

Docket No.: 15436.0

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0551-0027 (exp 5/31/2002)
P08/REV03

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

PATENTS ONLY

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
HONEYWELL INTERNATIONAL, INC.
101 Columbia Road
Morristown, NJ 07962

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: **March 1, 2004**

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

Name: **FINISAR CORPORATION**

Internal Address: _____

Street Address: **1308 Moffett Park Drive**City: **Sunnyvale** State: **CA** ZIP: **94089**Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

See Attached
Exhibit B

B. Patent No.(s)

See Attached
Exhibit BAdditional numbers attached? ☒ Yes ☐ No

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

Name: **R. Burns Israelsen**

Internal Address: _____

Street Address: **1000 Eagle Gate Tower****60 East South Temple**City: **Salt Lake City** State: **UT** ZIP: **84111**6. Total number of applications and patents involved: **123**7. Total fee (37 CFR 3.41):\$ **4,960.00**☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

23-3178

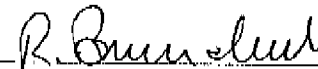
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.***R. Burns Israelsen**

Name of Person Signing



Signature

March 26, 2004

Date

Total number of pages including cover sheet, attachments, and document: **37**

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services

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REEL: 014468 FRAME: 0407

OP \$4920.00 08775330

EXHIBIT B

Exhibit B
Patents and Patent Applications Subject to Assignment from Honeywell International, Inc. to Finisar Corporation

WN File #	Application #	Application Filing Date	Patent #	Grant Date
15436.432.4	08/775330	31-Dec-96		
15436.432.4.4	10/136817	30-Apr-02		
15436.432.6.1	09/481627	12-Jan-00		
15436.432.7.1	08/795029	14-Feb-97		
15436.432.7.2	08/814458	10-Mar-97		
15436.433.3.3	10/350840	24-Jan-03		
15436.433.4.1	10/147136	13-May-02		
15436.433.6.1	10/413186	14-Apr-03		
15436.434.1.1	10/284863	31-Oct-02		
15436.434.1.2	09/547538	12-Apr-00		
15436.434.2.1	10/444796	22-May-03		
15436.434.3.1	10/634558	4-Aug-03		
15436.434.5	09/342801	29-Jun-99		
15436.434.6	09/577034	23-May-00		
15436.434.7	09/652555	31-Aug-00		
15436.434.7.1	10/427337	1-May-03		
15436.435.1	09/724820	28-Nov-00		
15436.435.1.1	10/617290	10-Jul-03		
15436.435.1.2	10/617892	11-Jul-03		
15436.435.2	09/751422	29-Dec-00		
15436.435.3	09/751423	29-Dec-00		
15436.435.4	09/803821	12-Mar-01		
15436.435.5	09/881167	14-Jun-01		
15436.435.6	60/311916	13-Aug-01		
15436.435.7	09/970073	20-Oct-01		
15436.436.1	10/006103	6-Dec-01		
15436.436.2	10/026016	20-Dec-01		
15436.436.3	10/026019	20-Dec-01		
15436.436.4	10/026055	20-Dec-01		
15436.436.5	10/026020	27-Dec-01		
15436.436.6	10/026044	27-Dec-01		
15436.436.7	10/028288	28-Dec-01		
15436.436.8	10/028303	28-Dec-01		
15436.437.1	10/028435	28-Dec-02		
15436.437.2	10/028436	28-Dec-02		
15436.437.3	10/028437	28-Dec-01		
15436.437.4	10/028438	28-Dec-01		
15436.437.5	10/028439	28-Dec-01		
15436.437.6	10/037010	31-Dec-01		
15436.437.7	10/037013	31-Dec-01		
15436.437.7.1	10/669220	24-Sep-03		
15436.437.8	10/078422	21-Feb-02		
15436.438.1	10/078473	21-Feb-02		
15436.438.2	10/078474	21-Feb-02		
15436.438.3	10/121490	12-Apr-02		
15436.438.4	10/156324	24-May-02		
15436.438.5	10/162928	4-Jun-02		
15436.438.6	10/163057	4-Jun-02		
15436.438.7	10/163440	4-Jun-02		

Exhibit B
Patents and Patent Applications Subject to Assignment from Honeywell International, Inc. to Finisar Corporation

WN File #	Application #	Application Filing Date	Patent #	Grant Date
15436.438.8	10/219425	14-Aug-02		
15436.438.9	10/232382	3-Sep-02		
15436.439.1	10/233112	3-Sep-02		
15436.439.2	10/233625	4-Sep-02		
15436.439.3	10/283381	28-Oct-02		
15436.439.4	10/283298	30-Oct-02		
15436.439.5	10/283311	30-Oct-02		
15436.439.6	10/283835	30-Oct-02		
15436.439.7	10/292578	11-Nov-02		
15436.439.8	10/301380	21-Nov-02		
15436.439.9	10/308308	3-Dec-02		
15436.440.1	10/316355	11-Dec-02		
15436.440.10	10/456123	6-Jun-03		
15436.440.11	10/606104	25-Jun-03		
15436.440.12	10/607629	27-Jun-03		
15436.440.13	10/607758	27-Jun-03		
15436.440.14	10/607887	27-Jun-03		
15436.440.2	10/323889	20-Dec-02		
15436.440.3	10/323923	20-Dec-02		
15436.440.4	10/347789	22-Jan-03		
15436.440.5	10/351710	27-Jan-03		
15436.440.6	10/352293	27-Jan-04		
15436.440.7	10/430941	7-May-03		
15436.440.8	10/436069	13-May-03		
15436.440.9	10/453307	3-Jun-03		
15436.441.1	10/607982	30-Jun-03		
15436.441.10	10/697028	31-Oct-03		
15436.441.11	10/706906	14-Nov-03		
15436.441.2	10/610256	30-Jun-03		
15436.441.3	10/612660	2-Jul-03		
15436.441.4	10/611992	30-Jul-03		
15436.441.5	10/620489	16-Jul-03		
15436.441.6	10/620612	16-Jul-03		
15436.441.7	10/622042	17-Jan-03		
15436.441.8	10/623351	18-Jul-03		
15436.441.9	10/697660	29-Oct-03		
15436.431.1	07/916785	17-Jul-92	5231686	27-Jul-93
15436.431.2	07/909270	6-Jul-92	5264715	23-Nov-93
15436.431.3	08/175016	29-Dec-93	5475701	
15436.431.4	08/476965	7-Jun-95	5574738	12-Nov-96
15436.431.5	08/739471	28-Oct-96	5737348	7-Apr-98
15436.431.6	08/683277	18-Jul-96	5745515	28-Apr-98
15436.431.7	08/671995	28-Jun-96	5767674	9-Jun-98
15436.431.8	08/734403	16-Oct-96	5774487	30-Jun-98
15436.431.9	08/687701	26-Jul-96	5799030	25-Aug-98
15436.431.10	08/743367	4-Nov-96	5805318	8-Sep-98
15436.431.11	08/686895	26-Jul-96	5812518	22-Sep-98
15436.431.12	08/743369	4-Nov-96	5841915	24-Nov-98
15436.431.13	08/843116	28-Apr-97	5893722	13-Apr-99

Exhibit B**Patents and Patent Applications Subject to Assignment from Honeywell International, Inc. to Finisar Corporation**

WN File #	Application #	Application Filing Date	Patent #	Grant Date
15436.431.14	08/812620	6-Mar-97	5903588	11-May-99
15436.431.15	08/674230	28-Jun-96	5940422	17-Aug-99
15436.431.16	08/736803	25-Oct-96	5978401	2-Nov-99
15436.432.1	08/872534	11-Jun-97	6055262	25-Apr-00
15436.432.2	08/989734	12-Dec-97	6064683	16-May-00
15436.432.3	09/001894	31-Dec-97	6069905	30-May-00
15436.432.4.1	09/134229	14-Aug-98	6069991	30-May-00
15436.432.4.2	09/135412	14-Aug-98	6088498	11-Jul-00
15436.432.4.3	09/268191	15-Mar-99	6404960	11-Jun-02
15436.432.5	08/813751	7-Mar-97	6078601	20-Jun-00
15436.432.6	09/119089	20-Jul-98	6081638	27-Jun-00
15436.432.7	08/664039	13-Jun-96	6086263	11-Jul-00
15436.432.8	09/052643	31-Mar-98	6095697	1-Aug-00
15436.433.1	08/995690	22-Dec-97	6194789	27-Feb-01
15436.433.2	09/119273	20-Jul-98	6205274	20-Mar-01
15436.433.3	08/989731	12-Dec-97	6256333	3-Jul-01
15436.433.3.1	09/819029	30-Nov-00	6459719	1-Oct-02
15436.433.3.2	09/819024	30-Nov-00	6522680	18-Feb-03
15436.433.4	09/387424	31-Aug-99	6411638	25-Jun-02
15436.433.5	09/607048	30-Jun-00	6465774	15-Oct-02
15436.433.6	09/766797	22-Jan-01	6558973	6-May-03
15436.434.1	09/724249	28-Nov-00	6586776	1-Jul-03
15436.434.2	09/224210	30-Dec-98	6588949	8-Jul-03
15436.434.3	09/217223	21-Dec-98	6603784	5-Aug-03
15436.434.4	09/975299	10-Oct-01	6606199	12-Aug-03

PATENT ASSIGNMENT

WHEREAS, Honeywell International Inc., a Delaware corporation located and doing business at 101 Columbia Road, Morristown, NJ 07962-2245 (hereinafter "Honeywell International"), is the successor in interest to all of the assets of Honeywell Inc. as evidenced by Exhibit 1 attached herewith, and, subject to the rights of third parties, is the assignee of the granted patents, pending patent applications, and invention disclosures identified on the attached Exhibit A which is incorporated by reference and made an integral part hereof; and

WHEREAS, Finisar Corporation, a corporation located and doing business at 1308 Moffett Park Drive, Sunnyvale, California 94089 (hereinafter "Finisar"), is desirous of acquiring Honeywell International's entire right, title and interest in, to and under said granted patents, pending patent applications, and invention disclosures of Exhibit A.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, as of January 24, 2004 ("Effective Date"), be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Honeywell International has sold, conveyed, assigned, transferred and set over, and does hereby sell, convey, assign, transfer and set over to said Finisar its entire right, title and interest in and to the granted patents, the pending patent applications, and the invention disclosures set forth in the Exhibit A, both foreign and domestic, and the invention(s) claimed in such patents and applications for patent and any divisional, continuation, continuation-in-part, revival, re-examination, reissue, renewal, or extension thereof, or any patent or application for patent claiming priority from such patents and applications for patent, that have issued or shall issue, including, without limitation, subject to the rights of third parties, all of its rights under any and all international conventions, treaties and/or agreements concerning patents to which the United States is a party ("Assigned Patents"), and including, without limitation, the right to own and to prosecute in Finisar's own name any reexaminations, reissues, interferences, oppositions, and all causes of action now in existence or arising in the future resulting from acts of infringement relating to any of the Assigned Patents, including, without limitation, the right to sue and recover for past or present infringement, and the sole right to settle such causes of action.

