



07/07/2011

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

CORRECTED

REEL

103628410

## PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

## 1. Name of conveying party(ies)

Zarlink Semiconductor Inc. and Zarlink Semiconductor AB

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance/Execution Date(s):

Execution Date(s) \_\_\_\_\_

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424, Confirmatory License☐ Other \_\_\_\_\_

## 2. Name and address of receiving party(ies)

Name: Tyco Electronics Services GmbH

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

Rheinstrasse 20

City: 8200 Schaffhausen

State: \_\_\_\_\_

Country: SWITZERLAND

Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☐ No

## 4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☒ Yes ☐ No

## 5. Name and address to whom correspondence concerning document should be mailed:

Name: Robert J. Kapalka

Internal Address: Tyco Electronic Coporation

Street Address: 4550 New Linden Hill Road

Suite 140

City: Wilmington

State: Delaware

Zip: 19808

Phone Number: 302-633-2771

Fax Number: 302-633-2776

Email Address: rjkapalka@te

## 6. Total number of applications and patents involved: 41

## 7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$1640

☒ Authorized to be charged to deposit account☐ Enclosed☐ None required (government interest not affecting title)

## 8. Payment Information

Deposit Account Number 23-1950

07/07/2011 KNGUYENI 00000001 231950 5161756

Authorized User Name Robert Kapalka

01 FC:0021 1640.00 DA

## 9. Signature:

Signature

July 1, 2011

Date

Robert J. Kapalka

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

23

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450PATENT  
REEL: 026619 FRAME: 0271

<b>Patents</b>
5151756
5347605
5543638
6034808
6111903
6130979
6163556
6215132
6227720
6285704
6356573
6368890
6394664
6555407
6570406
6668005
6670858
6678292
6722792
6755575
6786651
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6801084
6816521
6850658
6879611
6885690
6922045
6943967
6960031
7006543
7101091
7194059
7476037
7513698
<b>Applications</b>
12/030338
12/558645
12/558824
12/581364
12/581371

05/10/2011

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office



103624745

ET

To the Director of the U.S. Patent and Trademark Office

documents or the new address(es) below

1. Name of conveying party(ies)

Zarlink Semiconductor Inc. and Zarlink Semiconductor AB

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) May 14, 2010

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

2. Name and address of receiving party(ies)

Name Tyco Electronics Services GmbH

Internal Address

Street Address

Rheinstrasse 20

City 8200 Schaffhausen

State

Country SWITZERLAND

Zip

Additional name(s) & address(es) attached? ☒ Yes ☐ No

4. Application or patent number(s):

A Patent Application No (s)

☐ This document is being filed together with a new application

B Patent No (s)

MAY 10 2011

Additional numbers attached? ☒ Yes ☐ No

5. Name and address to whom correspondence concerning document should be mailed:

Name Robert J. Kapalka

Internal Address Tyco Electronic Corporation

Street Address 4550 New Linden Hill Road

Suite 140

City Wilmington

State Delaware

Zip 19808

Phone Number 302-633-2771

Fax Number 302-633-2776

Email Address rkapalka@te.com

6. Total number of applications and patents involved: 41

7. Total fee (37 CFR 1.21(h) & 3.41) \$51640

- ☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 23-1950  
05/10/2011 AMULLINS 00000077 231950 KAPALKA, I  
Authorized User Name Robert Kapalka  
01 FC:8021 1648.00 DA

9. Signature:

Robert Kapalka  
Signature

May 6, 2011

Date

Robert J. Kapalka

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents

16

**Name and address of receiving party(ies):**

GOLDCUP 5514 AB UNÄT TYCO ELECTRONICS SVENSKA HOLDINGS AB

Box 598

Bruttovagen 5 & 7

Jarfalla

SE 175 26

SWEDEN

5151756
5347605
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12/558645
12/558824
12/581364
12/581371

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**INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT**

