PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Honeywell International Inc.	03/01/2004

RECEIVING PARTY DATA

Name:	Finisar Corporation
Street Address:	1389 Moffett Park Drive
City:	Sunnyvale
State/Country:	CALIFORNIA
Postal Code:	94089

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10933876

OP $40.00 10933876

CORRESPONDENCE DATA

Fax Number: (801)328-1707
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 801-533-9800
Email: tterry@wnlaw.com
Correspondent Name: Eric L. Maschoff
Address Line 1: 60 E. South Temple
Address Line 2: Suite 1000
Address Line 4: Salt Lake City, UTAH 84111

ATTORNEY DOCKET NUMBER:	14384.439.1.1
NAME OF SUBMITTER:	Eric L. Maschoff, Reg No: 36,596

Total Attachments: 41
source=15436.439.1.1 Honeywell to Finisar Assignment#page1.tif
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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 Pâtents 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

Title: Senior Vice President, Finance, Chief 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

C 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

Execution Copy

EXHIBIT A

EXHIBIT A
TO
PATENT ASSIGNMENT

Issued Patents

1 ----------

U.S.#	5231686	FILED: 17JL1992	ISSUED: 27JL1993	EXPIRES: 17JL2012
APPL#	07/916785	OPTICAL CONNECTOR CONFIGURED TO FACILITATE ACTIVE ALIGNMENT		
P.D.#	H15001	RABINOVICH, Simon M.		

2 ----------

U.S.#	5264715	FILED: 06JL1992	ISSUED: 23NO1993	EXPIRES: 06JL2012
APPL#	07/909270	EMITTING WITH STRUCTURES LOCATED AT POSITIONS WHICH PREVENT		
P.D.#	H14891	GUENTER, James Kenneth JOHNSON, Ralph Herbert		

3 ----------

U.S.#	5475701	FILED: 29DE1993	ISSUED: 12DE1995	EXPIRES: 29DE2013
APPL#	08/175016	INTEGRATED LASER POWER MONITOR		
P.D.#	H15433	HIBBS-BRENNER, Mary K.		

			FILED	EXPIRES
France	PATENT#	0737376	16DE1994	16DE2014
Great Britain	PATENT#	0737376	16DE1994	16DE2014
Germany	PATENT#	69409834.5	16DE1994	16DE2014

4 ----------

U.S.#	5574738	FILED: 07JE1995	ISSUED: 12NO1996	EXPIRES: 07JE2015
APPL#	08/476965	MULTI-GIGAHERTZ FREQUENCY-MODULATED VERTICAL-CAVITY SURFACE		
P.D.#	H16158	MORGAN, Robert A.		

			FILED	EXPIRES
Canada	APPL.#	2221308	28MY1996	
France	PATENT#	EP0830718	28MY1996	28MY2016
Great Britain	PATENT#	EP0830718	28MY1996	28MY2016
Germany	PATENT#	P69610499.7	28MY1996	28MY2016
Japan	APPL.#	500739/97	28MY1996	

5 ----------

U.S.#	5737348	FILED: 28OC1996	ISSUED: 07AP1998	EXPIRES: 28OC2016
APPL#	08/739471	LIGHT SOURCE MONITOR WITH COMPENSATED TRACKING RATIO		
P.D.#	H16618	SMITH, David F.		

6 ----------

U.S.#	5745515	FILED: 18JL1996	ISSUED: 28AP1998	EXPIRES: 18JL2016
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: 28JE1996	ISSUED: 09JE1998	EXPIRES: 28JE2016
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	APPL.#	2257888	23JE1997	
France	PATENT#	EP0907994	23JE1997	23JE2017
France	PATENT#	EP1176680	17SE2001	23JE2017
Great Britain	PATENT#	EP0907994	23JE1997	23JE2017
Great Britain	PATENT#	EP1176680	17SE2001	23JE2017
Germany	PATENT#	P69711878.9	23JE1997	23JE2017
Germany	PATENT#	EP1176680	17SE2001	23JE2017
Italy	PATENT#	EP0907994	23JE1997	23JE2017
Italy	PATENT#	EP1176680	17SE2001	23JE2017
Japan	APPL.#	504222/98	23JE1997	
Sweden	PATENT#	EP0907994	23JE1997	23JE2017
Sweden	PATENT#	EP1176680	17SE2001	23JE2017
Switzerland	PATENT#	EP0907994	23JE1997	23JE2017
Switzerland	PATENT#	EP1176680	17SE2001	23JE2017

8

U.S.# 5774487 FILED: 16OC1996 ISSUED: 30JE1998 EXPIRES: 16OC2016
APPL# 08/734403 FILAMENTED MULTI-WAVELENGTH VERTICAL-CAVITY SURFACE EMITTING
P.D.# H16131 MORGAN, Robert A.

			FILED	EXPIRES
European Patent Convention	APPL.#	97949337.6	23OC1997	
Japan	APPL.#	2000-517465	23OC1997	
Patent Cooperation Treaty	APPL.#	PCT/US97/18952	23OC1997	

9

U.S.# 5799030 FILED: 26JL1996 ISSUED: 25AU1998 EXPIRES: 26JL2016
APPL# 08/687701 SEMI-CONDUCTOR DEVICE WITH A LASER AND A PHOTODETECTOR IN A
P.D.# H16403 HIBBS-BRENNER,M.

10

U.S.# 5805318 FILED: 04NO1996 ISSUED: 08SE1998 EXPIRES: 04NO2016
APPL# 08/743367 APPARATUS FOR DETERMINING THE EFFECT OF MODAL NOISE ON A COM
P.D.# H16432 RABINOVICH, Simon M. SMITH, David F.

11

U.S.# 5812581 FILED: 26JL1996 ISSUED: 22SE1998 EXPIRES: 26JL2016
APPL# 08/686895 LENS FOR A SEMICONDUCTIVE DEVICE WITH A LASER AND PHOTODETEC
P.D.# H16625 COX,J.A.

12

U.S.# 5841915 FILED: 04NO1996 ISSUED: 24NO1998 EXPIRES: 04NO2016
APPL# 08/743369 APPARATUS FOR DETERMINING THE EFFECT OF MODAL NOISE ON A COM
P.D.# H16433 RABINOVICH, Simon M. SMITH, David F.

13

U.S.# 5893722 FILED: 28AP1997 ISSUED: 13AP1999 EXPIRES: 28JE2016
APPL# 08/843116 FABRICATION OF VERTICAL CAVITY SURFACE EMITTING LASER WITH C
P.D.# H16979 BIARD, James R. HIBBS-BRENNER, Mary K.

14

U.S.# 5903588 FILED: 06MR1997 ISSUED: 11MY1999 EXPIRES: 06MR2017
APPL# 08/812620 LASER WITH A SELECTIVELY CHANGED CURRENT CONFINING LAYER
P.D.# H16666 GUENTER, James Kenneth JOHNSON, Ralph Herbert

			FILED	EXPIRES
European Patent Convention	APPL.#	03075005.3	02JA2003	
Great Britain	PATENT#	EP0985255	04MR1998	04MR2018

	Germany	PATENT#	P69814379.5	04MR1998	04MR2018	
	Japan	APPL.#	538720/98	04MR1998		

15

U.S.#	5940422	FILED: 28JE1996	ISSUED: 17AU1999	EXPIRES:	28JE2016
APPL#	08/674230	LASER WITH AN IMPROVED MODE CONTROL			
P.D.#	H16410	JOHNSON, Ralph Herbert			

16

U.S.#	5978401	FILED: 25OC1996	ISSUED: 02NO1999	EXPIRES:	25OC2016
APPL#	08/736803	MONOLITHIC VERTICAL CAVITY SURFACE EMITTING LASER AND RESONA			
P.D.#	H16335	MORGAN, Robert A.			

17

U.S.#	6055262	FILED: 11JE1997	ISSUED: 25AP2000	EXPIRES:	11JE2017
APPL#	08/872534	RESONANT REFLECTOR FOR IMPROVED OPTOELECTRTONIC DEVICE PERFO			
P.D.#	H16564	COX JAMES A	MORGAN ROBERT A		

			FILED	EXPIRES
Canada	APPL.#	2286838	10JE1998	
European Patent Convention	APPL.#	98926468.4	10JE1998	
European Patent Convention	APPL.#	03075016.0	06JA2003	
Japan	APPL.#	503093/99	10JE1998	

18

U.S.#	6064683	FILED: 12DE1997	ISSUED: 16MY2000	EXPIRES:	12DE2017
APPL#	08/989734	BANDGAP ISOLATED LIGHT EMITTER			
P.D.#	H16870	JOHNSON RALPH H			

			FILED	EXPIRES
Belgium	PATENT#	EP1048081	20NO1998	20NO2018
European Patent Convention	APPL.#	02080608.9	31DE2002	
France	PATENT#	EP1048081	20NO1998	20NO2018
Great Britain	PATENT#	EP1048081	20NO1998	20NO2018
Germany	PATENT#	P69813899.6	20NO1998	20NO2018
Italy	PATENT#	EP1048081	20NO1998	20NO2018
Japan	APPL.#	PCT/US98/24702	20NO1998	
Netherlands	PATENT#	EP1048081	20NO1998	20NO2018
Sweden	PATENT#	EP1048081	20NO1998	20NO2018
Switzerland	PATENT#	EP1048081	20NO1998	20NO2018

19

U.S.#	6069905	FILED: 31DE1997	ISSUED: 30MY2000	EXPIRES:	31DE2017
APPL#	09/001894	VERTICAL CAVITY SURFACE EMITTING LASER HAVING INTENSITY CONT			
P.D.#	H16885	DAVIS RICHARD A	GUENTER JAMES K	MATZEN WALTER T	
		SMITH DAVID F			

20

U.S.#	6069991	FILED: 14AU1998	ISSUED: 30MY2000	EXPIRES:	31DE2016
APPL#	09/134229	FLEXIBLE OPTIC CONNECTOR ASSEMBLY			
P.D.#	H16270	HIBBS-BRENNER, Mary K.	WALKER, JR., Harold Youn		

			FILED	EXPIRES
France	PATENT#	EP0950204	13NO1997	13NO2017
Great Britain	PATENT#	EP0950204	13NO1997	13NO2017
Germany	PATENT#	P69710098.7	13NO1997	13NO2017
Japan	APPL.#	529991/98	13NO1997	

Sweden	PATENT#	EP0950204	13NO1997	13NO2017	
United States	APPL.#	10/136871	30AP2002		
United States	PATENT#	6404960	15MR1999	31DE2016	
United States	PATENT#	6088498	14AU1998	31DE2016	

21

U.S.#	6078601	FILED: 07MR1997	ISSUED: 20JE2000	EXPIRES: 07MR2017
APPL#	08/813751	METHOD FOR CONTROLLING THE OPERATION OF A LASER		
P.D.#	H16741	SMITH, David F.		

