OP \$215.00 4246377

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 ETAS ID: TM300088

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Security Agreement

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
OCLARO, INC.		03/28/2014	CORPORATION: DELAWARE
OCLARO TECHNOLOGY, INC.		03/28/2014	CORPORATION: DELAWARE
OCLARO (NORTH AMERICA), INC.		03/28/2014	CORPORATION: DELAWARE
MINTERA CORPORATION		03/28/2014	CORPORATION: DELAWARE
OPNEXT, INC.		03/28/2014	CORPORATION: DELAWARE
PINE PHOTONICS COMMUNICATIONS, INC.		03/28/2014	CORPORATION: DELAWARE
OPNEXT SUBSYSTEMS INC.		03/28/2014	CORPORATION: DELAWARE
BOOKHAM NOMINEES LIMITED		03/28/2014	COMPANY: UNITED KINGDOM
OCLARO TECHNOLOGY LIMITED		03/28/2014	COMPANY: UNITED KINGDOM
OCLARO INNOVATIONS LLP		03/28/2014	COMPANY: UNITED KINGDOM

RECEIVING PARTY DATA

Name:	Silicon Valley Bank
Street Address:	2400 Hanover Street
City:	Palo Alto
State/Country:	CALIFORNIA
Postal Code:	94304
Entity Type:	CORPORATION: CALIFORNIA

PROPERTY NUMBERS Total: 8

Property Type	Number	Word Mark
Registration Number:	4246377	OCLARO
Registration Number:	2841522	DYNAMIC OPTICS
Serial Number:	85686982	
Registration Number:	2143922	BOOKHAM
Registration Number:	3009137	OPNEXT
Registration Number:	2891530	OPNEXT
Registration Number:	3499718	WE LIGHT IT UP TRADEMARK

900284921 REEL: 005250 FRAME: 0024

Property Type	Number	Word Mark
Registration Number:	3275755	OPTOMOD

CORRESPONDENCE DATA

Fax Number: 8004947512

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Phone: 2023704761

Email: ipteam@nationalcorp.com

Correspondent Name: Thomas Fahey

Address Line 1: 1025 Vermont Avenue NW, Suite 1130 Address Line 2: National Corporate Research, Ltd.

Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

ATTORNEY DOCKET NUMBER:	F149178
NAME OF SUBMITTER:	Laura A. Kenerson
SIGNATURE:	/Laura A. Kenerson/
DATE SIGNED:	04/02/2014

Total Attachments: 20

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this "Agreement") is entered into as of March 28, 2014 by and among (i) SILICON VALLEY BANK ("Bank") and (ii) each Person listed on the signature page hereof as a grantor (individually and collectively, jointly and severally, the "Grantor").

RECITALS

- A. Bank has agreed to make certain advances of money and to extend certain financial accommodations (the "Loans") to OCLARO, INC., a Delaware corporation ("Parent") and OCLARO TECHNOLOGY LIMITED, a company incorporated under the laws of England and Wales ("Borrower") pursuant to the terms of that certain Loan and Security Agreement, dated as of the date hereof (as may be amended, restated, or otherwise modified from time to time, the "Loan Agreement"); capitalized terms used herein are used as defined in the Loan Agreement). In connection therewith, Bank and certain of the Grantors have executed and delivered to Bank that certain Guarantor Security Agreement (the "Security Agreement"), each dated as of the date hereof. As a further condition to the Bank making the Loans to Borrower, Bank has required that Grantor grant to Bank a security interest in certain Copyrights, Trademarks, Patents, and Mask Works (as each term is described below) to secure the obligations of Grantor under the Loan Agreement and the Security Agreement, as applicable.
- B. Pursuant to the terms of the Loan Agreement and the Security Agreement, as applicable, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.
- NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement and/or the Security Agreement, as applicable, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Loan Agreement and/or the Security Agreement, as applicable, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its registered and unregistered intellectual property (all of which shall collectively be called the "Intellectual Property Collateral"), including, without limitation, the following:

- 1. Any and all copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those copyright registrations and applications set forth on Exhibit A attached hereto (collectively, the "Copyrights");
- 2. Any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;
- 3. Any and all design rights that may be available to Grantor now or hereafter existing, created, acquired or held;
- 4. All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the

same, including without limitation the registered patents and patent applications set forth on Exhibit B attached hereto (collectively, the "Patents");

5. Any trademark and servicemark rights, slogans, trade dress, trade names and trade styles, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those registered trademarks and applications set forth on Exhibit C attached hereto (collectively, the "Trademarks");

6. [Reserved];

- 7. Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;
- 8. All licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use to the extent permitted by such license or rights, including, without limitation those set forth on Exhibit D hereto (collectively, the "Licenses");
- 9. All amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and
- 10. All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement and/or the Security Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement, the Security Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement, the Security Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Agreement, the Loan Agreement, the Security Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Grantor authorizes and requests that the Register of Copyrights, the Commissioner of Patents and Trademarks, the Canadian Intellectual Property Office, and any applicable intellectual property registry or similar agency in any applicable jurisdiction record this IP Agreement and any amendments hereto, or copies thereof.

[Signature page follows.]

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:

c/o Oclaro Technology Limited 2560 Junction Avenue San Jose, CA 95134 Attn: Pete Mangan - fax (408) 435-5025 email pete.mangan@oclaro.com David Teichmann - fax (408) 904-4913

email david.teichmann@oclaro.com OCLARO, INC. OCLARO TECHNOLOGY, INC. Pete Mangan Chief Financial Officer President, Treasurer and Secretary OCLARO (NORTH AMERICA), INC. MINTERA CORPORATION Pete Mangan Chief Executive Officer, Chief Financial Officer President, Chief Financial Officer and Secretary and Secretary OPNEXT, INC. PINE PHOTONICS COMMUNICATIONS, INC. Pete Mangan Chief Executive Officer, President, Chief Financial Pete Mangan Officer and Secretary President, Treasurer and Secretary OPNEXT SUBSYSTEMS INC. **BOOKHAM NOMINEES LIMITED** By:_ Pete Mangan James Haynes President, Chief Financial Officer and Secretary Director

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

Address of Grantor:

GRANTOR:

c/o Oclaro Technology Limited 2560 Junction Avenue San Jose, CA 95134 Attn: Pete Mangan - fax (408) 435-5025 email pete.mangan@oclaro.com David Teichmann - fax (408) 904-4913 email david.teichmann@oclaro.com	
OCLARO, INC.	OCLARO TECHNOLOGY, INC.
Ву:	Ву:
Pete Mangan	Pete Mangan
Chief Financial Officer	President, Treasurer and Secretary
OCLARO (NORTH AMERICA), INC.	MINTERA CORPORATION
Ву:	By:
Pete Mangan	Pete Mangan
Chief Executive Officer, Chief Financial Officer and Secretary	President, Chief Financial Officer and Secretary
OPNEXT, INC.	PINE PHOTONICS COMMUNICATIONS,
Ву:	INC.
Pete Mangan	Ву:
Chief Executive Officer, President, Chief Financial	Pete Mangan
Officer and Secretary	President, Treasurer and Secretary
OPNEXT SUBSYSTEMS INC.	BOOKHAM NOMINEES LIMITED
By:	By: 1 amo Harres
Pete Mangan	James Haynes
President, Chief Financial Officer and Secretary	Director

