stretchier Fiber and Module
Burek 23-1-6/	12/218,546	16-Jul-2008	Slack Fiber Storage Cabinet
Bradley 8-4-4-32/		21-Aug-2008	Indoor Outdoor Terminal Cable
DiGiovanni 92-11-2-9-2/		05-Sep-2008	Accelerated Aging of Phosphorus-Doped Optical Fibers
Nicholson 21/	12/231,803	05-Sep-2008	Figure Eight Laser For Ultrashort Pulse Generation
DiGiovanni 77-1-4-7/1		08-Sep-2008	Optical Fiber Configuration for Dissipating Stray Light
DiGiovanni 77-1-4-7/2		08-Sep-2008	Optical Fiber Configuration for Dissipating Stray Light
Kim 8-10-3-41/	61/097,639	17-Sep-2008	Bend Insensitive Bandwidth Maintaining Multimode Optical Fiber
Nicholson 22/	61/099,978	25-Sep-2008	High Repetition Frequency, Passively Modelocked Fiber Ring Lasers Using Carbon Nanotubes
Bardoff 1/1/1/5/1/33	61/100,538	26-Sep-2008	Optical Fiber With Water Blocking
DiGiovanni 47-2-24/	0		Optical Fiber Manufacture
Reed 16/	0		Communication Cable Incorporating Fiberglass Strength Members

ofs Confidential

2008/11/10

Page 8