22

U.S.#	6081638	FILED: 20JL1998	ISSUED: 27JE2000	EXPIRES: 20JL2018
APPL#	09/119089	FIBER OPTIC HEADER WITH INTEGRATED POWER MONITOR		
P.D.#	H17042	ZHOU, Ping		

			FILED	EXPIRES
European Patent Convention	APPL.#	99113830.6	15JL1999	
United States	APPL.#	09/481627	12JA2000	

23

U.S.#	6086263	FILED: 13JE1996	ISSUED: 11JL2000	EXPIRES: 13JE2016
APPL#	08/664039	ACTIVE DEVICE RECEPTACLE		
P.D.#	H17003	DOSS, Donald G	GUENTER, James Kenneth	PARRETT, George W.
		SELLI, Raman K	WALTRIP, Philip W	

			FILED	EXPIRES
Argentina	APPL.#	P970102575	13JE1997	
India	APPL.#	1273/MAS/97	12JE1997	
Malaysia	APPL.#	PI9702640	13JE1997	
South Africa	PATENT#	97/5133	10JE1997	10JE2017
Taiwan	PATENT#	NI097734	13JE1997	12JE2017
Venezuela	APPL.#	1118/97	13JE1997	

24

U.S.#	6088498	FILED: 14AU1998	ISSUED: 11JL2000	EXPIRES: 31DE2016
APPL#	09/135412	FLEXIBLE OPTIC CONNECTOR ASSEMBLY		
P.D.#	H16270	HIBBS-BRENNER, Mary K.	WALKER, JR., Harold Youn	

			FILED	EXPIRES
France	PATENT#	EP0950204	13NO1997	13NO2017
Great Britain	PATENT#	EP0950204	13NO1997	13NO2017
Germany	PATENT#	P69710098.7	13NO1997	13NO2017
Japan	APPL.#	529991/98	13NO1997	
Sweden	PATENT#	EP0950204	13NO1997	13NO2017
United States	APPL.#	10/136871	30AP2002	
United States	PATENT#	6069991	14AU1998	31DE2016
United States	PATENT#	6404960	15MR1999	31DE2016

25

U.S.#	6095697	FILED: 31MR1998	ISSUED: 01AU2000	EXPIRES: 31MR2018
APPL#	09/052643	CHIP-TO-INTERFACE ALIGNMENT		
P.D.#	H16958	HAMILTON PATRICK M	LEHMAN JOHN A	

			FILED	EXPIRES
Canada	APPL.#	2326644	29MR1999	
France	PATENT#	EP1068552	29MR1999	29MR2019

Great Britain	PATENT#	EP1068552	29MR1999	29MR2019	
Germany	PATENT#	P69900287.7	29MR1999	29MR2019	
Japan	APPL.#	541551-2000	29MR1999		
Netherlands	PATENT#	EP1068552	29MR1999	29MR2019	
Switzerland	PATENT#	EP1068552	29MR1999	29MR2019	

26

U.S.# 6194789 FILED: 22DE1997 ISSUED: 27FE2001 EXPIRES: 22DE2017
APPL# 08/995690 FLEXIBLE HERMETIC SEALING
P.D.# H17074 ZHOU PING

27

U.S.# 6205274 FILED: 20JL1998 ISSUED: 20MR2001 EXPIRES: 20JL2018
APPL# 09/119273 FIBER OPTIC HEADER FOR AN EDGE EMITTING LASER
P.D.# H25126 ZHOU, Ping

28

U.S.# 6256333 FILED: 12DE1997 ISSUED: 03JL2001 EXPIRES: 12DE2017
APPL# 08/989731 VCSEL STRUCTURE INSENSTITIVE TO MOBILE HYDROGEN
P.D.# H16783 JOHNSON RALPH H

			FILED	EXPIRES
Belgium	PATENT#	EP1038339	20NO1998	20NO2018
France	PATENT#	EP1038339	20NO1998	20NO2018
Great Britain	PATENT#	EP1038339	20NO1998	20NO2018
Germany	PATENT#	P69811398.5	20NO1998	20NO2018
Italy	PATENT#	EP1038339	20NO1998	20NO2018
Japan	APPL.#	PCT/US98/24703	20NO1998	
Netherlands	PATENT#	EP1038339	20NO1998	20NO2018
Sweden	PATENT#	EP1038339	20NO1998	20NO2018
Switzerland	PATENT#	EP1038339	20NO1998	20NO2018
United States	APPL.#	10/350840	24JA2003	
United States PATENT# 6459719	03NO2000	12DE2017		
United States	PATENT#	6522680	03NO2000	12DE2017

29

U.S.# 6404960 FILED: 15MR1999 ISSUED: 11JE2002 EXPIRES: 31DE2016
APPL# 09/268191 FLEXIBLE OPTIC CONNECTOR ASSEMBLY
P.D.# H16270 HIBBS-BRENNER MARY K WALKER, JR HAROLD Y LIU YUE
BRISTOW JULIAN P

			FILED	EXPIRES
France	PATENT#	EP0950204	13NO1997	13NO2017
Great Britain	PATENT#	EP0950204	13NO1997	13NO2017
Germany	PATENT#	P69710098.7	13NO1997	13NO2017
Japan	APPL.#	529991/98	13NO1997	
Sweden	PATENT#	EP0950204	13NO1997	13NO2017
United States	APPL.#	10/136871	30AP2002	
United States	PATENT#	6069991	14AU1998	31DE2016
United States	PATENT#	6088498	14AU1998	31DE2016

30

U.S.# 6411638 FILED: 31AU1999 ISSUED: 25JE2002 EXPIRES: 31AU2019
APPL# 09/387424 COUPLED CAVITY ANTI-GUIDED VERTICAL-CAVITY SURFACE-EMITTING
P.D.# H25556 CLARK ANDREW GUENTER JAMES K JOHNSON RALPH H

FILED EXPIRES

				FILED	EXPIRES
Austria	PATENT#	EP1208622	28AU2000	28AU2020	
Belgium	PATENT#	EP1208622	28AU2000	28AU2020	
France	PATENT#	EP1208622	28AU2000	28AU2020	
Great Britain	PATENT#	EP1208622	28AU2000	28AU2020	
Germany	PATENT#	P60002478.4	28AU2000	28AU2020	
Italy	PATENT#	EP1208622	28AU2000	28AU2020	
Japan	APPL.#	2001-520522	28AU2000		
Korea South	APPL.#	2002-7002784	28AU2000		
Netherlands	PATENT#	EP1208622	28AU2000	28AU2020	
Patent Cooperation Treaty	APPL.#	PCT/US00/23499	28AU2000		
United States	APPL.#	10/147136	13MY2002		

31

U.S.# 6459719 FILED: 03NO2000 ISSUED: 01OC2002 EXPIRES: 12DE2017
APPL# 09/819029 VCSEL STRUCTURE INSENSTITIVE TO MOBILE HYDROGEN
P.D.# H16783 JOHNSON RALPH H

			FILED	EXPIRES
Belgium	PATENT#	EP1038339	20NO1998	20NO2018
France	PATENT#	EP1038339	20NO1998	20NO2018
Great Britain	PATENT#	EP1038339	20NO1998	20NO2018
Germany	PATENT#	P69811398.5	20NO1998	20NO2018
Italy	PATENT#	EP1038339	20NO1998	20NO2018
Japan	APPL.#	PCT/US98/24703	20NO1998	
Netherlands	PATENT#	EP1038339	20NO1998	20NO2018
Sweden	PATENT#	EP1038339	20NO1998	20NO2018
Switzerland	PATENT#	EP1038339	20NO1998	20NO2018
United States	PATENT#	6256333	12DE1997	12DE2017
United States	APPL.#	10/350840	24JA2003	
United States	PATENT#	6522680	03NO2000	12DE2017

32

U.S.# 6465774 FILED: 30JE2000 ISSUED: 15OC2002 EXPIRES: 20MR2021
APPL# 09/607048 METHOD AND SYSTEM FOR VERSATILE OPTICAL SENSOR PACKAGE
P.D.# H25512 GUENTER JAMES K WALKER HAROLD Y JR

			FILED	EXPIRES
European Patent Convention	APPL.#	01952287.9	28JE2001	

33

U.S.# 6522680 FILED: 03NO2000 ISSUED: 18FE2003 EXPIRES: 12DE2017
APPL# 09/819024 VCSEL STRUCTURE INSENSTITIVE TO MOBILE HYDROGEN
P.D.# H16783 JOHNSON RALPH H

			FILED	EXPIRES
Belgium	PATENT#	EP1038339	20NO1998	20NO2018
France	PATENT#	EP1038339	20NO1998	20NO2018
Great Britain	PATENT#	EP1038339	20NO1998	20NO2018
Germany	PATENT#	P69811398.5	20NO1998	20NO2018
Italy	PATENT#	EP1038339	20NO1998	20NO2018
Japan	APPL.#	PCT/US98/24703	20NO1998	
Netherlands	PATENT#	EP1038339	20NO1998	20NO2018
Sweden	PATENT#	EP1038339	20NO1998	20NO2018