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**BY AND AMONG**

**ZARLINK SEMICONDUCTOR INC.**

**ZARLINK SEMICONDUCTOR AB**

**TYCO ELECTRONICS SERVICES GMBH**

**AND**

**GOLDCUP 5514 AB UNÄT TYCO ELECTRONICS SVENSKA HOLDINGS AB**

**INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT**

AGREEMENT made on the day of May 14, 2010

**BY AND AMONG:**

**ZARLINK SEMICONDUCTOR INC.**, a corporation incorporated under the laws of Canada with its registered office at 400 March Road, Ottawa, Ontario, K2K 3H4,

("Zarlink Canada")

**ZARLINK SEMICONDUCTOR AB (f/k/a MITEL SEMICONDUCTOR AB)**, a company organized under the Companies Act of Sweden with corporate registration number 556027-1222,

("Zarlink Sweden")

("Zarlink Canada" and "Zarlink Sweden" individually and together, "Assignor")

**Tyco Electronics Services GmbH**, a company formed under the laws of Switzerland,

("TE Services")

**AND:**

**Goldcup 5514 AB unät Tyco Electronics Svenska Holdings AB**, a company organized under the Companies Act of Sweden with corporate registration number 556803-3046

("TE Sweden")

("TE Services" and "TE Sweden" individually and together, "Assignee")

## ASSIGNMENT

WHEREAS, Assignor and Assignee entered into an Asset Purchase Agreement dated May 14, 2010 (the "**Agreement**"), pursuant to which Assignor has agreed to assign to Assignee certain Intellectual Property upon the terms and conditions set forth therein. Capitalized terms used herein and not otherwise defined shall have the respective meanings ascribed to them in the Agreement; and

WHEREAS, pursuant to the Agreement, Assignor and Assignee are entering into this Intellectual Property Assignment Agreement (this "**Assignment Agreement**") in respect of such assignment.

NOW, THEREFORE, for good and valuable consideration as recited in the Agreement, the receipt and sufficiency of which are hereby acknowledged and intending to be legally bound, Assignor and Assignee agree as follows:

1. Effective as of the Closing Date, Assignor hereby sells, transfers, assigns, conveys, and delivers to Assignee, and Assignee does hereby purchase, acquire, and receive from Assignor all of Assignor's right, title and interest in:

(a) all of the Purchased Intellectual Property, including, without limitation, all right, title, and interest in and to the Intellectual Property listed on Schedule A attached hereto (which is incorporated into and made a part of this Assignment Agreement) in accordance with Schedule B attached hereto;

(b) the exclusive right to sue or otherwise enforce, and continue any suit or other enforcement, for any infringement of the Purchased Intellectual Property occurring before or after the Closing Date as well as all statutory, contractual and other claims, demands, and causes of action for royalties, fees, or other income from, or infringement, misappropriation or violation of, any of the foregoing, and all of the proceeds from the foregoing that are accrued and unpaid as of, and/or accruing after, the Closing Date; and

(c) all of Seller's files, records, notes and correspondence with respect to the prosecution, registration and maintenance of all Purchased Intellectual Property.

2. Upon Assignee's request, Assignor shall provide reasonable assistance to Assignee to secure and perfect Assignee's ownership of (or the ownership of a third party designated by Assignee) of Assignor's rights to the Purchased Intellectual Property and to obtain registrations of the Owned Intellectual Property in the name of Assignee, including, without limitation, executing and delivering to Assignee such reasonable documents and affidavits, and providing reasonable assistance to Assignee in obtaining such testimony, as are necessary and appropriate for such purposes, , or to effect and implement the provisions in this Assignment Agreement.



3. Assignor irrevocably appoints Assignee as Assignor's true and lawful agent and attorney-in-fact, with full power of substitution and re-substitution, in whole or in part execute, and deliver any documents and instruments required by paragraph 2 of the Assignment Agreement.

4. This Assignment Agreement shall inure to the benefit of and be binding upon the parties and their respective successors and assigns.