OCLARO TECHNOLOGY LIMITED	OCLARO INNOVATIONS LLP
By James Nappers.	By Oclaro Inc., its member
James Haynes Director	By: Pete Mangan Chief Financial Officer
	By Oclaro (North America) Inc., its member
	By: Pete Mangan Chief Executive Officer, Chief Financial Officer and Secretary
	BANK:
Address of Bank:	SILICON VALLEY BANK
Silicon Valley Bank 2400 Hanover Street Palo Alto, CA 94304 Attn: Ryan Edwards Email: redwards@svb.com	By: Name: Title:

OCLARO TECHNOLOGY LIMITED	OCLARO INNOVATIONS LLP
By	By Oclaro Inc., its member By: Hoto I Manuary Pete Mangan Chief Financial Officer By Oclaro (North America) Inc., its member By: Hoto I Manuary Pete Mangan Chief Executive Officer, Chief Financial Officer and Secretary
Address of Bank:	BANK: SILICON VALLEY BANK
Silicon Valley Bank 2400 Hanover Street Palo Alto, CA 94304 Attn: Ryan Edwards Email: redwards@svb.com	By: Name: Title:

OCLARO TECHNOLOGY LIMITED	OCLARO INNOVATIONS LLP
Ву	By Oclaro Inc., its member
James Haynes	By:
Director	Pete Mangan
	Chief Financial Officer
	By Oclaro (North America) Inc., its member
	Ву:
	Pete Mangan
	Chief Executive Officer, Chief Financial Officer and Secretary
	BANK:
Address of Bank:	SILICON VALLEY BANK
	Mh-h-
Silicon Valley Bank	Ву:
2400 Hanover Street	Name: Man Edward
Palo Alto, CA 94304 Attn: Ryan Edwards	Title: / /P
Atui. Kyan Euwarus	

Email: redwards@svb.com

EXHIBIT A

Copyrights

None

SVI-143376v1

EXHIBIT B

Patents

(Attached)

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Oclaro Technology Limited	Octaro Technology Limited	Octaro Technology Limited	Oclaro Technology Limited	Ociaro Technology Limited	Oclaro Technology Limited	Oclaro Technology Umited	Ociaro Technology Limited	Ociaro Technology Limited	Ociaro Technology Limited	Uctaro Technology Limited	Charo Lecthology Umited	Caro recinology Limited	Original Technology Challeng	Orien Technology Links	Oriano Technology I instead	Oclaro Technology Limited	Oclaro Technology Limited	Octaro Technology Limited	Oclaro Technology Limited	Ociaro Technology Limited	Oclaro Technology Limited	Oclaro Technology Limited	Ociaro Tochnology Limited	Oclaro Technology Limited	Octaro Technology Limited	Ociaro Technology Limited	Ortato La Disciola Ciliado	Orien Technology Limited	Orbin Technology Links	Octam Tachnology I be and	Octaro (North America) inc	Ociaro Tachnolpey I imitad	Oclaro Technology Limited	Ociaro Technology Limited	Annual Contractor of Street	Orien Technology Limited	Orlan Technology Ciming	Octavi recimonary umited	Octaro Technology Limited	Ociaro Lectinology Limited	Order Technology Umraed	Octava reculosoft united	Octaro recinciogy Limited	Ociaro Technology Limited	Octaro Technology Limited	Oclaro Technology Limited	Octaro Technology Limited	Oclaro Technology Limited	Octaro Technology Limited	Ociaro Technology Limited	Ociaro Technology Limited	Oclaro Technology Limited	Ociaro Technology Limited	Uciaro Technology Limited	Ociaro Technology Limited	Oclaro Technology Limited	Ociaro Technology Limited	Octaro Tachnology Limited	Certio Lectionary Limited
Strongly complex coupled OFB lasers series	Etching of Indium phosphide materiels for microelectronics fabrication	Washingth monitoring and control accomply for What a start straight systems	Wavelength monitoring and control assembly for WOM on the li-	Configurable chim Mach Zehnder ontical modulator	Configurable chirp Mach-Zehnder optical modulator	Configurable chirp Mach-Zehnder optical modulator	Thin film resistor for optice lectronic integrated circuits	Coupling of strongly and weakly guiding waveguides for compact integral 4 42	Multi-wavelength gain coupled distributed feedback laser array with fine timebile.	Semiconductor modulator with a 2-2 shift	Chirp control of a Mach Zehnder optical modulator using nonequal power splitting	Gain coupled DFB laser with index coupling compensation	Method of reducing the thermally induced shift in emission wavelength	memod for the hybrid integration of discrete elements on a semiconductor substrate	Control of the Contro	Direct services of the control of th	Herman's external Shee food the court			Improvements in prostal substanta appropria	Oirect amplitude modulation of Javers	Electro absorption optical modulators	Electro absorption optical modulators	Semiconductor etching process	Superimposed grating WDM tunable taxers	Electro-optic modulator with continuously adjustable chira	Method for integrating optical devices in a single epitaxial growth step	Re-circulating optical pulse generator	Current timed MachiZehnder optical attenuator	Constanting	Trees, GScipia Man Canadion	What to strong stripper for integrated optical components	Minimal de la	Enhanced link operation of directly modulated lawars using agricultural modulated	nyong continement layers of buried heterostructure semiconductor laser	ciecupae termination for reduced local heating in an optical device	Electrode termination for reduced local heating in an optical device	Optical fiber termination	Method of etching patterns into epitaxiai material	Methods for making patterns in radiation sensitive polymers	Epitaxially grown avalancing photodiode	Alignment method for semiconductor optical devices upon carriers	Photodetector with spectrally extended responsivity	Supporting structure for fiber failing and submicron fine alignment	Ittanium nitride diffusion barrier for use in non-silicon technology	Glass fiber finative and fixing process	Fibre termination compound graded index leases	Design of waveguide tapers with nonlinear taper profile	SOG Frequency Locker	50G Frequency Locker	Control for a tunable laser	Photonic encoder	Photonic encoder	Photonic integrated device	Photonic integrated device	Optical coding system	Optical coding system	Optical coding system	Optical coding system