Switzerland	PATENT#	EP1038339	20NO1998	20NO2018
United States	PATENT#	6256333	12DE1997	12DE2017
United States	APPL.#	10/350840	24JA2003	
United States	PATENT#	6459719	03NO2000	12DE2017

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U.S.# 6558973 FILED: 22JA2001 ISSUED: 06MY2003 EXPIRES: 22JA2021
APPL# 09/766797 METAMORPHIC LONG WAVELENGTH HIGH SPEED PHOTODIODE
P.D.# H0001519 JOHNSON RALPH H BIARD JAMES R GUENTER JAMES K

			FILED	EXPIRES
Canada	APPL.#	2435607	22JA2002	
European Patent Convention	APPL.#	02717369.9	22JA2002	
Japan	APPL.#	2002-558345	22JA2002	
United States	APPL.#	10/413186	14AP2003	

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U.S.# 6586776 FILED: 28NO2000 ISSUED: 01JL2003 EXPIRES: 12AP2020
APPL# 09/724249 INTEGRATION OF TOP-EMITTING AND TOP-ILLIMINATED OPTOELECTRON
P.D.# H25545 LIU YUE

			FILED	EXPIRES
Australia	APPL.#	2001257028	12AP2001	
Canada	APPL.#	2405859	12AP2001	
China P.R.	APPL.#	01811055.X	12AP2001	
Czech Republic	APPL.#	PV 2002-3727	12AP2001	
European Patent Convention	APPL.#	01930497.1	12AP2001	
Israel	APPL.#	152265	12AP2001	
Japan	APPL.#	2001-577584	12AP2001	
Korea South	APPL.#	2002-7013741	12AP2001	
Singapore	APPL.#	200206231-3	12AP2001	
United States	APPL.#	09/547538	12AP2000	
United States	APPL.#	10/284863	31OC2002	

36

U.S.# 6588949 FILED: 30DE1998 ISSUED: 08JL2003 EXPIRES:
APPL# 09/224210 METHOD AND APPARATUS FOR HERMETICALLY SEALING PHOTONIC DEVIC
P.D.# H25171 ZHOU, Ping

			FILED	EXPIRES
European Patent Convention	APPL.#	99960433.3	18NO1999	
Japan	APPL.#	592918/2000	18NO1999	
United States	APPL.#	10/444796	22MY2003	

37

U.S.# 6603784 FILED: 21DE1998 ISSUED: 05AU2003 EXPIRES: 21DE2018
APPL# 09/217223 MECHANICAL STABILIZATION OF LATTICE MISMATCHED QUANTUM WELLS
P.D.# H17234 JOHNSON, Ralph Herbert

			FILED	EXPIRES
European Patent Convention	APPL.#	99958857.7	10NO1999	
Japan	APPL.#	590264/2000	10NO1999	
United States	APPL.#	10/634558	04AU2003	

38

U.S.# 6606199 FILED: 10OC2001 ISSUED: 12AU2003 EXPIRES: 10OC2021

APPL# 09/975299 GRADED THICKNESS OPTICAL ELEMENT AND METHOD OF MANUFACTURE T
P.D.# H0002301 WANG TZU-YU

			FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US02/32373	10OC2002	

end

Patent Applications

1 ----------

U.S.# FILED: 31DE1996 ISSUED: EXPIRES:
APPL# 08/775330 A FLEXIBLE OPTIC CONNECTOR ASSEMBLY,
P.D.# H16270 HIBBS-BRENNER, Mary K. WALKER, JR., Harold Youn

			FILED	EXPIRES
France	PATENT#	EP0950204	13NO1997	13NO2017
Great Britain	PATENT#	EP0950204	13NO1997	13NO2017
Germany	PATENT#	P69710098.7	13NO1997	13NO2017
Japan	APPL.#	529991/98	13NO1997	
Sweden	PATENT#	EP0950204	13NO1997	13NO2017
United States	APPL.#	10/136871	30AP2002	
United States	PATENT#	6069991	14AU1998	31DE2016
United States	PATENT#	6404960	15MR1999	31DE2016
United States	PATENT#	6088498	14AU1998	31DE2016

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 WALTRIP, Philip W

			FILED	EXPIRES
Argentina	APPL.#	P970102575	13JE1997	
India	APPL.#	1273/MAS/97	12JE1997	
Malaysia	APPL.#	PI9702640	13JE1997	
South Africa	PATENT#	97/5133	10JE1997	10JE2017
Taiwan	PATENT#	NI097734	13JE1997	12JE2017
United States	PATENT#	6086263	13JE1996	13JE2016
Venezuela	APPL.#	1118/97	13JE1997	

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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 WALTRIP, Philip W

			FILED	EXPIRES
Argentina	APPL.#	P970102575	13JE1997	
India	APPL.#	1273/MAS/97	12JE1997	
Malaysia	APPL.#	PI9702640	13JE1997	
South Africa	PATENT#	97/5133	10JE1997	10JE2017
Taiwan	PATENT#	NI097734	13JE1997	12JE2017
United States	PATENT#	6086263	13JE1996	13JE2016
Venezuela	APPL.#	1118/97	13JE1997	

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U.S.# FILED: 29JE1999 ISSUED: EXPIRES: PENDING
APPL# 09/342801 HERMETIC CHIP-SCALE PACKAGE FOR PHOTONIC DEVICES
P.D.# H25073 JOHNSON, Klein L.

			FILED	EXPIRES

				FILED	EXPIRES
	Canada	APPL.#	2378211	29JE2000	
	European Patent Convention	APPL.#	00950273.3	29JE2000	
	Japan	APPL.#	2001-506623	29JE2000	

5

U.S.# FILED: 12JA2000 ISSUED: EXPIRES: PENDING
APPL# 09/481627 FIBER OPTIC HEADER WITH INTERGRATED POWER MONITOR
P.D.# H17042 ZHOU PING

				FILED	EXPIRES
	European Patent Convention	APPL.#	99113830.6	15JL1999	
	United States	PATENT#	6081638	20JL1998	20JL2018

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U.S.# FILED: 12AP2000 ISSUED: EXPIRES: PENDING
APPL# 09/547538 INTEGRATION OF TOP-EMITTING AND TOP-ILLIMINATED OPTOELECTRON
P.D.# H25545 LIU YUE

				FILED	EXPIRES
	Australia	APPL.#	2001257028	12AP2001	
	Canada	APPL.#	2405859	12AP2001	
	China P.R.	APPL.#	01811055.X	12AP2001	
	Czech Republic	APPL.#	PV 2002-3727	12AP2001	
	European Patent Convention	APPL.#	01930497.1	12AP2001	
	Israel	APPL.#	152265	12AP2001	
	Japan	APPL.#	2001-577584	12AP2001	
	Korea South	APPL.#	2002-7013741	12AP2001	
	Singapore	APPL.#	200206231-3	12AP2001	
	United States	APPL.#	10/284863	31OC2002	
	United States	PATENT#	6586776	28NO2000	12AP2020

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U.S.# FILED: 23MY2000 ISSUED: EXPIRES: PENDING
APPL# 09/577034 SYSTEM AND METHOD FOR VCSEL POLARLIZATION CONTROL
P.D.# H26373 GUENTER JAMES K TATUM JIMMY A

				FILED	EXPIRES
	Canada	APPL.#	2410569	22MY2001	
	European Patent Convention	APPL.#	01941535.5	22MY2001	
	Japan	APPL.#	2001-587545	22MY2001	
	Korea South	APPL.#	2002-7015805	22MY2001	
	Taiwan	PATENT#	NI162793	23AU2001	22AU2021

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U.S.# FILED: 31AU2000 ISSUED: EXPIRES: PENDING
APPL# 09/652555 PROTECTIVE SIDE WALL PASSIVATION FOR VCSEL CHIPS
P.D.# H25508 LIU YUE MORGAN ROBERT A NOHAVA JAMES C
STRZELECKI EVA M

				FILED	EXPIRES
	Canada	APPL.#	2421009	30AU2001	
	European Patent Convention	APPL.#	01966374.9	30AU2001	
	Japan	APPL.#	2002-524271	30AU2001	
	Korea South	APPL.#	10-2003-7003120	30AU2001	

	Taiwan	APPL.#	90121615	31AU2001	
	United States	APPL.#	10/427337	01MY2003	

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U.S.# FILED: 28NO2000 ISSUED: EXPIRES: PENDING
APPL# 09/724820 VERSATILE METHOD AND SYSTEM FOR SINGLE MODE VCSELs
P.D.# H26341 JOHNSON RALPH H MORALES GILBERTO

			FILED	EXPIRES
Canada	APPL.#	2430348	26NO2001	
European Patent Convention	APPL.#	01987106.0	26NO2001	
Japan	APPL.#	2002-547270	26NO2001	
Korea South	APPL.#	2003-7007204	26NO2001	
Taiwan	PATENT#	NI167702	27NO2001	26NO2021
United States	APPL.#	10/617290	10JL2003	
United States	APPL.#	10/617892	11JL2003	

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U.S.# FILED: 29DE2000 ISSUED: EXPIRES: PENDING
APPL# 09/751422 RESONANT REFLECTOR FOR USE WITH OPTOELECTRONIC DEVICES
P.D.# H25181 COX JAMES A MORGAN ROBERT A

			FILED	EXPIRES
European Patent Convention	APPL.#	01994296.0	18DE2001	
Japan	APPL.#	2002-560248	18DE2001	
Korea South	APPL.#	2003-7008907	18DE2001	
Taiwan	APPL.#	90132816	28DE2001	

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U.S.# FILED: 29DE2000 ISSUED: EXPIRES: PENDING
APPL# 09/751423 SPATIALLY MODULATED REFLECTOR FOR AN OPTOELECTRIC DEVICE
P.D.# H26549 MORGAN ROBERT A STRZELECKI EVA M

			FILED	EXPIRES
Canada	APPL.#	2433357	20DE2001	
European Patent Convention	APPL.#	01994427.1	20DE2001	
Japan	APPL.#	2002-560170	20DE2001	
Korea South	APPL.#	2003-7008908	20DE2001	
Taiwan	PATENT#	NI169853	28DE2001	27DE2021