Honeywell International hereby authorizes and requests the Commissioner of Patents to recognize Finisar as having the full power to file patent applications based upon the invention disclosures, prosecute the pending applications set forth in the Attachments, and issue letters patent to said Finisar in accordance herewith, obtain certified copies thereof, make alterations and amendments therein, receive any patent issuing therefrom and transact all business in the Patent and Trademark Office connected therewith, the same to be held and enjoyed by said Finisar for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or any other legal representatives, to the end of the term or terms for said Assigned Patents, as fully and entirely as the same would have been held and enjoyed by said Honeywell International if this assignment had not been made. Honeywell International further authorizes Finisar, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of any of the Assigned Patents and/or otherwise take advantage of the provisions of any international convention, treaty and/or agreement.

[SIGNATURE PAGE FOLLOWS]

IN TESTIMONY WHEREOF, the parties have caused these presents to be signed by their duly authorized representative.

Agreed and Accepted:

FINISAR CORPORATION

By: S.K. Workman

Name: Stephen K. Workman

Senior Vice President, Finance, Chief
Title: Financial Officer and Secretary

Date: 3/1/04

IN TESTIMONY WHEREOF, the parties have caused these presents to be signed by their duly authorized representative.

Agreed and Accepted:

FINISAR, INC.

By: _____
Name: _____
Title: _____
Date: _____

HONEYWELL INTERNATIONAL INC.

By: Thomas F. Larkins
Name: Thomas F. Larkins
Title: VP & Deputy General Counsel & Corporate Secretary
Date: 3/1/04

State of New Jersey)
) ss:
County of Morris)

I, Christina A. Sanclimenti, a notary public in and for the above jurisdiction, do certify that Thomas F. Larkins, whose name is signed to the writing above bearing the date March 1, 2004, has acknowledged the same to me to be his free act and deed.

Given under my hand to me this 1st day of March, 2004

Christina A. Sanclimenti
Notary Public

My Commission Expires:
September 11, 2008

CHRISTINA A. SANCLIMENTI
NOTARY PUBLIC
STATE OF NEW JERSEY
COMM. ID 2304785
MY COMMISSION EXPIRES SEPT. 11, 2008

EXHIBIT A

EXHIBIT A
TO
PATENT ASSIGNMENT

Issued Patents

1	U.S.#	5231686	FILED: 17JUL1992	ISSUED: 27JUL1993	EXPIRES: 17JUL2013
	APPL#	07/916785	OPTICAL CONNECTOR CONFIGURED TO FACILITATE ACTIVE ALIGNMENT		
	P.D.#	H15001	RABINOVICH, Simon M.		
2	U.S.#	5264715	FILED: 06JUL1992	ISSUED: 23NOV1993	EXPIRES: 06JUL2012
	APPL#	07/909270	EMITTING WITH STRUCTURES LOCATED AT POSITIONS WHICH PREVENT		
	P.D.#	H14891	GUENTHER, James Kenneth JOHNSON, Ralph Herbert		
3	U.S.#	5475701	FILED: 29DEL1993	ISSUED: 12DEL1995	EXPIRES: 29DEL2013
	APPL#	08/175016	INTEGRATED LASER POWER MONITOR		
	P.D.#	H15433	HIBBS-BRENNER, Mary K.		
				FILED	EXPIRES
4	U.S.#	5574738	FILED: 07JUL1995	ISSUED: 12NOV1996	EXPIRES: 07JUL2015
	APPL#	08/476965	MULTI-GIGAHERTZ FREQUENCY-MODULATED VERTICAL-CAVITY SURFACE		
	P.D.#	H16158	MORGAN, Robert A.		
				FILED	EXPIRES
			France	PATENT#	0737376 16DEL1994 16DEL2014
			Great Britain	PATENT#	0737376 16DEL1994 16DEL2014
			Germany	PATENT#	69409834.5 16DEL1994 16DEL2014
5	U.S.#	5737348	FILED: 28OCT1996	ISSUED: 07APR1998	EXPIRES: 28OCT2016
	APPL#	08/739471	LIGHT SOURCE MONITOR WITH COMPENSATED TRACKING RATIO		
	P.D.#	H16618	SMITH, David F.		
6	U.S.#	5745515	FILED: 18JUL1996	ISSUED: 28APR1998	EXPIRES: 18JUL2016
	APPL#	08/683277	SELF LIMITING INTRINSICALLY EYE-SAFE LASER UTILIZING AN INCR		
	P.D.#	H16290	MARTA, T.M.		
				MORGAN, Robert A.	
7	U.S.#	5764674	FILED: 28JUL1996	ISSUED: 09JUL1998	EXPIRES: 28JUL2016
	APPL#	08/671995	CURRENT CONFINEMENT FOR A VERTICAL CAVITY SURFACE EMITTING L		
	P.D.#	H16201	BIARD, James R.		
				HIBBS-BRENNER, Mary K.	
				FILED	EXPIRES

Canada	2257888	23JEL1997	23JEL2017
France	EP0907994	23JEL1997	23JEL2017
France	EP1176680	17SE2001	23JEL2017
Great Britain	EP0907994	23JEL1997	23JEL2017
Great Britain	EP1176680	17SE2001	23JEL2017
Germany	P69711878.9	23JEL1997	23JEL2017
Germany	EP1176680	17SE2001	23JEL2017
Italy	EP0907994	23JEL1997	23JEL2017
Italy	EP1176680	17SE2001	23JEL2017
Japan	504222/98	23JEL1997	23JEL2017
Sweden	EP0907994	23JEL1997	23JEL2017
Sweden	EP1176680	17SE2001	23JEL2017
Switzerland	EP0907994	23JEL1997	23JEL2017
Switzerland	EP1176680	17SE2001	23JEL2017
U.S.#	5774487	ISSUED: 30JEL1998	EXPIRES: 16OC2016
APPL#	08/734403	FILAMENTED MULTI-WAVELENGTH VERTICAL-CAVITY SURFACE EMITTING	
P.D.#	H16131	MORGAN, Robert A.	
U.S.#	5799030	ISSUED: 25AUL1998	EXPIRES: 26JUL2016
APPL#	08/687701	SEMI-CONDUCTOR DEVICE WITH A LASER AND A PHOTODETECTOR IN A	
P.D.#	H16403	HIBBS-BRENNER, M.	
U.S.#	5805318	ISSUED: 04NOV1996	EXPIRES: 04NOV2016
APPL#	08/743367	APPARATUS FOR DETERMINING THE EFFECT OF MODAL NOISE ON A COM	
P.D.#	H16432	RABINOVICH, Simon M. SMITH, David F.	
U.S.#	5812581	ISSUED: 22SEI1998	EXPIRES: 26JUL2016
APPL#	08/686895	LENS FOR A SEMICONDUCTIVE DEVICE WITH A LASER AND PHOTODETEC	
P.D.#	H16625	COX, J.A.	
U.S.#	5841915	ISSUED: 24NOV1998	EXPIRES: 04NOV2016
APPL#	08/743369	APPARATUS FOR DETERMINING THE EFFECT OF MODAL NOISE ON A COM	
P.D.#	H16433	RABINOVICH, Simon M. SMITH, David F.	
U.S.#	5893722	ISSUED: 13API1999	EXPIRES: 28JEL2016
APPL#	08/843116	FABRICATION OF VERTICAL CAVITY SURFACE EMITTING LASER WITH C	
P.D.#	H16979	BIARD, James R. HIBBS-BRENNER, Mary K.	
U.S.#	5903588	ISSUED: 11MY1999	EXPIRES: 06MR2017
APPL#	08/812620	LASER WITH A SELECTIVELY CHANGED CURRENT CONFINING LAYER	
P.D.#	H16666	GUENTER, James Kenneth JOHNSON, Ralph Herbert	
U.S.#	59075005.3	ISSUED: 03JUL2003	EXPIRES: 04MR2018
APPL#	EP0985255		
P.D.#			

