

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																						
NATURE OF CONVEYANCE:	ASSIGNMENT																						
CONVEYING PARTY DATA																							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Nortel Networks Corporation</td> <td>11/08/2002</td> </tr> <tr> <td>Nortel Networks Limited</td> <td>11/08/2002</td> </tr> <tr> <td>Nortel Networks Optical Components (Switzerland) GMBH</td> <td>11/08/2002</td> </tr> </tbody> </table>		Name	Execution Date	Nortel Networks Corporation	11/08/2002	Nortel Networks Limited	11/08/2002	Nortel Networks Optical Components (Switzerland) GMBH	11/08/2002														
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Nortel Networks Optical Components (Switzerland) GMBH	11/08/2002																						
RECEIVING PARTY DATA																							
<table border="1"> <tr> <td>Name:</td> <td>Bookham Technology PLC</td> </tr> <tr> <td>Street Address:</td> <td>90 Milton Park</td> </tr> <tr> <td>City:</td> <td>Abingdon, Oxfordshire</td> </tr> <tr> <td>State/Country:</td> <td>UNITED KINGDOM</td> </tr> <tr> <td>Postal Code:</td> <td>OX14 4RY</td> </tr> </table>		Name:	Bookham Technology PLC	Street Address:	90 Milton Park	City:	Abingdon, Oxfordshire	State/Country:	UNITED KINGDOM	Postal Code:	OX14 4RY												
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PROPERTY NUMBERS Total: 10																							
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Patent Number:	7099361																						
Patent Number:	5570444																						
CORRESPONDENCE DATA																							
Fax Number: 6509385200 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																							

CH \$400.00 6837075

Phone: 415-875-2327
Email: sfuentes@fenwick.com
Correspondent Name: Robin W. Reasoner
Address Line 1: 801 California Street
Address Line 4: Mountain View, CALIFORNIA 94041

ATTORNEY DOCKET NUMBER:	29154-01000
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NAME OF SUBMITTER:	Robin W. Reasoner, Reg. No. 58,257
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Signature:	/Robin W. Reasoner/
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Date:	09/06/2013
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Total Attachments: 26

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PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT is made from NORTEL NETWORKS CORPORATION, a corporation duly incorporated under the laws of Canada, having its executive offices at 8200 Dixie Road, Suite 100, Brampton, Ontario L6T 5P6 Canada, and the Selling Subsidiaries (collectively, the "Assigning Parties") to BOOKHAM TECHNOLOGY PLC, a public limited company incorporated under the laws of England and Wales having its executive offices at 90 Milton Park, Abingdon, Oxfordshire OX14, 4RY United Kingdom ("Assignee"). Capitalized terms used herein but not defined herein shall have the meanings set forth in the Acquisition Agreement (as defined below).

WHEREAS, Nortel Networks Corporation and the Assignee have entered into an Acquisition Agreement (the "Acquisition Agreement") dated as of October 7, 2002 (*as amended through the date hereof*), for the sale by the Assigning Parties to the Assignee of certain assets and an assumption by the Assignee of certain liabilities of the Assigning Parties; and

WHEREAS, in connection with the Acquisition Agreement, the Assigning Parties desire to assign to the Assignee, and the Assignee desires to acquire, all of the Assigning Parties' right, title and interest in and to the patents, patent applications and unfilled invention disclosures set forth in Schedule A hereto (collectively, the "Patents").

NOW THEREFORE, for good and valuable consideration, including the execution of the Acquisition Agreement by Assignee, the receipt and sufficiency of which are hereby acknowledged, the Assigning Parties and Assignee are entering into this Patent Assignment Agreement (the "Assignment Agreement") and hereby agree as follows:

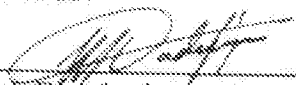
1. Assignment of Patents. The Assigning Parties hereby sell, assign, set over and transfer to the Assignee all of the Assigning Parties' respective right, title and interest in and to the said Patents and any and all continuations and divisions of said Patents and continuations-in-part based in whole or in part upon said Patents, and in, to and under any and all Letters Patent which may be granted on or as a result thereof, and any re-issue, re-examination or extension of said Letters Patent, and in and to any and all priority rights, convention rights and other benefits accruing or to accrue with respect to the filing of applications for patents or the issuance of patents in all countries in respect of the said Patents; the same to be held and enjoyed by the Assignee, its successors, assigns, nominees or legal representative, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by the Assigning Parties had this assignment, sale and transfer not been made. The Assigning Parties hereby authorize and request the Commissioner of Patents of the United States of America and any official of any country or countries foreign to the United States of America whose duty it is to issue patents on applications as aforesaid, to issue to the Assignee, any and all Letters Patent for the said Patents, which may be issued and

granted on or as a result of the application aforesaid, in accordance with the terms of this Assignment.

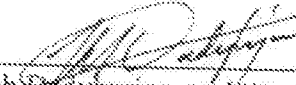
2. Further Assurances. At Assignee's expense, the Assigning Parties agree to perform all further acts and execute and deliver all further documents and/or instruments which may be reasonably necessary to carry out the provisions of this Assignment Agreement, including, without limitation, cooperating fully with Assignee to perfect the transfer of the Patents hereunder and, if appropriate, to assure that the Patents are properly recorded at any appropriate administrative agency, including but not limited to, the United States Patent and Trademark Office.
3. Governing Law. This Assignment Agreement shall be governed by and enforced in accordance with the laws of the State of New York, without giving effect to any conflicts of law principles.
4. Successors and Assigns. This Assignment Agreement shall be binding on, and shall inure to the benefit of, the parties hereto and their respective successors and assigns.