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Avanex Corporation	Avanex Corporation	Avanex Corporation	Ociaro Technology Limited	United Lechnology Limited	Colaro Lecritorogy Charled	Charles and Company Commen	Defam Tachmakan Linkad	Odaro Technology Limited	Ociaro Phonetonics (imperfect)	OTI/Leughborough	Octaro Technology Limited	Cours reconsistly Limited		Origina Technology Classed	Octaro Technology (Imited	Ociaro Technology Umited	Octaro Technology Limited	Bookham Technology, PLC	Ochro Technology Umited	Bookham Technology, PLC	Bookham Technology, PLC	Cours Lechnology Limited	Committee the state of the stat	Ocean Lectionary Transco	Charles rectinology, PLC	Bookhan Tachmology, Put.	Bookhan Tashasian are	Octaro Technology I Instead	Bookham Technology PIC	Bookham Technology, PIC	Bookham Technology, PLC	OCLARO TECHNOLOGY PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Beokham Technology, PLC	Bookham Tachnology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Boekham Technology, PLC	Bookham Technelogy, PLC	Beokham Technology, PLC	Bookham Tachnology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC	Bookham Technology, PLC		_		Bookham Technology, PLC	BT, PLC (Imperfact)	Bookham Technology, PLC	Bookham Technology, PLC	
Ociaro (North America), inc.	Oclaro (North America), Inc.	Octaro (North America), Inc.	Oclaro Technology Limited	Ociaro Technology Limited	Octaro Technology Limited	Uciaro Technology Limited	Ociaro recinology Limited	Orbital Tarker Inc.	Deitm Bhostonian In-	Ociaro Technology Limited	Oclaro Technology Limited	Oclaro Technology Umfted	Uclaro Technology Limited	Charo recundedy Limited	Octavo recompany Limited	Orland Tachardan Commen	Oclaro Technology I imitad	Octaro Technology Limited	Octaro Technology Limited	Ociaro Technology Limited	Oclaro Technology Limited	Octaro Technology Umited	Octaro Technology Limited	Octaro Technology Limited	Ociaro Tochnology Limited	Octaro Technology Limited	Ociaro rechnology Umited		Order Technology Connec	Ochra Tarbarionsy Dinner	Original Technology Limited	Octam Technology Limited	Oclaro Technology Limited	Ociaro Technology Limited	Octaro Technology Umited	Octaro Technology Limited	Ociaro Technology Limited	Ociaro Technology Limited	Octaro Technology Limited	Oclaro Technology Limited	Oclaro Technology Limited	Oclaro Technology Limited	Oclaro Technology Limited	Octaro Technology Limited	Oclaro Technology Limited	Ociaro Technology Limited	Oclaro Technology Limited	Oclaro Technology Limited	Ociaro Technology Limited	Ociaro Technology Limited	Ociaro Technology Limited	Orlaro Technology Limited	Ociaro Technology Limited	Ociaro Technology Limited	Ociaro Technology Limited	Octaro Technology Limited	Ociaro Technology Limited	Oclaro Technology Limited	Octaro Technology Limited	Octaro Technolegy Limited	Oclaro Technology Limited	
Optical mode filter	Model field converter for a highly effections counting in optical modules	Model field convertes for a birth and or other laterates (yorks)	Power and phase entraffration by the of the line of th	Optical waveguide anamements committee on sovietant transfer its	Reduced length optoelectronic devices	Optical feedthrough for package length reduction	Reduction of non-linear penalties	Cuantum Well laser with a composition-graded interface at the quantum well.	CHARLES TO COULD I SOURCE MON	Contract Movement Montor		Optical chips and devices for optical communications	Removable waveguide test features	Tunable laser (8 canched Sirn Jill, C-H, band)	Improved optical waveguide splitters	LINE CHARD ITERATION for optoelectronic applications	The second of optometry one optications			Micro beam splitter assembly	Balanced DBR laser erating strangths & bhassails	Biges grating structure	OBR laser with level model gain (Olshed OBR)	Siatted chirped grating for DBR laser	Brack reflector grating	Directly-modulated diode lasers with reduced overshoot	Appdized binary grating (Tooth extraction apodization)	Appdized binary grating (Tooth extraction apodization)	Simplified digital MZ control	Symplified digital MZ control	An opioelectric subassembly	A support structure for an optical device	A nimon change with papeout tab based latching/delatching mechanism	Orthodistric module with a semiconaurior asser device	Ottical power montroine for a seed and in the seed	Outleaf subassembly for a semicondinate in an optical subassembly	Alignment of antical company and in		•	Optical/electrical models	1	Optical/electric module	Optical/electric module	Component interconnect apparatus	Optical/electrical module	Radially systematical proposition and interest	High-speed tr-package external investmentaling actuator	Tansseiver modelle with annual delication	Discrete annuals string and annual string and annual string and annual string and annual string and annual string	Lens system and anthologically alicenses	Optical/e lactrical mondaile	Optical/electical modula	Novel polarization rotator design and most of for most being integration	۲.	MEN'S thermal actuator	Laser structure with large poting superiority			Optical filtering method and device	Manajahirahir internetal kirk amadusation laser system	Promiser and anythic and another and advisor to	