Germany	PATENT#	P69814379.5	04MR1998	04NR2018
Japan	APPL.#	538720/98	04MR1998	
15	U.S.#	5940422	FILED: 28JEL1996	ISSUED: 17AUI1999
APPL#	08/674230	LASER WITH AN IMPROVED MODE CONTROL		EXPIRES: 28JEL2016
P.D.#	H16410	JOHNSON, Ralph Herbert		
16	U.S.#	5978401	FILED: 25OCL1996	ISSUED: 02NO1999
APPL#	08/736803	MONOLITHIC VERTICAL CAVITY SURFACE EMITTING LASER AND RESONA		EXPIRES: 25OCL2016
P.D.#	H16335	MORGAN, Robert A.		
17	U.S.#	6055262	FILED: 11JEL1997	ISSUED: 25AP2000
APPL#	08/872534	RESONANT REFLECTOR FOR IMPROVED OPTOELECTRONIC DEVICE PERFO		EXPIRES: 11JEL2017
P.D.#	H16564	COX JAMES A	MORGAN ROBERT A	
			FILED	EXPIRES
18	U.S.#	6064683	FILED: 12DEL1997	ISSUED: 16MY2000
APPL#	08/989734	BANDGAP ISOLATED LIGHT EMITTER		EXPIRES: 12DEL2017
P.D.#	H16870	JOHNSON RALPH H		
		Canada	APPL.#	2286838 10JEL1998
		European Patent Convention	APPL.#	98926468.4 10JEL1998
		European Patent Convention	APPL.#	03075016.0 06JAZ2003
		Japan	APPL.#	503093/99 10JEL1998
		Belgium	PATENT#	EPI048081 20NO1998
		European Patent Convention	APPL.#	02080608.9 31DEL2002
		France	PATENT#	EPI048081 20NO1998
		Great Britain	PATENT#	EPI048081 20NO1998
		Germany	PATENT#	P69813899.6 20NO1998
		Italy	PATENT#	EPI048081 20NO1998
		Japan	APPL.#	PCT/US98/24702 20NO1998
		Netherlands	PATENT#	EPI048081 20NO1998
		Sweden	PATENT#	EPI048081 20NO1998
		Switzerland	PATENT#	EPI048081 20NO1998
19	U.S.#	6069905	FILED: 31DEL1997	ISSUED: 30MY2000
APPL#	09/001894	VERTICAL CAVITY SURFACE EMITTING LASER HAVING INTENSITY CONT		EXPIRES: 31DEL2017
P.D.#	H16885	DAVIS RICHARD A	GRIENTER JAMES K	
		SMITH DAVID F	MATZEN WALTER T	
20	U.S.#	6069991	FILED: 14AUI1998	ISSUED: 30MY2000
APPL#	09/134229	FLEXIBLE OPTIC CONNECTOR ASSEMBLY		EXPIRES: 31DEL2016
P.D.#	H16270	HUBBS-BRENNER, Mary K.	WALKER, JR., Harold Youn	
		France	PATENT#	EP0950304 13NO1997
		Great Britain	PATENT#	EP0950304 13NO1997
		Germany	PATENT#	P69710098.7 13NO1997
		Japan	APPL.#	529991/98 13NO1997

21	U.S.#	6078601	FILED: 07MR1997	ISSUED: 20J2000	EXPIRES: 07MR2017	
	APPL#	08/813751	METHOD FOR CONTROLLING THE OPERATION OF A LASER			
	P.D.#	H16741	SMITH, David F.			
22	U.S.#	6081638	FILED: 20J11998	ISSUED: 27J2000	EXPIRES: 20J12018	
	APPL#	09/119089	FIBER OPTIC HEADER WITH INTEGRATED POWER MONITOR			
	P.D.#	H17042	ZHOU, Ping			
23	U.S.#	6085263	FILED: 13J21996	ISSUED: 11J12000	EXPIRES: 13J2016	
	APPL#	08/664039	ACTIVE DEVICE RECEPTACLE			
	P.D.#	H17003	DOSS, Donald G			
			GUENTER, James Kenneth			
			WALTREP, Philip W			
			PARRENT, George W.			
			99113830.6			
			09/481627			
			15J11999			
			12J12000			
			FILED			
			EXPIRES			
24	U.S.#	6088498	FILED: 14J11998	ISSUED: 11J12000	EXPIRES: 31J2016	
	APPL#	09/135412	FLEXIBLE OPTIC CONNECTOR ASSEMBLY			
	P.D.#	H16270	HIBBS-BRENNER, Mary K. WALKER, JR., Harold Youn			
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25	U.S.#	6095697	FILED: 31MR1998	ISSUED: 01A12000	EXPIRES: 31MR2018	
	APPL#	09/052643	CHIP-TO-INTERFACE ALIGNMENT			
	P.D.#	H16958	HAMILTON PATRICK M			
			LEEEMAN JOHN A			
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26	U.S.#	6194789	FILED: 22DEC1997	ISSUED: 27FEB2001	EXPIRES: 22DEC2017	
	APPL#	08/995690	FLEXIBLE HERMETIC SEALING			
	P.D.#	N17074	ZHOU PING			
27	U.S.#	6205274	FILED: 20JUL1998	ISSUED: 20KRE2001	EXPIRES: 20JUL2018	
	APPL#	09/119273	FIBER OPTIC HEADER FOR AN EDGE EMITTING LASER			
	P.D.#	H25126	ZHOU, Ping			
28	U.S.#	6256333	FILED: 12DEC1997	ISSUED: 03JUL2001	EXPIRES: 12DEC2017	
	APPL#	08/989731	VCSL STRUCTURE INSENSITIVE TO MOBILE HYDROGEN			
	P.D.#	N16783	JOHNSON RALPH H			
					FILED	EXPIRES
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			Netherlands	PATENT#	EP1038339	20NO1998
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			United States	APPL.#	10/350840	24JUN2003
	United States		PATENT#	6459719	03NO2000	12DEC2017
			United States	PATENT#	6522680	03NO2000
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29	U.S.#	6404960	FILED: 15MAY1999	ISSUED: 11JEB2002	EXPIRES: 31DEC2016	
	APPL#	09/268191	FLEXIBLE OPTIC CONNECTOR ASSEMBLY			
	P.D.#	H16270	HIEBS-BRENNER MARY K			
			WALKER, JR HAROLD Y			
			LIU YUE			
			BRISTOW JULIAN P			
					FILED	EXPIRES
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			United States	APPL.#	10/136871	30AP2002
			United States	PATENT#	6069991	14AUL1998
			United States	PATENT#	6088498	14AUL1998
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30	U.S.#	6411638	FILED: 31AUL1999	ISSUED: 25JEB2002	EXPIRES: 31AUL2019	
	APPL#	09/387424	COUPLED CAVITY ANTI-GUIDED VERTICAL-CAVITY SURFACE-EMITTING			
	P.D.#	H25556	GUENTER JAMES K			
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Italy	EPI038339	20N01998	20N02018
Japan	APPL.#	PCT/US98/24703	20N01998
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Sweden	EPI038339	20N01998	20N02018

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APPL#	09/975299	GRADED THICKNESS OPTICAL ELEMENT AND METHOD OF MANUFACTURE T		
P.D.#	H0002301	WANG TZU-YU	FILED	EXPIRES
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	APPL#	08/775330	A FLEXIBLE OPTIC CONNECTOR ASSEMBLY,		
	P.D.#	H16270	HIEBS-BRENNER, Mary K. WALKER, JR., Harold Youn		
2	U.S.#	FILED: 04FE1997	ISSUED:	EXPIRES:	
	APPL#	08/795029	MULTIPLE PACK ACTIVE DEVICE RECEPTACLE		
	P.D.#	H17003	DOSS, Donald G GUENTER, James Kenneth PARRETT, George W.		
			SELLI, Raman K WALTREP, Philip W		
3	U.S.#	FILED: 10MR1997	ISSUED:	EXPIRES:	
	APPL#	08/814458	FIBER OPTIC S-BEND CONNECTOR		
	P.D.#	H17003	DOSS, Donald G GUENTER, James Kenneth PARRETT, George W.		
			SELLI, Raman K WALTREP, Philip W		
4	U.S.#	FILED: 29JE1999	ISSUED:	EXPIRES: PENDING	
	APPL#	09/342801	HERMETIC CHIP-SCALE PACKAGE FOR PHOTONIC DEVICES		
	P.D.#	H25073	JOHNSON, Klein L.		