IN WITNESS WHEREOF, the Assigning Parties and the Assignee have caused this Assignment Agreement to be executed by their authorized officers on this 8th day of November, 2002.

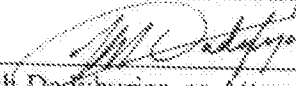
**NORTEL NETWORKS
CORPORATION**

By: 
Name: Khush Dadyburjor, as Attorney-in-Fact

**NORTEL NETWORKS
INCORPORATED**

By: 
Name: Khush Dadyburjor, as Attorney-in-Fact

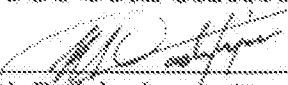
NORTEL NETWORKS LIMITED

By: 
Name: Khush Dadyburjor, as Attorney-in-Fact

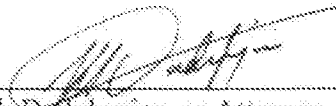
**NORTEL NETWORKS PROPERTIES
LIMITED**

By: 
Name: Khush Dadyburjor, as Attorney-in-Fact

**NORTEL NETWORKS
TECHNOLOGY CORPORATION**

By: 
Name: Khush Dadburjor, as Attorney-in-
Fact

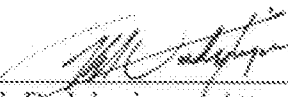
**NORTEL NETWORKS (ASIA)
LIMITED**

By: 
Name: Khush Dadburjor, as Attorney-in-
Fact

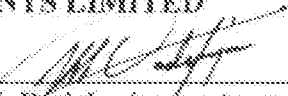
**NORTEL NETWORKS OPTICAL
COMPONENTS (SWITZERLAND)
GmbH**

By: 
Name: Khush Dadburjor, as Attorney-in-
Fact

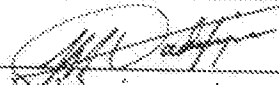
**NORTEL NETWORKS (U.K.)
LIMITED**

By: 
Name: Khush Dadburjor, as Attorney-in-
Fact

**NORTEL NETWORKS OPTICAL
COMPONENTS LIMITED**

By: 
Name: Khush Dadburjor, as Attorney-in-
Fact

**NORTEL NETWORKS OPTICAL
COMPONENTS INCORPORATED**

By: 
Name: Khush Dadyburjor, as Attorney-in-
Fact

**NORTEL NETWORKS HPOCS
INCORPORATED**

By: 
Name: Khush Dadyburjor, as Attorney-in-
Fact

**NORTEL NETWORKS PHOTONICS
PTY LIMITED**

By: 
Name: Khush Dadyburjor, as Attorney-in-
Fact

**NORTEL NETWORKS SHANNON
LIMITED**

By: 
Name: Khush Dadyburjor, as Attorney-in-
Fact

On this 14 day of November, 2002, before me appeared Keith D. Hughes, the person who signed this instrument, who acknowledged that he/she signed it as a free act on his/her own behalf or on behalf of each of the Assigning Parties with authority to do so.

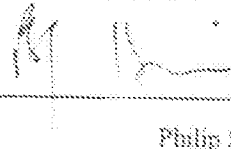
State of Delaware)

County of Delaware)

ss.

[Signature]

BOOKHAM TECHNOLOGY PLC

By: 

Name:

Title:

Philip S.J. Davis
Company Secretary

[Signature Page to Patent Assignment Agreement]

On this 8 day of November, 2002, before me appeared PIRATES S.I. DAVIS, the person who signed this instrument, who acknowledged that he/she signed it as a free act on his/her own behalf or on behalf of Bookham Technology plc with authority to do so.

State of NEW YORK)
) ss.
County of NEW YORK)

St 4

STEVEN FOUNDOS
Notary Public, State Of New York
No. 01FO0076651
Qualified in Nassau County
Certificate Filed in New York County
Commission Expires July 1, 2006

SCHEDULE A

Transferred Patents

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in family	Title
10289RO	US	19-Apr-99	6222200	Canada, United States	PHOTODETECTOR WITH SPECTRALLY EXTENDED RESPONSIVITY
10412RO	US	17-Oct-00	Pending	United States	EXTERNAL CAVITY LASER USING ANGLE-TUNED FILTER AND METHOD OF MAKING SAME
10413ID	US	30-Jun-99	Pending	United States	FIBRE TERMINATION COMPOUND GRADED INDEX LENSES
10489RO	US	1-Dec-00	Pending	United States	ELECTROCHROMIC OPTICAL ATTENUATOR
10509RO	US	23-Dec-99	6287401	Canada, United States	ALIGNMENT METHOD FOR SEMICONDUCTOR OPTICAL DEVICES UPON CARRIERS
11006ID	US	2-Feb-00	Pending	United States	MODULATOR ASSEMBLIES
11010ID	US	28-Feb-00	Pending	Canada, European Patent Convention, United States	OPTICAL AMPLIFIER STAGE
11920ID	US	21-Apr-00	Pending	United States	PUMPED OPTICAL AMPLIFICATION DEVICE
11945ID	US	18-May-00	Pending	United States	A RAMAN FIBRE LASER
11954ID	US	18-May-00	Pending	United States	A RAMAN FIBRE LASER
12242RO	US	11-Dec-00	Pending	United States	EPITAXIALLY GROWN AVALANCHE PHOTODIODE
12339ID	US	1-Sep-00	Pending	United States	OPTICAL FIBER DEVICE
12349RO	US	12-Oct-00	Pending	Canada, United States	COMPACT CHIP LABELING USING STEPPER TECHNOLOGY
12526RO	US	12-Sep-00	Pending	United States	APPARATUS FOR GRIPPING CERAMIC SUBSTRATES
12615ID	US	29-Sep-00	Pending	United States	PACKAGING ATMOSPHERE AND METHOD OF PACKAGING A MEMS DEVICE
12634RO	US	20-Dec-00	Pending	United States	STRUCTURE AND METHOD FOR DOPING OF III-V COMPOUNDS
12665RO	US	22-Sep-00	Pending	United States	PRINT QUALITY TEST STRUCTURE FOR LITHOGRAPHIC DEVICE MANUFACTURING
12686ID	US	27-Oct-00	Pending	United States	GLASS FIBER FIXATIVE AND FIXING PROCESS