12

U.S.# FILED: 12MR2001 ISSUED: EXPIRES: PENDING
APPL# 09/803821 APPARATUS AND METHOD PROVIDING A BALANCING LOAD TO A LASER D
P.D.# H25985 GUENTER JAMES K TATUM JIM A

			FILED	EXPIRES
Canada	APPL.#	2441090	12MR2002	
European Patent Convention	APPL.#	02736497.5	12MR2002	
Japan	APPL.#	2002-586458	12MR2002	
Korea South	APPL.#	2003-7011972	12MR2002	

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U.S.# FILED: 14JE2001 ISSUED: EXPIRES: PENDING
APPL# 09/881167 METHOD AND APPARATUS FOR PRODUCING VCSELs WITH DIELECTRIC MI
P.D.# H0001331 SKOGMAN RICHARD A

	FILED	EXPIRES

				FILED	EXPIRES
		European Patent Convention	APPL.# 02746507.9	13JE2002	
		Japan	APPL.# PCT/US02/18587	13JE2002	
		Korea South	APPL.# PCT/US02/18587	13JE2002	
		Taiwan	APPL.# 091112890	13JE2002	
14					
U.S.#		FILED: 13AU2001	ISSUED:	EXPIRES: PENDING	
APPL#	60/311916	METHODS AND SYSTEMS FOR WAFER LEVEL BURN-IN OF ELECTRONIC DE			
P.D.#	H0001823	HAWKINS BOBBY M	BIARD JAMES R	HAJI-SHEIKH MICHAEL J	
				FILED	EXPIRES
		Patent Cooperation Treaty	APPL.# PCT/US02/25640	12AU2002	
15					
U.S.#		FILED: 02OC2001	ISSUED:	EXPIRES: PENDING	
APPL#	09/970073	LASER LIGHT SOURCES HAVING INTEGRATED DETECTOR AND INTENSITY			
P.D.#	H25566	BAUHAHN PAUL E	FRITZ BERNARD S	GALARNEAU LYNN M	
		JOHNSON KLEIN L	LEHMAN JOHN A		
16					
U.S.#		FILED: 06DE2001	ISSUED:	EXPIRES: PENDING	
APPL#	10/006103	METHOD AND SYSTEM FOR RELEASING A PLUGGABLE MODULE			
P.D.#	H0002354	BELL RICHARD L	WALKER JR HAROLD Y		
				FILED	EXPIRES
		Patent Cooperation Treaty	APPL.# PCT/US02/38728	05DE2002	
		Taiwan	APPL.# 091135445	06DE2002	
17					
U.S.#		FILED: 20DE2001	ISSUED:	EXPIRES: PENDING	
APPL#	10/026016	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM, AN			
P.D.#	H0002673	JOHNSON RALPH H			
				FILED	EXPIRES
		Patent Cooperation Treaty	APPL.# PCT/US02/41736	13DE2002	
		Taiwan	APPL.# 091136681	19DE2002	
18					
U.S.#		FILED: 20DE2001	ISSUED:	EXPIRES: PENDING	
APPL#	10/026019	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM AND			
P.D.#	H0002674	JOHNSON RALPH H			
				FILED	EXPIRES
		Patent Cooperation Treaty	APPL.# PCT/US02/39604	11DE2002	
		Taiwan	APPL.# 091136672	19DE2002	
19					
U.S.#		FILED: 20DE2001	ISSUED:	EXPIRES: PENDING	
APPL#	10/026055	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM IN T			
P.D.#	H0001520	JOHNSON RALPH H			
				FILED	EXPIRES
		Patent Cooperation Treaty	APPL.# PCT/US02/39414	10DE2002	
		Taiwan	APPL.# 091136648	19DE2002	
20					
U.S.#		FILED: 27DE2001	ISSUED:	EXPIRES: PENDING	

APPL# 10/026020 VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM AND
P.D.# H0002670 JOHNSON RALPH H

			FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US02/39827	13DE2002	
Taiwan	APPL.#	091137289	25DE2002	

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U.S.# FILED: 27DE2001 ISSUED: EXPIRES: PENDING
APPL# 10/026044 INDIUM FREE VERTICAL CAVITY SURFACE EMITTING LASER
P.D.# H0002671 JOHNSON RALPH H

			FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US02/39912	13DE2002	
Taiwan	APPL.#	091137483	26DE2002	

22 ----------

U.S.# FILED: 28DE2001 ISSUED: EXPIRES: PENDING
APPL# 10/028288 SUBMOUNT FOR VERTICAL CAVITY SURFACE EMITTING LASERS AND DET
P.D.# H0002312 TATUM JIMMY A GUENTER JAMES K

			FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US02/39820	13DE2002	
Taiwan	APPL.#	091137470	26DE2002	

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U.S.# FILED: 28DE2001 ISSUED: EXPIRES: PENDING
APPL# 10/028303 CURRENT CONFINEMENT, CAPACITANCE REDUCTION AND ISOLATION OF
P.D.# H0002461 JOHNSON RALPH H

			FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US02/39823	13DE2002	
Taiwan	APPL.#	091137475	26DE2002	

24 ----------

U.S.# FILED: 28DE2001 ISSUED: EXPIRES: PENDING
APPL# 10/028435 ASYMMETRIC DISTRIBUTED BRAGG REFLECTOR FOR VERTICAL CAVITY S
P.D.# H0003010 VILLAREAL SAMUEL S JOHNSON RALPH H

			FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US02/39825	13DE2002	
Taiwan	APPL.#	091137479	26DE2002	

25 ----------

U.S.# FILED: 28DE2001 ISSUED: EXPIRES: PENDING
APPL# 10/028436 GAIN GUIDE IMPLANT IN OXIDE VERTICAL CAVITY SURFACE EMITTING
P.D.# H0001922 BIARD JAMES R GUENTER JAMES K

			FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US02/39513	11DE2002	
Taiwan	APPL.#	091137126	24DE2002	

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U.S.# FILED: 28DE2001 ISSUED: EXPIRES: PENDING
APPL# 10/028437 VERTICAL CAVITY SURFACE EMITTING LASER HAVING A GAIN GUIDE A
P.D.# H0002531 COX JAMES A STZRELECKA EVA

FILED EXPIRES

					FILED	EXPIRES
		Patent Cooperation Treaty	APPL.#	PCT/US02/40253	16DE2002	
		Taiwan	APPL.#	091137478	26DE2002	
27						
U.S.#		FILED: 28DE2001	ISSUED:		EXPIRES: PENDING	
APPL#	10/028438	WAVELENGTH DIVISION MULTIPLEXED VERTICAL CAVITY SURFACE EMIT				
P.D.#	H0002746	WANG TZU-YU				
					FILED	EXPIRES
		Patent Cooperation Treaty	APPL.#	PCT/US02/41735	13DE2002	
28						
U.S.#		FILED: 28DE2001	ISSUED:		EXPIRES: PENDING	
APPL#	10/028439	INTEGRAL VERTICAL CAVITY SURFACE EMITTING LASER AND POWER MO				
P.D.#	H25543	GUENTER JAMES K WERNER THOMAS R				
					FILED	EXPIRES
		Patent Cooperation Treaty	APPL.#	PCT/US02/41737	13DE2002	
		Taiwan	APPL.#	091137288	25DE2002	
29						
U.S.#		FILED: 31DE2001	ISSUED:		EXPIRES: PENDING	
APPL#	10/037010	TUNABLE LASER ASSEMBLY				
P.D.#	H0001575	COX JAMES A				
					FILED	EXPIRES
		Patent Cooperation Treaty	APPL.#	PCT/US02/39413	10DE2002	
30						
U.S.#		FILED: 31DE2001	ISSUED:		EXPIRES: PENDING	
APPL#	10/037013	OPTOELECTRONIC DEVICES AND METHODS OF PRODUCTION				
P.D.#	H0001589	JOHNSON KLEIN L BAIER STEVEN M LIU YUE				
					FILED	EXPIRES
		United States	APPL.#	10/669220	24SE2003	
31						
U.S.#		FILED: 21FE2002	ISSUED:		EXPIRES: PENDING	
APPL#	10/078422	LONG-WAVELENGTH VCSEL BOTTOM MIRROR				
P.D.#	H0002523	KWON HOKI				
					FILED	EXPIRES
		Patent Cooperation Treaty	APPL.#	PCT/US03/07266	21FE2003	
		Taiwan	APPL.#	092103649	21FE2003	
32						
U.S.#		FILED: 21FE2002	ISSUED:		EXPIRES: PENDING	
APPL#	10/078473	CARBON DOPED GaASSb SUITABEL FOR USE IN TUNNEL JUNCTIONS FOR				
P.D.#	H0002992	KWON HOKI				
					FILED	EXPIRES
		Patent Cooperation Treaty	APPL.#	PCT/US03/05471	21FE2003	
		Taiwan	APPL.#	092103650	21FE2003	
33						
U.S.#		FILED: 21FE2002	ISSUED:		EXPIRES: PENDING	
APPL#	10/078474	GaAs/Al(Ga)AS DISTRIBUTED BRAGG REFLECTOR ON InP				

P.D.# H0002769 KWON HOKI

				FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US03/05368		21FE2003	
Taiwan	APPL.#	092103671		21FE2003	

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U.S.# FILED: 12AP2002 ISSUED: EXPIRES: PENDING
APPL# 10/121490 RESONANT REFLECTOR FOR INCREASED WAVELENGTH AND POLARIZATION
P.D.# H0002178 COX JAMES A MORGAN ROBERT A

				FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US03/11093		10AP2003	
Taiwan	APPL.#	092108392		11AP2003	

35 ----------

U.S.# FILED: 30AP2002 ISSUED: EXPIRES: PENDING
APPL# 10/136871 A FLEXIBLE OPTIC CONNECTOR ASSEMBLY
P.D.# H16270 HIBBS-BRENNER, Mary K. WALKER, JR., Harold Youn

