

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3003689

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
OCLARO TECHNOLOGY LIMITED	11/01/2013
OCLARO, INC.	11/01/2013
OCLARO (NORTH AMERICA), INC.	11/01/2013
OCLARO TECHNOLOGY, INC.	11/01/2013
RECEIVING PARTY DATA	
Name:	II-VI INCORPORATED
Street Address:	375 SAXONBURG BLVD.
City:	SAXONBURG
State/Country:	PENNSYLVANIA
Postal Code:	16056
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13733351
CORRESPONDENCE DATA	
Fax Number:	(412)945-5933
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	4124718815
Email:	assignments@webblaw.com
Correspondent Name:	THE WEBB LAW FIRM PC
Address Line 1:	ONE GATEWAY CENTER, 420 FT. DUQUESNE BLV
Address Line 2:	SUITE 1200
Address Line 4:	PITTSBURGH, PENNSYLVANIA 15222
ATTORNEY DOCKET NUMBER:	7271-140293
NAME OF SUBMITTER:	WILLIAM H. LOGSDON
SIGNATURE:	/William H. Logsdon/
DATE SIGNED:	08/29/2014
Total Attachments: 49	
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EXECUTION VERSION

INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

THIS INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT (this "Agreement") is entered into as of November 1, 2013 by and among **Oclaro Technology Limited**, Company Number 2298887, a United Kingdom Private Company whose registered address is at Caswell Towcester, Northamptonshire, England NN12 8EQa, **Oclaro, Inc.**, a Delaware Corporation, having a place of business at 2560 Junction Avenue, San Jose, CA 95134, **Oclaro (North America), Inc.**, a Delaware Corporation, having a place of business at 2560 Junction Avenue, San Jose, CA 95134 and **Oclaro Technology, Inc.**, a Delaware Corporation, having a place of business at 2560 Junction Avenue, San Jose, CA 95134 (collectively or individually "Assignor"), whereby Assignor has sold, assigned, and transferred and does hereby sell, assign, and transfer to **II-VI Incorporated**, a Pennsylvania corporation, having a place of business at 375 Saxonburg Boulevard, Saxonburg, Pennsylvania 16056 ("Assignee").

AGREEMENT

1. Assignment. For good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, and transferred and do hereby sell, assign, and transfer to Assignee, for itself and its successors, transferees, and assignees, the following:

(a) full and exclusive right, title and interest in and to the issued patents and patent applications set out in Exhibit A (and any counterpart patents and patent applications, whether or not set forth in Exhibit A), including without limitation, the inventions and improvements disclosed in such issued patents and patent applications, any letters patent which may issue from such patent applications and all divisionals, reissues, continuations, continuations-in-part, renewals and/or extensions of such patent applications and counterpart patent applications throughout the world; and

(b) the trademarks set out in Exhibit B (together with the goodwill of the business symbolized by such trademarks).

2. Governing Law. This Agreement shall be governed by and construed accordance with the laws of England and Wales, without giving effect to any choice or conflict of law provision or rule.

3. Successor and Assigns. This Agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.

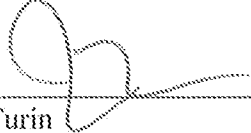
4. Further Assurances. Each of the parties hereto shall execute and deliver, at the reasonable request of the other party hereto, such additional documents, instruments, conveyances and assurances and take such further actions as such other party may reasonably request to carry out the provisions hereof and give effect to the transactions contemplated by this Agreement.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the undersigned has caused this Intellectual Property Assignment Agreement to be executed by its duly authorized officer as of the date first above written.


Duly Authorized Representative of Assignors

Date of Signature

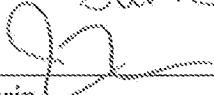


November 1, 2013

Jerry Turin
Director and Secretary
Oclaro Technology Limited
(Formerly known as Oclaro Technology PLC)
(Formerly known as Bookham Technology PLC)

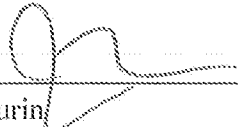
Witnessed by: 
Name: Brenda Scott
Title: Exec. Legal Assistant
Address: 2560 Junction Ave.
San Jose, CA 95134

November 1, 2013



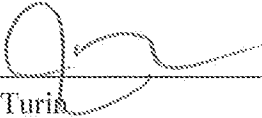
November 1, 2013

Jerry Turin
Chief Financial Officer
Oclaro, Inc.
(Formerly known as Bookham, Inc.)



November 1, 2013

Jerry Turin
CEO, CFO and Secretary
Oclaro (North America), Inc.
(Formerly known as Avanex Corporation)



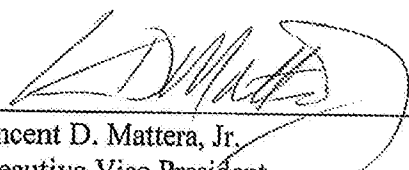
November 1, 2013

Jerry Turin
Treasurer and Secretary
Oclaro Technology, Inc.
(Formerly known as Bookham Technology Inc.)

[Signature Page to Intellectual Property Assignment Agreement]

Duly Authorized Representative of Assignee

Date of Signature



Vincent D. Mattera, Jr.
Executive Vice President
II-VI Incorporated

10/29/2013

[Signature Page to Intellectual Property Assignment Agreement]

EXHIBIT A

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB-MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 00402/CNT	EDFA pump distribution algorithm	Utility	Utility - NSPCT	Issued	CN	Apr 28, 2010	Feb 26, 2003	Aug 22, 2005	Feb 25, 2024	200480004796.2	ZL200480004796.2	Amps Transfer 2013.08.29
OCLR 00402/JPT	EDFA pump distribution algorithm	Utility	Utility - NSPCT	Issued	JP	Aug 27, 2010	Feb 26, 2003	Feb 25, 2004	Feb 25, 2024	2006-502328	4572421	Amps Transfer 2013.08.29
OCLR 00402/US	EDFA pump distribution algorithm	Utility	Utility - ORG	Issued	US	Jul 18, 2006	Feb 26, 2003	Feb 25, 2004	Aug 21, 2024	10788,006	7,079,312	Amps Transfer 2013.08.29
OCLR 00409/US	Packaging atmosphere and method of packaging a MEMs device	Utility	Utility - ORG	Issued	US	Nov 19, 2002	Sep 29, 2000	Sep 29, 2000	Nov 9, 2020	097676,256	6,481,570	
OCLR 00411/US	Split-beam Fourier filter	Utility	Utility - ORG	Issued	US	Jul 27, 1999	Aug 30, 1995	Aug 30, 1995	Aug 30, 2015	08793,729	5,930,441	Amps Transfer 2013.08.29
OCLR 00421/US	Optical amplifiers	Utility	Utility - ORG	Issued	US	Jul 30, 1996	Sep 9, 1993	Sep 9, 1994	Sep 9, 2014	087303,367	5,542,011	Amps Transfer 2013.08.29
OCLR 00436/US	Optical fiber device	Utility	Utility - ORG	Issued	US	Apr 29, 2003	Sep 1, 2000	Sep 1, 2000	Sep 1, 2020	097653,985	6,556,343	Amps Transfer 2013.08.29
OCLR 00469/US	Micro-mirrors with variable focal length and optical components comprising etc	Utility	Utility - ORG	Issued	US	Feb 4, 2003	Mar 18, 2002	Mar 18, 2002	Mar 18, 2022	107098,446	6,513,939	
OCLR 00640/US	Optically coupled etalons and methods of making and using same	Utility	Utility - ORG	Issued	US	Jan 13, 2004	Mar 15, 2001	Mar 12, 2002	Mar 12, 2022	107096,478	6,678,093	Amps License 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 00643/US	Optical devices and methods	Utility	Utility - ORG	Issued	US	Jul 11, 2006	Apr 18, 2002	Apr 18, 2003	Apr 18, 2023	10/418,427	7,076,132	Amps Transfer 2013.08.29
OCLR 00691/CNT	Integrated printed circuit board heater	Utility	Utility - NSPCT	Issued	CN	Aug 13, 2008	Feb 10, 2004	Feb 9, 2005	Feb 9, 2025	200580004390.9	ZL200580004390.9	Amps Transfer 2013.08.29
OCLR 00691/GBT	Integrated printed circuit board heater	Utility	Utility - NSPCT	Issued	GB	Sep 12, 2007	Feb 10, 2004	Feb 9, 2005	Feb 9, 2025	0610748.6	2424119	Amps Transfer 2013.08.29
OCLR 00691/US	Integrated printed circuit board heater	Utility	Utility - ORG	Issued	US	Dec 11, 2007	Feb 10, 2004	Feb 9, 2005	May 13, 2024	11/053,985	7,308,182	Amps Transfer 2013.08.29
OCLR 00692/US	ASE compensation of multi-stage EDFAs	Utility	Utility - ORG	Issued	US	Nov 21, 2006	Jun 10, 2004	Jun 7, 2005	Jun 7, 2025	11/146,709	7,139,118	Amps Transfer 2013.08.29
OCLR 00768/US	Optical amplifier with variable optical attenuation for use in fiber-optic comm	Utility	Utility - ORG	Issued	US	Apr 23, 2002	Sep 26, 2000	Nov 6, 2000	Nov 6, 2020	09/705,760	6,377,396	Amps Transfer 2013.08.29
OCLR 00772/US	Optical amplifier system with transient control	Utility	Utility - ORG	Issued	US	Apr 1, 2003	Dec 12, 2000	Mar 26, 2001	Mar 26, 2021	09/816,131	6,542,287	Amps Transfer 2013.08.29
OCLR 00773/US	Optical amplifier system with transient control	Utility	Utility - ORG	Issued	US	Jul 2, 2002	Oct 2, 2000	Nov 15, 2000	Nov 15, 2020	09/711,923	6,414,788	Amps Transfer 2013.08.29
OCLR 00774/US	Optical amplifiers and methods for manufacturing optical amplifiers	Utility	Utility - ORG	Issued	US	Jul 23, 2002	Oct 6, 2000	Dec 5, 2000	Dec 5, 2020	09/729,085	6,424,457	Amps Transfer 2013.08.29

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OCLR 00776/US	Optical equipment and methods for manufacturing optical equipment	Utility	Utility - ORG	Issued	US	Jan 7, 2003	Oct 23, 2000	Jan 11, 2001	Jan 11, 2021	09757,702	6,504,989	Amps Transfer 2013.08.29
OCLR 00780/US	Optical amplifier control system	Utility	Utility - ORG	Issued	US	Jul 9, 2002	Feb 16, 2001	Feb 16, 2001	Feb 16, 2021	09784,086	6,417,965	Amps Transfer 2013.08.29
OCLR 00784/US	Wide-band optical amplifiers with interleaved gain stages	Utility	Utility - ORG	Issued	US	May 28, 2002	Dec 19, 2000	Jan 31, 2001	Jan 31, 2021	09772,847	6,396,623	Amps Transfer 2013.08.29
OCLR 00787/US	Booster amplifier with spectral control for optical communications systems	Utility	Utility - ORG	Issued	US	Oct 14, 2003	Feb 15, 2001	Apr 10, 2001	Apr 10, 2021	097828,840	6,633,430	Amps Transfer 2013.08.29
OCLR 00789/US	Drive circuits for microelectromechanical systems devices	Utility	Utility - ORG	Issued	US	Aug 20, 2002	Mar 2, 2001	Mar 22, 2001	Mar 22, 2021	097814,063	6,438,010	
OCLR 00790/US	Optical amplifiers and upgrade modules	Utility	Utility - ORG	Issued	US	Apr 29, 2003	Apr 6, 2001	May 9, 2001	May 9, 2021	097851,379	6,556,340	Amps Transfer 2013.08.29
OCLR 00792/US	Optical amplifier systems with transient control	Utility	Utility - ORG	Issued	US	Nov 5, 2002	Apr 26, 2001	Jun 12, 2001	Jun 12, 2021	097878,224	6,476,961	Amps Transfer 2013.08.29
OCLR 00797/US	Optical network equipment with control and data paths	Utility	Utility - ORG	Issued	US	Apr 29, 2003	Jun 21, 2001	Jul 31, 2001	Jul 31, 2021	097917,664	6,556,345	Amps Transfer 2013.08.29
OCLR 00798/US	Depolarizers for optical channel monitors	Utility	Utility - ORG	Issued	US	Apr 8, 2003	Jun 5, 2001	Aug 6, 2001	Aug 6, 2021	097922,004	6,545,800	Amps Transfer 2013.08.29

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OCLR 00799/US	Optical amplifier spectral tilt controllers	Utility	Utility - ORG	Issued	US	Nov 19, 2002	Jun 5, 2001	Jul 9, 2001	Jul 9, 2021	09/900,137	6,483,631	Amps Transfer 2013.08.29
OCLR 00804/US	Optical amplifier with age-based pump current limiters	Utility	Utility - ORG	Issued	US	Jun 24, 2003	Aug 21, 2001	Nov 27, 2001	Nov 27, 2021	09/993,946	6,583,926	Amps Transfer 2013.08.29
OCLR 00805/US	Double-pass optical amplifiers and optical network equipment	Utility	Utility - ORG	Issued	US	Jun 10, 2003	Sep 26, 2001	Dec 13, 2001	Dec 13, 2021	10/013,364	6,577,789	Amps Transfer 2013.08.29
OCLR 00820/GB	Adaptive gain tilt control in optical amplification	Utility	Utility - ORG	Issued	GB	Jan 4, 2006	Nov 25, 2004	Nov 25, 2004	Nov 25, 2024	0425907.3	2411044	Amps Transfer 2013.08.29
OCLR 00820/US	Adaptive gain tilt control in optical amplification	Utility	Utility - ORG	Issued	US	May 29, 2007	Nov 25, 2004	Jun 1, 2005	Jun 1, 2025	11/142,549	7,224,515	Amps Transfer 2013.08.29
OCLR 00861/CNT	Three and four port GFF	Utility	Utility - NSPCT	Issued	CN	Feb 8, 2012	Oct 6, 2005	Apr 25, 2008	Sep 28, 2026	200680037000.2	ZL200680037000.2	Amps Transfer 2013.08.29
OCLR 00861/EPT	Three and four port GFF	Utility	Utility - NSPCT	Pending	EP		Oct 6, 2005	Sep 28, 2006		06779649.0		Amps Transfer 2013.08.29
OCLR 00861/JPT	Three and four port GFF	Utility	Utility - NSPCT	Pending	JP		Oct 6, 2005	Sep 28, 2006		2008-534085		Amps Transfer 2013.08.29
OCLR 00861/US	Three and four port GFF	Utility	Utility - ORG	Issued	US	Nov 13, 2007	Oct 6, 2005	Oct 12, 2005	Oct 12, 2025	11/248,826	7,295,365	Amps Transfer 2013.08.29