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
12715RO	US	22-Sep-00	Pending	United States	METHODS FOR MAKING PATTERNS IN RADIATION SENSITIVE POLYMERS
12800AU	US	20-Aug-99	5930441	United States	SPLIT-BEAM FOURIER FILTER
12841ID	US	14-Jul-00	Pending	United States	INTEGRATED OPTICAL TRANSMITTER
12847RO	US	14-Dec-01	Pending	Canada, United States	CONFINEMENT LAYER OF BURIED HETEROSTRUCTURE SEMICONDUCTOR LASER
12849ID	US	9-Nov-00	Pending	Patent Cooperation Treaty, United States	OPTICAL AMPLIFIER METHOD AND APPARATUS
12948ID	US	6-Dec-00	Pending	Canada, United States	OPTICAL AMPLIFIER, OPTICAL AMPLIFIER HYBRID ASSEMBLY AND METHOD OF MANUFACTURE
13063CK	US	27-Sep-98	6041071	United States	ELECTRO-OPTICALLY TUNABLE EXTERNAL CAVITY MIRROR FOR A NARROW LINEWIDTH SEMICONDUCTOR LASER
13144CK	US	31-Aug-99	Pending	Canada, United States	LASER WITH SETTABLE WAVELENGTHS
13199CK	US	10-Aug-00	Pending	Canada, European Patent Convention, United States	SINGLE ETALON OPTICAL WAVELENGTH REFERENCE DEVICE
13201CK	US	10-Aug-00	Pending	Canada, European Patent Convention, United States	DOUBLE ETALON OPTICAL WAVELENGTH REFERENCE DEVICE
13391RO	US	15-Nov-01	Pending	United States	MONOLITHICALLY INTEGRATED OPTICALLY-PUMPED EDGE-EMITTING SEMICONDUCTOR LASER
13417RO	US	29-Dec-00	Pending	United States	METHOD OF ETCHING PATTERNS INTO EPITAXIAL MATERIAL
13444CK	US	17-May-01	Pending	Patent Cooperation Treaty, United States	MICROELATION FOR DWDM TELECOMMUNICATIONS APPLICATIONS
13494ID	US	29-Mar-01	Pending	Canada, European Patent Convention, United States	METHOD AND APPARATUS FOR MINIMIZING GAIN DEVIATION IN OPTICAL FIBRE AMPLIFIERS
13495ID	US	4-Oct-00	6377717	United States	OPTICAL MODULATORS
13502RO	US	14-Dec-00	Pending	United States	OPTICAL FIBER TERMINATION

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
13524RO	US	19-Jul-01	Pending	United States	A METHOD AND SYSTEM FOR FABRICATING SEMICONDUCTOR LASERS
13544RO	US	10-May-02	Pending	United States	SEMICONDUCTOR LASER
13584RO	US	13-Nov-00	Pending	Canada, European Patent Convention, United States	ELECTRODE TERMINATION FOR REDUCED LOCAL HEATING IN AN OPTICAL DEVICE
13591ID	GB	18-Dec-01	Pending	Great Britain, Patent Cooperation Treaty	OPTICAL MODULATORS
13614ID	US	25-Nov-01	Pending	United States, Patent Cooperation Treaty	OPTICAL PULSE GENERATION
13721RO	US	20-Sep-02	Pending	United States	AN NON-DESTRUCTIVE AND FAST WAY TO DETECT DIFFUSION DEPTH AND UNIFORMITY CROSS A WAFER
13813RO	US	29-May-02	Pending	United States	MONOLITHICALLY INTEGRATED HIGH POWER LASER OPTICAL DEVICE
13816RO	Unfiled	Unfiled	Unfiled	Unfiled	APPARATUS FOR MONITORING THE OUTPUT POWER OF DIODE LASERS AND MODULATORS
14224ID	US	21-Dec-01	Pending	United States	ISOLATION OF MICROWAVE TRANSMISSION LINES
14429ID	US	6-Dec-01	Pending	United States	OPTICAL BEAM SAMPLING MONITOR
14404RO	US	20-Dec-01	Pending	United States	HYBRID CONFINEMENT LAYERS OF BURIED HETEROSTRUCTURE SEMICONDUCTOR LASER
14433JD	US	20-Apr-98	6204560	Canada, European Patent Convention, Japan, Korea, South, United States	TITANIUM NITRIDE DIFFUSION BARRIER FOR USE IN NON-SILICON TECHNOLOGIES AND METHOD
14434JD	US	1-Sep-00	Pending	European Patent Convention, United States	STABILIZED LASER SOURCE
14435JD	US	25-Oct-00	Pending	Canada, European Patent Convention, United States	SUPPORTING STRUCTURE FOR FIBER FIXING AND SUBMICRON FINE ALIGNMENT
14480RO	Unfiled	Unfiled	Unfiled	Unfiled	GAIN COUPLED DISTRIBUTED FEEDBACK LASER USING SELF-ASSEMBLED QUANTUM DOTS