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REEL: 014468 FRAME: 0424

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	APPL.#	FIBER OPTIC HEADER WITH INTEGRATED POWER MONITOR				
	P.D.#	09/481627				
		H17042				
		Canada	2378211	29J2000		
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		Japan	2001-506623	29J2000		
					FILED	EXPIRES
6	U.S.#	FILED:	12AP2000	ISSUED:		EXPIRES: PENDING
	APPL.#	INTEGRATION OF TOP-EMITTING AND TOP-ILLUMINATED OPTOELECTRON				
	P.D.#	09/547538				
		H25545				
		Australia	2001257028	12AP2001		
		Canada	2405859	12AP2001		
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7	U.S.#	FILED:	22MY2000	ISSUED:		EXPIRES: PENDING
	APPL.#	SYSTEM AND METHOD FOR VCSEL POLARIZATION CONTROL				
	P.D.#	09/577034				
		H26373				
		Canada	2410569	22MY2001		
		European Patent Convention	01941535.5	22MY2001		
		Japan	2001-587545	22MY2001		
		Korea South	2002-7015805	22MY2001		
		Taiwan	NH162793	23AU2001	22AU2021	
8	U.S.#	FILED:	31AU2000	ISSUED:		EXPIRES: PENDING
	APPL.#	PROTECTIVE SIDE WALL PASSIVATION FOR VCSEL CHIPS				
	P.D.#	09/652555				
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		Canada	2421009	30AU2001		
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U.S.#	Taiwan	APPL.#	90121615	31AU2001	
APPL.#	United States	APPL.#	10/427337	01MY2003	
P.D.#					EXPIRES: PENDING
9					
U.S.#	FILED: 28NO2000	ISSUED:			
APPL.#	VERSATILE METHOD AND SYSTEM FOR SINGLE MODE VCSELS				
P.D.#	JOHNSON RALPH H	MORALES GILBERTO			
			FILED	EXPIRES	
	Canada	APPL.#	2430348	26NO2001	
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	United States	APPL.#	10/617290	10JL2003	
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10					
U.S.#	FILED: 29DE2000	ISSUED:			
APPL.#	RESONANT REFLECTOR FOR USE WITH OPTOELECTRONIC DEVICES				
P.D.#	09/751422	COX JAMES A			EXPIRES: PENDING
			FILED	EXPIRES	
	European Patent Convention	APPL.#	01994296.0	18DE2001	
	Japan	APPL.#	2002-560348	18DE2001	
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U.S.#	FILED: 29DE2000	ISSUED:			
APPL.#	SPATIALLY MODULATED REFLECTOR FOR AN OPTOELECTRIC DEVICE				
P.D.#	09/751423	MORGAN ROBERT A			EXPIRES: PENDING
			FILED	EXPIRES	
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	European Patent Convention	APPL.#	01994427.1	20DE2001	
	Japan	APPL.#	2002-560170	20DE2001	
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	Taiwan	PATENT#	NI169853	28DE2001	27DE2021
12					
U.S.#	FILED: 12MR2001	ISSUED:			
APPL.#	APPARATUS AND METHOD PROVIDING A BALANCING LOAD TO A LASER D				
P.D.#	09/803821	GUENTER JAMES K			EXPIRES: PENDING
			FILED	EXPIRES	
	Canada	APPL.#	2441090	12MR2002	
	European Patent Convention	APPL.#	02736497.5	12MR2002	
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13					
U.S.#	FILED: 14JL2001	ISSUED:			
APPL.#	METHOD AND APPARATUS FOR PRODUCING VCSELS WITH DIELECTRIC MI				
P.D.#	09/881167	SKOGMAN RICHARD A			EXPIRES: PENDING
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	U.S.#	APPL#	P.D.#	European Patent Convention	AppL.#	02746507.9	13JE2002	EXPIRES: PENDING
14	U.S.#	APPL#	P.D.#	Japan	APPL.#	PCT/US02/18597	13JE2002	FILED
	U.S.#	APPL#	P.D.#	Korea South	APPL.#	PCT/US02/18587	13JE2002	FILED
	U.S.#	APPL#	P.D.#	Taiwan	APPL.#	091112890	13JE2002	EXPIRES
	U.S.#	APPL#	P.D.#	Filed: 13AU2001	ISSUED:	METHODS AND SYSTEMS FOR WAFER LEVEL BURN-IN OF ELECTRONIC DE	EXPIRES: PENDING	
	U.S.#	APPL#	P.D.#	HAWKINS BOBBY M	BLAND JAMES R	HAJI-SHEIKH MICHAEL J	FILED	EXPIRES
15	U.S.#	APPL#	P.D.#	Patent Cooperation Treaty	APPL.#	PCT/US02/25640	12AU2002	EXPIRES: PENDING
	U.S.#	APPL#	P.D.#	Filed: 020C2001	ISSUED:	LASER LIGHT SOURCES HAVING INTEGRATED DETECTOR AND INTENSITY	EXPIRES: PENDING	
	U.S.#	APPL#	P.D.#	BAURAHN PAUL E	FRIEZE BERNARD S	GALARNEAU LYNN M	FILED	EXPIRES
	U.S.#	APPL#	P.D.#	JOHNSON KLEIN L	LEHMAN JOHN A		FILED	EXPIRES
16	U.S.#	APPL#	P.D.#	Filed: 06DE2001	ISSUED:	METHOD AND SYSTEM FOR RELEASING A PLUGGABLE MODULE	EXPIRES: PENDING	
	U.S.#	APPL#	P.D.#	BELL RICHARD L	WALKER JR HAROLD Y		FILED	EXPIRES
17	U.S.#	APPL#	P.D.#	Patent Cooperation Treaty	APPL.#	PCT/US02/38728	05DE2002	EXPIRES: PENDING
	U.S.#	APPL#	P.D.#	Taiwan	APPL.#	091135445	06DE2002	EXPIRES: PENDING
	U.S.#	APPL#	P.D.#	Filed: 20DE2001	ISSUED:	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM, AN	EXPIRES: PENDING	
	U.S.#	APPL#	P.D.#	JOHNSON RALPH H			FILED	EXPIRES
18	U.S.#	APPL#	P.D.#	Patent Cooperation Treaty	APPL.#	PCT/US02/41736	13DE2002	EXPIRES: PENDING
	U.S.#	APPL#	P.D.#	Taiwan	APPL.#	091136681	19DE2002	EXPIRES: PENDING
	U.S.#	APPL#	P.D.#	Filed: 20DE2001	ISSUED:	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM AND	EXPIRES: PENDING	
	U.S.#	APPL#	P.D.#	JOHNSON RALPH H			FILED	EXPIRES
19	U.S.#	APPL#	P.D.#	Patent Cooperation Treaty	APPL.#	PCT/US02/39604	11DE2002	EXPIRES: PENDING
	U.S.#	APPL#	P.D.#	Taiwan	APPL.#	091136672	19DE2002	EXPIRES: PENDING
	U.S.#	APPL#	P.D.#	Filed: 20DE2001	ISSUED:	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM IN T	EXPIRES: PENDING	
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20	U.S.#	APPL#	P.D.#	Patent Cooperation Treaty	APPL.#	PCT/US02/39414	10DE2002	EXPIRES: PENDING
	U.S.#	APPL#	P.D.#	Taiwan	APPL.#	091136648	19DE2002	EXPIRES: PENDING
	U.S.#	APPL#	P.D.#	Filed: 27DE2001	ISSUED:		EXPIRES: PENDING	

APPL.# P.D.#	10/026020 H0002670	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM AND JOHNSON RALPH H	FILED	EXPIRES
21				
U.S.# APPL.# P.D.#	10/026044 H0002671	Patent Cooperation Treaty Taiwan FILED: 27DE2001 INDIUM FREE VERTICAL CAVITY SURFACE EMITTING LASER JOHNSON RALPH H ISSUED: PCT/US02/39827 091137289 25DE2002	EXPIRES: PENDING	
22				
U.S.# APPL.# P.D.#	10/028288 H0002312	Patent Cooperation Treaty Taiwan FILED: 28DE2001 SUBMOUNT FOR VERTICAL CAVITY SURFACE EMITTING LASERS AND DET TATUN JIMMY A GUENTER JAMES K ISSUED: PCT/US02/39912 091137483 26DE2002	EXPIRES: PENDING	
23				
U.S.# APPL.# P.D.#	10/028303 H0002461	Patent Cooperation Treaty Taiwan FILED: 28DE2001 CURRENT CONFINEMENT, CAPACITANCE REDUCTION AND ISOLATION OF JOHNSON RALPH H ISSUED: PCT/US02/39820 091137470 26DE2002	EXPIRES: PENDING	
24				
U.S.# APPL.# P.D.#	10/028435 H0003010	Patent Cooperation Treaty Taiwan FILED: 28DE2001 ASYMMETRIC DISTRIBUTED BRAGG REFLECTOR FOR VERTICAL CAVITY S VILLAREAL SAMUEL S JOHNSON RALPH H ISSUED: PCT/US02/39823 091137475 26DE2002	EXPIRES: PENDING	
25				
U.S.# APPL.# P.D.#	10/028436 H0001922	Patent Cooperation Treaty Taiwan FILED: 28DE2001 GAIN GUIDE IMPLANT IN OXIDE VERTICAL CAVITY SURFACE EMITTING BIARD JAMES R GUENTER JAMES K ISSUED: PCT/US02/39825 091137479 26DE2002	EXPIRES: PENDING	
26				
U.S.# APPL.# P.D.#	10/028437 H0002531	Patent Cooperation Treaty Taiwan FILED: 28DE2001 VERTICAL CAVITY SURFACE EMITTING LASER HAVING A GAIN GUIDE A COX JAMES A STZRELECKA EVA ISSUED: PCT/US02/39513 091137126 24DE2002	EXPIRES: PENDING	

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			FILED: 28DE2001 WAVELENGTH DIVISION MULTIPLEXED VERTICAL CAVITY SURFACE EMIT WANG TZU-YU					
28	U.S.# APPL# P.D.#	10/028439 H25543	Patent Cooperation Treaty	APPL.#	PCT/US02/41735	13DE2002	ISSUED: EXPIRES: PENDING	FILED EXPIRES
			FILED: 28DE2001 INTEGRAL VERTICAL CAVITY SURFACE EMITTING LASER AND POWER MO GUENTER JAMES K WERNER THOMAS R					
29	U.S.# APPL# P.D.#	10/037010 H0001575	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US02/41737 091137288	13DE2002 25DE2002	ISSUED: EXPIRES: PENDING	FILED EXPIRES
			FILED: 31DE2001 TUNABLE LASER ASSEMBLY COX JAMES A					
30	U.S.# APPL# P.D.#	10/037013 H0001589	Patent Cooperation Treaty	APPL.#	PCT/US02/39413	10DE2002	ISSUED: EXPIRES: PENDING	FILED EXPIRES
			FILED: 31DE2001 OPTOELECTRONIC DEVICES AND METHODS OF PRODUCTION JOHNSON KLEIN L BAIER STEVEN M					
31	U.S.# APPL# P.D.#	10/078422 H0002523	United States	APPL.#	10/669220	24SE2003	ISSUED: EXPIRES: PENDING	FILED EXPIRES
			FILED: 21FE2002 LONG-WAVELENGTH VCSEL BOTTOM MIRROR KNOW HOKI					
32	U.S.# APPL# P.D.#	10/078473 H0002992	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US03/07266 092103649	21FE2003 21FE2003	ISSUED: EXPIRES: PENDING	FILED EXPIRES
			FILED: 21FE2002 CARBON DOPED GaAsb SUITABEL FOR USE IN TUNNEL JUNCTIONS FOR KNOW HOKI					
33	U.S.# APPL#	10/078474	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US03/05471 092103650	21FE2003 21FE2003	ISSUED: EXPIRES: PENDING	FILED EXPIRES
			FILED: 21FE2002 GaAs/Al(Ga)AS DISTRIBUTED BRAGG REFLECTOR ON InP					