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OCLR 00879/CNT	Variable gain optical amplifiers	Utility	Utility - NSPCT	Issued	CN	Jul 6, 2011	May 12, 2006	May 11, 2007	May 11, 2027	200780017170.9	101479896B	Amps Transfer 2013.08.29
OCLR 00879/DEZ	Adaptive feedback gain control with pre-emptive feed forward	Utility	Utility - EPPAT	Issued	DE	Oct 21, 2009	May 12, 2006	May 11, 2007	May 11, 2027	07733678.2	602007002896.5	Amps Transfer 2013.08.29
OCLR 00879/FRZ	Adaptive feedback gain control with pre-emptive feed forward	Utility	Utility - EPPAT	Issued	FR	Oct 21, 2009	May 12, 2006	May 11, 2007	May 11, 2027	07733678.2	2018689	Amps Transfer 2013.08.29
OCLR 00879/GBZ	Adaptive feedback gain control with pre-emptive feed forward	Utility	Utility - EPPAT	Issued	GB	Oct 21, 2009	May 12, 2006	May 11, 2007	May 11, 2027	07733678.2	2018689	Amps Transfer 2013.08.29
OCLR 00879/JPT	Adaptive feedback gain control with pre-emptive feed forward	Utility	Utility - NSPCT	Issued	JP	Aug 3, 2012	May 12, 2006	May 11, 2007	May 11, 2027	2009-508508	5054099	Amps Transfer 2013.08.29
OCLR 00879/US	Adaptive feedback gain control with pre-emptive feed forward	Utility	Utility - ORG	Issued	US	Jan 8, 2008	May 12, 2006	May 12, 2006	May 12, 2026	11/584,974	7,317,570	Amps Transfer 2013.08.29
OCLR 00883/US	Optical channel monitor using rotating variable filter	Utility	Utility - ORG	Issued	US	Nov 2, 2010	Mar 9, 2006	Mar 9, 2007	Mar 19, 2028	11/716,238	7,826,055	Amps Transfer 2013.08.29
OCLR 00892/US	Dual optical amplifier control	Utility	Utility - ORG	Issued	US	Nov 30, 2010	Jan 8, 2007	Jan 7, 2008	Oct 18, 2028	11/970,181	7,843,630	Amps Transfer 2013.08.29
OCLR 00941/EPT	Switched filter device and amplifier using the same	Utility	Utility - NSPCT	Pending	EP		Sep 15, 2009	Sep 8, 2010		10817539.9		Amps Transfer 2013.08.29

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OCLR 00941/US	Optical amplifiers using switched filter devices	Utility	Utility - ORG	Issued	US	Oct 23, 2012	Sep 15, 2009	Sep 15, 2009	Sep 15, 2029	12/584,919	8,294,981	Amps Transfer 2013.08.29
OCLR 00944/US	Optical delay line interferometers with silicon dual mirror for DPSK	Utility	Utility - ORG	Issued	US	Jan 22, 2013	Sep 14, 2009	Sep 14, 2009	Sep 14, 2029	12/584,886	8,358,466	
OCLR 00990/CN	ASE Compensation in single channel controlled amplifiers	Utility	Utility - NSPCT	Pending	CN		Mar 22, 2010	Mar 21, 2011				Amps Transfer 2013.08.29
OCLR 00990/EP	ASE Compensation in optical amplifiers	Utility	Utility - NSPCT	Pending	EP		Mar 22, 2010	Sep 26, 2012		11710249.1		Amps Transfer 2013.08.29
OCLR 00990/JP	ASE Compensation in single channel controlled amplifiers	Utility	Utility - NSPCT	Pending	JP		Mar 22, 2010	Mar 21, 2011		2013-500583		Amps Transfer 2013.08.29
OCLR 00990/US	ASE Compensation in single channel controlled amplifiers	Utility	Utility - NSPCT	Pending	US		Mar 22, 2010	Mar 21, 2011		13/636,439		Amps Transfer 2013.08.29
OCLR 00990/WO	ASE Compensation in single channel controlled amplifiers	Utility	Utility - ORG	Pending	WO		Mar 22, 2010	Mar 21, 2011		GB2011/050553		Amps Transfer 2013.08.29
OCLR 00991/US/P1	Erlon with temperature-compensation and fine-tuning adjustment	Utility	Utility - ORG	Issued	US	Aug 6, 2013	May 10, 2010	May 10, 2010		12/777,169	8,503,058	
OCLR 00994/CN	Tunable optical filters with multiple ports	Utility	Utility - NSPCT	Pending	CN		Jul 26, 2010	Jul 26, 2011		201110210059.X		Amps Transfer 2013.08.29
OCLR 00994/US	Tunable optical filters with multiple ports	Utility	Utility - ORG	Pending	US		Jul 26, 2010	Jul 26, 2010		12/804,627		Amps Transfer 2013.08.29

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OCLR 00994U/CN	Tunable filters with multiple ports	Model	Model - ORG	Issued	CN	Jul 18, 2012	Jul 26, 2010	Jul 26, 2011	Jul 26, 2021	201120265794.6	201120265794.6	Amps Transfer 2013.08.29
OCLR 00996/CNT	Tunable dispersion compensator configured for continuous setpoint control	Utility	Utility - NSPCT	Pending	CN		Apr 9, 2010	Apr 8, 2011		201180001051.0		Amps Transfer 2013.08.29
OCLR 00996/US	Tunable dispersion compensator configured for continuous setpoint control	Utility	Utility - ORG	Issued	US	Dec 4, 2012	Apr 9, 2010	Apr 9, 2010	Apr 9, 2030	12/757,712	8,326,153	Amps Transfer 2013.08.29
OCLR 01003/US	Optical fiber equipment with a Bragg grating tunable by a piezoelectric actuator	Utility	Utility - ORG	Issued	US	Jul 13, 2004	Jul 24, 2001	Jul 12, 2002	Jul 12, 2022	10/193,311	6,763,152	Amps Transfer 2013.08.29
OCLR 01005/US	Fibre grating optical waveguide device	Utility	Utility - ORG	Issued	US	Jul 20, 2004	Jan 8, 2001	Jan 2, 2002	Mar 9, 2022	10/032,538	6,766,079	Amps Transfer 2013.08.29
OCLR 01007/US	Bragg grating filter optical waveguide device	Utility	Utility - ORG	Issued	US	Jun 29, 2004	Apr 9, 2001	Apr 9, 2002	Apr 25, 2022	10/115,253	6,757,462	Amps Transfer 2013.08.29
OCLR 01014/US	Optical fiber amplifier device and communications system using the optical fiber amplifier device	Utility	Utility - ORG	Issued	US	Feb 3, 2004	Apr 23, 2001	Jul 12, 2002	Jul 12, 2022	10/193,310	6,687,046	Amps Transfer 2013.08.29
OCLR 01016/US	Inverse Fourier transform method, phase characterization method of optical/incomp	Utility	Utility - ORG	Issued	US	Apr 3, 2007	Apr 30, 2002	Apr 29, 2003	Oct 7, 2024	10/424,758	7,200,630	
OCLR 01017/US	Fiber grating optical waveguide device	Utility	Utility - ORG	Issued	US	Jul 6, 2004	Jan 8, 2001	Jan 7, 2002	Jan 29, 2022	10/036,448	6,760,518	Amps Transfer 2013.08.29

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OCLR 01019/DEE	Slanted Bragg grating optical fiber process for manufacturing such fiber	Utility	Utility - EPPAT	Issued	DE	Nov 16, 2005	Aug 16, 2001	Aug 16, 2001	Aug 16, 2021	1440264.8	60115027.9	Amps Transfer 2013.08.29
OCLR 01019/FRE	Slanted Bragg grating optical fiber process for manufacturing such fiber	Utility	Utility - EPPAT	Issued	FR	Nov 16, 2005	Aug 16, 2001	Aug 16, 2001	Aug 16, 2021	1440264.8	1288683	Amps Transfer 2013.08.29
OCLR 01019/GBE	Slanted Bragg grating optical fiber process for manufacturing such fiber	Utility	Utility - EPPAT	Issued	GB	Nov 16, 2005	Aug 16, 2001	Aug 16, 2001	Aug 16, 2021	1440264.8	1288683	Amps Transfer 2013.08.29
OCLR 01019/ITE	Slanted Bragg grating optical fiber process for manufacturing such fiber	Utility	Utility - EPPAT	Issued	IT	Nov 16, 2005	Aug 16, 2001	Aug 16, 2001	Aug 16, 2021	1440264.8	1288683	Amps Transfer 2013.08.29
OCLR 01019/US	Slanted Bragg grating optical fiber process for manufacturing such a fiber	Utility	Utility - ORG	Issued	US	Jul 5, 2005	Aug 16, 2001	Aug 14, 2002	Feb 13, 2023	10/217,426	6,915,042	Amps Transfer 2013.08.29
OCLR 01022/DEE	Optical waveguide and method for creating an asymmetrical optical filter device	Utility	Utility - EPPAT	Issued	DE	Dec 8, 2004	Jun 11, 2001	Jun 11, 2001	Jun 11, 2021	001440164.0	60107666.4	Amps Transfer 2013.08.29
OCLR 01022/FRE	Optical waveguide and method for creating an asymmetrical optical filter device	Utility	Utility - EPPAT	Issued	FR	Dec 8, 2004	Jun 11, 2001	Jun 11, 2001	Jun 11, 2021	001440164.0	1267184	Amps Transfer 2013.08.29
OCLR 01022/ITE	Optical waveguide and method for creating an asymmetrical optical filter device	Utility	Utility - EPPAT	Issued	IT	Dec 8, 2004	Jun 11, 2001	Jun 11, 2001	Jun 11, 2021	001440164.0	1267184	Amps Transfer 2013.08.29
OCLR 01022/US	Optical waveguide and method for creating an asymmetrical optical filter device	Utility	Utility - ORG	Issued	US	Apr 25, 2006	Jun 11, 2001	May 8, 2002	Mar 3, 2023	10/140,201	7,055,515	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01025/US	Optical fibre amplifier with UV light absorption	Utility	Utility - ORG	Issued	US	Dec 24, 2002	Jan 31, 2000	Dec 12, 2000	Dec 12, 2020	09742,112	6,498,678	Amps Transfer 2013.08.29
OCLR 01039/US	Microoptical module with a wdm filter and an optical isolator for fiber-optic/ia	Utility	Utility - ORG	Issued	US	Jun 27, 2000	Jun 18, 1997	Jun 18, 1998	Jun 18, 2018	097099,094	6,081,635	Amps Transfer 2013.08.29
OCLR 01049/US	Fiber-optic amplifier with a facility for monitoring the pump power and input p	Utility	Utility - ORG	Issued	US	Aug 15, 1995	Jul 1, 1993	Jun 24, 1994	Jun 24, 2014	08264,961	5,442,479	Amps Transfer 2013.08.29
OCLR 01056/US	Optical amplifier	Utility	Utility - ORG	Issued	US	Mar 10, 1998	May 17, 1995	May 14, 1996	May 14, 2016	08645,775	5,726,796	Amps Transfer 2013.08.29
OCLR 01058/US	Optical fibre amplifier and transmission system with optical fibre-amplifier	Utility	Utility - ORG	Issued	US	Nov 21, 2000	Dec 11, 1998	Dec 2, 1999	Dec 2, 2019	09452,838	6,151,156	Amps Transfer 2013.08.29
OCLR 01089/EP	Reducing insertion losses of a written in grating with mode coupling in the clad	Utility	Utility - ORG	Pending	EP		Mar 3, 2000	Mar 1, 2001		01400538.3		Amps Transfer 2013.08.29
OCLR 01089/FR	Reducing insertion losses of a written in grating with mode coupling in the clad	Utility	Utility - ORG	Issued	FR	Sep 7, 2001	Mar 3, 2000	Mar 3, 2000	Mar 3, 2020	0002751	2805898	Amps Transfer 2013.08.29
OCLR 01089/US	Reducing insertion losses of a written in grating with mode coupling in the clad	Utility	Utility - ORG	Issued	US	Apr 4, 2006	Mar 3, 2000	Mar 1, 2001	Jul 6, 2021	107220,065	7,024,075	Amps Transfer 2013.08.29
OCLR 01093/DE	Apodised complex filter	Utility	Utility - EPPAT	Issued	DE	Jun 13, 2007	Apr 29, 2002	Apr 8, 2003	Apr 8, 2023	3290868.3	60314324.5	Amps Transfer 2013.08.29