5. This Assignment Agreement may be executed in identical counterpart copies, each of which shall be an original, but all of which taken together shall constitute one and the same instrument.

6. None of the provisions of this Assignment Agreement may be waived, changed or altered except in a writing by all of the parties hereto.

7. This Assignment Agreement shall be governed by and construed in accordance with, the laws of the State of New York, without giving effect to any conflicts of law principles that may require the application of any other law.

8. In the event of a conflict between the terms and conditions of this Assignment Agreement and the terms and conditions of the Agreement, the terms and conditions of the Agreement shall govern, supersede and prevail. EXCEPT AS OTHERWISE EXPRESSLY SET FORTH IN THE AGREEMENT, ASSIGNOR MAKES NO, AND EXPRESSLY DISCLAIMS ANY, REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, AT LAW OR IN EQUITY, IN RESPECT OF ANY OF THE INTELLECTUAL PROPERTY ASSIGNED HEREUNDER, INCLUDING WITH RESPECT TO MERCHANTABILITY, FITNESS FOR ANY PARTICULAR USE OR PURPOSE, TITLE AND NON-INFRINGEMENT.

[Signature Page Follows]

IN WITNESS WHEREOF the Parties have executed the Agreement on May 14, 2010  
(the "Effective Date").

**ZARLINK SEMICONDUCTOR INC.**

By: 

Name: Renate Pontello

Title: Vice President Legal and General Counsel

By: 

Name: André Levasseur

Title: Senior Vice President Finance and CFO

[Signature Page to Intellectual Property Assignment Agreement]

**ZARLINK SEMICONDUCTOR AB (f/k/a  
MITEL SEMICONDUCTOR AB)**

By: 

Name: Renato Pontello

Title: Corporate Secretary

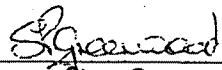
By: 

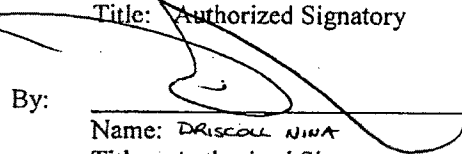
Name: André Levasseur

Title: Director

[Signature Page to Intellectual Property Assignment Agreement]

TYCO ELECTRONICS SERVICES GMBH

By:   
Name: Steve Greenwood  
Title: Authorized Signatory

By:   
Name: DRISCOLL NINA  
Title: Authorized Signatory

[Signature Page to Intellectual Property Assignment Agreement]

**GOLDCUP 5514 AB UNÄT TYCO  
ELECTRONICS SVENSKA HOLDINGS AB**

By: 

Name: Jeanne Quirk

Title: Authorized Signatory

[Signature Page to Intellectual Property Assignment Agreement]