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
14549JD	US	9-May-02	Pending	Canada, European Patent Convention, Japan, United States	HIGH POWER SEMICONDUCTOR LASER DIODE
14551JD	US	19-Dec-01	Pending	United States	HIGH POWER LASER CARRIER
14552JD	US	6-Nov-01	Pending	United States	ANTI-REFLECTION COATINGS FOR SEMICONDUCTOR LASERS
14592ID	US	19-Dec-01	Pending	United States	GIMBALLED LENS MOUNT AND ALIGNMENT ASSEMBLY FOR A SENSITIVE OPTICAL ALIGNMENT
14676RO	US	26-Dec-01	Pending	United States	ENHANCED LINK OPERATION OF DIRECTLY MODULATED LASERS USING GAIN-COUPLED GRATINGS
14681ID	US	21-Dec-01	Pending	United States	THERMAL COMPENSATION AND ALIGNMENT FOR OPTICAL DEVICES
14716RO	US	12-Feb-02	Pending	United States	WAVEGUIDE MODE STRIPPER FOR INTEGRATED OPTICAL COMPONENTS
14777ID	US	18-Dec-2001	Pending	United States	OPTICAL AMPLIFIERS
14794RO	US	30-Sep-02	Pending	United States	METHOD AND APPARATUS FOR FLOATING GRATINGS IN DFB (DISTRIBUTED FEEDBACK) LASERS
14854RO	Unfiled	Unfiled	Unfiled	Unfiled	A METHOD FOR MINIMIZING CROSSTALK DUE TO LASER WAVELENGTH VARIATIONS WITH NON-IDEAL FILTERS
14864RO	US	8-Jul-02	Pending	United States	CURRENT TUNED MACH-ZEHNDER OPTICAL ATTENUATOR
14942RO	US	5-Apr-02	Pending	United States	RE-CIRCULATING OPTICAL PULSE GENERATOR
15004RO	US	18-Mar-02	Pending	United States	MICRO-MIRRORS WITH VARIABLE FOCAL LENGTH, AND OPTICAL COMPONENTS COMPRISING MICRO-MIRRORS
15093RO	US	26-Sep-02	Pending	United States	MULTIPLE-CONTACT SEMICONDUCTOR OPTICAL AMPLIFIERS
15095RO	US	29-Mar-02	Pending	United States	FREQUENCY IDENTIFICATION WITH FREQUENCY LOCKER

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
15113CK	US	7-Jun-02	Pending	United States	WAVELENGTH STABILIZED OPTICAL DEVICE
15116JD	US	24-Apr-02	Pending	United States	HIGH POWER SEMICONDUCTOR LASER DIODE AND METHOD FOR MAKING SUCH A DIODE
15117JD	Unfiled	Unfiled	Unfiled	Unfiled	PUMP LASER DIODE WITH IMPROVED WAVELENGTH STABILITY
15138JD	US	3-Jun-02	Pending	United States	AN IMPROVED METHOD FOR TERMINATING AN OPTICAL WAVEGUIDE INTO AN OPTICAL COMPONENT
15142RO	US	31-Jan-02	Pending	United States	FLEXIBLE POLYMER WAVEGUIDES FOR OPTICAL WIRE BONDS
15150RO	US	27-Sep-02	Pending	United States	METHOD FOR INTEGRATING OPTICAL DEVICES IN A SINGLE EPITAXIAL GROWTH STEP
15154RO	US	2-Oct-02	Pending	United States	A DOPANT-INDUCED REAL REFRACTIVE INDEX-GUIDED SELF-ALIGNED LASER STRUCTURE WITH INTEGRAL CURRENT BLOCKING LAYER
15181JD	US	26-Jun-02	Pending	United States	LASER TRANSMITTER
15193RO	US	14-May-02	Pending	United States	OPTIMIZED PERFORMANCE OF INGAAS/PINP COMPACT ON-CHIP POLARIZATION CONVERTER
15320RO	US	15-Oct-02	Pending	United States	ELECTRO-OPTIC MODULATOR WITH CONTINUOUSLY ADJUSTABLE CHIRP
15338RO	Unfiled	Unfiled	Unfiled	Unfiled	HIGH POWER DISTRIBUTED FEEDBACK LASER
15386JD	US	16-Sep-02	Pending	United States	RIDGE WAVEGUIDE LASER DIODE WITH COMPLEX INDEX GUIDING LAYER
15389JD	Unfiled	Unfiled	Unfiled	Unfiled	LASER STABILIZATION USING VERY HIGH RELATIVE FEEDBACK
15390RO	US	16-Aug-02	Pending	United States	ON-CHIP POLARIZATION SPLITTER/COMBINER DEVICE
15396JD	US	17-Oct-02	Pending	United States	A GUIDED SELF-ALIGNED LASER STRUCTURE WITH INTEGRAL CURRENT BLOCKING LAYER