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OCLR 01093/FR	Apodised complex filter	Utility	Utility - EPPAT	Issued	FR	Jun 13, 2007	Apr 29, 2002	Apr 8, 2003	Apr 8, 2023	3290868.3	1359442	Amps Transfer 2013.08.29
OCLR 01093/GB	Apodised complex filter	Utility	Utility - EPPAT	Issued	GB	Jun 13, 2007	Apr 29, 2002	Apr 8, 2003	Apr 8, 2023	3290868.3	1359442	Amps Transfer 2013.08.29
OCLR 01093/IT	Apodised complex filter	Utility	Utility - EPPAT	Issued	IT	Jun 13, 2007	Apr 29, 2002	Apr 8, 2003	Apr 8, 2023	3290868.3	1359442	Amps Transfer 2013.08.29
OCLR 01093/US	Apodised complex filter	Utility	Utility - ORG	Issued	US	Oct 11, 2005	Apr 29, 2002	Apr 28, 2003	Apr 28, 2023	10/423,980	6,954,567	Amps Transfer 2013.08.29
OCLR 01098/US	Device for comparing wavelength values and multiplexing and a system for monitor	Utility	Utility - ORG	Issued	US	Feb 10, 2004	Dec 28, 1999	Dec 28, 2000	Nov 2, 2021	09/748,024	6,690,859	
OCLR 01105/FR	Dynamic gain equalising filter	Utility	Utility - ORG	Issued	FR	Jul 9, 2004	Apr 15, 2002	Apr 15, 2002	Apr 15, 2022	0204677	2838525	Amps Transfer 2013.08.29
OCLR 01105/US	Dynamic gain equalising filter	Utility	Utility - ORG	Issued	US	Mar 29, 2005	Apr 15, 2002	Apr 14, 2003	Aug 21, 2023	10/412,301	6,873,765	Amps Transfer 2013.08.29
OCLR 01110/US	Tunable filter consisting of an optical fiber, and a corresponding method	Utility	Utility - ORG	Issued	US	Aug 1, 2006	Sep 27, 2001	Sep 26, 2002	Jul 20, 2023	10/254,656	7,085,439	Amps Transfer 2013.08.29
OCLR 01114/US	Method of modifying the longitudinal distribution of the pitch of a diffraction	Utility	Utility - ORG	Issued	US	Mar 18, 1997	Aug 4, 1994	Aug 2, 1995	Aug 2, 2015	08/510,269	5,613,023	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01118/US	Optical fiber amplifier with two directional pumping	Utility	Utility - ORG	Issued	US	Jun 17, 1997	Feb 28, 1995	Feb 23, 1996	Feb 23, 2016	08/606,298	5,640,268	Amps Transfer 2013.08.29
OCLR 01122/US	Method and apparatus for preparing laser faces	Utility	Utility - ORG	Issued	US	Jul 14, 1998	Dec 22, 1995	Dec 18, 1996	Dec 18, 2016	08/769,137	5,780,120	
OCLR 01123/US	Filter obtained by writing a Bragg grating into an optical fiber	Utility	Utility - ORG	Issued	US	Oct 6, 1998	Mar 1, 1996	Feb 28, 1997	Feb 28, 2017	08/808,862	5,818,987	Amps Transfer 2013.08.29
OCLR 01131/US	Band-pass filter in an optical waveguide	Utility	Utility - ORG	Issued	US	Mar 23, 1999	Sep 2, 1996	Aug 29, 1997	Aug 29, 2017	08/921,323	5,887,094	Amps Transfer 2013.08.29
OCLR 01150/US	Fiber Bragg grating optical filter with a constant group-delay response in its wo	Utility	Utility - ORG	Issued	US	Apr 30, 2002	Jul 8, 1999	Jun 15, 2000	Jun 15, 2020	09/594,846	6,381,069	Amps Transfer 2013.08.29
OCLR 01151/US	Photosensitive optical fiber for a bragg grating filter, a method of fabricating	Utility	Utility - ORG	Issued	US	Jun 4, 2002	Jan 25, 1999	Jan 24, 2000	Jan 24, 2020	09/490,672	6,400,868	Amps Transfer 2013.08.29
OCLR 01154/FR	Filtering optical fiber having a modified photosensitivity profile	Utility	Utility - ORG	Issued	FR	Jun 27, 2003	Jun 2, 1998	Jun 2, 1998	Jun 2, 2018	19980006905	2779238	Amps Transfer 2013.08.29
OCLR 01154/US	Filtering optical fiber having a modified photosensitivity profile	Utility	Utility - ORG	Issued	US	Nov 6, 2001	Jun 2, 1998	Jun 1, 1999	Jun 1, 2019	09/323,136	6,314,221	Amps Transfer 2013.08.29
OCLR 01155/DEE	Short filtering optical fibre	Utility	Utility - EPPAT	Issued	DE	Oct 18, 2006	Jun 2, 1998	May 12, 1999	May 12, 2019	99401171.6	69933611.2	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01155/FR	Optical fiber including a short filler	Utility	Utility - ORG	Issued	FR	Jun 27, 2003	Jun 2, 1998	Jun 2, 1998	Jun 2, 2018	9806906	2779239	Amps Transfer 2013.08.29
OCLR 01155/GBE	Short filtering optical fibre	Utility	Utility - EPPAT	Issued	GB	Oct 18, 2006	Jun 2, 1998	May 12, 1999	May 12, 2019	99401171.6	962790	Amps Transfer 2013.08.29
OCLR 01155/ITE	Short filtering optical fibre	Utility	Utility - EPPAT	Issued	IT	Oct 18, 2006	Jun 2, 1998	May 12, 1999	May 12, 2019	99401171.6	962790	Amps Transfer 2013.08.29
OCLR 01155/US	Optical fiber including a short filler	Utility	Utility - ORG	Issued	US	Sep 18, 2001	Jun 2, 1998	May 12, 1999	May 12, 2019	097316.396	6,292,606	Amps Transfer 2013.08.29
OCLR 01161/US	Compensation of polarization mode dispersion of an grating written in an optical	Utility	Utility - ORG	Issued	US	Mar 18, 2003	May 11, 2000	May 7, 2001	May 22, 2021	097849.354	6,535,669	
OCLR 01162/US	Optical filter with little variation in chromatic dispersion	Utility	Utility - ORG	Issued	US	Aug 27, 2002	Oct 28, 1999	Oct 13, 2000	Oct 13, 2020	097689.867	6,441,962	Amps Transfer 2013.08.29
OCLR 01164/US	In-fibre continuously chirped gain flattening filters and method	Utility	Utility - ORG	Issued	US	Nov 16, 2004	Jun 29, 2000	Jun 28, 2001	Jul 18, 2021	097892.469	6,819,833	Amps Transfer 2013.08.29
OCLR 01165/US	Localized annealing of UV induced index grating in optical waveguides	Utility	Utility - ORG	Issued	US	Feb 26, 2008	Jun 29, 2000	Jun 28, 2001	Jun 28, 2021	097892.472	7,336,872	Amps Transfer 2013.08.29
OCLR 01167/US	Micro electromechanical system and method for transmissively switching optical s	Utility	Utility - ORG	Issued	US	Mar 30, 2004	Apr 13, 2001	Apr 13, 2001	Apr 13, 2021	097834.492	6,714,700	
OCLR 01246/DE	Dual-filter architecture for reduced dispersion	Utility	Utility - EPPAT	Issued	DE	Sep 26, 2007	Oct 23, 2003	Jan 26, 2005	Jan 26, 2025	05300060.0	602005002569.3	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01246/FR	Dual-filter architecture for reduced dispersion	Utility	Utility - EPPAT	Issued	FR	Sep 26, 2007	Oct 23, 2003	Jan 26, 2005	Jan 26, 2025	05300060.0	1560356	Amps Transfer 2013.08.29
OCLR 01246/GB	Dual-filter architecture for reduced dispersion	Utility	Utility - EPPAT	Issued	GB	Sep 26, 2007	Oct 23, 2003	Jan 26, 2005	Jan 26, 2025	05300060.0	1560356	
OCLR 01246/IT	Dual-filter architecture for reduced dispersion	Utility	Utility - EPPAT	Issued	IT	Sep 26, 2007	Oct 23, 2003	Jan 26, 2005	Jan 26, 2025	05300060.0	1560356	Amps Transfer 2013.08.29
OCLR 01246/US	Dual-filter architecture for reduced dispersion	Utility	Utility - ORG	Issued	US	Feb 19, 2008	Oct 23, 2003	Jan 27, 2004	Feb 11, 2026	10/766,680	7,333,687	Amps Transfer 2013.08.29
OCLR 01248/US	Micro-opto electro mechanical device	Utility	Utility - ORG	Issued	US	Feb 21, 2006	Feb 13, 2002	Nov 27, 2002	Aug 21, 2022	10/305,158	7,003,192	
OCLR 01250/US	Synthesis of optical dispersion compensators and methods using a series of gratings	Utility	Utility - ORG	Issued	US	Apr 20, 2004	Nov 22, 2000	Mar 20, 2003	Nov 22, 2020	10/260,013	6,724,482	Amps Transfer 2013.08.29
OCLR 01251/US	Composite optical amplifier	Utility	Utility - ORG	Issued	US	Dec 3, 2002	Nov 20, 2000	Nov 20, 2000	Nov 20, 2020	09/717,319	6,490,077	Amps Transfer 2013.08.29
OCLR 01252/US	Composite optical amplifier	Utility	Utility - ORG	Issued	US	Aug 17, 2004	Nov 20, 2000	Nov 20, 2000	Jan 4, 2023	09/718,036	6,778,320	Amps Transfer 2013.08.29
OCLR 01253/US	Universal controller for an optical amplifier that operates over a wide dynamic	Utility	Utility - ORG	Issued	US	Oct 7, 2003	Apr 13, 2000	Feb 20, 2001	Aug 3, 2021	09/789,915	6,631,027	Amps Transfer 2013.08.29
OCLR 01253/US/N1	Universal controller for an optical amplifier that operates over a wide dynamic	Utility	Utility - CON	Issued	US	Dec 28, 2004	Apr 13, 2000	Feb 20, 2001	Feb 20, 2021	10/672,610	6,836,355	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01254/US	Three-port filter and method of manufacture	Utility	Utility - ORG	Issued	US	Jan 29, 2002	Jun 22, 2000	Jun 22, 2000	Jun 22, 2020	09/599,168	6,343,166	Amps Transfer 2013.08.29
OCLR 01255/US	L band multistage amplifier with improved noise figure	Utility	Utility - ORG	Issued	US	Aug 27, 2002	Apr 4, 2000	Apr 24, 2000	Apr 24, 2020	09/556,355	6,441,953	Amps Transfer 2013.08.29
OCLR 01256/US	Amplifier system with a discrete Raman fiber amplifier module	Utility	Utility - ORG	Issued	US	Oct 30, 2001	Aug 18, 2000	Aug 18, 2000	Aug 18, 2020	09/641,578	6,310,716	Amps Transfer 2013.08.29
OCLR 01257/US	Thermal ripple-compensating, gain-flattening filter for an optical amplifier	Utility	Utility - ORG	Issued	US	Apr 8, 2003	Apr 9, 2001	Apr 9, 2001	Apr 9, 2021	09/829,590	6,545,798	Amps Transfer 2013.08.29
OCLR 01258/US	Optical interleaver	Utility	Utility - ORG	Issued	US	Oct 18, 2005	Mar 30, 2001	Mar 28, 2002	Nov 8, 2022	10/112,624	6,956,988	Amps Transfer 2013.08.29
OCLR 01258/US/D1	Optical interleaver	Utility	Utility - DIV	Issued	US	Aug 14, 2007	Mar 30, 2001	Mar 28, 2002	Nov 8, 2022	10/967,113	7,257,287	Amps Transfer 2013.08.29
OCLR 01259/US	Gain flattening optical filter, optical amplifier comprising such an optical fil	Utility	Utility - ORG	Issued	US	Dec 21, 2004	Sep 7, 2001	Sep 5, 2002	Nov 23, 2022	10/236,702	6,834,144	Amps Transfer 2013.08.29
OCLR 01261/US	Multiple-port optical package and DWDM module	Utility	Utility - ORG	Issued	US	Jul 6, 2004	Jun 22, 2000	Aug 31, 2001	Aug 6, 2020	09/945,313	6,760,516	
OCLR 01261/US/N1	Multiple-port optical package and DWDM module	Utility	Utility - CON	Issued	US	Mar 6, 2007	Aug 31, 2001	Aug 31, 2001	Aug 31, 2021	10/884,316	7,187,826	
OCLR 01264/US	Optical amplifier site with reduced noise and transmission system utilizing such	Utility	Utility - ORG	Issued	US	Jun 24, 2003	Aug 7, 2001	Jun 28, 2002	Jun 28, 2022	10/185,935	6,583,922	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01265/US	Thulium doped fiber amplifier pumping scheme	Utility	Utility - ORG	Issued	US	Nov 5, 2002	May 21, 2001	May 21, 2001	May 21, 2021	09/862,770	6,476,960	Amps Transfer 2013.08.29
OCLR 01266/US	Enabler of large Raman gain on small effective area fibers	Utility	Utility - ORG	Issued	US	Sep 9, 2003	Apr 30, 2001	Apr 30, 2001	Apr 30, 2021	09/845,401	6,618,191	Amps Transfer 2013.08.29
OCLR 01270/US	Six-port optical package and method of manufacturing	Utility	Utility - ORG	Issued	US	Jul 27, 2004	Jun 22, 2000	Aug 31, 2001	Jun 22, 2020	09/945,373	6,767,139	Amps Transfer 2013.08.29
OCLR 01271/US	Optical package with cascaded filtering	Utility	Utility - ORG	Issued	US	Nov 1, 2005	Mar 26, 2002	Mar 26, 2002	Oct 24, 2022	10/108,010	6,961,496	Amps Transfer 2013.08.29
OCLR 01273/US	Raman amplifiers with improved signal power management	Utility	Utility - ORG	Issued	US	Mar 1, 2005	Jun 24, 2002	Jun 24, 2002	Apr 26, 2023	10/178,799	6,862,135	Amps Transfer 2013.08.29
OCLR 01275/US	Narrow band wavelength division multiplexer and method of multiplexing optical s	Utility	Utility - ORG	Issued	US	May 14, 2002	Nov 30, 1999	Nov 30, 1999	Nov 30, 2019	09/451,655	6,388,783	
OCLR 01276/US	Performance gain flattened EDFA	Utility	Utility - ORG	Issued	US	Apr 10, 2001	Mar 31, 1998	Mar 29, 1999	Mar 29, 2019	09/280,440	6,215,581	Amps Transfer 2013.08.29
OCLR 01276/US/D1	Performance gain flattened EDFA	Utility	Utility - DIV	Issued	US	Jan 22, 2002	Mar 31, 1998	Mar 29, 1999	Mar 29, 2019	09/721,255	6,341,033	Amps Transfer 2013.08.29
OCLR 01277/US	Wide-band Raman amplifiers	Utility	Utility - ORG	Issued	US	Jan 31, 2006	Jun 17, 2002	Jun 17, 2002	Aug 20, 2023	10/174,340	6,992,814	Amps Transfer 2013.08.29
OCLR 01278/US	Method and apparatus for reducing multi-path interference in dispersion compensa	Utility	Utility - ORG	Issued	US	Mar 8, 2005	Jun 24, 2002	Jun 24, 2002	Oct 12, 2022	10/178,800	6,865,303	