Optical NRZ-RZ format converter Optical differentiator description	Ociaro (North America), inc. Ociaro (North America), inc.	Avanex Corporation	Avanex	Issued	6,628,855	09/787,892	۶	OCIA 01094/US
Edge-emitting semiconductor tunable laser	Ociaro (North America), inc.	Avanex Corporation	Avanex	is upon	6,625,338	09/852,175	S	OCLR 01092/US
integrated laser with Perot-Fabry cavity	Ociaro (North America), Inc.	Avanex Corporation	Awarrex		6,865,146	10/089.569	S	OCLR 01091/US
Semiconductor optical companient	Ociaro (North America), inc.	Avanex Corporation	Avanex	Sued	7066 130	109/627 540	5 8	OCLR 01090/US
Optical cavity reconsting over a continuous for resemptating a wavelength-division my	Octaro (North America), Inc.	Avanex Corporation	Avanex	issued	6,795,623	10/265,618	5 E	OCLR 0108B/US
Nethod of stripping an optical fiber	Octaro (North America), inc.	Avanex Corporation	Avanex	issued	6,609,839	09/411,228	5	SO/980TO X DO
Passive compensating coupling laser device	Oclaro (North America), Inc.	Avanex Composition	Avanex	suced	6,763,872	10/117,997	5	OCLR 01085/US
Semiconductor optical component and a method of fabricating it	Ociaro (North America), Inc.	Avanex Corporation	Average	issued	7.054,527	10/221, 376	G	OCLR 01084/US
Optical amplifier device	Octaro (North America), inc.	Avanex Corporation	Avanex	Suped	6,777,768	10/233.398	ន	STATEROTO NICO
Additional desires with the second	Ociaro (North America), Inc.	Avanex Corporation	Avanex	ssued	6,807,341	707,207,007	ī 8	OCLR 01087/115
Marrith's control common of microstructured elements	Ociaro (North America), inc.	Avanex Corporation	Avanex	boussi	7,298,943	10/527,621	F 5	OCT OTOROVIE
Focusing device	Octaro (North America), Inc.	Avanex Corporation	Avanex	issued	6,255,724	09/297,042	8	OCIR DISTRICT
Birefringence trimming of integrated optical devices by elevated heating	Octaro (North America), inc.	Avanex Corporation	Avanex	Ssuad	7,173,767	10/536,672	5	OCL# 01076/US
Temperature stabilization of a predistorter with voltage supply	Oclaro (North America), Inc.	Avanex Corporation	ABRIEN	iscuad Liberal	7,010,198	10/714,444	S	OCLR 01075/US
Micro-optic device with means for precisely positioning micro-optic commonents	Oclaro (North America), Inc.	Avanex Corporation	Avanex	is is a	6,232,817	09/352,792	5 1	OCI 8 01065/US
Temperature stabilization of a projector and an optical fiber	Oclaro (North America), inc.	Avanex Corporation	Awanex	bonssi	718,005,0	050/555/50	S 8	OCIR 01063/US
Arrangement consisting of a better that a wavelength monitor	Oclaro (North America), Inc.	Avanex Corporation	Ауалех	sued	6,524,017	09/840,051	F 5	OCLR 01067/US
Submount, electronic assembly and process for producing the same	Octavo (North America), Inc.	Avanex Corporation	Avanex	Issued	6,549,549	E97,78,763	5	SOUR DEDECT (III
interferometric semiconductor laser with low-loss coupling of light therefrom in a	Octaro (North America), Inc.	Avanex Corporation	Avanex	issued	6,479,759	09/906,849	8	OCLR 01.059/US
Optically pumped bistable laser	Ociaro (North America), inc.	Avanex (imperient)	Avaney	is in	5,995,530	08/762,118	S	OCLR 01057/US
Semiconductor laser module	Ociaro (North America), inc.	Avanex Corporation	Avanex		5.544.197	08/405,539	5	OCIR 01052/US
Photonic component with electrical conduction component	Ociaro (North America), inc.	Avanex Corporation	Avanex	Patres	6,1118,4//	8 26.30 11.25	<u> </u>	OCLR 01051/GB
Mornithis integrated and method for stabilizing its temperature	Octaro (North America), Inc.	Avanex Corporation	Avanex	banss	5,862,168	555 700/BC	ī 8	OCLR 01050/US
Ontoelectronic module and method for stabilizing its temperature	Octaro (North America), Inc.	Avanex (Imperfect)	Avanex	Issued	6,528,329	659'510/01	ā 8	OCLR 01048/US
Optical control of the control of th	Ociaro (North America) inc	Avanex Corporation	Avanex	ssued	6,359,330	10/017,722	ī 5	OCER DIDAT/DE
evalance photodiode apparatus biased with a modulating power signal	Octaro (North America) in-	Avanex Corporation	Avanex	penss	961371	98440107.5	9	OCH CINA MIS
Optical semiconductor component with deep ridged waveguide	Ociaro (North America), inc.	Avanex (imperfect)	Avanex	issued	5,721,424	660,867	ß	OCH DIOMS/US
Optical hybrid switch with electrooptically active waveguide structure formed inf	Octaro (North America), inc.	Avanex Corporation	Avanex	Panss	5,933,562	09/029,195	S	OCIR 01044/US
Monolithic integrated optoelectronic semiconductor component and process for inwa	Ociaro (North America), inc.	Avanex (imperfect)	Avanex	Sued	5,465,310	08/228,085	댦	OCLR 01043/US
Operating point adjustment for a glode of a glode network by means of voltage in	Ociaro (North America), Inc.	Avanex Corporation	Avanex	Sauced	5,889,902	08/800,949	54	OCUR 01041/US
lace for generating an optical comb	Ocharo (North America), Inc.	Avanex Corporation	AVanex	SSUEO	6 323 726	09/347,448	5	OCLR OID40/US
Semiconductor on the lampinger	Ociaro (North America), Inc.	Avanex (Imperfect)	Avanex	ssued	5,582,531	09/110 719	S 8	OCLR 01038/US
Multi-section electro-optical monolithic component	Octaro (North America), inc.	Avanex Corporation	Avanex	penss	6,751,015	10/110,378	7 S	OCLR 01037/US
Regenerator with reconstitution of an optical signal center wave	Order (North America), inc.	Avanex Corporation	Avanex	issuod	6,236,794	09/327,533	ទ	OCIR 01031/US
Vertical cavity laser emission component that emits via the surface at a neared	Octaro (North America), Inc.	Avanex (imperact)	Avanex	issued	6,498,671	10/009,177	동	OCIR 01030/US
Optical waveguide transition and method of fabricating it	Oclaro (North America), inc.	Avanex Corporation	Augreta	la supplication of the sup	5,809,051	08/717,000	S.	OCLR 01029/US
Optical waveguide transition and method of fahricaring is	Oclaro (North America), inc.	Avanex Corporation	Avanex		2.653.646 000-000	08/378.278	ا ج	OCLR 01028/US
ntegrated control component	Ociaro (North America), Inc.	Avanex Corporation	AWanex	Dentss	0,411,703	95400151 7		CCLR 01028/GBE
Integrated on the Integrated	Octaro (North America), inc	Awares Corporation	Avanex	bsued	1003254	99402335.1	5 8	OCLR 01027/US
Optical device for reducing temperature related shift	Octaro (North America) inc	Avanex Corporation	Avanex	ssued	5,943,459	08/531,547	3 5	SO/97010 MICO
All-optical high bit-rate multiplexer	Octaro (North America), inc.	Avanex Corporation	Avanex	banss	6,925,231	10/434,064	5	OCIR DIDZ4/US
Optical module and a method for manufacturing an optical module	Ociaro (North America), inc.	Avanex Corporation	Avanex	banss	7,035,542	10/067,933	53	OCIR 01023/US
Spherical lens and optoelectronic module comprising the same	Ociaro (North America), Inc.	Avanex Corporation	Avanez	issued	6,950,575	10/463,596	5	SOLYZOTO BES
Wavelength stabilization monitor and method for adjusting the working wavelength	Octaro (North America), inc.	Avanex Corporation	Kathew	i super	6.879.621	10/155,981	5	SG/020to 8/DO
Birefringence-free passive optical component	Ociaro (North America), inc.	Avanex Corporation	Keneve	SSUED	6621 837	GB/840.273	S :	SO/8Toto aroo
Method of forming a tandeonductor component	Ociaro (North America), Inc.	Avanex Corporation	Avanex		0,0/2,703	200,030 (00	S 1	OCLR 01015/US
Method of extending the capture range of a wavelength monitor and a wavelength in	Oclaro (North America), inc.	Avanex Corporation	Avanex	_	587,088,0	10/320,480	5. 5	OCIR O1013/US
Method of extending the profits module and optical module	Octaro (North America), Inc.	Avanex Corporation	Avanex		1185005	90/6237.6	; e	OCLR O1011/US
Optical waveguide phase shifter	Octaro (North America), inc.	Avanex Corporation	Avanex	_	6,974,719	10/309,087) S	OCIR OTDOS/OS
Copianar waveguide with a low chracteristic impedance on a silicon substrate usi	Ociaro (North America), Inc.	Avanex Corporation	Avanex			10/326,614	S	OCLR DIDOS/US
<u>loint between fibre and support with cold weld for an optical module</u>	Ociaro (North America), inc.	Awanex Corporation	Braner		_	10/115,975	S	OCLR O1006/US
		Attack S-Lands-	Appeau	Sued	7,035,522	10/067,776	ទ	FO Thomas uras