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
HQ0054	US	19-Feb-99	6141370	Canada, United States	SUPERIMPOSED GRATING WDM TUNABLE LASERS
ID0032	US	6-Oct-94	5534442	United States	OPTO ELECTRONIC COMPONENTS
ID0079	US	19-Jul-93	5353707	Great Britain, United States	SEMICONDUCTOR - SLICE CLEAVING
ID0094	US	17-Nov-95	5668823	France, Germany, Great Britain, Japan, United States	HYBRID OPTIC SOLUTION
ID0134	US	18-Feb-94	5419804	France, Germany, Great Britain, Japan, United States	SEMICONDUCTOR ETCHING PROCESS
ID0137	US	26-Jul-95	5574811	Great Britain, United States	PROVIDING OPTICAL COUPLING BETWEEN OPTICAL COMPONENTS
ID0170	US	24-Feb-94	5365534	United States	INJECTION LASER AND PHOTODIODE ASSEMBLY
ID0193	US	13-Feb-95	5568728	Great Britain, United States	FILAMENT COOLER
ID0199	US	9-Sep-94	5542011	United States	CO & COUNTER-PUMPED OPTICAL AMPLIFIER
ID0206	US	9-Sep-94	5530580	France, Germany, Great Britain, Japan, United States	ELECTRO ABSORPTION OPTICAL MODULATORS
ID0218	US	29-Jul-94	5522000	France, Germany, Great Britain, Japan, United States	PROVIDING OPTICAL COUPLING WITH SINGLE CRYSTAL SUBSTRATE MOUNTED ELECTRO-OPTIC TRANSDUCERS
ID0237	US	22-Mar-94	5502741	United States	DIRECT AMPLITUDE MODULATION OF LASERS
ID0261	US	7-Mar-96	5833707	France, Germany, Great Britain, Japan, United States	IMPROVEMENTS IN CRYSTAL SUBSTRATE PROCESSING
ID0287	US	3-Aug-95	6275321	France, Germany, Great Britain, United States	POLARISATION-INSENSITIVE OPTICAL MODULATORS

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
ID0295	US	12-Dec-95	5570444	France, Germany, Great Britain, Italy, United States	OPTICALLY COUPLING OPTICAL FIBRES TO INJECTION LASERS
ID0311	US	4-Dec-95	5572549	France, Germany, Great Britain, Italy, United States	OPTICAL AMPLIFIER
ID0384	US	19-Jul-95	5564043	Great Britain, United States	HERMETIC OPTICAL FIBRE FEED-THROUGH
ID0426	US	30-Apr-97	5828589	Canada, European Patent Convention, Japan, United States	ETALON ARRANGEMENT
ID0431	US	19-Jun-98	6058125	France, Germany, Great Britain, Italy, Japan, United States	SEMICONDUCTOR LASERS
ID0467	US	5-Feb-97	5985086	France, Germany, Great Britain, Italy, Japan, United States	CONTROLLED DISPENSE OF GLUE ONTO A SILICON V-GROOVE
ID0519	US	1-Aug-97	6188118	Canada, European Patent Convention, Japan, United States	SEMICONDUCTOR PHOTODETECTOR PACKAGING
ID0651	US	30-May-97	5901164	Canada, European Patent Convention, Japan, United States	DIRECT AMPLITUDE MODULATION OF LASERS
ID0687	US	4-Dec-97	6124956	United States	OPTICAL TRANSMITTER OUTPUT MONITORING TAP
ID0691	US	5-May-98	6075800	United States	BONDING RIDGE STRUCTURE LASER DIODES TO SUBSTRATES

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
ID0764	US	16-Aug-96	6351569	United States	A REMOVABLY COATED OPTICAL FIBRE
ID0803	US	24-Dec-97	5556437	Canada, European Patent Convention, Japan, United States	ELECTRICALLY CONTROLLABLE OPTICAL ATTENUATOR
ID0908	US	30-Apr-98	Pending	United States	SEMICONDUCTOR OPTO ELECTRONIC DEVICE PACKAGING
ID1107	US	29-Mar-99	6240221	Canada, European Patent Convention, United States	INTEGRATED OPTICAL MACH ZEHNDER STRUCTURES
ID8512	US	15-Jul-83	4615031	Great Britain, United States	INJECTION LASER PACKAGES
ID8650	US	22-Jul-85	4720684	Canada, United States	OPTICAL AMPLIFIERS
ID8852	US	21-May-85	4608276	Canada, United States	MANUFACTURING OPTICAL FIBRE
ID8960	US	11-Dec-86	4735648	United States	OPTICAL FIBRE MANUFACTURE
ID9003	US	2-Oct-85	4631078	Canada, Germany, Great Britain, Japan, Spain, United States	COATING OPTICAL FIBRES
ID9186	US	17-Jan-89	4949352	Great Britain, United States	LASER MANUFACTURE
ID9209	US	1-May-88	4748307	United States	TUBE FURNACE
ID9312	US	14-Aug-88	4793640	Great Britain, United States	OPTICAL FIBRE MANUFACTURE

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
ID9315	US	31-Dec-80	RE34,816	France, Germany, Great Britain, New Zealand, United States	OPTICAL FIBRE CABLE HAVING SLOTTED CORE
ID9379	US	24-Nov-86	4772088	Great Britain, United States	OPTICAL FIBRE INTEGRATED OPTICAL DEVICE COUPLER
ID9496	US	31-Mar-87	4760580	Germany, Japan, United States	LASER ARRAY
ID9552	US	10-Feb-88	4830459	France, Germany, Great Britain, United States	OPTICAL FIBRE CABLES
ID9604	US	9-Aug-88	4886154	France, Germany, Great Britain, Netherlands, Sweden, United States	FIBRE TAILED OPTO-ELECTRONIC TRANSDUCER
ID9617	US	1-Sep-88	4837636	United States	EDGE EMITTING LIGHT EMISSIVE DIODE
ID9661	GB	12-Oct-88	2213957	Great Britain	WAVEGUIDE TO OPTO-ELECTRONIC TRANSDUCER
ID9715	US	31-May-90	5083090	France, Germany, Great Britain, Japan, United States	CONTACTLESS MEASUREMENT OF THE ELECTRICAL RESISTANCE PER UNIT LENGTH