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01279/US	Inversion level controller and system for optical amplifiers	Utility	Utility - ORG	Issued	US	May 31, 2005	Sep 27, 2002	Sep 27, 2002	Nov 3, 2023	10/260,678	6,900,934	Amps Transfer 2013.08.29
OCLR 01280/US	Package for optical filter device	Utility	Utility - ORG	Issued	US	Feb 1, 2005	Oct 31, 2002	Oct 31, 2002	Feb 28, 2023	10/284,814	6,850,669	Amps Transfer 2013.08.29
OCLR 01283/US	Optical amplifier with wide flat gain dynamic range	Utility	Utility - ORG	Issued	US	Aug 27, 2002	Mar 31, 1998	Feb 9, 1999	Feb 9, 2019	09/647,423	6,441,954	Amps Transfer 2013.08.29
OCLR 01285/US	Optical power amplifier with Al2O3 and erbium doped active fiber	Utility	Utility - ORG	Issued	US	Jun 10, 1997	Jan 22, 1990	Nov 23, 1993	Nov 23, 2013	08/156,880	5,638,204	Amps Transfer 2013.08.29
OCLR 01286/DEE	Pump wavelength tuning of optical amplifiers and use of same in wavelength divis	Utility	Utility - EPPAT	Issued	DE	Nov 27, 2002	Feb 17, 1997	Feb 4, 1998	Feb 4, 2018	98300791.5	69809609.6	Amps Transfer 2013.08.29
OCLR 01286/FRE	Pump wavelength tuning of optical amplifiers and use of same in wavelength divis	Utility	Utility - EPPAT	Issued	FR	Nov 27, 2002	Feb 17, 1997	Feb 4, 1998	Feb 4, 2018	98300791.5	859435	Amps Transfer 2013.08.29
OCLR 01286/GBE	Pump wavelength tuning of optical amplifiers and use of same in wavelength divis	Utility	Utility - EPPAT	Issued	GB	Nov 27, 2002	Feb 17, 1997	Feb 4, 1998	Feb 4, 2018	98300791.5	859435	Amps Transfer 2013.08.29
OCLR 01286/ITE	Pump wavelength tuning of optical amplifiers and use of same in wavelength divis	Utility	Utility - EPPAT	Issued	IT	Nov 27, 2002	Feb 17, 1997	Feb 4, 1998	Feb 4, 2018	98300791.5	859435	Amps Transfer 2013.08.29
OCLR 01286/US	Pump wavelength tuning of optical amplifiers and use of same in wavelength divis	Utility	Utility - ORG	Issued	US	Nov 7, 2000	Feb 17, 1997	Jun 30, 1998	Jun 30, 2018	09/016,184	6,144,486	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01287/US	Multiple reflection multiplexer and demultiplexer	Utility	Utility - ORG	Issued	US	Aug 29, 2000	Feb 23, 1996	Jan 22, 1997	Jan 22, 2017	08/787,460	6,111,674	
OCLR 01288/US	Switchable fiber optic device for fiber transmission system and components there	Utility	Utility - ORG	Issued	US	Aug 17, 1999	Apr 2, 1996	Mar 10, 1997	Mar 10, 2017	08/813,184	5,940,208	Amps Transfer 2013.08.29
OCLR 01289/US	Detachable plug-in pump card assembly	Utility	Utility - ORG	Issued	US	Oct 17, 2000	Dec 2, 1998	Nov 30, 1999	Nov 30, 2019	09/451,751	6,132,104	Amps Transfer 2013.08.29
OCLR 01290/US	Device and method to suppress q-switching in an optical amplifying device	Utility	Utility - ORG	Issued	US	Sep 1, 1998	Oct 29, 1996	Jun 18, 1997	Jun 18, 2017	08/878,262	5,801,879	Amps Transfer 2013.08.29
OCLR 01291/US	Fiber amplifier having efficient pump power utilization	Utility	Utility - ORG	Issued	US	Apr 11, 1995	Oct 14, 1993	Oct 14, 1993	Oct 14, 2013	08/137,270	5,406,411	Amps Transfer 2013.08.29
OCLR 01292/US	Hybrid fiber amplifier	Utility	Utility - ORG	Issued	US	Jan 4, 2000	Jul 29, 1994	Jul 29, 1994	Jan 4, 2017	08/281,732	6,011,644	Amps Transfer 2013.08.29
OCLR 01293/FRE	Crosstalk suppression in a multipath optical amplifier	Utility	Utility - EPPAT	Issued	FR	Dec 20, 2006	Nov 6, 1996	Oct 24, 1997	Oct 24, 2017	97118514.5	841764	Amps Transfer 2013.08.29
OCLR 01293/GBE	Crosstalk suppression in a multipath optical amplifier	Utility	Utility - EPPAT	Issued	GB	Dec 20, 2006	Nov 6, 1996	Oct 24, 1997	Oct 24, 2017	97118514.5	841764	Amps Transfer 2013.08.29
OCLR 01293/US	Crosstalk suppression in a multipath optical amplifier	Utility	Utility - ORG	Issued	US	Jul 4, 2000	Nov 6, 1996	Sep 9, 1997	Sep 9, 2017	08/925,918	6,084,704	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01293/US/N1	Crosstalk suppression in a multipath optical amplifier	Utility	Utility - CON	Issued	US	Jan 29, 2002	Nov 6, 1996	Sep 9, 1997	Sep 9, 2017	09/576,663	6,342,966	Amps Transfer 2013.08.29
OCLR 01294/US	Apparatus and method for amplifying an optical signal	Utility	Utility - ORG	Issued	US	Jun 12, 2001	Dec 18, 1998	Dec 18, 1998	Dec 18, 2018	09/216,615	6,246,515	Amps Transfer 2013.08.29
OCLR 01295/US	Thermal tuning of optical amplifiers and use of same in wavelength division mul	Utility	Utility - ORG	Issued	US	Nov 20, 2001	Jun 30, 1998	Jun 29, 1999	Jun 29, 2019	09/543,661	6,320,693	Amps Transfer 2013.08.29
OCLR 01297/US	Controlled stress thermal compensation for filters	Utility	Utility - ORG	Issued	US	Oct 16, 2001	Sep 17, 1999	Sep 17, 1999	Sep 17, 2019	09/398,647	6,304,383	Amps Transfer 2013.08.29
OCLR 01299/US	Optical amplifier designs for multichannel fiber optic communication networks	Utility	Utility - ORG	Issued	US	Oct 17, 2000	Feb 20, 1998	Apr 6, 1998	Apr 6, 2018	09/055,332	6,134,047	Amps Transfer 2013.08.29
OCLR 01300/US	Management and utilization of ASE in optical amplifier	Utility	Utility - ORG	Issued	US	May 15, 2001	Oct 16, 1998	Aug 12, 1999	Aug 12, 2019	09/573,307	6,233,092	Amps Transfer 2013.08.29
OCLR 01301/US	L-band amplification with detuned 980nm pump	Utility	Utility - ORG	Issued	US	Oct 23, 2001	Nov 20, 1998	Oct 12, 1999	Oct 12, 2019	09/417,262	6,307,669	Amps Transfer 2013.08.29
OCLR 01302/US	Gain saturation tuning in optical amplifiers	Utility	Utility - ORG	Issued	US	Apr 1, 2003	Nov 18, 1999	Apr 10, 2002	Nov 18, 2019	10/120,321	6,542,289	Amps Transfer 2013.08.29
OCLR 01303/US	Long band optical amplifier	Utility	Utility - ORG	Issued	US	Jul 16, 2002	Dec 27, 1999	Dec 27, 1999	Dec 27, 2019	09/472,459	6,421,172	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01305/US	Method of spectrally tuning a filter	Utility	Utility - ORG	Issued	US	Mar 20, 2001	Dec 13, 1999	Dec 13, 1999	Dec 13, 2019	09/460,228	6,204,970	Amps Transfer 2013.08.29
OCLR 01306/US	Multiplexing device with precision optical block	Utility	Utility - ORG	Issued	US	Jan 12, 1999	Feb 14, 1997	Feb 14, 1997	Feb 14, 2017	08/800,693	5,859,717	
OCLR 01307/US	Add/drop optical multiplexing device	Utility	Utility - ORG	Issued	US	Mar 6, 2001	Jan 5, 1998	Dec 29, 1998	Dec 29, 2018	09/222,626	6,198,857	
OCLR 01313/US	Amplifier system with distributed and discrete Raman fiber amplifiers	Utility	Utility - ORG	Issued	US	Dec 2, 2003	Aug 18, 2000	Aug 18, 2000	Aug 18, 2020	09/641,577	6,657,774	Amps Transfer 2013.08.29
OCLR 01314/US	Bidirectional multichannel optical telecommunication system	Utility	Utility - ORG	Issued	US	Apr 25, 2006	Jul 31, 1996	Oct 14, 2003	Jul 2, 2022	10/686,048	7,035,545	Amps Transfer 2013.08.29
OCLR 01317/US	Pump power monitor system and method for gain control of optical amplifier	Utility	Utility - ORG	Issued	US	Oct 26, 2004	Sep 5, 2000	Aug 17, 2001	Jun 17, 2022	09/932,522	6,810,173	Amps Transfer 2013.08.29
OCLR 01318/DEE	Variable gain optical amplifier and control method	Utility	Utility - EPPAT	Issued	DE	Jun 21, 2006	May 17, 2001	Apr 3, 2002	Apr 3, 2022	27/19437.2	60212631.2	Amps Transfer 2013.08.29
OCLR 01318/FRE	Variable gain optical amplifier and control method	Utility	Utility - EPPAT	Issued	FR	Jun 21, 2006	May 17, 2001	Apr 3, 2002	Apr 3, 2022	27/19437.2	1402663	Amps Transfer 2013.08.29
OCLR 01318/GBE	Variable gain optical amplifier and control method	Utility	Utility - EPPAT	Issued	GB	Jun 21, 2006	May 17, 2001	Apr 3, 2002	Apr 3, 2022	27/19437.2	1402663	Amps Transfer 2013.08.29
OCLR 01318/ITE	Variable gain optical amplifier and control method	Utility	Utility - EPPAT	Issued	IT	Jun 21, 2006	May 17, 2001	Apr 3, 2002	Apr 3, 2022	27/19437.2	1402663	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01318/US	Optical amplifier performance controller and method of use	Utility	Utility - ORG	Issued	US	Sep 13, 2005	May 17, 2001	May 17, 2001	May 10, 2022	09/860,021	6,943,937	Amps Transfer 2013.08.29
OCLR 01318/US/C1	Variable gain optical amplifier and control method	Utility	Utility - CIP	Issued	US	Feb 3, 2004	May 17, 2001	Nov 13, 2001	Oct 3, 2021	09/986,991	6,687,045	Amps Transfer 2013.08.29
OCLR 01319/US	Gain control optical in Raman amplifiers	Utility	Utility - ORG	Issued	US	Apr 20, 2004	Aug 18, 2000	Aug 18, 2000	Aug 18, 2020	09/641,579	6,724,524	Amps Transfer 2013.08.29
OCLR 01320/US	Pumping method and unit for optical amplifiers	Utility	Utility - ORG	Issued	US	Nov 4, 2003	Dec 27, 2000	Dec 20, 2001	Dec 20, 2021	10/027,105	6,643,058	Amps Transfer 2013.08.29
OCLR 01320/US/N1	Pumping method and unit for optical amplifiers	Utility	Utility - CON	Issued	US	Aug 22, 2006	Dec 27, 2000	Dec 20, 2001	Apr 9, 2022	10/643,493	7,095,554	Amps Transfer 2013.08.29
OCLR 01321/US	Optical amplifier apparatus	Utility	Utility - ORG	Issued	US	May 13, 2003	Sep 29, 1997	Apr 10, 2000	Aug 12, 2018	09/529,191	6,563,630	Amps Transfer 2013.08.29
OCLR 01325/US	Apparatus and method for making an optical fiber amplifier	Utility	Utility - ORG	Issued	US	Jan 4, 2005	Sep 1, 1999	Sep 1, 1999	Sep 1, 2019	09/387,961	6,839,163	Amps Transfer 2013.08.29
OCLR 01326/US	Periodic Mach-Zehnder optical filters	Utility	Utility - ORG	Issued	US	Aug 31, 1999	Apr 18, 1996	Apr 11, 1997	Apr 11, 2017	08/981,169	5,946,432	Amps Transfer 2013.08.29
OCLR 01326/US/D1	Periodic Mach-Zehnder optical filters	Utility	Utility - DIV	Issued	US	Jul 11, 2000	Apr 18, 1996	Apr 11, 1997	Apr 11, 2017	09/290,143	6,088,494	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01327/US	Balanced gain flattening filters	Utility	Utility - ORG	Issued	US	Sep 3, 2002	Jan 29, 1999	Oct 25, 1999	Oct 25, 2019	09/426,051	6,445,493	Amps Transfer 2013.08.29
OCLR 01328/US	Compact-size optical amplifier	Utility	Utility - ORG	Issued	US	Jan 17, 1995	Oct 30, 1992	Oct 28, 1993	Oct 28, 2013	08/145,472	5,383,051	Amps Transfer 2013.08.29
OCLR 01329/DEE	Signal band antireflection coating for pump facet	Utility	Utility - EPPAT	Issued	DE	May 9, 2007	Jan 18, 1999	Jan 13, 2000	Jan 13, 2020	909901.1	60034768.0	
OCLR 01329/DEE/D1	Signal band antireflection coating for pump facet	Utility	Utility - EPPAT	Issued	DE	Sep 7, 2011	Jan 18, 1999	Jan 13, 2000	Jan 13, 2020	7003410.3	60046434.2	
OCLR 01329/FRE	Signal band antireflection coating for pump facet	Utility	Utility - EPPAT	Issued	FR	May 9, 2007	Jan 18, 1999	Jan 13, 2000	Jan 13, 2020	909901.1	1149440	
OCLR 01329/FRE/D1	Signal band antireflection coating for pump facet	Utility	Utility - EPPAT	Issued	FR	Sep 7, 2011	Jan 18, 1999	Jan 13, 2000	Jan 13, 2020	7003410.3	1780848	
OCLR 01329/GBE	Signal band antireflection coating for pump facet	Utility	Utility - EPPAT	Issued	GB	May 9, 2007	Jan 18, 1999	Jan 13, 2000	Jan 13, 2020	909901.1	1149440	
OCLR 01329/GBE/D1	Signal band antireflection coating for pump facet	Utility	Utility - EPPAT	Issued	GB	Sep 7, 2011	Jan 18, 1999	Jan 13, 2000	Jan 13, 2020	7003410.3	1780848	
OCLR 01329/ITE	Signal band antireflection coating for pump facet	Utility	Utility - EPPAT	Issued	IT	May 9, 2007	Jan 18, 1999	Jan 13, 2000	Jan 13, 2020	909901.1	1149440	
OCLR 01329/ITE/D1	Signal band antireflection coating for pump facet	Utility	Utility - EPPAT	Issued	IT	Sep 7, 2011	Jan 18, 1999	Jan 13, 2000	Jan 13, 2020	7003410.3	1780848	
OCLR 01329/US	Signal band antireflection coating for pump facet in fiber amplifier system	Utility	Utility - ORG	Issued	US	Dec 11, 2001	Jan 18, 1999	Jan 18, 1999	Jan 18, 2019	09/232,551	6,330,264	
OCLR 01330/US	Optical component with polarisation-maintaining fiber pigtail splice to regular fiber	Utility	Utility - ORG	Issued	US	Jun 4, 2002	May 27, 1999	Aug 18, 2000	Feb 10, 2020	09/642,169	6,400,746	
OCLR 01330/US/C1	Optical component with polarisation-maintaining fiber pigtail splice to regular fiber	Utility	Utility - CIP	Issued	US	Jan 8, 2002	May 27, 1999	Feb 10, 2000	Sep 14, 2019	09/501,809	6,337,874	