				FILED	EXPIRES
France	PATENT#	EP0950204		13NO1997	13NO2017
Great Britain	PATENT#	EP0950204		13NO1997	13NO2017
Germany	PATENT#	P69710098.7		13NO1997	13NO2017
Japan	APPL.#	529991/98		13NO1997	
Sweden	PATENT#	EP0950204		13NO1997	13NO2017
United States	PATENT#	6069991		14AU1998	31DE2016
United States	PATENT#	6404960		15MR1999	31DE2016
United States	PATENT#	6088498		14AU1998	31DE2016

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U.S.# FILED: 13MY2002 ISSUED: EXPIRES: PENDING
APPL# 10/147136 COUPLED CAVITY ANTI-GUIDED VERTICAL-CAVITY SURFACE-EMITTING
P.D.# H25556 CLARK ANDREW GUENTER JAMES K JOHNSON RALPH Herbert

				FILED	EXPIRES
Austria	PATENT#	EP1208622		28AU2000	28AU2020
Belgium	PATENT#	EP1208622		28AU2000	28AU2020
France	PATENT#	EP1208622		28AU2000	28AU2020
Great Britain	PATENT#	EP1208622		28AU2000	28AU2020
Germany	PATENT#	P60002478.4		28AU2000	28AU2020
Italy	PATENT#	EP1208622		28AU2000	28AU2020
Japan	APPL.#	2001-520522		28AU2000	
Korea South	APPL.#	2002-7002784		28AU2000	
Netherlands	PATENT#	EP1208622		28AU2000	28AU2020
Patent Cooperation Treaty	APPL.#	PCT/US00/23499		28AU2000	
United States	PATENT#	6411638		31AU1999	31AU2019

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U.S.# FILED: 24MY2002 ISSUED: EXPIRES: PENDING
APPL# 10/156324 METHODS AND SYSTEMS FOR REMOVING AN OXIDE-INDUCED DEAD ZONE
P.D.# H0003776 BIARD JAMES R GUENTER JAMES K

				FILED	EXPIRES
Patent Cooperation Treaty	APPL.#	PCT/US03/16555		27MY2003	

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U.S.# FILED: 04JE2002 ISSUED: EXPIRES: PENDING
APPL# 10/162928 WAVELENGTH SELECTIVE DETECTOR
P.D.# H0002499 GUENTER JAMES K JOHNSON RALPH H

		FILED	EXPIRES
Patent Cooperation Treaty	APPL.# PCT/US03/18205	03JE2003	
Taiwan	APPL.# 092115228	05JE2003	

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U.S.# FILED: 04JE2002 ISSUED: EXPIRES: PENDING
APPL# 10/163057 OPTICAL TRANSCEIVER
P.D.# H0003474 TATUM JIMMY A GUENTER JAMES K

		FILED	EXPIRES
Patent Cooperation Treaty	APPL.# PCT/US03/17524	04JE2003	
Taiwan	APPL.# 092115239	05JE2003	
United States	APPL.# 000000	11DE2002	

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U.S.# FILED: 04JE2002 ISSUED: EXPIRES: PENDING
APPL# 10/163440 METHOD AND APPARATUS FOR MONITORING THE POWER OF A MULTI-WAV
P.D.# H0001299 TATUM JIMMY A GUENTER JAMES K

		FILED	EXPIRES
Patent Cooperation Treaty	APPL.# PCT/US03/17523	04JE2003	
Taiwan	APPL.# 92115237	05JE2003	

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U.S.# FILED: 14AU2002 ISSUED: EXPIRES: PENDING
APPL# 10/219425 ATOMIC HYDROGEN AS A SURFACTANT IN PRODUCTION OF HIGHLY STRA
P.D.# H0002675 JOHNSON RALPH H

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U.S.# FILED: 03SE2002 ISSUED: EXPIRES: PENDING
APPL# 10/232382 SINGLE MODE VCSEL
P.D.# H0002313 TATUM JAMES A GUENTER JAMES K JOHNSON RALPH H

		FILED	EXPIRES
Patent Cooperation Treaty	APPL.# PCT/US03/27685	02SE2003	

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U.S.# FILED: 03SE2002 ISSUED: EXPIRES: PENDING
APPL# 10/233112 HYBRID MIRROR VCSELS
P.D.# H0003250 JOHNSON RALPH H WANG TZU-YU

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U.S.# FILED: 04SE2002 ISSUED: EXPIRES: PENDING
APPL# 10/233625 NITROGEN SOURCES FOR MOLECULAR BEAM EPITAXY
P.D.# H0003322 JOHNSON RALPH H KIM JIN K GUENTER JAMES K

		FILED	EXPIRES
Patent Cooperation Treaty	APPL.# PCT/US03/27463	04SE2003	

45 ----------

U.S.# FILED: 28OC2002 ISSUED: EXPIRES: PENDING
APPL# 10/283381 OXIDE CONFINED VCSEL WITH A THIN OXIDE AND ENHANCED CONDUCTI
P.D.# H0003150 JOHNSON RALPH H JOHNSON KLEIN L

					FILED	EXPIRES
		Patent Cooperation Treaty	APPL.#	PCT/US03/33611	24OC2003	
46						
U.S.#		FILED: 30OC2002	ISSUED:		EXPIRES: PENDING	
APPL#	10/283298	LONG-WAVELENGTH VERTICAL CAVITY SURFACE EMITTING LASERS				
P.D.#	H0003324	KIM JIN K				
47						
U.S.#		FILED: 30OC2002	ISSUED:		EXPIRES: PENDING	
APPL#	10/283311	SELECTIVELY-ETCHABLE HETEROGENEOUS COMPOSITE DISTRIBUTED BRA				
P.D.#	H0003316	KIM JIN K				
48						
U.S.#		FILED: 30OC2002	ISSUED:		EXPIRES: PENDING	
APPL#	10/283835	METHOD AND APPARATUS FOR MONITORING THE POWER LEVEL OF TWO O				
P.D.#	H0004180	GUENTER JAMES K				
49						
U.S.#		FILED: 31OC2002	ISSUED:		EXPIRES: PENDING	
APPL#	10/284863	INTEGRATION OF TOP-EMITTING AND TOP-ILLIMINATED OPTOELECTRON				
P.D.#	H25545	LIU YUE				

				FILED	EXPIRES
	Australia	APPL.#	2001257028	12AP2001	
	Canada	APPL.#	2405859	12AP2001	
	China P.R.	APPL.#	01811055.X	12AP2001	
	Czech Republic	APPL.#	PV 2002-3727	12AP2001	
	European Patent Convention	APPL.#	01930497.1	12AP2001	
	Israel	APPL.#	152265	12AP2001	
	Japan	APPL.#	2001-577584	12AP2001	
	Korea South	APPL.#	2002-7013741	12AP2001	
	Singapore	APPL.#	200206231-3	12AP2001	
	United States	APPL.#	09/547538	12AP2000	
	United States	PATENT#	6586776	28NO2000	12AP2020

50						
U.S.#		FILED: 11NO2002	ISSUED:		EXPIRES: PENDING	
APPL#	10/292578	HIGH SPEED OPTICAL TRANSCEIVER PACKAGE USING HETEROGENEOUS				
P.D.#	H0001688	LIU YUE				
51						
U.S.#		FILED: 21NO2002	ISSUED:		EXPIRES: PENDING	
APPL#	10/301380	LONG WAVELENGTH VCSEL WITH TUNNEL JUNCTION AND IMPLANT				
P.D.#	H0004083	JOHNSON RALPH H	WANG TZU-YU			

				FILED	EXPIRES
	Patent Cooperation Treaty	APPL.#	PCT/US03/40047	20NO2003	

52					
U.S.#		FILED: 03DE2002	ISSUED:	EXPIRES: PENDING	
APPL#	10/308308	BIDIRECTIONAL OPTICAL DEVICE			
P.D.#	H0004155	GUENTER JAMES K	TATUM JIMMY A		
53					
U.S.#		FILED: 11DE2002	ISSUED:	EXPIRES: PENDING	
APPL#	000000	OPTICAL TRANSCEIVER			
P.D.#	H0003474	TATUM JIMMY A	GUENTER JAMES K		

					FILED	EXPIRES
		Patent Cooperation Treaty	APPL.#	PCT/US03/17524	04JE2003	
		Taiwan	APPL.#	092115239	05JE2003	
		United States	APPL.#	10/163057	04JE2002	

54

U.S.#		FILED: 11DE2002	ISSUED:	EXPIRES: PENDING
APPL#	10/316355	OPTICAL TRANSCEIVER (THIS IS A CIP OF H0003474)		
P.D.#	H0003980	TATUM JIMMY A	GUENTER JAMES K	

					FILED	EXPIRES
		Patent Cooperation Treaty	APPL.#	PCT/US03/39685	11DE2003	

55

U.S.#		FILED: 20DE2002	ISSUED:	EXPIRES: PENDING
APPL#	10/323889	ANGLED WAFER ROTATING ION IMPLANTATION		
P.D.#	H0002398	WANG TZU-YU		

56

U.S.#		FILED: 20DE2002	ISSUED:	EXPIRES: PENDING
APPL#	10/323923	MATERIAL SYSTEM FOR BRAGG REFLECTOR IN LONG WAVELENGTH VCSEL		
P.D.#	H0002353	KWON HOKI		

57

U.S.#		FILED: 22JA2003	ISSUED:	EXPIRES: PENDING
APPL#	10/347789	ZERO-CLEARANCE RECEPTACLE DESIGN FOR SINGLE MODE OPTICAL FIB		
P.D.#	H0003694	BLASINGAME RAYMOND W	CHEN BO SU	LI BERNARD Q
		ORENSTEIN JAMES D	LEE JAMES C	

58

U.S.#		FILED: 24JA2003	ISSUED:	EXPIRES: PENDING
APPL#	10/350840	VCSEL STRUCTURE INSENSTITIVE TO MOBILE HYDROGEN		
P.D.#	H16783	JOHNSON RALPH H		