	OCLR 01186/US	OCIR 01185/115	OCIR 011847US	SIN CERT CONTROL	OCLR 01182/US	OCTR 01181/02	OCIR 01181/GBE	OCLR 01 180/US	OCLR 01179/US	QQR 01178/US	OCLR 01177/US	OCIR 01176/US	OCLR 01175/US	OCLR 01173/US	OCIR 01172/us	OCLR 01171/US	Sn/02/110 kroo	OCLR 01169/US	OCIR DI 166/1/6	SO/DETTO WITH	SOLECTION TO	OCIR 01352/US	OCIR 01149/US	UCJR 01147/US	OCLR 01145/US	OCIR 01144/US	OCLR 01143/US	OCIR 01142/US	OCLR 01141/US	OCLR 01140/US	OCLR 01139/US	OCLR 01138/US	OCLR 01138/GB	OCLR 01136/US	OCI R OTTAMOR	OCIR 01133705	SO POTTONIO	OCJR 01126/US	OCIR 01125/US	OCUR 01124/US	OCUR 01119/US	OCLR 01 116/US	OCIR DI 115/15	SOVETITION	SOLUTION DO	OCLR 01109/US	OCLR 01.108/US	OCLR 01107/US	OCLR 01106/US	OCLR 01103/US	OCLR 01102/US	OCLR 01101/US	OCI R 011097/GBE	STREET STORY	OCLR 01095/US
6	5 5	F 8	Ē (5	5	E	2	8	Ë	S	5	S	E	S	5	5	5	ā 5	ī 5	; ;	8	듄	동	S	S	25	5	5	S	5	5 ;	5 8	ខ្លួ	ī, S	F 5	; ;	5	S	55	S	S (5 8	÷ 2	ន	55	5	ន	5	5 1	5 8	F 8	3 5		: E	E
001,000,00	901,086/80	20/25/25/20	2004000	09/191 204	09/167 745	08/735.490	94401188.1	08/382.510	080.086/80	08/574.687	08/627 492	08/679,120	08/310.639	08/099,842	09/781.275	09/669.617	09/789.826	79/650 737	10/536,907	09/447,296	09/443,454	09/464,389	09/411,981	09/410,052	09/256,307	09/149,656	09/188,222	09/148,187	09/186.417	09/102 655	08/931,827	757 250/00	QR4000544.7	09/148,480	10 10 10 100 10 10 10 10 10 10 10 10 10 10 10 10 10 1	09/028,816	09/010,059	08/822,642	09/021,997	08/847,629	08/691.327	086,200,000	0.75E00395	08/409,581	10/442,966	10/110,191	10/207,887	10/079.875	10/414 157	10/066 641	10/07/03,133	10/190,700	2291048.3	10/178,539	10/059,436
3,914,478	6,107,113	6,181,848	ETC'ten's	6 19 700 B	718 6317	5 680 411	0627758	5 581 577	5 525 541	5 792 100	SAL CERS	5.748.660	5,727,096	S 383 208	6 495 860	P30 78E 9	0 E B E B E 9	/,643,207	6,256,426	6,253,009	6,215,935	6,334,005	6,208,794	6,310,719	6,064,585	6,128,425	6,197,625	6,035,078	6.197.814	6.029 954	6 103 010	988698	6,148,025	6,040,246	8E6'090'9	6,093,939	6,081,631	6,584,807	5,978,129	5,920,419	3,714,60	5,587,272	729042	5,707,890	6,853,073	6,894,833	7.158 725	6.822.981	6 744 041	7,6,0,6,0	6,807,212	6,736,554	1253462	6,788,149	6,807,357
ssued	pense	bauss	SSUEC	as ced	200				1 000						90			SSUEC	perussi	ssued	benss	panta	penss	panss	ssued	issued	Supple	benes	1000		Series Constitution	penss	penss	issued	penss	issued	issued	benssi	penesi	pansi	Sued	Suad	penss	Issued	issued	is sued		i constant	SSUED	Danss	Denss	banss	issuad	banss	issued
Avanex	Avanex	Avanex	Avanex	XBREVA	XBUEAN	A STREET	Avanas	Avanex	Avantax	Xeneva	XBUEAN	Average	XBUEAN	XWIEN	Meriena	Xeneva	AVanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avaney	Avarian	XBUEAR	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Xanev	Avanex	Avanex	Avanex	Avanex	XBUEAY	Avanex								_	_	Avanes
Avanex (Imperfect)	Avanex (Imperfect)	Avanex (Imperfact)	Avanex (Imperfect)	Avanex (Imperfect)	Avanex (imperfect)	Assuex Corporation	Avanex (mperrect)	Avanex (imperiect)	Avanex (Imperfact)	AVanex (imperfect)	Avanex (imperfect)	Avanex (impenent)	AVanex (imperfect)	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex (Imperfect)	Avanex Carporation	Avanex Compostion	Avanex Corporation	Avance Composition	Avanex Corporation	Avanex Corporation	Avanex Corporation	Awarex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex (Imperfect)	Avanex Composition	Avanex (Imperact)	Avanex (Imperfect)	Avanex (Imperfect)	Avanex Corporation	Avanex (imperfect)	Avance Compation	Avanex Composition	_			Avansx Corporation	_	_		_	Avanex Corporation
Oclaro (North America), inc.	Ociaro (Nerth America), inc.	Oclaro (North America), Inc.	Octaro (North America), inc.	Ociaro (North America), inc.	Oclaro (North America), Inc.	Ociaro (North America), inc.	Ociaro (North America), inc.	Ociaro (North America), Inc.	Ociaro (North America), inc.	Oclaro (North America), Inc.	Ociaro (North America), inc.	Oclaro (North America), Inc.	Ociaro (North America), Inc.	Oclaro (North America), Inc.	Oclaro (North America), inc.	Ociaro (North America), Inc.	Octaro (North America), inc.	Octaro (North America), Inc.	Ociaro (North America), Inc.	Ociaro (North America), inc	Ochro (North America) in-	Ociam (North America), arc.	Charles Americal, and	Order (North America), inc.	Color (North America), inc	Ociaro (North America), inc.	Ociaro (North America), inc.	Ociaro (North America), inc.	Ociaro (North America), Inc.	Oclaro (North America), Inc.	Ociaro (North America), inc.	Ociaro (North America), Inc.	Oclaro (North America), Inc.	Octaro (North America), Inc.	Ociaro (North America), inc.	Octaro (North America), inc.	Octaro (North America) inc	Octaro (North America), Inc.	Oriero (North America), inc.	Oclaro (North America), Inc.	Ociaro (North America), Inc.	Ociaro (North America), inc.	Ociaro (North America), Inc.	Ociaro (North America), inc.	Orino (North America), inc.	Octaro (North America), inc.	Oclaro (North America), Inc.	Oclaro (North America), Inc.	Ociaro (North America), Inc.	Ociaro (North America), inc.	Oclaro (North America), inc.	Ociaro (North America), Inc.	Octaro (North America), inc.	Octars (North America), inc	Origon (North America) inc
Avalanche photodede	Method of relaxing a stressed film by matting an interface force	Terrore transferred to the least of the land of the la	Demultiple year with a course specifical variance.	Non-linear aptical device for processing an ontiral clered comprising an inter-	integrated monolitic laser-modulator component with multiple quantum well store	integrated manaittic laser-modutator component with multiple quantum well street	Wavelength-tunable, distributed Branz reflector laser having selectively activat	Method of making an electronic and/or photonic component	Later component having a Brack reflector of organic material, and a method of ma	Multi-wavelength filter that is insensitive to polarization with means for creat	Sample grating distributed 8/388 reflector laser, very widely matchable by obase	Process for making a monalithic integrated structure incorporating opto-electron	Device and method to control the output power of laser diodes	Method of manufacturing a double-heterolunction bipolar transistor on III-V material	Optical modulator		Multi-section opto-electronic component	Semiconductor optical amplifier with lateral and distributed cain at hill-size	Semi conductor phase modulator	Semi-modified and a semi-conductor optical amplifiers having a reduced nu	nivellistor of the mathyenhaer type having a very high extinction ratio	Multi-section electro-optical monolithic component	Semiconductor optical amplifier	semiconductor optical reflector and a method of manufacturing the same	berniconductor optical amplifier device	Semicanductor optical amplifier and integrated laser source information	integrated interferometer structure	Light emitting device having an integrated component including at least one lass	Semiconductor Brake reflector and a method of fabricating said reflector	Me thod of fabricating integrated optical circuits which minimized optical coupli	Method of fabricating integrated optical circuits which minimized optical coupli	Me thod of fabricating integrated outline in circuits which minimized makes, in part	Device, in particular a semiconductor device, for processing two waves in analysis	Method of manufacturing an integrated professionance to the state of t		Hybrid ontiral module for indicate an intermediate an incomparation	Method for fabricating a component with crystalline silicon substrate	Wavelength converter for binary optical signals	Quantum well electro-optical modulator	integrated opto-electronic component	Photonic dipley transceiver	Segmented optical waveguide suitable in particular for he in technical in a semic	Segmented outside wavelength in a semiconductor structure having quantum well	Microwave electronic devices comprising a metal engipsure	Semiconductor optical amplifier	Saturable light absorber structure and a device incorporating the structure for	Laser that can be tuned quickly over a wide band	Optical wavelength tunable fitter	Buried ribbon semiconductor laser and a method of fabrication	Monolitic integrated optical component inclining a modulator and a beautiful	Semiconductor laser	LOW-Stress internal structure for contractant bounds.	ontical emitter including system for blasing an electronic circuit and an emplifier inc	Services absorber, and an application thereof to regenerating a wavelen	