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01331/DEE	Pump power control for optical fiber amplifier	Utility	Utility - EPPAT	Issued	DE	Sep 1, 2004	Dec 14, 1999	Oct 23, 2000	Oct 23, 2020	982057.2	60013485.7	Amps Transfer 2013.08.29
OCLR 01331/FRE	Pump power control for optical fiber amplifier	Utility	Utility - EPPAT	Issued	FR	Sep 1, 2004	Dec 14, 1999	Oct 23, 2000	Oct 23, 2020	982057.2	1240695	Amps Transfer 2013.08.29
OCLR 01331/GBE	Pump power control for optical fiber amplifier	Utility	Utility - EPPAT	Issued	GB	Sep 1, 2004	Dec 14, 1999	Oct 23, 2000	Oct 23, 2020	982057.2	1240695	Amps Transfer 2013.08.29
OCLR 01331/ITE	Pump power control for optical fiber amplifier	Utility	Utility - EPPAT	Issued	IT	Sep 1, 2004	Dec 14, 1999	Oct 23, 2000	Oct 23, 2020	982057.2	1240695	Amps Transfer 2013.08.29
OCLR 01331/US	Pump power control for optical fiber amplifier	Utility	Utility - ORG	Issued	US	Oct 23, 2001	Dec 14, 1999	Dec 14, 1999	Dec 14, 2019	09/461,678	6,307,670	Amps Transfer 2013.08.29
OCLR 01332/US	L band amplifier with distributed filtering	Utility	Utility - ORG	Issued	US	Oct 1, 2002	Aug 9, 1999	Aug 9, 1999	Aug 9, 2019	09/370,735	6,459,526	
OCLR 01333/US	Amplifier having pump fiber filter	Utility	Utility - ORG	Issued	US	Nov 8, 1994	Oct 14, 1993	Oct 14, 1993	Oct 14, 2013	08/135,624	5,363,234	Amps Transfer 2013.08.29
OCLR 01335/US	Optical fiber telecommunication system	Utility	Utility - ORG	Issued	US	Feb 29, 2000	Jun 4, 1997	Jun 4, 1997	Jun 4, 2017	09/090,405	6,031,646	Amps Transfer 2013.08.29
OCLR 01336/US	Optical amplifying unit and optical transmission system	Utility	Utility - ORG	Issued	US	Aug 5, 2003	Sep 29, 1999	Sep 28, 2000	Sep 28, 2020	09/671,974	6,603,598	Amps Transfer 2013.08.29
OCLR 01337/US	Optical power limiting amplifier	Utility	Utility - ORG	Issued	US	Nov 26, 1996	Apr 27, 1992	Apr 23, 1993	Nov 26, 2013	08/052,244	5,579,153	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01338/US	Bidirectional optical telecommunication system comprising a bidirectional optica	Utility	Utility - ORG	Issued	US	Jan 25, 2000	Jan 27, 1995	Jan 21, 1999	Jan 16, 2016	09/234,830	6,018,404	Amps Transfer 2013.08.29
OCLR 01339/US	Amplified telecommunication system for wavelength-division multiplexing transmits	Utility	Utility - ORG	Issued	US	Dec 23, 1997	Jan 14, 1994	Mar 19, 1996	Jul 24, 2015	08/618,502	5,701,194	Amps Transfer 2013.08.29
OCLR 01342/US	Optical amplifier and optical transmission system	Utility	Utility - ORG	Issued	US	Feb 11, 2003	Mar 14, 2000	Feb 28, 2001	Mar 14, 2020	09/794,033	6,519,080	Amps Transfer 2013.08.29
OCLR 01344/US	Amplified telecommunication system for wavelength-division multiplexing transmits	Utility	Utility - ORG	Issued	US	Sep 15, 1998	Apr 14, 1994	Jan 29, 1997	Jan 3, 2015	08/792,711	5,808,787	Amps Transfer 2013.08.29
OCLR 01348/US	Temperature-stabilized optical amplifier and method for temperature-stabilizing	Utility	Utility - ORG	Issued	US	Jan 20, 2004	Nov 21, 2000	Nov 14, 2001	Nov 14, 2021	09/992,146	6,680,793	Amps Transfer 2013.08.29
OCLR 01351/US	Single parameter gain slope adjuster for an optical system	Utility	Utility - ORG	Issued	US	Aug 26, 2003	Mar 16, 2001	Mar 16, 2001	Mar 16, 2021	09/809,882	6,611,371	Amps Transfer 2013.08.29
OCLR 01352/US	Single parameter gain slope adjuster for an optical system	Utility	Utility - CIP	Issued	US	Nov 11, 2003	Mar 16, 2001	Feb 22, 2002	Aug 1, 2021	10/080,756	6,646,789	Amps Transfer 2013.08.29
OCLR 01359/US	Optical multiplexing device	Utility	Utility - ORG	Issued	US	Jul 28, 1998	Jun 15, 1995	Oct 22, 1996	Jun 15, 2015	08/734,883	5,786,915	
OCLR 01360/US	Optical amplifiers with a simple gain-output control device	Utility	Utility - ORG	Issued	US	Feb 25, 2003	Apr 13, 2000	Mar 30, 2001	May 30, 2021	09/821,924	6,525,873	Amps Transfer 2013.08.29
OCLR 01360/US	Apparatus and method for making a blockless optical multiplexing device	Utility	Utility - ORG	Issued	US	Jul 9, 2002	Feb 28, 2000	Aug 2, 2000	Aug 26, 2020	09/630,778	6,418,250	

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01361/US 01362/DEE	Optical filtering device and method of making the same	Utility	Utility - ORG	Issued	US	Sep 24, 2002	Mar 31, 2000	Sep 13, 2000	Mar 4, 2021	09/660,641	6,454,465	Amps Transfer 2013.08.29
OCLR 01362/DEE	Long band optical amplifier	Utility	Utility - EPPAT	Issued	DE	Nov 18, 2009	Mar 16, 2000	Jan 19, 2001	Jan 19, 2021	1904959.2	60140522.6	Amps Transfer 2013.08.29
OCLR 01362/GBE	Long band optical amplifier	Utility	Utility - EPPAT	Issued	GB	Nov 18, 2009	Mar 16, 2000	Jan 19, 2001	Jan 19, 2021	1904959.2	1264371	Amps Transfer 2013.08.29
OCLR 01362/US	Long band optical amplifier	Utility	Utility - ORG	Issued	US	Apr 30, 2002	Mar 16, 2000	Mar 16, 2000	Mar 16, 2020	09/526,892	6,381,063	Amps Transfer 2013.08.29
OCLR 01363/US	Techniques for making an insertion loss correction in an optical fiber amplifier	Utility	Utility - ORG	Issued	US	Feb 4, 2003	Mar 15, 2000	Feb 20, 2001	Feb 20, 2021	09/789,869	6,515,794	Amps Transfer 2013.08.29
OCLR 01364/US	Tapped delay line based gain flattening filter	Utility	Utility - ORG	Issued	US	Apr 8, 2003	Jul 11, 2000	Jul 10, 2001	Jul 10, 2021	09/902,424	6,546,158	Amps Transfer 2013.08.29
OCLR 01364/US/CI	Tapped delay line based gain flattening filter	Utility	Utility - CIP	Issued	US	Jun 3, 2003	Jul 10, 2001	Nov 2, 2001	Sep 3, 2020	10/016,014	6,574,380	Amps Transfer 2013.08.29
OCLR 01365/US	Method for operating a noise-compensating gain controller for an optical amplifi	Utility	Utility - ORG	Issued	US	Feb 11, 2003	Apr 13, 2000	Apr 30, 2001	Apr 29, 2021	09/845,402	6,519,081	Amps Transfer 2013.08.29
OCLR 01366/US	Method for controlling performance of optical amplifiers	Utility	Utility - ORG	Issued	US	Aug 12, 2003	May 13, 2002	May 13, 2002	May 13, 2022	10/145,456	6,606,191	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01368/US	Fiber optic signal detector with two switchable input channels	Utility	Utility - ORG	Issued	US	Sep 7, 2004	Jan 9, 2001	Jan 8, 2002	Jan 8, 2022	10/042,947	6,787,745	Amps Transfer 2013.08.29
OCLR 01371/US	Optical routers and redundancy	Utility	Utility - ORG	Issued	US	Dec 12, 2006	Nov 3, 2000	Nov 5, 2001	Oct 21, 2023	10/012,207	7,149,426	Amps Transfer 2013.08.29
OCLR 01378/US	Method and system for monitoring multiple optical communications lines	Utility	Utility - ORG	Issued	US	Aug 14, 2007	Sep 24, 2002	May 16, 2003	Jan 20, 2025	10/439,631	7,257,325	Amps Transfer 2013.08.29
OCLR 01382/US	Liquid crystal device and method for optical performance monitoring in fiber opt	Utility	Utility - ORG	Issued	US	Nov 20, 2007	Jan 10, 2003	Aug 8, 2003	Jun 6, 2024	10/637,115	7,298,428	Amps Transfer 2013.08.29
OCLR 01383/US	Reconfigurable thin film filter based DWDM devices for reconfigurable add-drop	Utility	Utility - ORG	Issued	US	Nov 18, 2008	Dec 15, 2003	Dec 15, 2003	Jul 9, 2025	10/736,818	7,454,143	
OCLR 01386/US	Apparatus and system for a re-configurable channel dropping de-multiplexer	Utility	Utility - ORG	Issued	US	Sep 5, 2006	Sep 12, 2003	Sep 12, 2003	Apr 14, 2024	10/661,452	7,102,821	
OCLR 01387/US	Reconfigurable optical add-drop multiplexers employing optical multiplex section	Utility	Utility - ORG	Issued	US	Feb 26, 2008	Feb 24, 2004	Feb 24, 2004	Nov 29, 2025	10/786,175	7,336,901	
OCLR 01393/US	System and method for dynamic range extension and stable low power operation of	Utility	Utility - ORG	Issued	US	Sep 19, 2006	Jul 20, 2004	Jul 20, 2004	Oct 12, 2024	10/896,611	7,110,167	Amps Transfer 2013.08.29
OCLR 01396/US	Single channel four-port group delay compensation equalizer	Utility	Utility - ORG	Issued	US	Nov 25, 2008	Nov 16, 2004	Nov 16, 2004	May 25, 2026	10/990,688	7,457,544	Amps Transfer 2013.08.29
OCLR 01403/US	Wdm utilizing grating-based channel separators	Utility	Utility - ORG	Issued	US	Aug 17, 2004	May 25, 2000	May 25, 2000	May 25, 2020	09/579,209	6,778,780	
OCLR 01404/US	Full-duplex optical add/drop communications system utilizing central light source	Utility	Utility - ORG	Issued	US	Apr 26, 2005	Feb 27, 2001	Feb 27, 2001	Sep 2, 2022	09/794,368	6,885,821	

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01405/US	Multi-functional optical device utilizing multiple polarization beam splitters a	Utility	Utility - ORG	Issued	US	Jul 6, 2004	Aug 2, 2000	Aug 2, 2000	Nov 5, 2021	09/630,891	6,760,158	
OCLR 01405/US/C1	Multi-functional optical device utilizing multiple polarization beam splitters a	Utility	Utility - CIP	Issued	US	Dec 10, 2002	Aug 2, 2000	Dec 18, 2000	Sep 7, 2020	09/740,180	6,493,141	
OCLR 01405/US/C2	Multi-functional optical device utilizing multiple polarization beam splitters a	Utility	Utility - CIP	Issued	US	Feb 8, 2005	Aug 2, 2000	Feb 11, 2002	Aug 6, 2018	10/074,303	6,853,487	
OCLR 01405/US/D1	Multi-functional optical device utilizing multiple polarization beam splitters a	Utility	Utility - DIV	Issued	US	Mar 7, 2006	Aug 2, 2000	Aug 2, 2000	Aug 2, 2020	10/430,549	7,009,770	
OCLR 01405/US/D2	Multi-functional optical device utilizing multiple polarization beam splitters a	Utility	Utility - DIV	Issued	US	Mar 8, 2005	Aug 2, 2000	May 5, 2003	Sep 13, 2020	10/430,596	6,865,024	
OCLR 01406/US	Dense wavelength division multiplexer which includes a dense optical channel com	Utility	Utility - ORG	Issued	US	Mar 20, 2001	Sep 23, 1999	Sep 23, 1999	Sep 23, 2019	09/401,686	6,205,270	
OCLR 01406/US/C1	Dense wavelength division multiplexer which includes a dense optical channel com	Utility	Utility - CIP	Issued	US	May 21, 2002	Sep 23, 1999	May 18, 2000	Sep 23, 2019	09/574,650	6,393,176	
OCLR 01407/US	Upgradeable optical add/drop multiplexer	Utility	Utility - ORG	Issued	US	Oct 9, 2007	Aug 28, 2002	Aug 27, 2003	Jul 21, 2025	10/650,936	7,280,760	
OCLR 01408/US	Reflection-type optical circulator utilizing a lens and birefringent plates	Utility	Utility - ORG	Issued	US	May 22, 2001	Sep 23, 1999	Sep 23, 1999	Sep 23, 2019	09/404,416	6,236,506	
OCLR 01408/US/N1	Reflection-type optical circulator utilizing a lens and birefringent plates	Utility	Utility - CON	Issued	US	Jul 22, 2003	Sep 23, 1999	Sep 23, 1999	Sep 23, 2019	09/726,969	6,597,503	
OCLR 01408/US/N2	Reflection-type optical circulator utilizing a lens and birefringent plates	Utility	Utility - CON	Issued	US	Feb 8, 2005	Sep 23, 1999	Sep 23, 1999	Apr 9, 2021	10/430,932	6,853,488	
OCLR 01409/US	Interferometers for optical communications utilizing photo-sensitive materials	Utility	Utility - ORG	Issued	US	May 16, 2006	Mar 14, 2002	Mar 13, 2003	Sep 22, 2023	10/388,580	7,046,374	
OCLR 01410/US	Optical add/drop multiplexer utilizing variable optical attenuator	Utility	Utility - ORG	Issued	US	Jun 26, 2007	Nov 14, 2001	Nov 13, 2002	Apr 30, 2025	10/294,398	7,236,704	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01411/US	Optical performance monitor	Utility	Utility - ORG	Issued	US	Aug 13, 2002	Sep 23, 1999	Apr 19, 2001	Sep 23, 2019	09/838,362	6,433,901	Amps Transfer 2013.08.29
OCLR 01413/US	Method and apparatus for tunable interferometer utilizing variable air density	Utility	Utility - ORG	Issued	US	Mar 15, 2005	Jan 8, 2002	Jan 8, 2003	Sep 25, 2024	10/539,718	6,867,868	Amps Transfer 2013.08.29
OCLR 01418/US	High extinction ratio and low crosstalk compact optical switches	Utility	Utility - ORG	Issued	US	Feb 3, 2009	Jun 5, 2000	Aug 20, 2002	Nov 10, 2020	10/224,748	7,486,443	Amps Transfer 2013.08.29
OCLR 01418/US/N1	High extinction ratio and low crosstalk compact optical switches	Utility	Utility - CON	Issued	US	Sep 6, 2011	Jun 5, 2000	Aug 20, 2002	Feb 2, 2029	12/364,252	8,014,067	Amps Transfer 2013.08.29
OCLR 01419/US	Optical multiplexer and demultiplexer apparatus utilizing multiple polarization	Utility	Utility - ORG	Issued	US	Jan 2, 2007	Apr 29, 2002	Apr 28, 2003	Sep 23, 2019	10/425,068	7,158,697	
OCLR 01420/US	Apparatus and method for controlling extinction ratio in a liquid crystal polari	Utility	Utility - ORG	Issued	US	Jul 17, 2007	Jun 17, 2002	Jun 17, 2002	Jun 17, 2022	10/173,290	7,245,328	Amps Transfer 2013.08.29
OCLR 01421/US	Method, system and apparatus for chromatic dispersion compensation utilizing a g	Utility	Utility - ORG	Issued	US	Nov 26, 2002	Nov 22, 2000	Nov 22, 2000	Nov 22, 2020	09/718,644	6,487,342	Amps Transfer 2013.08.29
OCLR 01421/US/N1	Method, system and apparatus for chromatic dispersion compensation utilizing a g	Utility	Utility - CON	Issued	US	Jun 8, 2004	Nov 22, 2000	Nov 22, 2000	Nov 22, 2020	10/271,418	6,748,140	Amps Transfer 2013.08.29
OCLR 01422/US	Method and apparatus for multi-pass photonic processors with circulators and mul	Utility	Utility - ORG	Issued	US	Apr 27, 2004	Jun 28, 2001	Jun 28, 2001	Nov 8, 2021	09/896,555	6,728,440	Amps Transfer 2013.08.29
OCLR 01423/US	Optical and programmable fiber optic wavelength add/drop system	Utility	Utility - ORG	Issued	US	Jan 2, 2001	Jun 4, 1998	Jun 4, 1998	Jun 4, 2018	09/090,449	6,169,616	