# SCHEDULE A

Jurisdiction	Date Filed	Serial No.	Patent No.	Inventor(s)	Title of Patent	Assignor
USA	6/24/1998	09/103723	6111903	J Isaksson M Widman	Optical Source with Monitor	Zarlink Sweden
USA	7/13/1998	09/114142	6285704	M Widman A Kullander-Sjoberg	Field Modulated Vertical Cavity Surface-Emitting Laser with Internal Optical Pumping	Zarlink Sweden
USA	7/13/1998	09/114141	6130979	J Isaksson M Widman	Opto Electronic Module	Zarlink Sweden
UK	7/14/1997	9714823.3	2327276			
UK Div	7/31/2001	0118319.3	2363473			
USA	7/13/1998	09/114143	6163556	V Oskarsson	High Powered Laser Diode	Zarlink Sweden
UK	1/31/1998	9802047.2	2333895	K Streubel	Pre-Fusion Oxidized and Wafer Bonded Vertical Cavity Laser	Zarlink Sweden
USA	4/11/2001	09/832112	6668005			
USA	1/6/1999	09/225679	6394664	J Isaksson	Fibre-Optic Module	Zarlink Sweden
UK	12/23/1998	9828570.3	2334144	J Isaksson	Multiple Function Optical Module Having Electromagnetic Shielding	Zarlink Sweden
USA	12/31/1998	09/223779	6034808			
USA	1/22/1999	09/235302	6356573	V Oskarsson J Jonsson	Vertical Cavity Surface Emitting Laser	Zarlink Sweden
UK	2/19/1998	9803465.5	2334592	J Isaksson	Fiber Optic Connection Device	Zarlink Sweden
USA	2/18/1999	09/252082	6227720			
USA	11/12/1999	09/438955	6879611	R Marcks Von Wurtemberg C Johansson	VCSEL With Monitor Emission Through High Reflectivity Mirror	Zarlink Sweden
USA	2/18/2000	09/506895	6368890	M Wickstrom V Oskarsson J Jonsson	Top Contact VCSEL with Monitor	Zarlink Sweden
USA	2/8/2002	10/071043	6678292			
USA	10/20/2000	09/693233	6555407	NP Chitica A Lovqvist-Risberg F Salomonsson	Method and Apparatus for the Controlled Oxidation of Materials	Zarlink Sweden
USA	7/12/2001	09/903801	6755575	B Kronlund C Johansson	Self Powered Data Communication Plastic Optical Fiber Cable Extender	Zarlink Sweden
USA	2/22/2002	10/081424	6787812	J Isaksson	Active Optical Device	Zarlink Sweden

Jurisdiction	Date Filed	Serial No.	Patent No.	Inventor(s)	Title of Patent	Assignor
USA	9/12/2002	10/242070	6885690	T Aggerstam R Marcks Von Wurtemberg	Transverse Mode and Polarization Control by the Formation at a Dielectric Stack	Zarlink Sweden
China	9/16/2002	02143177.9	ZL02143177.9			
USA	5/8/2003	10/431880	6816521	E Zetterlund C Eriksson J Frode	Photonic Device with Monitor	Zarlink Sweden
USA	4/17/2003	10/417762	6943967	E Zetterlund	Optical Transducer with Farfield Modifier	Zarlink Sweden
USA	11/13/2001	10/010825	6570406	B Tang R Pierson	Method and Circuit for Pre-Emphasis Equalization in High Speed Data Communications	Zarlink Canada
USA	7/24/2002	10/205340	6794900	B Tang R Pierson	Method and Circuit for Pre-Emphasis Equalization in High Speed Data Communications	Zarlink Canada
USA	11/1/2001	10/004364	6670858	B Tang	High Speed Voltage- Controlled Ring Oscillator	Zarlink Canada
USA	8/19/2002	10/223842	7194059	B Wong B Tang S Southwell A Sakai	Method and Apparatus for Skip- Free Retiming Transmission of Digital Information	Zarlink Canada
USA	2/6/2003	10/359155	6801084	R Smith P Mcclay R Carroll	Transimpedance Amplifier and Circuit Including the Same	Zarlink Canada
USA	2/13/2003	10/365432	6922045	D Self P Mcclay	Current Driver and Method of Precisely Controlling Output Current	Zarlink Canada
USA	8/1/2003	10/633074	7006543	D Self B Tang K Miyashiro	System and Circuit for a Multi-Channel Optoelectronic Device Driver	Zarlink Canada
USA	1/22/2002	10/055679	6722792	K Raj P Mcclay	Optical Interconnect with Integral Reflective Surface and Lens, System Including the Interconnect and Method of Forming the Same	Zarlink Canada
USA	7/24/2001	09/911918	7101091	S Golwalkar N Davis J Burns	Apparatus for Coupling a Fiber Optic Cable to an	Zarlink Canada

