

11-29-05

Docket No.: 15436.442.15.1

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
POBA/REV03

05-09-2005

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



Tab settings → → → ▼ ▼

To the Director of the United States Patent and Trademark Office

102997872

Attached original documents or copy thereof.

1. Name of conveying party(ies):
Honeywell International, Inc.

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

Name: **Finisar Corporation**

Address: **1308 Moffett Park Drive**

113007 U.S. PTO
11/11/18134
042905

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

3. Nature of conveyance:

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

City: **Sunnyvale** State/Prov.: **CA**

Country: **USA** ZIP: **94089**

Execution Date: **March 1, 2004**

Additional name(s) & address(es) ☐ 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: **April 22, 2005**

Patent Application No. _____ Filing date _____

B. Patent No.(s) _____

Additional numbers ☐ Yes ☒ No

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

Name: **Eric L. Maschoff**

Registration No. **36,596**

Address: **Customer No. 022913**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

☒ 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)

City: _____ State/Prov.: _____

Country: _____ ZIP: _____

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.

Carl T. Reed

Name of Person Signing

Signature

April 29, 2005

Date

40

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services
Director of the United States Patent and Trademark Office
P.O. Box 1450, Alexandria, VA 22313-1450

PATENT

REEL: 016523 FRAME: 0331

05/03/2005 CHUYENH 0600049 1118134 40.00 DP 05 FC:3021

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, 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

Page 2

Execution Copy

Delaware

PAGE 1

The First State

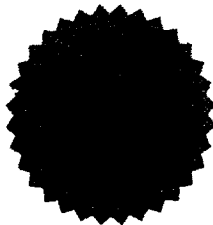
I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"HONEYWELL INC.", A DELAWARE CORPORATION,

WITH AND INTO "HONEYWELL INTERNATIONAL INC." UNDER THE NAME OF "HONEYWELL INTERNATIONAL INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-EIGHTH DAY OF JUNE, A.D. 2002, AT 2:30 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTIETH DAY OF JUNE, A.D. 2002, AT 11:59 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

2061772 8100M

AUTHENTICATION: 1861214

020422994

DATE: 06-29-02

PATENT
REEL: 016523 FRAME: 0336

Certificate of Ownership and Merger

Merging

Honeywell Inc.

into

Honeywell International Inc.

Honeywell International Inc., a corporation organized under the laws of the State of Delaware, hereby certifies as follows:

FIRST: This corporation was incorporated on May 13, 1985.

SECOND: This corporation owns all of the outstanding shares of stock of Honeywell Inc., a corporation organized under the laws of the State of Delaware on October 27, 1927.

THIRD: This corporation, by the following resolutions of its Board of Directors, duly adopted on June 19, 2002, determined to merge Honeywell Inc. into itself:

RESOLVED: That the Corporation merge Honeywell Inc., a Delaware corporation, into itself.

RESOLVED: That at the effective time of the merger, pursuant to Delaware law, the Corporation shall succeed to all the assets and assume all the liabilities and obligations of Honeywell Inc.

RESOLVED: That the merger shall constitute a tax-free liquidation for federal income tax purposes pursuant to Section 332 of the Internal Revenue Code and this Consent shall constitute a plan of liquidation.

RESOLVED: That prior to the effective time of the merger, Honeywell Inc. may distribute assets to the Corporation, and such distribution shall be considered part of and pursuant to this plan of liquidation.

RESOLVED: That in connection with the merger into the Corporation of Honeywell Inc., the proper officers of the Corporation are authorized to make, execute and file with the Secretary of State of Delaware a certificate of ownership and merger in conformity with Delaware law, which certificate is hereby approved, and to do all other acts and things whatsoever which may be necessary or proper to effect the merger.

RESOLVED: That the proper officers of the Corporation or their designees are authorized and directed to take such further actions and to execute and deliver such other instruments and documents, in the name and on behalf of the Corporation and under its corporate seal or otherwise, as any of them shall deem necessary or advisable to carry out the intent and accomplish the purpose of the foregoing resolutions.

FOURTH: Anything herein or elsewhere to the contrary notwithstanding, these mergers may be amended or terminated and abandoned by the Board of Directors of Honeywell International Inc. at any time prior to the time that this Certificate filed with the Secretary of State becomes effective.

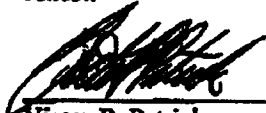
FIFTH: This certificate shall become effective at 11:59 p.m. on June 30, 2002.

Honeywell International Inc.