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01423/US/N1	Optical and programmable fiber optic wavelength add/drop system	Utility	Utility - CON	Issued	US	Jun 18, 2002	Jun 4, 1998	Jun 4, 1998	Jun 4, 2018	09/650,246	6,407,839	
OCLR 01424/US	Fiber optic dense wavelength division multiplexer utilizing a multi-stage parallel	Utility	Utility - ORG	Issued	US	Jul 17, 2001	Aug 6, 1998	Aug 6, 1998	Aug 6, 2018	09/130,386	6,263,126	
OCLR 01424/US/N1	Fiber optic dense wavelength division multiplexer utilizing a multi-stage parallel	Utility	Utility - CON	Issued	US	May 20, 2003	Aug 6, 1998	Aug 6, 1998	Aug 6, 2018	09/881,274	6,567,581	
OCLR 01425/US	Dense wavelength division multiplexer/demultiplexer with parallel separation of	Utility	Utility - ORG	Issued	US	Apr 9, 2002	Feb 10, 1999	Feb 10, 1999	Nov 8, 2019	09/247,611	6,370,296	
OCLR 01426/US	Fiber optic dense wavelength division multiplexer with a phase differential method	Utility	Utility - ORG	Issued	US	Apr 10, 2001	Feb 10, 1999	Feb 10, 1999	Feb 10, 2019	09/248,021	6,215,926	
OCLR 01427/US	Fiber optic dense wavelength division multiplexer with a phase differential method	Utility	Utility - ORG	Issued	US	Oct 10, 2000	Aug 6, 1998	Aug 6, 1998	Aug 6, 2018	09/129,635	6,130,971	
OCLR 01427/US/N1	Fiber optic dense wavelength division multiplexer with a phase differential method	Utility	Utility - CON	Issued	US	Jan 2, 2001	Aug 6, 1998	Aug 6, 1998	Aug 6, 2018	09/456,054	6,169,828	
OCLR 01427/US/N2	Fiber optic dense wavelength division multiplexer for separating and combining o	Utility	Utility - CON	Issued	US	Sep 17, 2002	Aug 6, 1998	Aug 6, 1998	Nov 8, 2019	09/696,108	6,453,089	
OCLR 01428/DE	Dense wavelength multiplexer utilizing asymmetric pass band interferometer	Utility	Utility - EPPAT	Issued	DE	Feb 28, 2007	Sep 1, 1999	Aug 24, 2000	Aug 24, 2020	957782.6	60033694.8	
OCLR 01428/DEZ	Non linear interferometer for fiber optic dense wavelength multiplexer utilizing a haze preferential method of wavelength separation	Utility	Utility - EPPAT	Issued	DE	Oct 27, 2010	Feb 10, 1999	Feb 7, 2000	Feb 7, 2020	00939269.7	60045145.3	
OCLR 01428/EPT/D1	Dense wavelength division multiplexer utilizing an asymmetrical pass band interf	Utility	Utility - DIV	Pending	EP		Feb 10, 1999	Aug 24, 2000		09159906.8		
OCLR 01428/FR	Dense wavelength multiplexer utilizing asymmetric pass band interferometer	Utility	Utility - EPPAT	Issued	FR	Feb 28, 2007	Sep 1, 1999	Aug 24, 2000	Aug 24, 2020	957782.6	1244894	

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01428/FRZ	Non linear interferometer for fiber optic dense wavelength multiplexer utilizing a haze preferential method of wavelength separation	Utility	Utility - EPPAT	Issued	FR	Oct 27, 2010	Feb 10, 1999	Feb 7, 2000	Feb 7, 2020	00939269.7	1076934	
OCLR 01428/GB	Dense wavelength multiplexer utilizing asymmetric pass band interferometer	Utility	Utility - EPPAT	Issued	GB	Feb 28, 2007	Sep 1, 1999	Aug 24, 2000	Aug 24, 2020	957782.6	1244894	
OCLR 01428/GBZ	Non linear interferometer for fiber optic dense wavelength multiplexer utilizing a haze preferential method of wavelength separation	Utility	Utility - EPPAT	Issued	GB	Oct 27, 2010	Feb 10, 1999	Feb 7, 2000	Feb 7, 2020	00939269.7	1076934	
OCLR 01428/US	Nonlinear interferometer for fiber optic dense wavelength division multiplexer u	Utility	Utility - ORG	Issued	US	Jan 2, 2001	Feb 10, 1999	Feb 10, 1999	Feb 10, 2019	09247,253	6,169,604	
OCLR 01428/US/N1	Dense wavelength division multiplexer utilizing an asymmetrical pass band interf	Utility	Utility - CON	Issued	US	Oct 30, 2001	Feb 10, 1999	Feb 10, 1999	Feb 10, 2019	097388,350	6,310,690	
OCLR 01429/US	Method and system for compensating for chromatic dispersion in an optical network	Utility	Utility - ORG	Issued	US	Feb 4, 2003	Jun 22, 1999	Feb 14, 2001	Jun 22, 2019	097784,689	6,515,779	
OCLR 01431/DEE	High-isolation dense wavelength division multiplexer utilizing a polarization be	Utility	Utility - EPPAT	Issued	DE	Jan 12, 2005	Jul 6, 1999	Jun 26, 2000	Jun 27, 2020	00939994.0	60017412.3	
OCLR 01431/FRE	High-isolation dense wavelength division multiplexer utilizing a polarization be	Utility	Utility - EPPAT	Issued	FR	Jan 12, 2005	Jul 6, 1999	Jun 26, 2000	Jun 26, 2020	00939994.0	1203248	
OCLR 01431/GBE	High-isolation dense wavelength division multiplexer utilizing a polarization be	Utility	Utility - EPPAT	Issued	GB	Jan 12, 2005	Jul 6, 1999	Jun 26, 2000	Jun 26, 2020	00939994.0	1203248	
OCLR 01431/US	High-isolation dense wavelength division multiplexer utilizing a polarization be	Utility	Utility - ORG	Issued	US	Jul 17, 2001	Jul 6, 1999	Jul 6, 1999	Jul 6, 2019	097348,752	6,263,129	
OCLR 01432/US	Method and apparatus for optical switching devices utilizing a bi-morphic piezoe	Utility	Utility - ORG	Issued	US	Oct 8, 2002	Feb 24, 2000	Feb 24, 2000	Feb 24, 2020	097513,777	6,463,189	

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01432/US/D1	Reversible optical circulator utilizing a bi-morphic piezoelectric apparatus	Utility	Utility - DIV	Issued	US	Nov 18, 2003	Feb 24, 2000	Feb 24, 2000	Feb 24, 2020	10/222,716	6,650,801	
OCLR 01434/US	Tunable chromatic dispersion, dispersion slope and polarization mode dispersion	Utility	Utility - ORG	Issued	US	Apr 29, 2003	May 19, 2000	May 19, 2000	May 19, 2020	09/574,421	6,556,320	Amps Transfer 2013.08.29
OCLR 01434/US/C1	Tunable chromatic dispersion, dispersion slope and polarization mode dispersion	Utility	Utility - CIP	Issued	US	Aug 27, 2002	May 19, 2000	Oct 11, 2000	Aug 26, 2020	09/689,998	6,441,959	Amps Transfer 2013.08.29
OCLR 01435/US	Multi-functional optical device utilizing multiple birefringent plates and a non	Utility	Utility - ORG	Issued	US	May 28, 2002	Aug 24, 2000	Aug 24, 2000	Aug 24, 2020	09/645,232	6,396,629	Amps Transfer 2013.08.29
OCLR 01436/US	Tunable chromatic dispersion compensator utilizing a virtually imaged phased arr	Utility	Utility - ORG	Issued	US	May 21, 2002	Dec 22, 2000	Dec 22, 2000	Dec 22, 2020	09/746,261	6,392,807	Amps Transfer 2013.08.29
OCLR 01437/US	Switchable interleaved channel separator devices and systems	Utility	Utility - ORG	Issued	US	Sep 2, 2003	Jan 30, 2001	Jan 30, 2001	Jan 30, 2021	09/772,684	6,614,573	Amps Transfer 2013.08.29
OCLR 01438/US	Switchable interleaved optical channel separator and isolator device and optical	Utility	Utility - ORG	Issued	US	Feb 25, 2003	Feb 23, 2001	Feb 23, 2001	Aug 3, 2021	09/792,231	6,525,848	Amps Transfer 2013.08.29
OCLR 01439/US	MEMS see-saw array for dynamic gain equalization of DWDM systems	Utility	Utility - ORG	Issued	US	Apr 29, 2003	Jun 26, 2001	Jun 26, 2001	Oct 13, 2021	09/893,195	6,556,766	
OCLR 01440/US	Method and apparatus for asymmetric multiplexing and demultiplexing of optical	Utility	Utility - ORG	Issued	US	Apr 22, 2003	Jun 28, 2001	Jun 28, 2001	Jun 28, 2021	09/894,057	6,553,160	
OCLR 01441/US	Apparatus and method for channel monitoring in a hybrid distributed Raman/EDFA	Utility	Utility - ORG	Issued	US	Aug 27, 2002	Jul 3, 2001	Jul 3, 2001	Jul 3, 2021	09/898,244	6,441,952	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01442/US	Selective intensity modulation of channels in a multiplexed optical communicatio	Utility	Utility - ORG	Issued	US	Mar 4, 2003	Jun 5, 2000	Jun 4, 2001	Jun 4, 2021	09/874,474	6,529,307	
OCLR 01443/US	Method and apparatus for compensating differential group delay	Utility	Utility - ORG	Issued	US	Apr 8, 2003	Aug 22, 2001	Aug 22, 2002	Aug 22, 2022	10/225,650	6,546,159	
OCLR 01445/US	Optical node including three-stage optical amplifier with automatic gain and lev	Utility	Utility - ORG	Issued	US	Sep 16, 2003	Dec 13, 2000	Dec 13, 2000	Dec 13, 2020	09/736,855	6,621,625	Amps Transfer 2013.08.29
OCLR 01449/US	Reflection-type polarization-independent optical isolator, optical isolator/amp	Utility	Utility - ORG	Issued	US	Nov 12, 2002	Nov 10, 1999	Nov 10, 1999	Nov 10, 2019	09/943,791	6,480,331	Amps Transfer 2013.08.29
OCLR 01450/US	Bi-directional polarization-independent optical isolator	Utility	Utility - ORG	Issued	US	Mar 11, 2003	Nov 10, 1999	Nov 10, 1999	Nov 10, 2019	09/438,043	6,532,316	Amps Transfer 2013.08.29
OCLR 01451/US	Optical passive components and bi-directional amplifier	Utility	Utility - ORG	Issued	US	Oct 1, 2002	Nov 10, 1999	Nov 10, 1999	Nov 10, 2019	09/576,299	6,459,528	Amps Transfer 2013.08.29
OCLR 01451/US/DI	Optical passive components and bi-directional amplifier	Utility	Utility - DIV	Issued	US	Nov 4, 2003	May 23, 2000	Nov 10, 1999	May 23, 2020	10/198,167	6,643,056	Amps Transfer 2013.08.29
OCLR 01452/US	Bi-directional optical circulator and applications thereof	Utility	Utility - ORG	Issued	US	Mar 25, 2003	May 18, 2000	May 18, 2000	May 18, 2020	09/572,928	6,538,815	
OCLR 01453/US	Apparatus, system and method for a tunable optical filter and channel dropping d	Utility	Utility - ORG	Issued	US	Oct 9, 2007	Aug 6, 2004	Aug 5, 2005	Aug 5, 2025	11/198,721	7,280,720	Amps Transfer 2013.08.29
OCLR 01453/US/DI	Apparatus, system and method for a tunable optical filter	Utility	Utility - DIV	Issued	US	Apr 6, 2010	Aug 6, 2004	Aug 5, 2005	Jan 9, 2025	11/857,892	7,693,364	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01455/US	Method and apparatus for reduction of optical coupling between pump lasers and p	Utility	Utility - ORG	Issued	US	Sep 30, 2008	Aug 26, 2004	Aug 26, 2004	Aug 26, 2024	10/927,907	7,430,354	Amps Transfer 2013.08.29
OCLR 01456/US	Slanted Bragg grating gain flattening filter having spatially overlapping elemen	Utility	Utility - ORG	Issued	US	May 20, 2008	Aug 26, 2004	Aug 26, 2004	May 21, 2025	10/928,293	7,376,306	Amps Transfer 2013.08.29
OCLR 01459/US	Optical switch	Utility	Utility - ORG	Issued	US	May 22, 2007	Mar 1, 2005	Mar 1, 2005	Jul 19, 2025	11/070,450	7,221,818	Amps Transfer 2013.08.29
OCLR 01462/DE	Tunable single-channel dispersion compensator for high-speed optical systems	Utility	Utility - EPPAT	Issued	DE	Jan 25, 2012	Apr 27, 2005	Apr 26, 2006	Apr 26, 2026	06113143.9	602006027277.4	Amps Transfer 2013.08.29
OCLR 01462/FR	Tunable single-channel dispersion compensator for high-speed optical systems	Utility	Utility - EPPAT	Issued	FR	Jan 25, 2012	Apr 27, 2005	Apr 26, 2006	Apr 26, 2026	06113143.9	1717610	Amps Transfer 2013.08.29
OCLR 01462/GB	Tunable single-channel dispersion compensator for high-speed optical systems	Utility	Utility - EPPAT	Issued	GB	Jan 25, 2012	Apr 27, 2005	Apr 26, 2006	Apr 26, 2026	06113143.9	1717610	Amps Transfer 2013.08.29
OCLR 01462/US	Tunable single-channel dispersion compensator for high-speed optical systems	Utility	Utility - ORG	Issued	US	Feb 3, 2009	Apr 27, 2005	Apr 27, 2005	Jun 4, 2025	11/115,531	7,486,851	Amps Transfer 2013.08.29
OCLR 01463/EP	Optical switch having angle tuning elements and multiple-fiber collimators	Utility	Utility - ORG	Pending	EP		Mar 15, 2006	Mar 9, 2007		07103812.9		Amps Transfer 2013.08.29
OCLR 01463/US	Optical switch having angle tuning elements and multiple-fiber collimators	Utility	Utility - ORG	Issued	US	Oct 23, 2007	Mar 15, 2006	Mar 15, 2006	Mar 15, 2026	11/576,051	7,286,730	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01463/US/N1	Optical switch having angle tuning elements and multiple-fiber collimators	Utility	Utility - CON	Issued	US	Oct 13, 2009	Mar 15, 2006	Mar 15, 2006	Oct 19, 2027	11/875,533	7,603,006	Amps Transfer 2013.08.29
OCLR 01464/US	Virtually imaged phased array (VIPA) having a varying reflectivity surface to improve beam profile	Utility	Utility - ORG	Issued	US	Oct 16, 2001	Jul 26, 1995	Nov 1, 1999	Jul 13, 2018	09/431,206	6,304,382	
OCLR 01464/US/C1	Virtually imaged phased array (VIPA) having spacer element and optical length adjusting element	Utility	Utility - CIP	Issued	US	Nov 7, 2000	Jul 26, 1995	Aug 26, 1998	Jul 24, 2016	09/140,638	6,144,494	
OCLR 01464/US/C2	Virtually imaged phased array (VIPA) having lenses arranged to provide a wide beam width	Utility	Utility - CIP	Issued	US	Jan 2, 2001	Jul 26, 1995	Aug 26, 1998	Jul 24, 2016	09/140,639	6,169,630	
OCLR 01464/US/C3	Virtually imaged phased array (VIPA) having spacer element and optical length adjusting element	Utility	Utility - CIP	Issued	US	Feb 6, 2001	Jul 26, 1995	Jul 7, 1999	Aug 26, 2018	09/552,660	6,185,040	
OCLR 01464/US/C4	Virtually imaged phased array (VIPA) having a varying reflectivity surface to improve beam profile	Utility	Utility - CIP	Issued	US	Feb 22, 2000	Jul 24, 1996	Jul 13, 1998	Jul 13, 2018	09/114,071	6,028,706	
OCLR 01465/US	Optical apparatus which uses a virtually imaged phased array to produced chromatic dispersion	Utility	Utility - ORG	Issued	US	Oct 2, 2001	Dec 14, 1999	Dec 14, 1999	Dec 14, 2019	09/461,277	6,296,361	
OCLR 01465/US/C1	Optical apparatus which uses a virtually imaged phased array to produced chromatic dispersion	Utility	Utility - CIP	Issued	US	Dec 25, 2001	Dec 14, 1999	May 23, 2000	Dec 14, 2019	09/576,541	6,332,689	
OCLR 01465/US/C2	Optical apparatus which uses a virtually imaged phased array to produced chromatic dispersion	Utility	Utility - CIP	Issued	US	Feb 5, 2002	Dec 14, 1999	Dec 4, 2000	May 23, 2020	09/727,450	6,343,866	