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	APPL#	10/162928	WAVELENGTH SELECTIVE DETECTOR	
	P.D.#	H0002499	JOHNSON RALPH H	FILED EXPIRES
39	U.S.#	Patent Cooperation Treaty	APPL.#	PCT/US03/18205 03JE2003
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	P.D.#	FILED: 04JE2002	ISSUED:	EXPPIRES: PENDING
		OPTICAL TRANSCEIVER		
		TATUM JIMMY A	GUENTER JAMES K	FILED EXPIRES
40	U.S.#	Patent Cooperation Treaty	APPL.#	PCT/US03/17524 04JE2003
	APPL#	Taiwan	APPL.#	092115239 05JE2003
	P.D.#	United States	APPL.#	000000 11DE2002
		FILED: 04JE2002	ISSUED:	EXPPIRES: PENDING
		METHOD AND APPARATUS FOR MONITORING THE POWER OF A MULTI-WAY		
		TATUM JIMMY A	GUENTER JAMES K	FILED EXPIRES
41	U.S.#	Patent Cooperation Treaty	APPL.#	PCT/US03/17523 04JE2003
	APPL#	Taiwan	APPL.#	92115237 05JE2003
	P.D.#	FILED: 14AU2002	ISSUED:	EXPPIRES: PENDING
		ATOMIC HYDROGEN AS A SURFACTANT IN PRODUCTION OF HIGHLY STRA		
		JOHNSON RALPH H		
42	U.S.#	Patent Cooperation Treaty	APPL.#	PCT/US03/27685 02SE2003
	APPL#	FILED: 03SE2002	ISSUED:	EXPPIRES: PENDING
	P.D.#	10/232382	SINGLE MODE VCSEL	
		10/232382	GUENTER JAMES K	JOHNSON RALPH H
		H0003313	FILED EXPIRES	
43	U.S.#	Patent Cooperation Treaty	APPL.#	PCT/US03/27463 04SE2003
	APPL#	FILED: 03SE2002	ISSUED:	EXPPIRES: PENDING
	P.D.#	10/233112	HYBRID MIRROR VCSELS	
		H0003250	JOHNSON RALPH H	WANG TZU-YU
44	U.S.#	Patent Cooperation Treaty	APPL.#	PCT/US03/27463 04SE2003
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	P.D.#	10/233625	NITROGEN SOURCES FOR MOLECULAR BEAM EPITAXY	
		H0003322	JOHNSON RALPH H	KIM JIN K
45	U.S.#	Patent Cooperation Treaty	APPL.#	PCT/US03/27463 04SE2003
	APPL#	FILED: 28OC2002	ISSUED:	EXPPIRES: PENDING
	P.D.#	10/283381	OXIDE CONFINED VCSEL WITH A THIN OXIDE AND ENHANCED CONDUCTI	
		H0003350	JOHNSON RALPH H	JOHNSON KLEIN L

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46				
U.S.#	10/283298		Patent Cooperation Treaty	APPL.# PCT/US03/33611 24OC2003
APPL#	H0003324		FILED: 30OC2002	ISSUED: EXPIRES: PENDING
P.D.#			LONG-WAVELENGTH VERTICAL CAVITY SURFACE EMITTING LASERS	
			KIM JIN K	
47				
U.S.#	10/283311		Patent Cooperation Treaty	APPL.# PCT/US03/40047 20NO2003
APPL#	H0003316		FILED: 30OC2002	ISSUED: EXPIRES: PENDING
P.D.#			SELECTIVELY-ETCHABLE HETEROGENEOUS COMPOSITE DISTRIBUTED BRA	
			KIM JIN K	
48				
U.S.#	10/283835		Patent Cooperation Treaty	APPL.# PCT/US03/40047 20NO2003
APPL#	H0004180		FILED: 30OC2002	ISSUED: EXPIRES: PENDING
P.D.#			METHOD AND APPARATUS FOR MONITORING THE POWER LEVEL OF TWO O	
			GUENTER JAMES K	
49				
U.S.#	10/284863		Patent Cooperation Treaty	APPL.# PCT/US03/40047 20NO2003
APPL#	H25545		FILED: 31OC2002	ISSUED: EXPIRES: PENDING
P.D.#			INTEGRATION OF TOP-EMITTING AND TOP-ILLUMINATED OPTOELECTRON	
			LIU YUE	
50				
U.S.#	10/292578		Patent Cooperation Treaty	APPL.# PCT/US03/40047 20NO2003
APPL#	H0001688		FILED: 11NO2002	ISSUED: EXPIRES: PENDING
P.D.#			HIGH SPEED OPTICAL TRANSDUCER PACKAGE USING HETEROGENEOUS	
			LIU YUE	
51				
U.S.#	10/301380		Patent Cooperation Treaty	APPL.# PCT/US03/40047 20NO2003
APPL#	H0004083		FILED: 21NO2002	ISSUED: EXPIRES: PENDING
P.D.#			LONG WAVELENGTH VCSEL WITH TUNNEL JUNCTION AND IMPLANT	
			JOHNSON RALPH H	
			WANG TZU-YU	
52				
U.S.#	10/308308		Patent Cooperation Treaty	APPL.# PCT/US03/40047 20NO2003
APPL#	H0004155		FILED: 03DE2002	ISSUED: EXPIRES: PENDING
P.D.#			BIDIRECTIONAL OPTICAL DEVICE	
			GUENTER JAMES K	
			TATUM JIMMY A	
53				
U.S.#	000000		Patent Cooperation Treaty	APPL.# PCT/US03/40047 20NO2003
APPL#	H0003474		FILED: 11DE2002	ISSUED: EXPIRES: PENDING
P.D.#			OPTICAL TRANSDUCER	
			TATUM JIMMY A	
			GUENTER JAMES K	

FILED EXPIRES

Patent Cooperation Treaty
 Taiwan
 United States

APPL.# PCT/US03/17524 04JUE2003
 APPL.# 092115239 05JUE2003
 APPL.# 10/163057 04JUE2002

EXPIRES: PENDING

U.S.#
 APPL# 10/316355
 P.D.# H0003980

FILED: 11DE2002
 OPTICAL TRANSDUCER (THIS IS A CIP OF H0003474)
 TATUM JIMMY A
 GUENTER CANES K

FILED EXPIRES

Patent Cooperation Treaty

APPL.# PCT/US03/39685 11DE2003

EXPIRES: PENDING

U.S.#
 APPL# 10/323889
 P.D.# H0002398

FILED: 20DE2002
 ANGLED WAFER ROTATING ION IMPLANTATION
 WANG TZU-YU

EXPIRES: PENDING

U.S.#
 APPL# 10/323923
 P.D.# H0002353

FILED: 20DE2002
 MATERIAL SYSTEM FOR BRAGG REFLECTOR IN LONG WAVELENGTH VCSEL
 KWON HOKI

EXPIRES: PENDING

U.S.#
 APPL# 10/347789
 P.D.# H0003694

FILED: 22JAE2003
 ZERO-CLEARANCE RECEPTACLE DESIGN FOR SINGLE MODE OPTICAL FIB
 BLASINGAME RAYMOND W
 CHEN BO SU
 ORENSTEIN JAMES D
 LEE JAMES C

EXPIRES: PENDING

U.S.#
 APPL# 10/350840
 P.D.# H16783

FILED: 24JAE2003
 VCSEL STRUCTURE INSENSITIVE TO MOBILE HYDROGEN
 JOHNSON RALPH R

FILED EXPIRES

Belgium
 France
 Great Britain
 Germany
 Italy
 Japan
 Netherlands
 Sweden
 Switzerland
 United States
 United States
 United States

PATENT# EPI038339 20NO1998 20NO2018
 PATENT# EPI038339 20NO1998 20NO2018
 PATENT# EPI038339 20NO1998 20NO2018
 PATENT# P69811398.5 20NO1998 20NO2018
 PATENT# EPI038339 20NO1998 20NO2018
 APPL.# PCT/US98/24703 20NO1998
 PATENT# EPI038339 20NO1998 20NO2018
 PATENT# EPI038339 20NO1998 20NO2018
 PATENT# EPI038339 20NO1998 20NO2018
 PATENT# 6256333 12DE1997 12DE2017
 PATENT# 6459719 03NO2000 12DE2017
 PATENT# 6522660 03NO2000 12DE2017

EXPIRES: PENDING

U.S.#
 APPL# 10/351710
 P.D.# H0003589

FILED: 27JAE2003
 WAFER INTEGRATION OF MICRO-OPTICS
 COX JAMES A
 JOHNSON KLEIN L

EXPIRES: PENDING

U.S.#
 APPL# 10/352293

FILED: 27JAE2003
 SYSTEM AND METHODS USING MIGRATION ENHANCED EPITAXY FOR FLAT

PATENT

REEL: 014468 FRAME: 0433

P.D.#	H0004081	BLASINGAME VIRGIL J	JOHNSON RALPH H		
61					
U.S.#		FILED: 14AP2003	ISSUED:	EXPIRES: PENDING	
APPL#	10/413186	METAMORPHIC LONG WAVELENGTH HIGH SPEED PHOTOCODE			
P.D.#	H0001519	JOHNSON RALPH H	BIARD JAMES R	GUENTER JAMES K	FILED EXPIRES
		Canada	APPL.#	2435607	22JAN2002
		European Patent Convention	APPL.#	02717369.9	22JAN2002
		Japan	APPL.#	2002-558345	22JAN2002
		United States	PATENT#	6558973	22JAN2001
62					
U.S.#		FILED: 01MY2003	ISSUED:	EXPIRES: PENDING	
APPL#	10/427337	PROTECTIVE SIDE WALL PASSIVATION FOR VCSEL CHIPS			
P.D.#	H25506	LIU YUE	MORGAN ROBERT A	NCHAVA JAMES C	
		STRZELECKI EVA M			
		Canada	APPL.#	2421009	30AUG2001
		European Patent Convention	APPL.#	01966374.9	30AUG2001
		Japan	APPL.#	2002-524271	30AUG2001
		Korea South	APPL.#	10-2003-7003120	30AUG2001
		Taiwan	APPL.#	90121615	31AUG2001
		United States	APPL.#	09/652555	31AUG2000
63					
U.S.#		FILED: 07MY2003	ISSUED:	EXPIRES: PENDING	
APPL#	10/430941	CONNECTORIZED OPTICAL COMPONENT MISALIGNMENT DETECTION SYSTE			
P.D.#	H0004792	WILLIAMS RICK S	LALONDE ANDRE R		
64					
U.S.#		FILED: 13MY2003	ISSUED:	EXPIRES: PENDING	
APPL#	10/43069	VCSEL MODE-TRANSFORMING PHASE FILTER WITH ENHANCED PERFORMAN			
P.D.#	H0003671	GUENTER JAMES K	COX JAMES A	JOHNSON RALPH H	
		BIARD ROBERT	JOHNSON KLEIN		
65					
U.S.#		FILED: 22MY2003	ISSUED:	EXPIRES: PENDING	
APPL#	10/444796	METHOD AND APPARATUS FOR HERMETICALLY SEALING PHOTONIC DEVIC			
P.D.#	H25171	ZHOU, Ping			
		European Patent Convention	APPL.#	99960433.3	18NOV1999
		Japan	APPL.#	592918/2000	18NOV1999
		United States	PATENT#	6588949	30DEC1998
66					
U.S.#		FILED: 03JUN2003	ISSUED:	EXPIRES: PENDING	
APPL#	10/453307	INTEGRATED SLEEVE PLUGGABLE PACKAGE			
P.D.#	H0004529	LEE JAMES C			
67					
U.S.#		FILED: 06JUN2003	ISSUED:	EXPIRES: PENDING	
APPL#	10/456123	PLUGGABLE OPTICAL OPTIC SYSTEM HAVING A LENS FIBER STOP			
P.D.#	H0003903	ORENSTEIN JAMES D	BLASINGAME RAYMOND W	LEE JAMES C	
		GUENTER JAMES K	CHEN BO SU		