	OCLR 01349/US	OCIR.01347/US	OCIR 01340/US	SALVEETO HOO	SOLVETETO VITO	CCI POST SELECTION	DOR DISTEN	OCIR 01315/US	OCLR 01310/US/01	OCLR 01310/US	OCLR 01309/US	SO/BOETO HOO	OCLR 01304/US	OCLR 01284/US	OCLR 01282/US	OCT8 01281/US	OCLR 01274/US	OCIR 01269/US/C2	CCLR 01269/US	OCLR 01268/US	OCLR 01267/US	OCLR 01263/115	OCIR 01262/us	OCLR 01063/GRE	OCLR DIDGONIS	OCI R D1 249/1K	OCIR DI DARAGA	COLVENTION OF COLVENTION	OCIR ni 267/118	00186710 8 DO	00 8 01 237/16	311/367 to 4100	OCH 0123/GB	OCLR 01231/US	OCIR 01229/US	OCLR 01229/GBE	OG.R 01227/US/D1	OCLR 01227/US	OCLR 01219/US	CCLR 01216/115	50/60770 4130	OCLR 01208/US	OCLR 01207/GB	OCLR 01206/US	OCLR 01205/US	OCLR 01704/US	OCLR 01203/US	OCI R 01 197/116	Talenta a co	OCE DISCON	OCLR 01192/US	QQLR 01191/US	OCLR 01190/US	QCLR 01189/US	OCLR 01188/US	OCLR 01187/US	
	S	_	S	S	S					S	5	5	S	S	S	S			S	ទ	5 8	ī 8	, 6	3 8	. 5	F 8	2 5	5	i 5	5	; S		2	5	5	68		ទ ខ	¥ 8	; S	; S	S	.,	5	5		7 S	·	- LE	S	5	5		S (S (
	10/168,841	08/720,463	10/169,273	09/030,212	10/141,226	969'807/77	100,120,01	10/000/01	in/ses cca	09/610.437	09/386,621	09/611,926	09/368,687	09/386,544	09/505,880	08/913,004	27E,878/80	10/131,719	09/945.314	162,007,00	507'775/50	217,601,000	S CERCITION	RGC/CM0/cn	10/519,334	4/1/2028	260°TE%/90	08/420,853	10/845,772	08/297,057	10/520,837	3769926.7	97400829.4	10/893,140	08/668,628	96401920.5	09/073,459	08/67n 876	180,120,00	08/610,166	08/978,785	08/724,639	3290929,3	09/556,778	09/009.201	08/704 807	10/163,433	069'668/60	10/758,584	09/508,340	09/207,693	09/209,369	08/695,988	08/789,846	08/867 491	08/935,358	
	6.785.434	5.812.297	6.879.422	5,999,667	6,700,691	7,693,356	/,460,739	7.18'606'9		F TRE 1 E A	6.295.308	6.417.962	6,168,319	6,434,175	6,243,505	5,930,419	6.141.152	6.764.724	6.950.036	6 739 730	985/100,0	6,760,493	1271220	6,587,618	7, 196,355	1602155	5,703,895	5,638,471	7,167,498	5,442,723	7,254,154	1520327	802442	7,109,526	5,759,524	750375	5.025.207	5,5/5,584	5,724,461	5,808,530	5,946,438	5,861,971	1963366	6.414 298	6 111 678	2,62,1,570				_		_		5,930,278			
				bauas	issued	benss	SSUed	ssued	Damee	- Lange	Selle I	Setting	Table 1	Sugar	sued	Sund			1000	SSU	pensy	Denes	Ssued	Issued	banss	benss	ssued	issued	issued	ssued	ssued	benss	banasi	bensel	bents		155020	Pansa	Pents	Issued	ssued	İssued	paries;		Sound			issued	_				lesued !				
		A STATE OF		Avanex	Avanex	Avanex	Avanex	Avanex	Xeneva	Xoura		August		Avanay	Avanav	Alcohor	Aprilla	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avaner	Aumer	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Avanex	Xellean	Avanex	Avanex	Avanex	Avanex	Avanex	Xeneva	xonev	Avanex	Kanex	Avanex	Avanex	Avanex	
Arenex (Imperiess)	Avanex (Imperrect)	Avanex Corporation	Avanex (mperrect)	American (imparient)	Avanex (Imperfect)	Avanex (importer)	Avanex Corporation	Avanex (Imperfect)	Avanex (Imperfect)	Avanex Corporation	Avanex Corporation	Avanex Corporation	Average Corporation	Armen (Hiperiect)	Avenex Corporation	Aveilax (imperiect)	Avanex (imperiect)	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex Corporation	Avanex (Imperfact)	Avanex Corporation	Avariex Corporation	Avanex (imperfact)	Avanex Corporation	Avanex (Imperfect)	Avanex (imperfact)	Avanex (Imperfect)	Avanex (Imperfact)	Avanex (Imperfect)	Ociaro (North America), Inc.	Avanex Corporation	Avanes (myenet)	Avanax (Important)	Avanex Corporation	Avanex (Imperfect)	Avanex (Imperfect)	Avanex (imperfect)	Avanex (Imperfect)	_	Avanex (Imperfect)			Avanex (Imperfect)	(Avanex (Imperfact)				Avanex (imperient)						x Avanex (Imperfect)	
Oclero (North America), Inc.	Oclaro (North America), inc.	Oclaro (North America), inc.	Oclaro (North America), Inc.	Octaro (North America), inc.	Octavo (North America), Inc.	Out of the state o	Oclaro (North America)	Oclaro (North America) Inc	Oclaro (North America), Inc.	Ociaro (North America), inc.	Oclaro (North America), inc.	Oclaro (North America), inc.	Ociaro (North America), inc.	Ociaro (North America), inc.	Oclaro (North America), inc.	Octaro (North America), inc.	Oclaro (North America), Inc.	Ociaro (North America), inc.	Oclaro (North America), inc.	Ociaro (North America), Inc.	Oclaro (North America), Inc.	Ociaro (North America), inc	Octaro (North America) inc	Ociem (North America)	Octam (North America) Inc	Octano (North America) in-	Octor (North America), Inc.	Ocism (North America), inc.	Oclam (North America)	Octor (North America) inc	Orbin (North America), Inc.	Orlan (North America), inc.	Ociaro (North America), inc.	Ociaro (North America), Inc.	Oclaro (North America), Inc.	Ociaro (North America), Inc.	Ociaro (North America), inc.	Oclaro (North America), inc.	Octaro (North America), Inc.	Octaro (North America), inc.	Orlam (North America), Inc.	Octaro (North America), Inc.	Ociaro (North America), Inc.	Ociaro (North America), Inc.	Oclaro (North America), Inc.	Ociaro (North America), inc.	Octaro (North America) Inc.	Ociam (North America)	Ociam (North America), Inc.	Octaro (North America), Inc.	Octaro (North America), Inc.	Octaro (North America), Inc.	Oclaro (North America), inc.	Ociaro (North America), inc.	Odaro (North America), Inc.	Ociaro (North America) inc	
Attenuator integrated with modulator and transmitting module for WDM systems us	Blas system in an optical cast modulator	Method of analog modulation and optical emitter using this method	Mathod for reducing rejects in the manufacture of integrated antical	Electro-optic modulator having high bandwidth and low drive voltage	Litrium niobate optical modulator	Troing Dispare optical modulator	Entry upon modulators with internal impedance matching	Stead Copies incounting with attempt impedance matching	Figure 1991 - Toods the analysis of the second of the seco	Wavelength-locked external cavity issues with an interest gray gavite and method o	Optical waveguide amplifier optical service change languages device and and	System and method for aligning optical fiber collimators	Multiwavelength distributed Bragg reflector phased array layer	Narrow-band optical modulator with reduced power requirement	Wavelength demuttiplexer constructed using integrated optics	Multiplexer/demultiplexer with flattened spectral response	Precision fiber ferrules	Precision fiber females		Method of matching antique and attack and attack.	One of the college of	reperior interior order Navaguage electro-optical modulator	Command and method and system for aligning optical fibers to a lens are	illustrating instrict sensor for obtoe sectionic modules	integrated thermal sensor for optoelectronic modules	Opto-electrofic semiconductor device including an integrated mode transformer	Metrog of preparing an optical fiber for coupling with a phototransducer and an	Must section electrocastic monolithic component	Semiconductor strip active optical device	OFB laser with a distributed reflector and photonic band gap	Urb laser with a distributed reflector and photonic band gap	Quantum well structure in particular for active componants insensitive to polari	Semiconductor optical device on an indium phosphide substrate for igna operating	Method of formbig a plateau and a cover on the plateau in particular on a semico	Matthod of forming a plateau and a cover on the plateau in particular on a service	Method for manufacture of a buried structure layer device for integrated photonic	Method for manufacture of a buried structure later design for investigation	Semiconductor light course with non-light promise and a method of manufacture	Polarization described the second control of the section of the control of the co	Modules for both-way transposition between optical signals and electrical signals	inline modulator device for an optical transmission system	Procede de stabilisation pour source laser a reflecteur distribue	Reduced smearing optionic transcaiver	Millimater-wave optical source bytended for a distribution	Serial conductor emission device with fact according grating	Semi conductor etrictum having a side of discourse	Ciecuse or opto-electric component with a packaging of plastic and method for y	Large surrace amplifier with multimode interferometer	lange surface amplifiar with multimode interfarometer	Optical component of the waveguide array spectrograph type, having centered out	Optical component having a waveguide array spectrograph with improved array per	Tunable wayelength laser emission commonents	Multi-wavelength laser-emitting component	Optical semiconductor light guide device having a low divergence emergent beam.	Optical symbology multiplexer component having an array of waveguides		