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01465/US/D1	Optical apparatus which uses a virtually imaged phased array to produce chromatic dispersion	Utility	Utility - DIV	Issued	US	May 21, 2002	Dec 14, 1999	Dec 14, 1999	Jun 8, 2021	09/875,919	6,390,633	
OCLR 01465/US/D2	Optical apparatus which uses a virtually imaged phased array to produce chromatic dispersion	Utility	Utility - DIV	Issued	US	Nov 12, 2002	May 23, 2000	May 23, 2000	Oct 30, 2021	09/984,607	6,478,433	
OCLR 01465/US/D3	Optical apparatus which uses a virtually imaged phased array to produce chromatic dispersion	Utility	Utility - DIV	Issued	US	Nov 19, 2002	May 23, 2000	May 23, 2000	Dec 19, 2021	10/021,086	6,481,861	
OCLR 01465/US/D4	Optical apparatus which uses a virtually imaged phased array to produce chromatic dispersion	Utility	Utility - DIV	Issued	US	Oct 29, 2002	Dec 14, 1999	May 23, 2000	Feb 27, 2022	10/083,507	6,471,361	
OCLR 01465/US/D5	Optical apparatus which uses a virtually imaged phased array to produce chromatic dispersion	Utility	Utility - DIV	Issued	US	Aug 19, 2003	Dec 14, 1999	Dec 14, 1999	Sep 10, 2022	10/237,681	6,607,278	
OCLR 01465/US/D6	Optical apparatus which uses a virtually imaged phased array to produce chromatic dispersion	Utility	Utility - DIV	Issued	US	Apr 6, 2004	Dec 14, 1999	Dec 14, 1999	Oct 1, 2022	10/260,279	6,717,731	
OCLR 01466/US	Optical phase controller and optical switch	Utility	Utility - ORG	Issued	US	Nov 13, 2001	Dec 21, 1998	Dec 21, 1998	Dec 21, 2018	09/216,984	6,317,526	
OCLR 01467/US	Optical circulator or switch having a birefringent wedge positioned between Faraday rotators	Utility	Utility - ORG	Issued	US	May 1, 2001	Sep 30, 1998	Sep 30, 1998	Sep 30, 2018	09/163,404	6,226,115	
OCLR 01468/EP	Multiport switch for optical performance monitor	Utility	Utility - ORG	Pending	EP		Mar 27, 2006	Mar 22, 2007		07104636.1		Amps Transfer 2013.08.29
OCLR 01468/US	Multiport switch for optical performance monitor	Utility	Utility - ORG	Issued	US	Jul 20, 2010	Mar 27, 2006	Mar 27, 2006	Aug 24, 2028	11/589,812	7,760,972	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01469/US	Self-adjusting optical add-drop multiplexer and optical networks using same	Utility	Utility - ORG	Issued	US	Apr 13, 2004	Dec 5, 2000	Dec 5, 2000	Jun 14, 2021	09730,698	6,721,509	
OCLR 01469/US/D1	Self-adjusting optical add-drop multiplexer and optical networks using same	Utility	Utility - DIV	Issued	US	Mar 21, 2006	Dec 5, 2000	Dec 5, 2000	Dec 5, 2020	10799,050	7,016,610	
OCLR 01475/EP	High extinction ratio liquid crystal optical switch	Utility	Utility - ORG	Pending	EP		Mar 8, 2007	Mar 7, 2008		08152469.6		Amps Transfer 2013.08.29
OCLR 01475/US	High extinction ratio liquid crystal optical switch	Utility	Utility - ORG	Issued	US	Jun 19, 2012	Mar 8, 2007	Jan 15, 2008	Feb 3, 2031	12/014,730	8,203,691	Amps Transfer 2013.08.29
OCLR 01475/US/N1	High extinction ratio liquid crystal optical switch	Utility	Utility - CON	Allowed	US		Mar 8, 2007	May 31, 2012		13/485,052		Amps Transfer 2013.08.29
OCLR 01478/US	A system of method for dynamic range extension	Utility	Utility - ORG	Issued	US	Dec 21, 2010	Mar 16, 2007	Mar 16, 2007	Nov 29, 2028	11/687,444	7,856,037	Amps Transfer 2013.08.29
OCLR 01478/US/D1	A system of method for dynamic range extension	Utility	Utility - DIV	Issued	US	May 8, 2012	Mar 16, 2007	Mar 16, 2007	Mar 16, 2027	12/970,370	8,175,127	Amps Transfer 2013.08.29
OCLR 01479/US	Bidirectional optical amplifier	Utility	Utility - ORG	Issued	US	Dec 3, 2002	Jan 31, 2001	Jan 31, 2001	May 12, 2021	09/773,224	6,490,386	Amps Transfer 2013.08.29
OCLR 01480/US	Manual variable optical attenuator and method	Utility	Utility - ORG	Issued	US	Mar 4, 2003	Jan 31, 2001	Jan 31, 2001	Jan 31, 2021	09/773,854	6,529,673	Amps Transfer 2013.08.29
OCLR 01481/US	Optical fiber clamping apparatus to hold fiber cable while providing retractable	Utility	Utility - ORG	Issued	US	May 25, 2004	Jun 22, 2001	Jun 22, 2001	Aug 9, 2021	09/888,301	6,741,784	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01482/US	Control methods for a metro optical amplifier	Utility	Utility - ORG	Issued	US	Sep 2, 2003	Feb 28, 2001	Feb 28, 2001	Feb 28, 2021	097795,789	6,614,587	Amps Transfer 2013.08.29
OCLR 01483/US	Reconfigurable automatic gain control and method for optical amplifier	Utility	Utility - ORG	Issued	US	Jul 9, 2002	Feb 5, 2001	Feb 5, 2001	Feb 5, 2021	097777,162	6,417,964	Amps Transfer 2013.08.29
OCLR 01484/US	Method and apparatus for latched bimorph optical switches	Utility	Utility - ORG	Issued	US	May 28, 2002	Dec 29, 2000	Dec 29, 2000	Dec 29, 2020	097752,177	6,394,617	Amps Transfer 2013.08.29
OCLR 01485/US	Piezo-actuator based optical add/drop module	Utility	Utility - ORG	Issued	US	Aug 20, 2002	Jan 30, 2001	Jan 30, 2001	Jan 30, 2021	097773,212	6,437,929	Amps Transfer 2013.08.29
OCLR 01486/EP	Dynamic thermal management of laser devices	Utility	Utility - ORG	Pending	EP		May 11, 2007	May 9, 2008		08156030.2		Amps Transfer 2013.08.29
OCLR 01486/US	Dynamic thermal management of laser devices	Utility	Utility - ORG	Issued	US	Mar 31, 2009	May 11, 2007	May 11, 2007	May 11, 2027	11747,728	7,512,162	Amps Transfer 2013.08.29
OCLR 01488/US	Method of determining an optical distance for chromatic dispersion compensation	Utility	Utility - ORG	Issued	US	Dec 20, 2011	May 8, 2008	May 8, 2008	Jul 20, 2030	127117,545	8,081,877	
OCLR 01490/US	System and method for tunable chromatic dispersion compensation	Utility	Utility - ORG	Issued	US	May 24, 2011	Nov 12, 2007	Nov 12, 2007	Nov 22, 2029	11938,754	7,949,257	Amps Transfer 2013.08.29
OCLR 01493/US	Method and apparatus for transparent ethernet multiplexing and demultiplexing	Utility	Utility - ORG	Issued	US	Feb 8, 2011	Oct 23, 2007	Oct 23, 2007	Aug 25, 2029	11877,621	7,885,546	
OCLR 01498/US	Reduction of packet loss through optical layer protection	Utility	Utility - ORG	Pending	US		Jul 15, 2008	Jul 15, 2008		127173,723		

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01503/CNT	Liquid crystal optical switch configured to reduce polarization dependent loss	Utility	Utility - NSPCT	Pending	CN		Apr 30, 2009	Apr 30, 2010		201080030183.1		Amps Transfer 2013.08.29
OCLR 01503/EPT	Liquid crystal optical switch configured to reduce polarization dependent loss	Utility	Utility - NSPCT	Pending	EP		Apr 30, 2009	Apr 30, 2010		10770435.5		Amps Transfer 2013.08.29
OCLR 01503/JPT	Liquid crystal optical switch configured to reduce polarization dependent loss	Utility	Utility - NSPCT	Pending	JP		Apr 30, 2009	Apr 30, 2010		2012-508781		Amps Transfer 2013.08.29
OCLR 01503/US	Liquid crystal optical switch configured to reduce polarization dependent loss	Utility	Utility - ORG	Issued	US	Nov 22, 2011	Apr 30, 2009	Apr 30, 2009	Apr 30, 2029	12/433,769	8,064,036	Amps Transfer 2013.08.29
OCLR 01504/CN	Continuously tunable optical dispersion compensation synthesizers using cascaded	Utility	Utility - NSPCT	Pending	CN		Oct 26, 2007	Oct 24, 2008		200810175009.0		Amps Transfer 2013.08.29
OCLR 01504/EP	Continuously tunable optical dispersion compensation synthesizers using cascaded	Utility	Utility - ORG	Pending	EP		Oct 26, 2007	Oct 27, 2008		08167648.8		Amps Transfer 2013.08.29
OCLR 01504/JP	Continuously tunable optical dispersion compensation synthesizers using cascaded	Utility	Utility - ORG	Issued	JP	May 2, 2013	Oct 26, 2007	Oct 24, 2008		2008-274203	5258505	Amps Transfer 2013.08.29
OCLR 01504/US	Continuously tunable optical dispersion compensation synthesizers using cascaded	Utility	Utility - ORG	Issued	US	Apr 27, 2010	Oct 26, 2007	Oct 26, 2007	Oct 26, 2027	11/977,798	7,706,045	Amps Transfer 2013.08.29
OCLR 01504/US/N1	Continuously tunable optical dispersion compensation synthesizers using cascaded	Utility	Utility - CON	Issued	US	Jul 3, 2012	Oct 26, 2007	Oct 26, 2007	Oct 26, 2027	12/592,812	8,213,073	Amps Transfer 2013.08.29