68	U.S.#	FILED: 25JL2003	ISSUED:	EXPIRES: PENDING
	APPL#	IMP BASED LONG WAVELENGTH VCSEL		
	P.D.#	10/606104	WANG TZU-YU	RYOU JAE-HYUN
		H0004823	PARK GYOUNGWON	
			KIM JIN K	
69	U.S.#	FILED: 27JE2003	ISSUED:	EXPIRES: PENDING
	APPL#	A DIELECTRIC VCSEL GAIN GUIDE		
	P.D.#	10/607629	RYOU JAE-HYUN	
		H0004606	PARK GYOUNGWON	
70	U.S.#	FILED: 27JE2003	ISSUED:	EXPIRES: PENDING
	APPL#	VCSEL HAVING THERMAL MANAGEMENT		
	P.D.#	10/607758	RYOU JAE-HYUN	LIU YUE
		H0004788	RINGLE MICHAEL D	
71	U.S.#	FILED: 27JE2003	ISSUED:	EXPIRES: PENDING
	APPL#	ENHANCED LATERAL OXIDATION		
	P.D.#	10/607887	PARK GYOUNGWON	KWON HOKI
		H0004636	WANG TZU-YU	KIM JIN K
72	U.S.#	FILED: 30JE2003	ISSUED:	EXPIRES: PENDING
	APPL#	COMPACT PACKAGE DESIGN FOR VERTICAL CAVITY SURFACE EMITTING		
	P.D.#	10/607982	LIU YUE	
		H0004045		
73	U.S.#	FILED: 30JE2003	ISSUED:	EXPIRES: PENDING
	APPL#	A HIGH SPEED OPTICAL SYSTEM		
	P.D.#	10/610256	COX JAMES A	CHEN BO SU
		H0004286		
74	U.S.#	FILED: 02JL2003	ISSUED:	EXPIRES: PENDING
	APPL#	A LENS OPTICAL COUPLER		
	P.D.#	10/612660	CHEN BO SU	ELASINGAME RAYMOND W
		H0004667		ORENSTEIN JAMES D
75	U.S.#	FILED: 03JL2003	ISSUED:	EXPIRES: PENDING
	APPL#	PSEUDOMORPHIC LAYER IN TUNNEL DICTION VCSEL		
	P.D.#	10/611992	RYOU JAE-HYUN	
		H0004618		
76	U.S.#	FILED: 10JL2003	ISSUED:	EXPIRES: PENDING
	APPL#	VERSATILE METHOD AND SYSTEM FOR SINGLE MODE VCSELS		
	P.D.#	10/617290	JOHNSON RALPH H	MORALES GILBERTO
		H26341		
77	U.S.#	FILED: 11JL2003	ISSUED:	EXPIRES: PENDING
	APPL#	VERSATILE METHOD AND SYSTEM FOR SINGLE MODE VCSELS		
	P.D.#	10/617892	JOHNSON RALPH H	MORALES GILBERTO
		H26341		

	FILED	EXPIRES
78		
U.S.#	FILED: 16JUL2003	ISSUED:
APPL#	AN OPTICAL COUPLING SYSTEM	LI BERNARD Q
P.D.#	10/620489	LI BERNARD Q
	H0004251	
79		
U.S.#	FILED: 16JUL2003	ISSUED:
APPL#	COUPLER HAVING REDUCTION OF REFLECTIONS TO LIGHT SOURCE	CHEN BO SU
P.D.#	10/620512	CHEN BO SU
	H0004037	LI BERNARD Q
80		
U.S.#	FILED: 17JUL2003	ISSUED:
APPL#	OPTICAL COUPLING SYSTEM	LI BERNARD Q
P.D.#	10/622042	LI BERNARD Q
	H0004315	
81		
U.S.#	FILED: 18JUL2003	ISSUED:
APPL#	EDGE BEAD CONTROL METHOD AND APPARATUS	
P.D.#	10/623351	
	H0004337	
82		
U.S.#	FILED: 04AUG2003	ISSUED:
APPL#	MECHANICAL STABILIZATION OF LATTICE MISMATCHED QUANTUM WELLS	
P.D.#	10/634558	
	H17234	
83		
U.S.#	FILED: 24SEP2003	ISSUED:
APPL#	OPTOELECTRONIC DEVICES AND METHODS OF PRODUCTION	
P.D.#	10/669220	
	H0001589	
84		
U.S.#	FILED: 29OCT2003	ISSUED:
APPL#	LONG WAVELENGTH VCSEL DEVICE PROCESSING	
P.D.#	10/697660	
	H0004489	
85		
U.S.#	FILED: 31OCT2003	ISSUED:
APPL#	TUNNEL JUNCTION UTILIZING GAPSB, ALGAPSB	
P.D.#	10/697028	
	H0004288	

86 -----
U.S.# FILED: 14NOV2003 ISSUED: EXPIRES: PENDING
APPL# 10/706906 MODULATION DOPED TUNNEL JUNCTION
P.D.# HC004299 KIM JIN K
end -----