Disclosure Numbers	Filed Country	Filed Date	Patent Numbers	Filed Countries in Family	Title
ID9716	US	31-May-90	5062687	France, Germany, Great Britain, Japan, United States	CARB ON COATING OF OPTICAL FIBRES
ID9731	GB	4-Aug-88	2221570	Great Britain	BONDING A SEMICONDUCTOR TO A SUBSTRATE
ID9742	GB	30-Sep-88	2223524	Great Britain	OPTICAL FILTERS
ID9750	US	10-Sep-90	5029981	France, Germany, Great Britain, Italy, Japan, Netherlands, United States	DIFFRACTION GRATING
ID9752	GB	4-Oct-88	2223509	Great Britain	VAPOUR PHASE PROCESSING
ID9763	US	11-Dec-90	5115444	France, Germany, Great Britain, United States	MULTICHANNEL CAVITY LASER
ID9774	GB	3-Feb-89	2227854	Great Britain	INTEGRATED OPTICS ASYMMETRIC Y-COUPLER
ID9806	US	27-Jun-90	5082380	United States	OPTICAL FIBRE CABLE
ID9837	US	12-Oct-90	5050960	United States	AERIAL OPTICAL FIBRE CABLE
ID9855	GB	2-Nov-89	2237854	Great Britain	SEMICONDUCTOR OPTICAL SOURCE
ID9870	US	17-Sep-90	5056096	France, Germany, Great Britain, Japan, United States	RING LASER
MO0058	US	5-Jun-89	5035916 and 4934774	Canada, France, Germany, Great Britain, United	OPTICAL WAVEGUIDE AND METHOD FOR ITS MANUFACTURE

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
				States	
MO0166	US	20-Sep-96	5703680	United States	A METHOD FOR LOW LOSS INSERTION OF AN OPTICAL SIGNAL FROM A OPTICAL FIBER TO A WAVEGUIDE INTEGRATED ONTO A SEMICONDUCTOR WAFER
MO0167	US	10-Jul-96	5793913	Canada, European Patent Convention, Japan, United States	A METHOD FOR THE HYBRID INTEGRATION OF DISCRETE ELEMENTS ON A SEMICONDUCTOR SUBSTRATE
MO0167	US	15-May-98	6158901	Canada, European Patent Convention, Japan, United States	METHOD FOR HYBRID INTEGRATION OF DISCRETE ELEMENTS ON SEMICONDUCTOR SUBSTRATE
MO0167	US	1-Jun-00	6391214	Canada, European Patent Convention, Japan, United States	METHOD FOR HYBRID INTEGRATION OF DISCRETE ELEMENTS ON SEMICONDUCTOR SUBSTRATE
RE1009	US	28-Nov-89	4850046	Canada, United States	FIBER OPTIC COUPLER
RE1037	US	28-Apr-86	4720171	Canada, United States	OPTICAL SIGNAL MODULATORS
RO1624	US	11-Feb-81	4695125	United States	HERMETIC OPTICAL ATTENUATOR
RO1807	US	3-Dec-82	4493287	Canada, United States	DIFFUSION EQUIPMENT
RO1809	US	9-Dec-82	4530099	United States	A PLANAR NARROW-STRIP LASER WITH IMPROVED CHARGE CARRIER CONFINEMENT
RO1852	US	27-Feb-84	4574730	Canada, United States	MELT DISPENSING LIQUID PHASE EPITAXY BOAT
RO1903	US	23-Feb-84	4489477	Canada, United States	METHOD FOR SCREENING LASER DIODES
RO1944	US	22-Oct-84	4661962	Canada, United States	PHASED LINEAR LASER ARRAY
RO1961	US	9-Sep-85	4889830	Canada, United States	ZINC DIFFUSION INTO INDIUM PHOSPHIDE
RO1967	US	21-Nov-84	4660207	Canada, United States	DOUBLE HETEROSTRUCTURE SURFACE EMITTING LASER STRUCTURE
RO1994	US	14-Feb-85	4675877	Canada, United States	A SURFACE EMITTING LASER

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
RO2005	US	14-Feb-85	4675875	Canada, United States	A BRAGG DISTRIBUTED FEEDBACK SURFACE EMITTING LASER
RO2268	US	11-Apr-88	4859628	Canada, United States	AN INTERRUPTED LIQUID PHASE EPITAXY TECHNIQUE
RO2314	US	31-Mar-88	4847665	United States	MONOLITHIC INTEGRATION OF OPTOELECTRONIC AND ELECTRONIC
RO2349	US	2-Jun-88	4849373	Canada, United States	GROWTH OF SEMI-INSULATING INP BY LIQUID PHASE EPITAXY
RO2461	US	22-Jun-89	4969712	United States	OPTOELECTRONIC APPARATUS AND METHOD FOR ITS FABRICATION
RO2468	US	27-Jul-89	4953006	Canada, United States	PACKAGING METHOD AND PACKAGE FOR EDGE COUPLED OPTOELECTRONIC DEVICE
RO2564	US	11-May-90	4989214	France, Germany, Great Britain, United States	LASER DIODE STRUCTURE
RO2579	US	14-Sep-90	5050953	Great Britain, United States	MULTICHANNEL FIBER OPTIC TRANSMITTER RECEIVER
RO2714	US	23-Dec-92	5350923	United States	APPARATUS FOR USE WITH ANALYTICAL MEASURING INSTRUMENTS
RO2785	US	15-Jul-93	5363457	France, Germany, Great Britain, Japan, United States	OPTICAL PHASE MODULATING DEVICES AND METHODS FOR THEIR OPERATION
RO2788	US	9-Sep-93	5345459	United States	METHOD OF REDUCING THE THERMALLY INDUCED SHIFT IN THE EMISSION WAVELENGTH OF LASER DIODES
RO2799	US	16-Dec-93	5452315	United States	GAIN COUPLED OFB LASER WITH INDEX COUPLING COMPENSATION