FILE NUMBER	TITLE	MATTER TYPE	MATTER SUB MATTER TYPE	STATUS	COUNTRY	GRANT DATE	PRIORITY DATE	DATE FILED	EXPIRY DATE	FORMATTED APPLICATION NUMBER	FORMATTED PATENT NUMBER	On Amps list and if so how?
OCLR 01505/US	Analyzing tunable optical filters using tunable source	Utility	Utility - ORG	Issued	US	Apr 6, 2010	Nov 29, 2007	Nov 29, 2007	Sep 13, 2028	11/998,213	7,692,793	Amps Transfer 2013.08.29
OCLR 01506/CN	Fast power transient suppression in constant power-mode controlled optical amplif	Utility	Utility - NSPCT	Pending	CN		Feb 19, 2008	Feb 16, 2009		200910006394.0		Amps Transfer 2013.08.29
OCLR 01506/EP	Fast power transient suppression in constant power-mode controlled optical amplif	Utility	Utility - ORG	Pending	EP		Feb 19, 2008	Feb 13, 2009		09152836.4		Amps Transfer 2013.08.29
OCLR 01506/US	Fast power transient suppression in constant power-mode controlled optical amplif	Utility	Utility - ORG	Issued	US	Jun 14, 2011	Feb 19, 2008	Feb 19, 2008	Apr 13, 2029	12/070,523	7,961,380	Amps Transfer 2013.08.29
OCLR 01510/CNT	Tunable optical filters	Utility	Utility - NSPCT	Pending	CN		Sep 17, 2008	Sep 1, 2009		200980145964.2		Amps Transfer 2013.08.29
OCLR 01511/US	Wavelength division multiplexed systems with optical performance monitors	Utility	Utility - ORG	Issued	US	Sep 27, 2011	Nov 21, 2008	Nov 21, 2008	May 26, 2030	12/513,584	8,027,583	Amps Transfer 2013.08.29
OCLR 01512/FR	Optical delay line	Utility	Utility - ORG	Issued	FR	Sep 5, 2003	Apr 26, 2001	Apr 26, 2001	Apr 26, 2021	20010005614	2824151	
OCLR 01567/US/D1	Deep-well lithography process for forming micro-electro-mechanical structures	Utility	Utility - DIV	Issued	US	Dec 7, 2004	May 24, 2000	May 24, 2001	Dec 21, 2021	10/027,882	6,827,866	
OCLR 01567/US/D2	Pattern-forming process for forming micro-electro-mechanical structures	Utility	Utility - DIV	Issued	US	Jun 14, 2005	May 24, 2000	Oct 18, 2001	Sep 18, 2022	10/028,657	6,905,614	
OCLR 01567/US/N1	Micro-opto-electro-mechanical switching system	Utility	Utility - CON	Issued	US	Nov 8, 2005	May 24, 2000	Dec 21, 2001	Feb 15, 2021	10/035,829	6,963,679	
OCLR 01567/US/N2	Methods for forming an array of MEMS optical elements	Utility	Utility - CON	Issued	US	Mar 13, 2007	May 24, 2000	Oct 18, 2001	Jul 6, 2025	11/176,711	7,190,854	

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OCLR 01568/US	Micro-electro-mechanical variable optical attenuator	Utility	Utility - ORG	Issued	US	Jun 15, 2004	Nov 9, 2001	Nov 9, 2001	Nov 9, 2021	10/010,786	6,751,395	
OCLR 01570/US	Defect detection and repair of micro-electro-mechanical systems (MEMS) devices	Utility	Utility - ORG	Issued	US	Jan 25, 2005	Dec 31, 2002	Dec 31, 2002	May 2, 2023	10/335,352	6,847,907	
OCLR 01571/US	Reconfigurable optical add drop multiplexers with integrated power equalization	Utility	Utility - ORG	Issued	US	May 30, 2006	Mar 10, 2003	Jun 30, 2003	Jun 30, 2023	10/611,162	7,054,519	Amps Transfer 2013.08.29
OCLR 01572/US	Spatial light modulator with hidden comb actuator	Utility	Utility - ORG	Issued	US	Jul 5, 2005	Mar 22, 2003	Mar 22, 2003	Mar 22, 2023	10/594,835	6,914,711	
OCLR 01572/US/C1	MEMS devices monolithically integrated with drive and control circuitry	Utility	Utility - CIP	Issued	US	Mar 21, 2006	Mar 22, 2003	Jun 4, 2004	Jun 4, 2024	10/861,963	7,015,885	
OCLR 01572/US/N1	Methods for fabricating spatial light modulators with hidden comb actuators	Utility	Utility - CON	Issued	US	Jul 4, 2006	Mar 22, 2003	Mar 22, 2003	Apr 6, 2025	11/100,953	7,071,109	
OCLR 01572/US/N2	Light modulator with integrated drive and control circuitry	Utility	Utility - CON	Issued	US	Jul 11, 2006	Mar 22, 2003	Mar 22, 2003	Nov 23, 2025	11/286,075	7,075,701	
OCLR 01572/US/N3	Light modulator with integrated drive and control circuitry	Utility	Utility - CON	Issued	US	May 20, 2008	Mar 22, 2003	Apr 6, 2005	Jun 21, 2026	11/472,954	7,375,874	
OCLR 01579/US/P1	Delay line interferometer with liquid crystal tuning element	Utility	Utility - ORG	Issued	US	Oct 23, 2012	Aug 20, 2010	Aug 20, 2010	Aug 20, 2030	12/860,639	8,294,980	
OCLR 01587/US/P1	Tunable optical filters with liquid crystal resonators	Utility	Utility - ORG	Pending	US		Apr 20, 2011	Apr 20, 2011		13/091,103		Amps Transfer 2013.08.29
OCLR 01587/WO	Tunable optical filters with liquid crystal resonators	Utility	Utility - ORG	Pending	WO		Apr 20, 2011	Apr 19, 2012		US2012/034310		Amps Transfer 2013.08.29
OCLR 01596/CN	Active control of laser temperature	Utility	Utility - NSPCT	Pending	CN		Oct 12, 2010	Feb 1, 2011		201110035711.9		
OCLR 01596/EP	Active control of laser temperature	Utility	Utility - ORG	Pending	EP		Oct 12, 2010	Nov 5, 2010		10190213.8		

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OCLR 01596/GB	Active control of laser temperature	Utility	Utility - ORG	Pending	GB		Oct 12, 2010	Oct 12, 2010		1017159.3		
OCLR 01596/JP	Active control of laser temperature	Utility	Utility - ORG	Pending	JP		Oct 12, 2010	Nov 12, 2010		2010-253972		
OCLR 01596/US	Component temperature control	Utility	Utility - ORG	Pending	US		Oct 12, 2010	Nov 9, 2010		12/942,442		
OCLR 01600/US/C1	Tunable optical filters with multiple ports	Utility	Utility - ORG	Pending	US		Jul 26, 2010	Nov 5, 2010		12/927,066		Amps Transfer 2013.08.29
OCLR 01600/US/C2	Multi-channel optical signal monitoring device and method	Utility	Utility - CIP	Pending	US		Jul 26, 2010	Sep 6, 2011		13/226,275		Amps Transfer 2013.08.29
OCLR 01600/US/C3	Reconfigurable optical add-drop multiplexer	Utility	Utility - ORG	Pending	US		Jul 26, 2010	Mar 2, 2012		13/411,487		Amps Transfer 2013.08.29
OCLR 01600/WO/2	Multi-channel optical signal monitoring device and method	Utility	Utility - ORG	Pending	WO		Jul 26, 2010	Sep 5, 2012		US2012/053753		Amps Transfer 2013.08.29
OCLR 01601/CNT	Tunable pump source	Utility	Utility - NSPCT	Pending	CN		Jan 7, 2011	Jan 6, 2012				
OCLR 01601/EPT	Tunable pump source	Utility	Utility - NSPCT	Pending	EP		Jan 7, 2011	Jan 6, 2012				
OCLR 01601/UST	Tunable pump source	Utility	Utility - NSPCT	Pending	US		Jan 7, 2011	Jul 8, 2013		13/978,705		
OCLR 01601/AWO	Tunable pump source	Utility	Utility - ORG	Pending	WO		Jan 7, 2011	Jan 6, 2012		GB2012/050021		
OCLR 01606/UST	Raman amplifiers	Utility	Utility - NSPCT	Pending	US		Dec 22, 2010	Jun 13, 2013		13/993,809		Amps Transfer 2013.08.29

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OCLR 01606/WO	Combined pulse width modulation and TDM in Raman pump	Utility	Utility - ORG	Pending	WO		Dec 22, 2010	Dec 20, 2011		GB2011/052534		Amps Transfer 2013.08.29
OCLR 01610/WO/UST	Optical Path Switching	Utility	Utility - NSPCT	Pending	US		Feb 23, 2011	Feb 21, 2012		14/000,463		
OCLR 01612/GB/PI	Integrated 14xx pump	Utility	Utility - ORG	Pending	GB		Feb 13, 2012	Feb 13, 2012		1202446.9		
OCLR 01613/GB/PI	OPM for local node control of amplifiers	Utility	Utility - ORG	Pending	GB		Jan 4, 2012	Jan 4, 2012		1200078.2		Amps Transfer 2013.08.29
OCLR 01613/US	Monitoring and Controlling Optical Nodes	Utility	Utility - ORG	Published	US		Jan 4, 2012	Jan 3, 2013		13/733,351		Amps Transfer 2013.08.29
OCLR 01619/CN	Etalon assembly having an all-glass outer housing	Utility	Utility - NSPCT	Pending	CN		Jun 7, 2011	Aug 5, 2011		201110223633.5		Amps Transfer 2013.08.29
OCLR 01619/CN/D1	Optical device assembly having a cavity that is sealed	Utility	Utility - NSPCT	Pending	CN		Jun 7, 2011	Aug 5, 2011		201110223634.X		Amps Transfer 2013.08.29
OCLR 01619/EP	Etalon assembly having an all-glass outer housing	Utility	Utility - ORG	Pending	EP		Jun 7, 2011	Jun 7, 2012		12171204.6		Amps Transfer 2013.08.29
OCLR 01619/EP/D1	Optical device assembly having a cavity that is sealed to be moisture-resistant	Utility	Utility - ORG	Pending	EP		Jun 7, 2011	Jun 7, 2012		12171216.0		Amps Transfer 2013.08.29
OCLR 01619/US	Etalon assembly having an all-glass outer housing	Utility	Utility - ORG	Pending	US		Jun 7, 2011	Jun 6, 2012		13/490,008		Amps Transfer 2013.08.29

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OCLR 01619/US/DI	Optical device assembly having a cavity that is sealed to be moisture-resistant	Utility	Utility - ORG	Pending	US		Jun 7, 2011	Jun 6, 2012		13/490,024		Amps Transfer 2013.08.29
OCLR 01619U/CN	Etaalon assembly having an all-glass outer housing	Model	Model - ORG	Pending	CN		Jun 7, 2011	Aug 5, 2011	Aug 5, 2021	201120283272.9	ZL201120283272.9	Amps Transfer 2013.08.29
OCLR 01619U/CN/DI	Optical device assembly having a cavity that is sealed	Model	Model - ORG	Pending	CN		Jun 7, 2011	Aug 5, 2011	Aug 5, 2021	201120283297.9	ZL201120283297.9	Amps Transfer 2013.08.29
OCLR 01625/US	Embedded optical time domain reflectometer for optically amplified links	Utility	Utility - ORG	Pending	US		Aug 12, 2011	Aug 13, 2012		13/584,531		Amps Transfer 2013.08.29
OCLR 01625/WO	Embedded optical time domain reflectometer for optically amplified links	Utility	Utility - ORG	Pending	WO		Aug 12, 2011	Aug 13, 2012		US2012/050625		Amps Transfer 2013.08.29
OCLR 01627/CN	Multicast optical switch	Utility	Utility - ORG	Pending	CN		Feb 7, 2012	May 21, 2012		201210157560.9		Amps Transfer 2013.08.29
OCLR 01630/US/PI	Multicast optical switch	Utility	Utility - ORG	Pending	US		Feb 7, 2012	Feb 7, 2012		13/368,254		Amps Transfer 2013.08.29
OCLR 01630/GB/PI	Raman depolarising combiner	Utility	Utility - ORG	Pending	GB		Aug 20, 2012	Aug 20, 2012		1214830.0		Amps Transfer 2013.08.29
OCLR 01630/AO	Raman depolarising combiner	Utility	Utility - ORG	Pending	WO		Aug 20, 2012					
OCLR 01631/GB/PI	Laser with span-fibre depolariser	Utility	Utility - ORG	Pending	GB		Mar 14, 2012	Mar 14, 2012		1204439.2		Amps Transfer 2013.08.29

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OCLR 01632/GB/PI	Fibre amplifier with single integrated FBG	Utility	Utility - ORG	Pending	GB		Feb 24, 2012	Feb 24, 2012		1203270.2		Amps Transfer 2013.08.29
OCLR 01636/GB/PI	Metrology in Raman amplifiers	Utility	Utility - ORG	Pending	GB		Jun 29, 2012	Jun 29, 2012		1211559.8		Amps Transfer 2013.08.29
OCLR 01636/WO	Metrology in Raman amplifiers	Utility	Utility - ORG	Pending	WO		Jun 29, 2012	Jul 1, 2013		GB2013/051741		
OCLR 01644/US/PI	Multipoint tunable optical filters	Utility	Utility - ORG	Pending	US		Oct 29, 2012	Oct 29, 2012		13/662,797		Amps Transfer 2013.08.29
OCLR 01645/US/PI	Heated ribbon erbium doped fibre	Prov	Prov - ORG	Pending	US		Nov 26, 2012	Nov 26, 2012		61/729,944		Amps Transfer 2013.08.29
OCLR 00813/US	Tunable spectral filter	Utility	Utility - ORG	Issued	US	May 10, 2005	Jan 10, 2003	Jan 10, 2003		10/340,219	6,891,676	

EXHIBIT B

Trademark	Description
Oasis	Common law trademark. Use for controlled optical amplifier.