guides se emerkent beam, se emerkent beam,

nodule for WDM systems usi

OCLR 01604/GB/P1 GB 1021889.9	OCIR 01599/UST US 13/991,868	S	S	5	5	5	ទ	-	5 8	5 1	5 1		OCIR 01581/GR/P1 GR 1014627.2	1	OCIR 01569/US/N1 US 11/101,989	S	ន	ج ج	NI US		7 8		i 5		¥ 5	¥ 5	; S	; E	9	5	동	S	ទ	OCLR 01394/US US 11/098 897		; ;;	S	5		OCLR 01385/GB GB 4022666 A	-	5	E 68	S	S	ន	S	S	S	OCLR 01358/US US 09/7	ā 5	F 5	9/80 cm co/1/85/10 km co/1/85/10 km co
Pending	Pending	Published	Pending	8.660.440 Issued	Pendine	7.986.885 issued	7 355 475	738/ 907 155080	7 0/0 154 Pending	rending	0,000,114 (80,00)	a Critical Pending	Panding		7,058,253	_	7.221.429		8.206.042	7 641 400	7,484,900			7,298,466	7,184,623	6,633,720	6,535,542	7,073,952	5,800,666	5,598,493	7,257,304		7.171.079	7 5 77 360	7,284,914	7,155,102	7,394,995		7.186.912	15190,16/	7,044,648	6,993,239	1521108	6,501,773	6,654,517		6.421.483	6.364,543	7 736 709		_	6,115,401	6,574,260
Oclaro Technology Limited		Octaro Octaro Technology Limited		Minted Octate Legisland Commen				_	_				Ociaro Ociaro Technology Limited	The second second, let		AOM OT PIC (imperfert), Inc.	Yearing Against Amperiacy				Avanex Avanex Corporation	Avanex Avanex Corporation	Avanex Avanex Corporation		Avanex Avanex Corporation	_					Avanex Avanex Corporation	Avanex Avanex Corporation		_	Avanex Avanex Corporation		Avanex Corporation	Avanex Avanex Corporation			_		_	Avanex Avanex Composition	Avanex Avanex Corporation	_	_				Avanex Avanex Corporation	Avanex Avanex (imperfect)	Avanex Avanex Corporation
Octaro Technology Limited	Outro Carinoval Cunican	Octaro i scrimotogy Limited	Ociaro Technology Umited	Ociaro Technology Umited	Mintera Corporation	Mintera Corporation	Mintera Corporation	Mintera Corporation	Octaro Technology Limited	Oclaro Technology Limited	Ociaro Technology Limited	Oclaro Technology Umited	Ociaro Technology Umited	S, INC. COSTO LECTROLOgy Limited		Celaro (New Jersey), Inc.	Ociaro (North America), inc.	Ociaro (North America), inc.			Ociaro (North America), inc.	Ociaro (North America), inc.	Ociaro (North America), inc.	Octaro (North America), Inc.	Ociaro (North America), Inc.	Ociaro (North America), inc	Ociaro (North America), inc.	Octors (North America) Inc	Oche (North America), inc	Orien (North America), Inc.	Ociaro (North America), Inc.	Ociaro (North America), inc.	Oclaro (North America), inc.	Ociaro (North America), Inc.	Oclaro (North America), inc.	Octaro (North America) Inc.	Oriem (North America), inc.	Octaro (North America), Inc.	Ociaro (North America), inc.	Octaro (North America), inc.	Ociaro (North America), inc.	Ociaro (North America), inc	Order (North America)	Octavo (North America), Inc.	Oclaro (North America), Inc.	Ociaro (North America), inc.	Ociaro (North America), Inc.	Oclaro (North America), inc.	Ociaro (North America), Inc.	Ociaro (North America), inc.	Ociaro (North America), inc.	Ociaro (North America), inc.	Octaro (North America), Inc.
Monitoring the output of a modulator Tunable laser and locker apparetus	Dual US-DBK Chip for fast wavelength switching	Array Comprising a Piurality of Adjustable Optical Ceyloes	Self-adaptive receivers not requiring FEC feedback	Electrically adaptive OPSK and (O)mPSK receivers	Method and apparatus for DPSK and OQPSK receivers and transmitters	Methods and apparatus for spectrally efficient optical modulation	Control of an optical modulator for desired blasing of data	Partial DPSK (PDPSK) transmission systems	Package for tunable pluggable transceiver	Electro-optic Devices	Attenment of a data signal to an alignment signal	Polarisation diversity QPSK receiver	Mach-Zehnder electrode biow up preventer		Integrated fiber, sensor and lens arrays for optical networks	Wavelength locker with liquid crystal tunable filter generating transmitted and	Semiconductor laser having low current threshold	Electro-optic device packages	Electro-optic device partages	fiber lens assembly for optical device	Air cavity plastic package for high frequency on the devices	Out itself in the manual array	Electro-ontirol design	System and method for assembling project on public tor must mode fiber-optic	Apparative seem and marked for an allege of the seement to posted indep	Hermotic sad fraction with accomplish for carting the	Multi-ways length hear fakt some	chable and system for forming an optical fiber microlens	Method and system for forming an optical fiber microlings	integrated optical device with reduced waveguide birefringence	Method for assembly of multi-ports optical apparatus	Structure and method for multi-ports optical apparatus	Systems for deploying an optical network	Method and apparatus for a latchable and pluggable electronic and profesionation	Structures for small from factor links 2 - which 1.1.1.	Notice and inethed for a compact optical receiver with wide dynamic range	System for reducing the electrical return loss of a lithium niobate traveling wa	Hermetic lid seal by metal pressing for fiber optic module	Harmetically sealed package for fibre optic module sealed by metal pressing	Method and apparatus for a fiber optic housing and aligning device	Method and apparative for a filter provide to the language with the second	Ontical modules employing glass-sealed fiber feed-through with c-seal	Stabilization of a laser array module	Optical devices engaged to fibers with angle-polished facets	Optical interferometric modulator integrated with optical monitoring mechanism	Optical monitoring in optical interferometric modulators	Optical fiber coupler assembly		Athermalized integrated optical waveguide devices	Optical coupling device	Optical counting devices upon with monalitate prism assembly	External cavity seminandurator laser with many lithit water laser.	Flandowski passifina