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
RO2809	US	29-Nov-93	5586207	United States	METHODS AND ASSEMBLIES FOR PACKAGING ELECTRONIC DEVICES AND FOR COUPLING OPTICAL FIBERS TO THE PACKAGED DEVICES
RO2817	US	29-Nov-93	5448581	United States	CIRCULAR GRATING LASERS
RO2875	US	25-May-95	5526076	United States	CHIRP CONTROL OF A MACH ZEHNDER OPTICAL MODULATOR USING NONEQUAL POWER SPLITTING
RO2879	US	10-May-94	5483547	United States	SEMICONDUCTOR LASER STRUCTURE FOR IMPROVED STABILITY OF THE THRESHOLD CURRENT WITH RESPECT TO CHANGES IN AMBIENT TEMPERATURE
RO2956	US	8-Mar-96	5594504	Canada, Great Britain, Japan, United States	SEMICONDUCTOR MODULATOR WITH A 2-2 SHIFT
RO2969	US	25-May-95	5567659	United States	METHOD OF ETCHING PATTERNS IN III-V MATERIAL WITH ACCURATE DEPTH CONTROL
RO2974	US	30-Mar-95	5536085	United States	MULTI WAVELENGTH GAIN COUPLED DISTRIBUTED FEEDBACK LASER ARRAY WITH FINE TUNABILITY
RO2999	US	2-Jul-96	5799119	Canada, European Patent Convention, Japan, United States	COUPLING OF STRONGLY AND WEAKLY GUIDING WAVEGUIDES FOR COMPACT INTEGRATED MACH ZEHNDER MODULATORS
RO3007	US	11-Oct-96	6026675	United States	BURIED HETEROSTRUCTURE LASER WITH QUATERNARY CURRENT BLOCKING G LAYER
RO3015	US	24-Nov-97	5960014	Great Britain, Japan, United States	THIN FILM RESISTOR FOR OPTOELECTRONIC INTEGRATED CIRCUITS
RO3066	US	9-Jun-98	6151347	United States	LASER DIODE AND METHOD OF FABRICATION THEREOF

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
RO3090	US	7-Nov-96	5776113	Canada, European Patent Convention, United States	CONFIGURABLE CHIRP MACH-ZEHNDER OPTICAL MODULATOR
RO3090	US	7-Nov-96	5991471	United States	CONFIGURABLE CHIRP MACH-ZEHNDER OPTICAL MODULATOR
RO3092	US	25-Jul-96	5777793	United States	POLARIZATION INSENSITIVE MULTILAYER PLANAR REFLECTION FILTERS WITH NEAR IDEAL SPECTRAL RESPONSE
RO3139	US	11-Jul-96	5625792	Canada, France, Germany, Great Britain, Japan, United States	WAVELENGTH MONITORING AND CONTROL ASSEMBLY FOR WDM OPTICAL TRANSMISSION SYSTEMS
RO3478	US	18-Sep-97	5936994	European Patent Convention, Japan, United States	TWO SECTION COMPLEX COUPLED DISTRIBUTED FEEDBACK SEMICONDUCTOR LASER WITH ENHANCED WAVELENGTH TUNING RANGE
RO3479	US	15-Oct-97	6026110	United States	DISTRIBUTED FEEDBACK SEMICONDUCTOR LASER WITH GAIN MODULATION
RO3610	US	24-Dec-97	6104739	European Patent Convention, Japan, United States	SERIES OF STRONGLY COUPLED DFB LASERS
RO3746	US	19-Dec-97	5866398	United States	ETCHING OF INDIUM PHOSPHIDE MATERIALS FOR MICROELECTRONIC FABRICATION
RO3920	US	10-Nov-98	Pending	Canada, European Patent Convention, Japan	A GAIN COUPLED DISTRIBUTED FEEDBACK SEMICONDUCTOR LASER
RO4144	US	11-Dec-98	6201624	United States	STRONGLY COMPLEX COUPLED DFB LASERS SERIES
RO4324	US	15-Dec-98	Pending	United States	GENERATION OF SHORT OPTICAL PULSES USING STRONGLY COMPLEX COUPLED DFB LASERS
RO4416	US	2-Sep-99	6246826	United States	VARIABLE OPTICAL ATTENUATOR WITH PROFILED BLADE