				FILED	EXPIRES
Belgium		PATENT#	EP1038339	20NO1998	20NO2018
France		PATENT#	EP1038339	20NO1998	20NO2018
Great Britain		PATENT#	EP1038339	20NO1998	20NO2018
Germany		PATENT#	P69811398.5	20NO1998	20NO2018
Italy		PATENT#	EP1038339	20NO1998	20NO2018
Japan		APPL.#	PCT/US98/24703	20NO1998	
Netherlands		PATENT#	EP1038339	20NO1998	20NO2018
Sweden		PATENT#	EP1038339	20NO1998	20NO2018
Switzerland		PATENT#	EP1038339	20NO1998	20NO2018
United States		PATENT#	6256333	12DE1997	12DE2017
United States		PATENT#	6459719	03NO2000	12DE2017
United States		PATENT#	6522680	03NO2000	12DE2017

59

U.S.#		FILED: 27JA2003	ISSUED:	EXPIRES: PENDING
APPL#	10/351710	WAFER INTEGRATION OF MICRO-OPTICS		
P.D.#	H0003589	COX JAMES A	FRITZ BERNARD S	LIU YUE
		JOHNSON KLEIN L		

60

U.S.#		FILED: 27JA2003	ISSUED:	EXPIRES: PENDING
APPL#	10/352293	SYSTEM AND METHODS USING MIGRATION ENHANCED EPITAXY FOR FLAT		

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 PHOTODIODE
P.D.# H0001519 JOHNSON RALPH H BIARD JAMES R GUENTER JAMES K

			FILED	EXPIRES
Canada	APPL.#	2435607	22JA2002	
European Patent Convention	APPL.#	02717369.9	22JA2002	
Japan	APPL.#	2002-558345	22JA2002	
United States	PATENT#	6558973	22JA2001	22JA2021

62 ----------

U.S.# FILED: 01MY2003 ISSUED: EXPIRES: PENDING
APPL# 10/427337 PROTECTIVE SIDE WALL PASSIVATION FOR VCSEL CHIPS
P.D.# H25508 LIU YUE MORGAN ROBERT A NOHAVA JAMES C
STRZELECKI EVA M

			FILED	EXPIRES
Canada	APPL.#	2421009	30AU2001	
European Patent Convention	APPL.#	01966374.9	30AU2001	
Japan	APPL.#	2002-524271	30AU2001	
Korea South	APPL.#	10-2003-7003120	30AU2001	
Taiwan	APPL.#	90121615	31AU2001	
United States	APPL.#	09/652555	31AU2000	

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# 10/436069 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

			FILED	EXPIRES
European Patent Convention	APPL.#	99960433.3	18NO1999	
Japan	APPL.#	592918/2000	18NO1999	
United States	PATENT#	6588949	30DE1998	

66 ----------

U.S.# FILED: 03JE2003 ISSUED: EXPIRES: PENDING
APPL# 10/453307 INTEGRATED SLEEVE PLUGGABLE PACKAGE
P.D.# H0004529 LEE JAMES C

67 ----------

U.S.# FILED: 06JE2003 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: 25JE2003	ISSUED:	EXPIRES: PENDING
APPL#	10/606104	INP BASED LONG WAVELENGTH VCSEL		
P.D.#	H0004823	PARK GYOUNGWON	WANG TZU-YU	RYOU JAE-HYUN
		KIM JIN K	KWON HOKI	

69 ----------

U.S.#		FILED: 27JE2003	ISSUED:	EXPIRES: PENDING
APPL#	10/607629	A DIELECTRIC VCSEL GAIN GUIDE		
P.D.#	H0004606	RYOU JAE-HYUN	PARK GYOUNGWON	

70 ----------

U.S.#		FILED: 27JE2003	ISSUED:	EXPIRES: PENDING
APPL#	10/607758	VCSEL HAVING THERMAL MANAGEMENT		
P.D.#	H0004788	RYOU JAE-HYUN	RINGLE MICHAEL D	LIU YUE

71 ----------

U.S.#		FILED: 27JE2003	ISSUED:	EXPIRES: PENDING
APPL#	10/607887	ENHANCED LATERAL OXIDATION		
P.D.#	H0004636	PARK GYOUNGWON	RYOU JAE-HYUN	KWON HOKI
		WANG TZU-YU	KIM JIN K	

72 ----------

U.S.#		FILED: 30JE2003	ISSUED:	EXPIRES: PENDING
APPL#	10/607982	COMPACT PACKAGE DESIGN FOR VERTICAL CAVITY SURFACE EMITTING		
P.D.#	H0004045	LIU YUE		

73 ----------

U.S.#		FILED: 30JE2003	ISSUED:	EXPIRES: PENDING
APPL#	10/610256	A HIGH SPEED OPTICAL SYSTEM		
P.D.#	H0004286	COX JAMES A	CHEN BO SU	

74 ----------

U.S.#		FILED: 02JL2003	ISSUED:	EXPIRES: PENDING
APPL#	10/612660	A LENS OPTICAL COUPLER		
P.D.#	H0004667	CHEN BO SU	BLASINGAME RAYMOND W	ORENSTEIN JAMES D

75 ----------

U.S.#		FILED: 03JL2003	ISSUED:	EXPIRES: PENDING
APPL#	10/611992	PSEUDOMORPHIC LAYER IN TUNNEL JUCTION VCSEL		
P.D.#	H0004618	RYOU JAE-HYUN		

76 ----------

U.S.#		FILED: 10JL2003	ISSUED:	EXPIRES: PENDING
APPL#	10/617290	VERSATILE METHOD AND SYSTEM FOR SINGLE MODE VCSELs		
P.D.#	H26341	JOHNSON RALPH H	MORALES GILBERTO	

			FILED	EXPIRES
Canada	APPL.#	2430348	26NO2001	
European Patent Convention	APPL.#	01987106.0	26NO2001	
Japan	APPL.#	2002-547270	26NO2001	
Korea South	APPL.#	2003-7007204	26NO2001	
Taiwan	PATENT#	NI167702	27NO2001	26NO2021
United States	APPL.#	09/724820	28NO2000	
United States	APPL.#	10/617892	11JL2003	

77 ----------

U.S.#		FILED: 11JL2003	ISSUED:	EXPIRES: PENDING
APPL#	10/617892	VERSATILE METHOD AND SYSTEM FOR SINGLE MODE VCSELs		
P.D.#	H26341	JOHNSON RALPH H	MORALES GILBERTO	

				FILED	EXPIRES
	Canada	APPL.#	2430348	26NO2001	
	European Patent Convention	APPL.#	01987106.0	26NO2001	
	Japan	APPL.#	2002-547270	26NO2001	
	Korea South	APPL.#	2003-7007204	26NO2001	
	Taiwan	PATENT#	NI167702	27NO2001	26NO2021
	United States	APPL.#	09/724820	28NO2000	
	United States	APPL.#	10/617290	10JL2003	

78 ----------

U.S.#		FILED: 16JL2003	ISSUED:	EXPIRES: PENDING
APPL#	10/620489	AN OPTICAL COUPLING SYSTEM		
P.D.#	H0004251	BLASINGAME RAYMOND W	LEE JAMES C	LI BERNARD Q

79 ----------

U.S.#		FILED: 16JL2003	ISSUED:	EXPIRES: PENDING
APPL#	10/620512	COUPLER HAVING REDUCTION OF REFLECTIONS TO LIGHT SOURCE		
P.D.#	H0004037	ORENSTEIN JAMES D	BLASINGAME RAYMOND W	CHEN BO SU
		GUENTER JAMES K	LEE JAMES C	LI BERNARD Q

80 ----------

U.S.#		FILED: 17JL2003	ISSUED:	EXPIRES: PENDING
APPL#	10/622042	OPTICAL COUPLING SYSTEM		
P.D.#	H0004315	CHEN BO SU	LI BERNARD Q	

81 ----------

U.S.#		FILED: 18JL2003	ISSUED:	EXPIRES: PENDING
APPL#	10/623351	EDGE BEAD CONTROL METHOD AND APPARATUS		
P.D.#	H0004337	LI BERNARD Q		

82 ----------

U.S.#		FILED: 04AU2003	ISSUED:	EXPIRES: PENDING
APPL#	10/634558	MECHANICAL STABILIZATION OF LATTICE MISMATCHED QUANTUM WELLS		
P.D.#	H17234	JOHNSON, Ralph Herbert		

				FILED	EXPIRES
	European Patent Convention	APPL.#	99958857.7	10NO1999	
	Japan	APPL.#	590264/2000	10NO1999	
	United States	PATENT#	6603784	21DE1998	21DE2018

83 ----------

U.S.#		FILED: 24SE2003	ISSUED:	EXPIRES: PENDING
APPL#	10/669220	OPTOELECTRONIC DEVICES AND METHODS OF PRODUCTION		
P.D.#	H0001589	JOHNSON KLEIN L	BAIER STEVEN M	LIU YUE

				FILED	EXPIRES
	United States	APPL.#	10/037013	31DE2001	

84 ----------

U.S.#		FILED: 29OC2003	ISSUED:	EXPIRES: PENDING
APPL#	10/697660	LONG WAVELENGTH VCSEL DEVICE PROCESSING		
P.D.#	H0004489	BIARD JAMES R	JOHNSON KLEIN L	JOHNSON RALPH H
		PARK GYOUNGWON	WANG TZU-YU	

85 ----------

U.S.#		FILED: 31OC2003	ISSUED:	EXPIRES: PENDING
APPL#	10/697028	TUNNEL JUNCTION UTILIZING GAPSB, ALGAPSB		
P.D.#	H0004288	KIM JIN K		