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OCH 01815/GB/P1

OCH 01815/GB/P1

OCH 01815/GB/P1

OCH 01815/GB/P1

OCH 01845/GB/P1

CIR 01614/UST OCIR 01616/UST OCIR 01620/UST ននេះ 1112348.6 113/551,514 1114872.6 1111897.3 13/546,964 13/228,350 1114283,215 1220004.4 1218066.7 1219684 13/129845 13/120,904 61/897,419 14/240,545 14/236,434 14/240,537 Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Oclaro
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Oclaro Technology Limited
Oclaro Technology Limited Ociaro Technology Limited Ociaro Technology Limited Ociaro Technology Limited OCLARO TECHNOLOGY PLC Oclaro Technology Limited Ociaro, inc. Ociaro Technology Limited Ociaro Technology Limited Ociaro Technology Umitad Ociaro Technology Limited Ociaro Technology Limited Ociaro Technology Limited Ociaro Technology Limited Ociaro Technology Limited Ociaro Technology Limited Ociaro, Inc. Ociaro, Inc. Ociaro, Inc. Ociaro, Inc. Ociaro Technology Limited Ociaro Technology Oclaro, inc. Oclaro Technology Limited Cooling system for an optical module

Tunable Raman pump baser

Optical reselver with a wide power sensitivity dynamic range
intercated heater for laser clode control
Interconnect package top to TEC

Optical modulator with folded electrical structure

Chirped grating bitch profiles

Thermal locker

Multiple port invorid arrayed optical components MONOLITHICALY INTEGRATED TUNABLE SEMICONDUCTOR LASER
OPTICAL fiber and method of fabricating a coupling device
TUNABLE MULTI-MODE LASER Modulator adaptive gain control

Modulator adaptive gain control

Laser passive storage section for reduced linewidth

Multi-bin lens 2

in process of being abandoned

Added since 3/18/14 version of patent list

EXHIBIT C

Trademarks

OCLARO, INC.

TRADEMARK	REGISTRATION NUMBER	DESCRIPTION	COUNTRY
Oclaro	4246377	Word	US
Oclaro	7607429	Word	China
Oclaro	Kor323134	Word	Taiwan
Oclaro	Bor47808	Word	Thailand
Ociaro	Kor340073	Word	Thailand
Oclaro	591396	Word	Switzerland
Ociaro	1194114	Word	Mexico
Oclaro	33499	Word	Korea
Ociaro	5389756	Word	Japan
Ociaro	1385267	Word	Italy
Oclaro	221052	Word	Israel
Oclaro	221055	Word	Israel
Oclaro	221060	Word	Israel
Oclaro	1823789	Word	India
Oclaro	7452479	Word	China
(Chinese Characters)		1,10,1	Cimia
Oclaro	7607429	Word	China
Oclaro	7452321	Word	China
Oclaro	8335713	Word	Europe
Ociaro	1440302	Word	Canada
Oclaro	2517166	Word	UK
Shining Light on	5393629	Word	Japan
Photonic Innovation			Jupan
Shining Light on	595998	Word	Switzerland
Photonic Innovation			STITZCHUNG
Dynamic Optics	2841522	Word	US
Broken Circle	85686982	Design	US
Broken Circle	1611391	Design	Canada
Broken Circle	85686982		Madrid Protocol; China,
		1 -	European, Union, Israel,
			Japan, South Korea,
			Switzerland

Oclaro Technology Limited

TRADEMARK	REGISTRATION NUMBER	DESCRIPTION	COUNTRY
Bookham	2143922	Word	US
Bookham	2021311	Word	Britain
Bookham	1738996	Word	Japan
Bookham	755339	Word	Italy

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Bookham	5837732	Word Chinese Character	China
Bookham	120214	Word	Israel
Bookham	467730 (Reg. No. 98-15704)	Word	Korea
Bookham	396022561	Word	Germany
Bookham	822026856	Word	Brazil
Bookham	96608702	Word	France
O with Slashes	TMA678112	Design	Canada
Bookham with design	1258839	Design	Europe

Ociaro (North America), Inc.

TRADEMARK	REGISTRATION NUMBER	DESCRIPTION	COUNTRY	
AVANEX	3112979	Word	China	

Mintera Corporation

TRADEMARK	REGISTRATION NUMBER	DESCRIPTION	COUNTRY
MINTERA	IR888963	Word	Australia
MINTERA	706980	Word	Canada
MINTERA	IR888963	Word	China
MINTERA	IR888963	Word	European Union
MINTERA	IR888963	Word	Japan
MINTERA	IR888963	Word	Korea
MINTERA	IR888963	Word	Madrid Protocol
MINTERA	IR888963	Word	Norway
MINTERA	IR888963	Word	Russia
MINTERA	1248848	Word	Taiwan
MINTERA	1131276	Design	Australia
MINTERA	706981	Design	Canada
MINTERA	891214	Design	Europe
MINTERA	891214	Design	Japan
MINTERA	891214	Design	Korea
MINTERA	891214	Design	Madrid Protocol
MINTERA	891214	Design	Norway
MINTERA	891214	Design	Russia
MINTERA	1248849	Design	Taiwan
MINTERA	891214	Design	China

Opnext, Inc.

TRADEMARK	REGISTRATION NUMBER	DESCRIPTION	COUNTRY
Opnext	3009137	Word Design	US
Opnext	2891530	Word	US
Opnext	T0102578H	Word	Singapore
Opnext	2002B14105	Word	Hong Kong

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Opnext	1792555	Word	China
Opnext	TMA635183	Word	Canada
Opnext	487877	Word	Switzerland
Opnext	2105302	Word	Europe
Opnext	4571573	Word	Japan
Opnext	4093014	Word	Japan
We Light It Up	3499718	Tag Line	US
Optomod	3275755	Word	US

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TRADEMARK REEL: 005250 FRAME: 0045

RECORDED: 04/02/2014