Jurisdiction	Date Filed	Serial No.	Patent No.	Inventor(s)	Title of Patent	Assignor
USA	8/1/2006	11/461656	7476037	K Raj P McClay W Chou J McFarland	Optoelectronic Device, A System Including the Apparatus, and A Method of Forming the Same	
USA	3/22/2002	10/104942	6786651	K Raj W Chou P McClay R Carroll S Golwalkar N Davis J Burns	Optical Interconnect Structure, System and Transceiver Including the Structure, and Method of Forming the Same	Zarlink Canada
USA	1/23/2002	10/056757	6850658	S Golwalkar N Davis J Burns J McFarland K Cote	Apparatus for Coupling an Optoelectronic Device to a Fiber Optic Cable and a Microelectronic Device, A System Including the Apparatus, and a Method of Forming the Same	Zarlink Canada
USA	12/19/2002	10/325259	6960031	J McFarland S Golwalkar S Karikalan K Cote W Chou	Apparatus and Method of Packaging Two Dimensional Photonic Array Devices	Zarlink Canada
USA	11/22/2006	11/562623	7513698	M Andersson	Releasable Optical Connector	Zarlink Sweden
USA	2/13/2008	12/030338		M Andersson A Johansson J Frode LG Svenson	Fiber-Optic Cable Assembly for Optical Transceiver	Zarlink Sweden
USA	9/14/2009	12/558645		O Steijer M Andersson	Self-Aligned Carrier Assembly for Optical Device Supporting Wafer Scale Methods	Zarlink Sweden
USA	9/14/2009	12/558824		O Steijer M Andersson	Self-Aligned Silicone Carrier for Optical Device Supporting Wafer Scale Methods	Zarlink Sweden
USA	10/19/2009	12/581364		O Steijer M Andersson E Kallen	Improvements in or Relating to Opto-Electrical Assemblies and Associated Apparatus & Methods	Zarlink Sweden



Jurisdiction	Date Filed	Serial No.	Patent No.	Inventor(s)	Title of Patent	Assignor
USA	10/19/2009	12/581371		O Steijer M Andersson A Johansson L Lundqvist S Ek E Kallen	Equipment Practice for Chip on Glass for High Speed Optical Transceiver Applications	Zarlink Sweden
Sweden	2/27/1991	9100560.3	9100560.3 (468027)	J Isaksson	Optoelectronic Component	Zarlink Sweden
USA	10/8/1993	08/129126	5347605	J Isaksson	Adjustable Optical Component	Zarlink Sweden
USA	7/18/1991	07/731776	5151756	H Nettelbladt	LED with	Zarlink
UK (EP)	4/2/1992	92909801.0	616730	M Widman	Luminescence Layers	Sweden
USA	7/13/1994	08/274419	5543638	H NettelbladtM Widman	Light Emitting Device	Zarlink Sweden
USA	10/28/1997	08/875362	6215132	H Nettelbladt	Light Emitting	Zarlink
Sweden	11/3/1995	9503879-0	9503879-0	M Widman	Diode with Divided Light-Emitting Region	Sweden
Seller has two invention disclosures, one for a chip on glass hybrid integration for wafer scale assembly and test and the other for a voltage follower driver for solid state laser diode modulation.						

**SCHEDULE B**

<b>Purchased Intellectual Property</b>	<b>Assignee to Which Purchased Intellectual Property is Assigned</b>
All Owned Intellectual Property other than software included in the Owned Intellectual Property (the " <u>TE Services IP Assets</u> ")	TE Services
All Purchased Intellectual Property other than the TE Services IP Assets	TE Sweden

026272/0772 PAGE 2.