86 ----------

U.S.#	FILED: 14NO2003	ISSUED:	EXPIRES: PENDING
APPL# 10/706906	MODULATION DOPED TUNNEL JUNCTION		
P.D.# H0004299	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 GAASN BARRI		
P.D.#	H0003732	JOHNSON RALPH H		
2				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		DESIGNS FOR LONG WAVELENGTH (1200 TO 1800 NM EMISSION) VERTI		
P.D.#	H0003808	KIM JIN K	WANG TZU-YU	
3				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		METHODS FOR POLARIZATION CONTROL IN VCSELS		
P.D.#	H0004365	KIM JIN K		
4				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		USE OF ALGAAS CONFINING LAYERS IN ACTIVE REGIONS CONTAINING		
P.D.#	H0004841	JOHNSON RALPH H		
5				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		MULTICOMPONENT BARRIER LAYERS IN QUANTUM WELL ACTIVE REGIONS		
P.D.#	H0004842	JOHNSON RALPH H		
6				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		A PLANO-CONVEX LENS GENERATES A RING LIGHT PATTERN TO REDUC		
P.D.#	H0005002	CHEN BO SU -		
7				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		CARRIER BONDED 1550 NM VCSEL DESIGN WITH INP SUBSTRATE REMOV		
P.D.#	H0005074	KIM JIN K	KWON HOKI -	PARK GYOUNGWON -
		RYOU JAE-HYUN -	WANG TZU-YU -	
8				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		DIGITAL ALLOY OXIDATION LAYERS		
P.D.#	H0005080	RYOU JAE-HYUN -	KIM JIN K	
9				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		METAL-ASSISTED DBRS FOR THERMAL MANAGEMENT IN VCSELS		
P.D.#	H0005083	KIM JIN K	WANG TZU-YU -	PARK GYOUNGWON -
10				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		NEW DBR USING THE COMBINATION OF II-VI AND III-V MATERIALS F		
P.D.#	H0005115	KWON HOKI -		
11				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		INALAS GROWN UNDER VERY LOW V/III TO ENHANCE THE OXIDATION R		
P.D.#	H0005125	KWON HOKI -	WANG TZU-YU -	RYOU JAE-HYUN -
		KIM JIN K	PARK GYOUNGWON -	
12				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE

APPL#		THE USE OF MIGRATION ENHANCED EPITAXY IN LOW TEMPERATURE GRO		
P.D.#	H0005268	JOHNSON RALPH H		
13				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		ELECTRON AFFINITY ENGINEERING FOR VCSELS		
P.D.#	H0005284	BIARD JAMES R	JOHNSON RALPH H	JOHNSON KLEIN L
14				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		DESIGN AN EMBEDED REFLECTIVE SURFACE IN A MOLDED LENS FOR SI		
P.D.#	H0005285	CHEN BO SU -	BIARD JAMES R	
15				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		METHOD TO ACHIEVE PRECISION RELATIONAL FIT BETWEEN TO HEADER		
P.D.#	H0005590	KURI TUFFIK -	STOLYAR MARK G.	SMANIOTTI 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				

Active Disclosures

1				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		SINUSOIDAL-RESPONSE DETECTOR (JOINT INVENTION W/ MICRO-E)		
P.D.#	H0002500	GUENTER JAMES K	MATZEN WALTER T	THORBURN WILLIAM G
2				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		MODE-SELECTIVE SEMICONDUCTOR MIRROR FOR VCSELS		
P.D.#	H0005117	PARK GYOUNGWON -	KIM JIN K	COX JAMES A
		PARK GYOUNGWON -	KIM JIN K	COX JAMES A
3				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		IMPROVED BAND OFFSET IN ALINGAP BASED LIGHT EMITTERS TO IMPR		
P.D.#	H0005925	JOHNSON RALPH H		
4				
U.S.#		FILED:	ISSUED:	EXPIRES: DISCLOSURE
APPL#		TEMPERATURE COMPENSATION FOR RELIABILITY ENHANCEMENT OF A HI		
P.D.#	H0007013	TATUM JIMMY A		
end				

Patents and Patent Applications (Acquired from Motorola)

1	USA	GRANTED	756695	09-Sep-91	5164949	17-Nov-92	VERTICAL CAVITY SURFACE EMITTI NG LASER WITH LATERAL INJECTIO N
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 IMPLAN T
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 CAVI TY SURFACE EMITTING LASER
5	USA	GRANTED	857856	26-Mar-92	5274655	28-Dec-93	TEMPERATURE INSENSITIVE VERTIC AL CAVITY SURFACE EMITTING LAS ER
6	USA	GRANTED	08/271534	07-Jul-94	5446752	29-Aug-95	VCSEL WITH CURRENT BLOCKING LA YER OFFSET
7	USA	GRANTED	922719	31-Jul-92	5293392	08-Mar-94	TOP EMITTING VCSEL WITH ETCH S TOP LAYER
8	USA	GRANTED	925139	06-Aug-92	5317587	31-May-94	VSCEL WITH SEPARATE CONTROL OF CURRENT DISTRIBUTION AND OPTI CAL 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 OPE RATING REGION PROVIDING A LATE RAL WAVEGUIDE AND CURRENT LIMI TING 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 METH OD OF FABRICATION
12	USA	GRANTED	08/075934	14-Jun-93	6156582	05-Dec-00	METHOD OF FABRICATING TOP EMIT TING RIDGE VCSEL WITH SELF-ALI GNED CONTACT AND SIDEWALL REFL ECTOR
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 HI GH HEAT CONDUCTIVITY
13	USA	GRANTED	08/443609	18-May-95	5538919	23-Jul-96	A SEMICONDUCTOR DEVICE WITH HI GH HEAT CONDUCTIVITY
13	TAIW	GRANTED	83109217	05-Oct-94	NI-083506	21-Jan-97	A SEMICONDUCTOR DEVICE WITH HI GH HEAT CONDUCTIVITY
13	GERM	GRANTED	94117496.3	07-Nov-94	69412968.2	02-Sep-98	A SEMICONDUCTOR DEVICE WITH HI GH HEAT CONDUCTIVITY
13	GBRI	GRANTED	94117496.3	07-Nov-94	EP0653823	02-Sep-98	A SEMICONDUCTOR DEVICE WITH HI GH HEAT CONDUCTIVITY

13	FRAN	GRANTED	94117496.3	07-Nov-94	EP0653823	02-Sep-98	A SEMICONDUCTOR DEVICE WITH HI GH 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	69509962.0	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 REGI ON
16	TAIW	GRANTED	84105244	24-May-95	NI-075480	21-Nov-95	VCSEL WITH A1-FREE CAVITY REGI ON
16	KORS	GRANTED	10-1995-0015822	15-Jun-95	381985	15-Apr-03	VCSEL WITH A1-FREE CAVITY REGI ON
16	JAPA	FILED	7-167886	12-Jun-95			VCSEL WITH A1-FREE CAVITY REGI ON
17	USA	GRANTED	08/261272	15-Jun-94	5557626	17-Sep-96	PATTERNED MIRROR VCSEL WITH AD JUSTABLE SELECTIVE ETCH REGION
17	TAIW	GRANTED	84105207	24-May-95	NI-075479	15-Apr-96	PATTERNED MIRROR VCSEL WITH AD JUSTABLE SELECTIVE ETCH REGION
17	KORS	GRANTED	10-1995-0015823	15-Jun-95	341946	12-Jun-02	PATTERNED MIRROR VCSEL WITH AD JUSTABLE 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-INTERFAC E 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 HE AT SINK AND METHOD OF MAKING
23	USA	GRANTED	08/682473	17-Jul-96	5719893	17-Feb-98	PASSIVATED VERTICAL CAVITY SUR FACE EMITTING LASER
23	JAPA	FILED	9-202435	11-Jul-97			PASSIVATED VERTICAL CAVITY SUR FACE 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 EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
30	TAIW	GRANTED	87101797	10-Mar-98	NI-104797	01-Jul-99	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
30	JAPA	FILED	10-46204	10-Feb-98			VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
30	GERM	GRANTED	98102181.9	09-Feb-98	69813655.1	23-Apr-03	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
30	GBRI	GRANTED	98102181.9	09-Feb-98	EP0860915	23-Apr-03	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
30	FRAN	GRANTED	98102181.9	09-Feb-98	EP0860915	23-Apr-03	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
30	EPC	GRANTED	98102181.9	09-Feb-98	EP0860915	23-Apr-03	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
31	USA	GRANTED	08/959572	28-Oct-97	6026111	15-Feb-00	VERTICAL CAVITY SURFACE EMITTI NG LASER DEVICE HAVING AN EXTE NDED 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 EMITT ING LASER AND METHOD FABRICATI ON
35	USA	GRANTED	09/047954	26-Mar-98	6121068	19-Sep-00	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD FABRICATI ON
34	TAIW	GRANTED	87101798	10-Mar-98	NI-110433	11-Jan-00	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD FABRICATI ON
34	JAPA	FILED	10-46205	10-Feb-98			LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD OF FABRIC ATION
34	GERM	GRANTED	98102210.6	09-Feb-98	69809482.4	20-Nov-02	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD FABRICATI ON