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
RO4504	US	20-Jul-00	Pending	Canada, European Patent Convention, Japan, United States	COMPOUND CAVITY REFLECTION MODULATION LASER SYSTEM
15502RO	Unfiled	Unfiled	Unfiled	Unfiled	A P-SUBSTRATE SELF-ALIGNED LASER STRUCTURE WITH IRON DOPED CURRENT BLOCKING LAYERS
15507RO	Unfiled	Unfiled	Unfiled	Unfiled	A MAGNETO-OPTIC NONRECIPROCAL WAVEGUIDE TE/TM MODE CONVERTER IN SEMICONDUCTING MATERIALS
15558RO	Unfiled	Unfiled	Unfiled	Unfiled	MANUFACTURE OF A GRATING TEMPLATE AND ITS TRANSFER INTO AL (IN, GA)AS MATERIAL USING IN-SITU ETCHING AND REGROWTH INSIDE A GROWTH REACTOR.
15592RO	Unfiled	Unfiled	Unfiled	Unfiled	ETCHING OF INDEX- OR GAIN-COUPLED GRATINGS INTO INGAASP MATERIAL USING IN-SITU ETCHING IN A GROWTH REACTOR
15649JD	Unfiled	Unfiled	Unfiled	Unfiled	LASER STRUCTURE WITH LARGE OPTICAL SUPERLATTICE WAVEGUIDE
15655RO	Unfiled	Unfiled	Unfiled	Unfiled	HIGH TEMPERATURE OPERATION LASER DIODES
15656RO	Unfiled	Unfiled	Unfiled	Unfiled	FABRICATION OF A BURIED HETEROSTRUCTURE LASER WITH AN INGAASP ACTIVE LAYER USING IN-SITU ETCHING IN A GROWTH REACTOR
15683JD	Unfiled	Unfiled	Unfiled	Unfiled	OPTICAL ATTENUATOR AND MODULATOR

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title	Status / Comment
ID0130	US	29-Oct-93	5355248	Great Britain, United States	OPTICAL AMPLIFIER	Expired or Abandoned
ID0348	US	13-Jun-90	5844929	United States	LASERS	Expired or Abandoned
RO1269	US	7-Jan-83	4528438	United States	END POINT CONTROL IN PLASMA ETCHING	Expired or Abandoned
ID6907	US		4911742	United States, Australia, France, Great Britain	OPTICAL FIBER	Expired or Abandoned
11620ID	US		Pending prior to abandonment	Patent Cooperation Treaty, United States	VARIABLE OPTICAL ATTENUATOR	Expired or Abandoned

Disclosure Number	Filed Country	Filed Date	Patent Number	Filed Countries in Family	Title
10163ID	US	28-Sep-00	6424755	Canada, United States, European Patent Convention	SLOTTED MONOLITHIC OPTICAL WAVEGUIDES
11560RO	US	28-Sep-00	Pending	Canada, United States	HYBRID ATTACH MIRRORS FOR A MEMS OPTICAL SWITCH
12801AU	US		6014475	United States, European Patent Convention	FIBRE OPTIC CIRCULATOR
12803AU	US		6283131	United States, Canada, European Patent Convention	REFLECTIVE NON RECIPROCAL OPTICAL DEVICE
12803AU	US		6415072	United States	REFLECTIVE NON RECIPROCAL OPTICAL DEVICE
13240AU	US			United States	POLARISATION SPLITTING CIRCULATOR METHOD AND DEVICE
14081ID	US			United States	FIBRE OPTICAL COMPONENT

14865AU	US			United States	VARIABLE ATTENUATION AND SPECTRAL SLOPE OPTICAL DEVICE
ID0190	US		5703976	United States, Germany, France, Great Britain, Japan	WAVELENGTH RESONANT FUSED FIBRE COUPLER
ID0226	GB		2281787	Great Britain	OPTICAL WAVEGUIDE GRATINGS
ID0291	US		5638473	United States, Germany, France, Great Britain	OPTICAL WAVEGUIDE GRATING FILTER
ID0309	US		5730586	United States	BRAGG GRATINGS IN WAVEGUIDES
ID0355	US		5708740	United States, Germany, France, Great Britain	ALL-FIBRE OPTICAL FILTER
ID0421	US		5904491	United States	PLANAR WAVEGUIDES
ID0423	US		5885861	United States	PLANAR WAVEGUIDE CLADDING
ID0449	US		6044182	United States, Canada, Germany, France, Great Britain, Italy, Japan	WAVEGUIDE PAIR WITH CLADDING
ID0550	GB		2129152	Great Britain	OPTICAL FIBRES
ID0170	US		4758569	United States, Canada, Great Britain	BEAM SPLITTER/COMBERS
ID0441	US		4801185	United States, Germany, France, Great Britain, Japan	DIRECTIONAL COUPLER
ID0579	GB		2207254	Great Britain	GLASS CLAD OPTICAL FIBRE DIRECTIONAL COUPLERS
ID0720	GB		2222400	Great Britain	LOOPED ELEMENTS
ID0758	GB		2236386	Great Britain	OPTICAL WAVEGUIDE TAPER HAVING CORE, INTERLAYER
ID0444	EP		EP0691570	United States, Canada, France, Germany, Great Britain, Italy, Japan	TAPERED SINGLE MODE WAVEGUIDES COUPLED TO PHOTODETECTOR BY MULTIMODE FIBRE
RO2922	US		5485679	United States	POLARISATION INDEPENDENT WAVELENGTH TUNABLE FILTER BASED ON BIREFRINGENCE COMPENSATION
12802AU	US		5468704	United States, Canada, Patent Cooperation Treaty	OPTICAL FILTERING METHOD AND DEVICE
12804AU	US			United States, Canada	WAVELENGTH DEPENDENT ISOLATOR

1508710	US			United States	AN OPTICAL GRATING DEVICE
D0509	US		8115518	United States, Canada, Great Britain, Japan	OPTICAL WAVEGUIDE BRAGG REFLECTION GRATINGS
D0997	US		8321000	United States, Canada, Germany, France, Great Britain, Italy	OPTICAL EQUALIZER