APPLICATION NUMBER: 12030338	FILING DATE: 02/13/2008
PATENT NUMBER:	ISSUE DATE:
TITLE: FIBER OPTIC CABLE ASSEMBLY FOR OPTICAL TRANSCEIVER	
APPLICATION NUMBER: 12558645	FILING DATE: 09/14/2009
PATENT NUMBER:	ISSUE DATE:
TITLE: SELF-ALIGNED CARRIER ASSEMBLY FOR OPTICAL DEVICE SUPPORTING WAFER SCALE METHODS	
APPLICATION NUMBER: 12558824	FILING DATE: 09/14/2009
PATENT NUMBER:	ISSUE DATE:
TITLE: SELF-ALIGNED SILICON CARRIER FOR OPTICAL DEVICE SUPPORTING WAFER SCALE METHODS	
APPLICATION NUMBER: 12581364	FILING DATE: 10/19/2009
PATENT NUMBER:	ISSUE DATE:
TITLE: OPTO-ELECTRICAL ASSEMBLIES AND ASSOCIATED APPARATUS AND METHODS	
APPLICATION NUMBER: 12581371	FILING DATE: 10/19/2009
PATENT NUMBER:	ISSUE DATE:
TITLE: OPTO-ELECTRICAL ASSEMBLIES AND ASSOCIATED APPARATUS AND METHODS	
APPLICATION NUMBER: 07731776	FILING DATE: 07/18/1991
PATENT NUMBER: 5151756	ISSUE DATE: 09/29/1992
TITLE: SURFACE EMITTING HETEROJUNCTION LIGHT EMITTING DIODE	
APPLICATION NUMBER: 08129126	FILING DATE: 10/08/1993
PATENT NUMBER: 5347605	ISSUE DATE: 09/13/1994
TITLE: OPTOELECTRONIC COMPONENT HAVING SPHERICAL ADJUSTING MEANS	
APPLICATION NUMBER: 08274419	FILING DATE: 07/13/1994
PATENT NUMBER: 5543638	ISSUE DATE: 08/06/1996
TITLE: SEMICONDUCTOR LIGHT EMITTING DEVICE	
APPLICATION NUMBER: 09223779	FILING DATE: 12/31/1998
PATENT NUMBER: 6034808	ISSUE DATE: 03/07/2000
TITLE: MULTIPLE FUNCTION OPTICAL MODULE HAVING ELECTROMAGNETIC SHIELDING	
APPLICATION NUMBER: 09103723	FILING DATE: 06/24/1998
PATENT NUMBER: 6111903	ISSUE DATE: 08/29/2000
TITLE: OPTICAL SOURCE WITH MONITOR	
APPLICATION NUMBER: 09114141	FILING DATE: 07/13/1998
PATENT NUMBER: 6130979	ISSUE DATE: 10/10/2000
TITLE: OPTO-ELECTRONIC MODULE	

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APPLICATION NUMBER: 09114143  
PATENT NUMBER: 6163556  
TITLE: HIGH POWERED LASER DIODE

FILING DATE: 07/13/1998  
ISSUE DATE: 12/19/2000

APPLICATION NUMBER: 08875362  
PATENT NUMBER: 6215132  
TITLE: LIGHT-EMITTING DIODE WITH DIVIDED LIGHT-EMITTING REGION

FILING DATE: 10/28/1997  
ISSUE DATE: 04/10/2001

APPLICATION NUMBER: 09252082  
PATENT NUMBER: 6227720  
TITLE: FIBER OPTIC CONNECTION DEVICE

FILING DATE: 02/18/1999  
ISSUE DATE: 05/08/2001

APPLICATION NUMBER: 09114142  
PATENT NUMBER: 6285704  
TITLE: FIELD MODULATED VERTICAL CAVITY SURFACE-EMITTING LASER WITH  
INTERNAL OPTICAL PUMPING

FILING DATE: 07/13/1998  
ISSUE DATE: 09/04/2001

APPLICATION NUMBER: 09235302  
PATENT NUMBER: 6356573  
TITLE: VERTICAL CAVITY SURFACE EMITTING LASER

FILING DATE: 01/22/1999  
ISSUE DATE: 03/12/2002

APPLICATION NUMBER: 09506895  
PATENT NUMBER: 6368890  
TITLE: TOP CONTACT VCSEL WITH MONITOR

FILING DATE: 02/18/2000  
ISSUE DATE: 04/09/2002

APPLICATION NUMBER: 09225679  
PATENT NUMBER: 6394664  
TITLE: FIBER OPTIC MODULE

FILING DATE: 01/06/1999  
ISSUE DATE: 05/28/2002

APPLICATION NUMBER: 09693233  
PATENT NUMBER: 6555407  
TITLE: METHOD FOR THE CONTROLLED OXIDATION OF MATERIALS

FILING DATE: 10/20/2000  
ISSUE DATE: 04/29/2003

APPLICATION NUMBER: 10010825  
PATENT NUMBER: 6570406  
TITLE: METHOD AND CIRCUIT FOR PRE-EMPHASIS EQUALIZATION IN HIGH SPEED  
DATA COMMUNICATIONS