Active Disclosures - Rated for Filing as Patent Applications

1	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	LONG WAVELENGTH VCSEL ACTIVE REGION USING SB IN GRASIN BARRI		
2	P.D.#	JOHNSON RALPH H		
	H0003732			
3	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	DESIGNS FOR LONG WAVELENGTH (1200 TO 1800 NM EMISSION) VERTI		
4	P.D.#	KIM JIN K	WANG TZU-YU	
	H0003808			
5	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METHODS FOR POLARIZATION CONTROL IN VCSELS		
6	P.D.#	KIM JIN K		
	H0004365			
7	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	USE OF ALGARS CONFINING LAYERS IN ACTIVE REGIONS CONTAINING		
8	P.D.#	JOHNSON RALPH H		
	H0004841			
9	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	MULTICOMPONENT BARRIER LAYERS IN QUANTUM WELL ACTIVE REGIONS		
10	P.D.#	JOHNSON RALPH H		
	H0004842			
11	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	A PLANO-CONVEX LENS GENERATES A RING LIGHT PATTERN TO REDUC		
12	P.D.#	CHEN BO SU		
	H0005002			
13	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	CARRIER BONDED 1550 NM VCSEL DESIGN WITH INP SUBSTRATE REMOV		
14	P.D.#	KIM JIN K	KWON HOKI -	
	H0005074		PARK GYOUNGWON -	
15	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	DIGITAL ALLOY OXIDATION LAYERS		
16	P.D.#	RYOO JAE-HYUN -	KIM JIN K	
	H0005080			
17	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METAL-ASSISTED DBRS FOR THERMAL MANAGEMENT IN VCSELS		
18	P.D.#	KIM JIN K	WANG TZU-YU -	
	H0005083		PARK GYOUNGWON -	
19	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	NEW DBR USING THE COMBINATION OF II-VI AND III-V MATERIALS F		
20	P.D.#	KWON HOKI -		
	H0005115			
21	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	INALAS GROWN UNDER VERY LOW V/III TO ENHANCE THE OXIDATION R		
22	P.D.#	KWON HOKI -	WANG TZU-YU -	
	H0005125		RYOO JAE-HYUN -	
23	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METHODS FOR POLARIZATION CONTROL IN VCSELS		
24	P.D.#	KIM JIN K	PARK GYOUNGWON -	
	H0005125			
25	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	USE OF ALGARS CONFINING LAYERS IN ACTIVE REGIONS CONTAINING		
26	P.D.#	JOHNSON RALPH H		
	H0004841			
27	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	MULTICOMPONENT BARRIER LAYERS IN QUANTUM WELL ACTIVE REGIONS		
28	P.D.#	JOHNSON RALPH H		
	H0004842			
29	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	A PLANO-CONVEX LENS GENERATES A RING LIGHT PATTERN TO REDUC		
30	P.D.#	CHEN BO SU		
	H0005002			
31	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	CARRIER BONDED 1550 NM VCSEL DESIGN WITH INP SUBSTRATE REMOV		
32	P.D.#	KIM JIN K	KWON HOKI -	
	H0005074		PARK GYOUNGWON -	
33	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	DIGITAL ALLOY OXIDATION LAYERS		
34	P.D.#	RYOO JAE-HYUN -	KIM JIN K	
	H0005080			
35	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METAL-ASSISTED DBRS FOR THERMAL MANAGEMENT IN VCSELS		
36	P.D.#	KIM JIN K	WANG TZU-YU -	
	H0005083		PARK GYOUNGWON -	
37	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	NEW DBR USING THE COMBINATION OF II-VI AND III-V MATERIALS F		
38	P.D.#	KWON HOKI -		
	H0005115			
39	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	INALAS GROWN UNDER VERY LOW V/III TO ENHANCE THE OXIDATION R		
40	P.D.#	KWON HOKI -	WANG TZU-YU -	
	H0005125		RYOO JAE-HYUN -	
41	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METHODS FOR POLARIZATION CONTROL IN VCSELS		
42	P.D.#	KIM JIN K	PARK GYOUNGWON -	
	H0005125			
43	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	USE OF ALGARS CONFINING LAYERS IN ACTIVE REGIONS CONTAINING		
44	P.D.#	JOHNSON RALPH H		
	H0004841			
45	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	MULTICOMPONENT BARRIER LAYERS IN QUANTUM WELL ACTIVE REGIONS		
46	P.D.#	JOHNSON RALPH H		
	H0004842			
47	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	A PLANO-CONVEX LENS GENERATES A RING LIGHT PATTERN TO REDUC		
48	P.D.#	CHEN BO SU		
	H0005002			
49	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	CARRIER BONDED 1550 NM VCSEL DESIGN WITH INP SUBSTRATE REMOV		
50	P.D.#	KIM JIN K	KWON HOKI -	
	H0005074		PARK GYOUNGWON -	
51	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	DIGITAL ALLOY OXIDATION LAYERS		
52	P.D.#	RYOO JAE-HYUN -	KIM JIN K	
	H0005080			
53	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METAL-ASSISTED DBRS FOR THERMAL MANAGEMENT IN VCSELS		
54	P.D.#	KIM JIN K	WANG TZU-YU -	
	H0005083		PARK GYOUNGWON -	
55	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	NEW DBR USING THE COMBINATION OF II-VI AND III-V MATERIALS F		
56	P.D.#	KWON HOKI -		
	H0005115			
57	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	INALAS GROWN UNDER VERY LOW V/III TO ENHANCE THE OXIDATION R		
58	P.D.#	KWON HOKI -	WANG TZU-YU -	
	H0005125		RYOO JAE-HYUN -	
59	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METHODS FOR POLARIZATION CONTROL IN VCSELS		
60	P.D.#	KIM JIN K	PARK GYOUNGWON -	
	H0005125			
61	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	USE OF ALGARS CONFINING LAYERS IN ACTIVE REGIONS CONTAINING		
62	P.D.#	JOHNSON RALPH H		
	H0004841			
63	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	MULTICOMPONENT BARRIER LAYERS IN QUANTUM WELL ACTIVE REGIONS		
64	P.D.#	JOHNSON RALPH H		
	H0004842			
65	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	A PLANO-CONVEX LENS GENERATES A RING LIGHT PATTERN TO REDUC		
66	P.D.#	CHEN BO SU		
	H0005002			
67	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	CARRIER BONDED 1550 NM VCSEL DESIGN WITH INP SUBSTRATE REMOV		
68	P.D.#	KIM JIN K	KWON HOKI -	
	H0005074		PARK GYOUNGWON -	
69	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	DIGITAL ALLOY OXIDATION LAYERS		
70	P.D.#	RYOO JAE-HYUN -	KIM JIN K	
	H0005080			
71	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METAL-ASSISTED DBRS FOR THERMAL MANAGEMENT IN VCSELS		
72	P.D.#	KIM JIN K	WANG TZU-YU -	
	H0005083		PARK GYOUNGWON -	
73	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	NEW DBR USING THE COMBINATION OF II-VI AND III-V MATERIALS F		
74	P.D.#	KWON HOKI -		
	H0005115			
75	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	INALAS GROWN UNDER VERY LOW V/III TO ENHANCE THE OXIDATION R		
76	P.D.#	KWON HOKI -	WANG TZU-YU -	
	H0005125		RYOO JAE-HYUN -	
77	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METHODS FOR POLARIZATION CONTROL IN VCSELS		
78	P.D.#	KIM JIN K	PARK GYOUNGWON -	
	H0005125			
79	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	USE OF ALGARS CONFINING LAYERS IN ACTIVE REGIONS CONTAINING		
80	P.D.#	JOHNSON RALPH H		
	H0004841			
81	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	MULTICOMPONENT BARRIER LAYERS IN QUANTUM WELL ACTIVE REGIONS		
82	P.D.#	JOHNSON RALPH H		
	H0004842			
83	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	A PLANO-CONVEX LENS GENERATES A RING LIGHT PATTERN TO REDUC		
84	P.D.#	CHEN BO SU		
	H0005002			
85	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	CARRIER BONDED 1550 NM VCSEL DESIGN WITH INP SUBSTRATE REMOV		
86	P.D.#	KIM JIN K	KWON HOKI -	
	H0005074		PARK GYOUNGWON -	
87	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	DIGITAL ALLOY OXIDATION LAYERS		
88	P.D.#	RYOO JAE-HYUN -	KIM JIN K	
	H0005080			
89	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METAL-ASSISTED DBRS FOR THERMAL MANAGEMENT IN VCSELS		
90	P.D.#	KIM JIN K	WANG TZU-YU -	
	H0005083		PARK GYOUNGWON -	
91	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	NEW DBR USING THE COMBINATION OF II-VI AND III-V MATERIALS F		
92	P.D.#	KWON HOKI -		
	H0005115			
93	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	INALAS GROWN UNDER VERY LOW V/III TO ENHANCE THE OXIDATION R		
94	P.D.#	KWON HOKI -	WANG TZU-YU -	
	H0005125		RYOO JAE-HYUN -	
95	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	METHODS FOR POLARIZATION CONTROL IN VCSELS		
96	P.D.#	KIM JIN K	PARK GYOUNGWON -	
	H0005125			
97	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	USE OF ALGARS CONFINING LAYERS IN ACTIVE REGIONS CONTAINING		
98	P.D.#	JOHNSON RALPH H		
	H0004841			
99	U.S.#	FILED:	ISSUED:	EXPIRES: DISCLOSURE
	APPL#	MULTICOMPONENT BARRIER LAYERS IN QUANTUM WELL ACTIVE REGIONS		
100	P.D.#	JOHNSON RALPH H		
	H0004842			

APPL# THE USE OF MIGRATION ENHANCED EPITAXY IN LOW TEMPERATURE GRC
P.D.# H0005268
13 -----
U.S.# FILED: ISSUED: EXPIRES: DISCLOSURE
APPL# ELECTRON AFFINITY ENGINEERING FOR VCSELS
P.D.# H0005284 BJARD JAMES R JOHNSON RALPH H JOHNSON KLEIN L
14 -----
U.S.# FILED: ISSUED: EXPIRES: DISCLOSURE
APPL# DESIGN AN EMBEDDED REFLECTIVE SURFACE IN A MOULDED LENS FOR SI
P.D.# H0005285 CHEN BO SU BJARD JAMES R
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U.S.# FILED: ISSUED: EXPIRES: DISCLOSURE
APPL# METHOD TO ACHIEVE PRECISION RELATIONAL FIT BETWEEN TO HEADER
P.D.# H0005590 KURI TUFFIK STOLYAR MARK G. SPANIOTTI JAMES L.
16 -----
U.S.# FILED: ISSUED: EXPIRES: DISCLOSURE
APPL# FLEX CIRCUIT TO CIRCUIT BOARD RETAINING STAPLE
P.D.# H0005869 JOHNSON KLEIN L LIU YUE -
end -----

Patents and Patent Applications (Acquired from Motorola)

Patent No.	Country	Status	Patent No.	Issue Date	Patent No.	Issue Date	Description
1	USA	GRANTED	756695	09-Sep-91	5164949	17-Nov-92	VERTICAL CAVITY SURFACE EMITTING LASER WITH LATERAL INJECTION
1	JAPA	GRANTED	4-262724	07-Sep-92	3339706	16-Aug-02	SEMICONDUCTOR LASER AND METHOD OF FABRICATING
2	USA	GRANTED	08/124065	21-Sep-93	5388120	07-Feb-95	VCSEL WITH UNSTABLE RESONATOR
3	USA	GRANTED	857877	26-Mar-92	5256596	26-Oct-93	TOP EMITTING VCSEL WITH IMPLANT
3	JAPA	GRANTED	5-87758	24-Mar-93	3306161	10-May-02	TOP EMITTING VCSEL WITH IMPLANT
4	USA	GRANTED	858288	26-Mar-92	5258316	02-Nov-93	PATTERNED MIRROR VERTICAL CAVITY SURFACE EMITTING LASER
5	USA	GRANTED	857856	26-Mar-92	5274655	28-Dec-93	TEMPERATURE INSENSITIVE VERTICAL CAVITY SURFACE EMITTING LASER
6	USA	GRANTED	08/271534	07-Jul-94	5446752	29-Aug-95	VCSEL WITH CURRENT BLOCKING LAYER OFFSET
7	USA	GRANTED	922719	31-Jul-92	5293392	08-Mar-94	TOP EMITTING VCSEL WITH ETCH STOP LAYER
8	USA	GRANTED	925139	06-Aug-92	5317587	31-May-94	VCSEL WITH SEPARATE CONTROL OF CURRENT DISTRIBUTION AND OPTICAL MODE
9	USA	GRANTED	08/020959	22-Feb-93	5337327	09-Aug-94	VCSEL WITH LATERAL INDEX GUIDE
9	USA	GRANTED	08/218402	28-Mar-94	5387543	07-Feb-95	METHOD OF MAKING A VCSEL WITH LATERAL INDEX GUIDE
9	NETH	GRANTED	94104719.3	24-Mar-94	EP0674367	29-Dec-97	VCSEL WITH LATERAL INDEX GUIDE
9	GERM	GRANTED	94104719.3	24-Mar-94	P69407566.3	29-Dec-97	VCSEL WITH LATERAL INDEX GUIDE
9	GBRI	GRANTED	94104719.3	24-Mar-94	EP0674367	29-Dec-97	VCSEL WITH LATERAL INDEX GUIDE
9	FRAN	GRANTED	94104719.3	24-Mar-94	EP0674367	29-Dec-97	VCSEL WITH LATERAL INDEX GUIDE
10	USA	GRANTED	028015	08-Mar-93	5351257	27-Sep-94	VCSEL WITH VERTICAL OFFSET OPERATING REGION PROVIDING A LATERAL WAVEGUIDE AND CURRENT LIMITING AND METHOD OF FABRICATION
10	JAPA	GRANTED	6-40594	16-Feb-94	3027901	04-Feb-00	VCSEL WITH LATERAL WAVEGUIDE AND CURRENT LIMITING
11	USA	GRANTED	08/069812	01-Jun-93	5359618	25-Oct-94	HIGH EFFICIENCY VCSEL AND METHOD OF FABRICATION
12	USA	GRANTED	08/075934	14-Jun-93	6156582	05-Dec-00	METHOD OF FABRICATING TOP EMITTING RIDGE VCSEL WITH SELF-ALIGNED CONTACT AND SIDEWALL REFLECTOR
12	JAPA	FILED	6-147025	07-Jun-94			METHOD OF FABRICATING TOP EMITTING RIDGE VCSEL WITH SELF-ALIGNED CONTACT AND SIDEWALL REFLECTOR
13	USA	GRANTED	08/151634	15-Nov-93	5422901	06-Jun-95	A SEMICONDUCTOR DEVICE WITH HIGH HEAT CONDUCTIVITY
13	USA	GRANTED	08/443609	18-May-95	5538919	23-Jul-96	A SEMICONDUCTOR DEVICE WITH HIGH HEAT CONDUCTIVITY
13	TAW	GRANTED	83109217	05-Oct-94	NI-083506	21-Jan-97	A SEMICONDUCTOR DEVICE WITH HIGH HEAT CONDUCTIVITY
13	GERM	GRANTED	94117496.3	07-Nov-94	69412968.2	02-Sep-98	A SEMICONDUCTOR DEVICE WITH HIGH HEAT CONDUCTIVITY
13	GBRI	GRANTED	94117496.3	07-Nov-94	EP0653823	02-Sep-98	A SEMICONDUCTOR DEVICE WITH HIGH HEAT CONDUCTIVITY