34	GBRI	GRANTED	98102210.6	09-Feb-98	EP0860913	20-Nov-02	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD FABRICATI ON
34	FRAN	GRANTED	98102210.6	09-Feb-98	EP0860913	20-Nov-02	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD FABRICATI ON
35	USA	GRANTED	08/806269	25-Feb-97	5815524	29-Sep-98	WAVELENGTH VCSEL
35	TAIW	GRANTED	87102717	10-Mar-98	NI-110918	01-Feb-00	WAVELENGTH VCSEL
35	JAPA	FILED	10-58804	24-Feb-98			LONG WAVELENGTH VCSEL
35	EPC	FILED	98102770.9	18-Feb-98			WAVELENGTH VCSEL
36	USA	GRANTED	08/813399	10-Mar-97	5898722	27-Apr-99	DUAL WAVELENGTH MONOLITHICALLY INTEGRATED VERTICAL CAVITY SU RFACE EMITTING LASERS AND METH OD OF FABRICATION
36	TAIW	GRANTED	87103512	10-Mar-98	NI-108681	11-Nov-99	DUAL WAVELENGTH MONOLITHICALLY INTEGRATED VERTICAL CAVITY SU RFACE EMITTING LASERS AND METH OD OF FABRICATION
36	JAPA	FILED	10-67805	02-Mar-98			DUAL WAVELENGTH MONOLITHICALLY INTEGRATED VERTICAL CAVITY SU RFACE EMITTING LASERS AND METH OD OF FABRICATION
37	USA	GRANTED	08/839112	23-Apr-97	5943359	24-Aug-99	LONG WAVELENGTH VCSEL
37	TAIW	GRANTED	87106110	21-Apr-98	NI-116648	01-Jul-00	LONG WAVELENGTH VCSEL
37	JAPA	FILED	10-126809	21-Apr-98			LONG WAVELENGTH VCSEL
37	GERM	GRANTED	98106843.0	15-Apr-98	69811553.8	26-Feb-03	LONG WAVELENGTH VCSEL
37	GBRI	GRANTED	98106843.0	15-Apr-98	EP0874428	26-Feb-03	LONG WAVELENGTH VCSEL
37	FRAN	GRANTED	98106843.0	15-Apr-98	EP0874428	26-Feb-03	LONG WAVELENGTH VCSEL
37	EPC	GRANTED	98106843.0	15-Apr-98	EP0874428	26-Feb-03	LONG WAVELENGTH VCSEL
38	USA	GRANTED	08/990267	15-Dec-97	6016326	18-Jan-00	METHOD FOR BIASING SEMICONDUCT OR LASERS
39	USA	GRANTED	09/034279	04-Mar-98	6160830	12-Dec-00	SEMICONDUCTOR LASER DEVICE AND METHOD OF MANUFACTURE
39	USA	GRANTED	09/641003	17-Aug-00	6356571	12-Mar-02	SEMICONDUCTOR LASER DEVICE AND METHOD OF MANUFACTURE
40	USA	GRANTED	08/903670	31-Jul-97	5903586	11-May-99	LONG WAVELENGTH VERTICAL CAVIT Y SURFACE EMITTING LASER
41	USA	GRANTED	08/904189	31-Jul-97	5978398	02-Nov-99	LONG WAVELENGTH VERTICAL CAVIT Y SURFACE EMITTING LASER
42	USA	GRANTED	08/912940	15-Aug-97	5956363	21-Sep-99	LONG WAVELENGTH VERTICAL CAVIT Y SURFACE EMITTING LASER WITH OXIDATION LAYERS AND METHOD OF FABRICATION
43	USA	GRANTED	08/929515	15-Sep-97	6061380	09-May-00	VERTICAL CAVITY SURFACE EMITTI NG LASER WITH DOPED ACTIVE REG ION AND METHOD OF FABRICATION
44	USA	GRANTED	08/929377	15-Sep-97	6021146	01-Feb-00	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER SINGLE MODE OPERATION AND METHOD OF FABRICATION
45	USA	GRANTED	08/963623	04-Nov-97	6021147	01-Feb-00	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER SINGLE MODE OPERATION AND METHOD OF FABRICATION

Patents and Patent Applications (Acquired from Motorola)

1	USA	GRANTED	756695	09-Sep-91	5164949	17-Nov-92	VERTICAL CAVITY SURFACE EMITTI NG LASER WITH LATERAL INJECTIO N
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 IMPLAN T
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 CAVI TY SURFACE EMITTING LASER
5	USA	GRANTED	857856	26-Mar-92	5274655	28-Dec-93	TEMPERATURE INSENSITIVE VERTIC AL CAVITY SURFACE EMITTING LAS ER
6	USA	GRANTED	08/271534	07-Jul-94	5446752	29-Aug-95	VCSEL WITH CURRENT BLOCKING LA YER OFFSET
7	USA	GRANTED	922719	31-Jul-92	5293392	08-Mar-94	TOP EMITTING VCSEL WITH ETCH S TOP LAYER
8	USA	GRANTED	925139	06-Aug-92	5317587	31-May-94	VSCEL WITH SEPARATE CONTROL OF CURRENT DISTRIBUTION AND OPTI CAL 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 OPE RATING REGION PROVIDING A LATE RAL WAVEGUIDE AND CURRENT LIMI TING 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 METH OD OF FABRICATION
12	USA	GRANTED	08/075934	14-Jun-93	6156582	05-Dec-00	METHOD OF FABRICATING TOP EMIT TING RIDGE VCSEL WITH SELF-ALI GNED CONTACT AND SIDEWALL REFL ECTOR
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 HI GH HEAT CONDUCTIVITY
13	USA	GRANTED	08/443609	18-May-95	5538919	23-Jul-96	A SEMICONDUCTOR DEVICE WITH HI GH HEAT CONDUCTIVITY
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14	GBRI	GRANTED	95103479.2	10-Mar-95	EP0674371	02-Jun-99	SEMICONDUCTOR LASER AND METHOD THEREFOR
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17	KORS	GRANTED	10-1995-0015823	15-Jun-95	341946	12-Jun-02	PATTERNED MIRROR VCSEL WITH AD JUSTABLE SELECTIVE ETCH REGION
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30	JAPA	FILED	10-46204	10-Feb-98			VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
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30	GBRI	GRANTED	98102181.9	09-Feb-98	EP0860915	23-Apr-03	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
30	FRAN	GRANTED	98102181.9	09-Feb-98	EP0860915	23-Apr-03	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER OPERAT ION AND METHOD OF FABRICATION
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34	TAIW	GRANTED	87101798	10-Mar-98	NI-110433	11-Jan-00	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD FABRICATI ON
34	JAPA	FILED	10-46205	10-Feb-98			LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD OF FABRIC ATION
34	GERM	GRANTED	98102210.6	09-Feb-98	69809482.4	20-Nov-02	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD FABRICATI ON

34	GBRI	GRANTED	98102210.6	09-Feb-98	EP0860913	20-Nov-02	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD FABRICATI ON
34	FRAN	GRANTED	98102210.6	09-Feb-98	EP0860913	20-Nov-02	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITT ING LASER AND METHOD FABRICATI ON
35	USA	GRANTED	08/806269	25-Feb-97	5815524	29-Sep-98	WAVELENGTH VCSEL
35	TAIW	GRANTED	87102717	10-Mar-98	NI-110918	01-Feb-00	WAVELENGTH VCSEL
35	JAPA	FILED	10-58804	24-Feb-98			LONG WAVELENGTH VCSEL
35	EPC	FILED	98102770.9	18-Feb-98			WAVELENGTH VCSEL
36	USA	GRANTED	08/813399	10-Mar-97	5898722	27-Apr-99	DUAL WAVELENGTH MONOLITHICALLY INTEGRATED VERTICAL CAVITY SU RFACE EMITTING LASERS AND METH OD OF FABRICATION
36	TAIW	GRANTED	87103512	10-Mar-98	NI-108681	11-Nov-99	DUAL WAVELENGTH MONOLITHICALLY INTEGRATED VERTICAL CAVITY SU RFACE EMITTING LASERS AND METH OD OF FABRICATION
36	JAPA	FILED	10-67805	02-Mar-98			DUAL WAVELENGTH MONOLITHICALLY INTEGRATED VERTICAL CAVITY SU RFACE EMITTING LASERS AND METH OD OF FABRICATION
37	USA	GRANTED	08/839112	23-Apr-97	5943359	24-Aug-99	LONG WAVELENGTH VCSEL
37	TAIW	GRANTED	87106110	21-Apr-98	NI-116648	01-Jul-00	LONG WAVELENGTH VCSEL
37	JAPA	FILED	10-126809	21-Apr-98			LONG WAVELENGTH VCSEL
37	GERM	GRANTED	98106843.0	15-Apr-98	69811553.8	26-Feb-03	LONG WAVELENGTH VCSEL
37	GBRI	GRANTED	98106843.0	15-Apr-98	EP0874428	26-Feb-03	LONG WAVELENGTH VCSEL
37	FRAN	GRANTED	98106843.0	15-Apr-98	EP0874428	26-Feb-03	LONG WAVELENGTH VCSEL
37	EPC	GRANTED	98106843.0	15-Apr-98	EP0874428	26-Feb-03	LONG WAVELENGTH VCSEL
38	USA	GRANTED	08/990267	15-Dec-97	6016326	18-Jan-00	METHOD FOR BIASING SEMICONDUCT OR LASERS
39	USA	GRANTED	09/034279	04-Mar-98	6160830	12-Dec-00	SEMICONDUCTOR LASER DEVICE AND METHOD OF MANUFACTURE
39	USA	GRANTED	09/641003	17-Aug-00	6356571	12-Mar-02	SEMICONDUCTOR LASER DEVICE AND METHOD OF MANUFACTURE
40	USA	GRANTED	08/903670	31-Jul-97	5903586	11-May-99	LONG WAVELENGTH VERTICAL CAVIT Y SURFACE EMITTING LASER
41	USA	GRANTED	08/904189	31-Jul-97	5978398	02-Nov-99	LONG WAVELENGTH VERTICAL CAVIT Y SURFACE EMITTING LASER
42	USA	GRANTED	08/912940	15-Aug-97	5956363	21-Sep-99	LONG WAVELENGTH VERTICAL CAVIT Y SURFACE EMITTING LASER WITH OXIDATION LAYERS AND METHOD OF FABRICATION
43	USA	GRANTED	08/929515	15-Sep-97	6061380	09-May-00	VERTICAL CAVITY SURFACE EMITTI NG LASER WITH DOPED ACTIVE REG ION AND METHOD OF FABRICATION
44	USA	GRANTED	08/929377	15-Sep-97	6021146	01-Feb-00	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER SINGLE MODE OPERATION AND METHOD OF FABRICATION
45	USA	GRANTED	08/963623	04-Nov-97	6021147	01-Feb-00	VERTICAL CAVITY SURFACE EMITTI NG LASER FOR HIGH POWER SINGLE MODE OPERATION AND METHOD OF FABRICATION

EXHIBIT B

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

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		

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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	10/620512	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

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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