FILING DATE: 11/13/2001  
ISSUE DATE: 05/27/2003

APPLICATION NUMBER: 09832112  
PATENT NUMBER: 6668005  
TITLE: PRE-FUSION OXIDIZED AND WAFER-BONDED VERTICAL CAVITY LASER

FILING DATE: 04/11/2001  
ISSUE DATE: 12/23/2003

APPLICATION NUMBER: 10004364  
PATENT NUMBER: 6670858  
TITLE: HIGH SPEED VOLTAGE-CONTROLLED RING OSCILLATOR

FILING DATE: 11/01/2001  
ISSUE DATE: 12/30/2003

026272/0772 PAGE 4

APPLICATION NUMBER: 10071043  
PATENT NUMBER: 6678292  
TITLE: TOP CONTACT VCSEL WITH MONITOR

FILING DATE: 02/08/2002  
ISSUE DATE: 01/13/2004

APPLICATION NUMBER: 10055679  
PATENT NUMBER: 6722792  
TITLE: OPTICAL INTERCONNECT WITH INTEGRAL REFLECTIVE SURFACE AND LENS,  
SYSTEM INCLUDING THE INTERCONNECT AND METHOD OF FORMING THE SAME

FILING DATE: 01/22/2002  
ISSUE DATE: 04/20/2004

APPLICATION NUMBER: 09903801  
PATENT NUMBER: 6755575  
TITLE: SELF POWERED DATA COMMUNICATION OPTICAL FIBER CABLE EXTENDER

FILING DATE: 07/12/2001  
ISSUE DATE: 06/29/2004

APPLICATION NUMBER: 10104942  
PATENT NUMBER: 6786651  
TITLE: OPTICAL INTERCONNECT STRUCTURE, SYSTEM AND TRANSCEIVER INCLUDING  
THE STRUCTURE, AND METHOD OF FORMING THE SAME

FILING DATE: 03/22/2002  
ISSUE DATE: 09/07/2004

APPLICATION NUMBER: 10081424  
PATENT NUMBER: 6787812  
TITLE: ACTIVE OPTICAL DEVICE

FILING DATE: 02/22/2002  
ISSUE DATE: 09/07/2004

APPLICATION NUMBER: 10205340  
PATENT NUMBER: 6794900  
TITLE: METHOD AND CIRCUIT FOR PRE-EMPHASIS EQUALIZATION IN HIGH SPEED  
DATA COMMUNICATIONS

FILING DATE: 07/24/2002  
ISSUE DATE: 09/21/2004

APPLICATION NUMBER: 10359155  
PATENT NUMBER: 6801084  
TITLE: TRANSIMPEDANCE AMPLIFIER AND CIRCUIT INCLUDING THE SAME

FILING DATE: 02/06/2003  
ISSUE DATE: 10/05/2004

APPLICATION NUMBER: 10431880  
PATENT NUMBER: 6816521  
TITLE: PHOTONIC DEVICE WITH MONITOR

FILING DATE: 05/08/2003  
ISSUE DATE: 11/09/2004

APPLICATION NUMBER: 10056757  
PATENT NUMBER: 6850658  
TITLE: APPARATUS FOR COUPLING AN OPTOELECTRONIC DEVICE TO A FIBER OPTIC  
CABLE AND A MICROELECTRONIC DEVICE, A SYSTEM INCLUDING THE  
APPARATUS, AND A METHOD OF FORMING THE SAME

FILING DATE: 01/23/2002  
ISSUE DATE: 02/01/2005

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