13	FRAN	GRANTED	94117496.3	07-Nov-94	EP0653623	02-Sep-98	A SEMICONDUCTOR DEVICE WITH HIGH HEAT CONDUCTIVITY
14	USA	GRANTED	08/210851	21-Mar-94	5400352	21-Mar-95	SEMICONDUCTOR LASER AND METHOD THEREFOR
14	TAIW	GRANTED	84100220	11-Jan-95	NI-085158	16-Jul-97	SEMICONDUCTOR LASER AND METHOD THEREFOR
14	JAPA	FILED	7-65279	01-Mar-95			SEMICONDUCTOR LASER AND METHOD THEREFOR
14	GERM	GRANTED	95103479.2	10-Mar-95	69508962.0	02-Jun-99	SEMICONDUCTOR LASER AND METHOD THEREFOR
14	GBRI	GRANTED	95103479.2	10-Mar-95	EP0674371	02-Jun-99	SEMICONDUCTOR LASER AND METHOD THEREFOR
14	FRAN	GRANTED	95103479.2	10-Mar-95	EP0674371	02-Jun-99	SEMICONDUCTOR LASER AND METHOD THEREFOR
15	USA	GRANTED	08/529468	18-Sep-95	5547898	20-Aug-96	METHOD FOR P-DOPING OF A LIGHT-EMITTING DEVICE
15	KORS	GRANTED	10/1995-0019555	05-Jul-95	346532	16-Jul-02	METHOD FOR P-DOPING OF A LIGHT-EMITTING DEVICE
15	JAPA	FILED	7-189756	04-Jul-95			METHOD FOR P-DOPING OF A LIGHT-EMITTING DEVICE
16	USA	GRANTED	08/261502	15-Jun-94	5432809	11-Jul-95	VCSEL WITH A1-FREE CAVITY REGION
16	TAIW	GRANTED	84105244	24-May-95	NI-075480	21-Nov-95	VCSEL WITH A1-FREE CAVITY REGION
16	KORS	GRANTED	10-1995-0015822	15-Jun-95	381985	15-Apr-03	VCSEL WITH A1-FREE CAVITY REGION
16	JAPA	FILED	7-167886	12-Jun-95			VCSEL WITH A1-FREE CAVITY REGION
17	USA	GRANTED	08/261272	15-Jun-94	5557626	17-Sep-96	PATTERNED MIRROR VCSEL WITH ADJUSTABLE SELECTIVE ETCH REGION
17	TAIW	GRANTED	84105207	24-May-95	NI-075479	15-Apr-96	PATTERNED MIRROR VCSEL WITH ADJUSTABLE SELECTIVE ETCH REGION
17	KORS	GRANTED	10-1995-0015823	15-Jun-95	341946	12-Jun-02	PATTERNED MIRROR VCSEL WITH ADJUSTABLE SELECTIVE ETCH REGION
17	JAPA	FILED	7-167887	12-Jun-95			A PATTERNED MIRROR VCSEL WITH ADJUSTABLE SELECTIVE ETCH REGION
18	USA	GRANTED	08/384054	06-Feb-95	5661075	26-Aug-97	VCSEL WITH PASSIVATION
19	USA	GRANTED	08/407062	17-Mar-95	5482891	09-Jan-96	VCSEL WITH AN INTEGRATED HEAT SINK AND METHOD OF MAKING
20	USA	GRANTED	08/566388	01-Dec-95	5831295	03-Nov-98	CURRENT CONFINEMENT VIA DEFECT GENERATOR AND HETERO-INTERFACE INTERACTION
21	USA	GRANTED	08/346558	29-Nov-94	5468656	21-Nov-95	METHOD FOR MAKING A VCSEL
21	TAIW	GRANTED	84109916	21-Sep-95	NI-101440	01-Mar-99	METHOD FOR MAKING A VCSEL
21	NETH	GRANTED	95117900.1	14-Nov-95	EP0715378	20-Oct-99	METHOD FOR MAKING A VCSEL
21	JAPA	FILED	7-319810	15-Nov-95			METHOD FOR MAKING A VCSEL
21	GERM	GRANTED	95117900.1	14-Nov-95	69512870.1	20-Oct-99	METHOD FOR MAKING A VCSEL
21	GBRI	GRANTED	95117900.1	14-Nov-95	EP0715378	20-Oct-99	METHOD FOR MAKING A VCSEL
21	FRAN	GRANTED	95117900.1	14-Nov-95	EP0715378	20-Oct-99	METHOD FOR MAKING A VCSEL
22	USA	GRANTED	08/407061	17-Mar-95	5654228	05-Aug-97	VCSEL HAVING A SELF-ALIGNED HEAT SINK AND METHOD OF MAKING
23	USA	GRANTED	08/682473	17-Jul-96	5719893	17-Feb-98	PASSIVATED VERTICAL CAVITY SURFACE EMITTING LASER
23	JAPA	FILED	9-202435	11-Jul-97			PASSIVATED VERTICAL CAVITY SURFACE EMITTING LASER
24	USA	GRANTED	08/616419	15-Mar-96	5832017	03-Nov-98	RELIABLE NEAR IR VCSEL

25	USA	GRANTED	08/692003	01-Jul-96	5703892	30-Dec-97	METHOD OF MODE DETECTION AND C ONTROL IN SEMICONDUCTOR LASERS
25	KORS	FILED	10-1997-0027673	26-Jun-97			METHOD OF MODE DETECTION AND C ONTROL IN SEMICONDUCTOR LASERS
25	JAPA	FILED	9-191819	01-Jul-97			METHOD OF MODE DETECTION AND C ONTROL IN SEMICONDUCTOR LASERS
26	USA	GRANTED	08/963624	04-Nov-97	5995531	30-Nov-99	VCSEL HAVING POLARIZATION CONT ROL
27	USA	GRANTED	08/762475	09-Dec-96	5848086	08-Dec-98	ELECTRICALLY CONFINED VCSEL
28	USA	GRANTED	08/762489	09-Dec-96	5732103	24-Mar-98	LONG WAVELENGTH VCSEL
29	USA	GRANTED	08/762490	09-Dec-96	5883912	16-Mar-99	LONG WAVELENGTH VCSEL
30	USA	GRANTED	08/795260	10-Feb-97	5914973	22-Jun-99	VERTICAL CAVITY SURFACE EMITTING LASER FOR HIGH POWER OPERATION AND METHOD OF FABRICATION
30	TAIW	GRANTED	87101797	10-Mar-98	NI-104797	01-Jul-99	VERTICAL CAVITY SURFACE EMITTING LASER FOR HIGH POWER OPERATION AND METHOD OF FABRICATION
30	JAPA	FILED	10-46204	10-Feb-98			VERTICAL CAVITY SURFACE EMITTING LASER FOR HIGH POWER OPERATION AND METHOD OF FABRICATION
30	GERM	GRANTED	98102181.9	09-Feb-98	69813655.1	23-Apr-03	VERTICAL CAVITY SURFACE EMITTING LASER FOR HIGH POWER OPERATION AND METHOD OF FABRICATION
30	GBRI	GRANTED	98102181.9	09-Feb-98	EP0860915	23-Apr-03	VERTICAL CAVITY SURFACE EMITTING LASER FOR HIGH POWER OPERATION AND METHOD OF FABRICATION
30	FRAN	GRANTED	98102181.9	09-Feb-98	EP0860915	23-Apr-03	VERTICAL CAVITY SURFACE EMITTING LASER FOR HIGH POWER OPERATION AND METHOD OF FABRICATION
30	EPC	GRANTED	98102181.9	09-Feb-98	EP0860915	23-Apr-03	VERTICAL CAVITY SURFACE EMITTING LASER FOR HIGH POWER OPERATION AND METHOD OF FABRICATION
31	USA	GRANTED	08/959572	28-Oct-97	6026111	15-Feb-00	VERTICAL CAVITY SURFACE EMITTING LASER DEVICE HAVING AN EXTENDED CAVITY
32	USA	GRANTED	08/734569	21-Oct-96	5764671	09-Jun-98	VCSEL WITH SELECTIVE OXIDE TRA NSITION REGIONS
33	USA	GRANTED	08/743288	04-Nov-96	5838705	17-Nov-98	LIGHT EMITTING DEVICE HAVING A DEFECT INHIBITION LAYER
34	USA	GRANTED	08/795261	10-Feb-97	5835521	10-Nov-98	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITTING LASER AND METHOD OF FABRICATION
35	USA	GRANTED	09/047954	26-Mar-98	6121068	19-Sep-00	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITTING LASER AND METHOD OF FABRICATION
34	TAIW	GRANTED	87101798	10-Mar-98	NI-110433	11-Jan-00	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITTING LASER AND METHOD OF FABRICATION
34	JAPA	FILED	10-46205	10-Feb-98			LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITTING LASER AND METHOD OF FABRICATION
34	GERM	GRANTED	98102210.6	09-Feb-98	69809482.4	20-Nov-02	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITTING LASER AND METHOD OF FABRICATION

PATENT

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