By: _____


John J. Granato
Assistant Treasurer

Attest:


Victor P. Patrick
Secretary

#98872

TOTAL P.03

EXHIBIT A
TO
PATENT ASSIGNMENT

Issued Patents

1	U.S. #	5231686	FILED: 17JUL1992	ISSUED: 27JUL1993	EXPIRES: 17JUL2012
	APPL#	07/916785	OPTICAL CONNECTOR CONFIGURED TO FACILITATE ACTIVE ALIGNMENT		
	P.D.#	HL5001	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.#	HL4891	GRIFFIN, James Kenneth JOHNSON, Ralph Herbert		
3	U.S. #	5475701	FILED: 29DEC1993	ISSUED: 12DEC1995	EXPIRES: 29DEC2013
	APPL#	08/175016	INTEGRATED LASER POWER MONITOR		
	P.D.#	HL5433	HIBBS-BRENNER, MARY K.		
4	U.S. #	5574738	FILED: 07JUL1995	ISSUED: 12NOV1996	EXPIRES: 07JUL2015
	APPL#	08/476965	MODULATED FREQUENCY-MODULATED VERTICAL-CAVITY SURFACE		
	P.D.#	HL6158	MORGAN, Robert A.		
5	U.S. #	5737348	FILED: 28OCT1996	ISSUED: 07APR1998	EXPIRES: 28OCT2016
	APPL#	08/739471	LIGHT SOURCE MONITOR WITH COMPENSATED TRACKING RATIO		
	P.D.#	HL6618	SMITH, David P.		
6	U.S. #	5745515	FILED: 18JUL1996	ISSUED: 28APR1998	EXPIRES: 18JUL2016
	APPL#	08/683277	SELF LIMITING INTRINSICALLY EYE-SAFE LASER UTILIZING AN INCR		
	P.D.#	HL6290	MAYRA, T.M.		
7	U.S. #	5764674	FILED: 26JUL1996	ISSUED: 09JUL1998	EXPIRES: 26JUL2016
	APPL#	08/671995	CURRENT CONFINEMENT FOR A VERTICAL CAVITY SURFACE EMITTING L		
	P.D.#	HL6201	MAYRA, James R.		
			HIBBS-BRENNER, MARY K.		
			FILED	EXPIRES	

U.S. #	APPL. #	P.D. #	Country	Patent #	Issued	Filed	Expires
8	5774467	08/734403	Canada	2257888	23JUL1997	23JUL1997	23JUL2017
			France	EP0907994	23JUL1997	23JUL1997	23JUL2017
			Great Britain	EP1176680	17SEP2001	23JUL1997	23JUL2017
			Great Britain	EP0907994	23JUL1997	23JUL1997	23JUL2017
			Germany	EP1176680	17SEP2001	23JUL1997	23JUL2017
			Germany	EP1176680	17SEP2001	23JUL1997	23JUL2017
			Italy	EP1176680	17SEP2001	23JUL1997	23JUL2017
			Italy	EP1176680	17SEP2001	23JUL1997	23JUL2017
			Japan	EP1176680	17SEP2001	23JUL1997	23JUL2017
			Sweden	EP1176680	17SEP2001	23JUL1997	23JUL2017
			Switzerland	EP1176680	17SEP2001	23JUL1997	23JUL2017
			Switzerland	EP1176680	17SEP2001	23JUL1997	23JUL2017
9	5799030	08/687701	European Patent Convention	97949337.6	23OCT1997	23OCT1997	23OCT1997
			Japan	2000-517465	23OCT1997	23OCT1997	23OCT1997
			Patent Cooperation Treaty	PCT/US97/18952	23OCT1997	23OCT1997	23OCT1997
10	5805318	08/743367	HIKES-BRENNER, M.	26JUL1996	26JUL1996	26JUL1996	26JUL2016
			HIKES-BRENNER, M.	26JUL1996	26JUL1996	26JUL1996	26JUL2016
11	5812581	08/686895	COX, J.A.	22SEP1998	22SEP1998	22SEP1998	22SEP2018
			COX, J.A.	22SEP1998	22SEP1998	22SEP1998	22SEP2018
12	5841915	08/743369	RABINOVICH, Simon M.	24NOV1998	24NOV1998	24NOV1998	24NOV2018
			RABINOVICH, Simon M.	24NOV1998	24NOV1998	24NOV1998	24NOV2018
13	5893722	08/843116	BLAD, James R.	13APR1999	13APR1999	13APR1999	13APR2019
			BLAD, James R.	13APR1999	13APR1999	13APR1999	13APR2019
14	5903588	08/812620	GUNTER, James Kenneth	11MAY1999	11MAY1999	11MAY1999	11MAY2019
			GUNTER, James Kenneth	11MAY1999	11MAY1999	11MAY1999	11MAY2019

U.S. #	APPL #	P.D. #	FILED	ISSUED	EXPIRES	FILED	EXPIRES
15	U.S. # 5940422	APPL # 08/674230	HI6410	FILED: 26JUL1996	ISSUED: 17JUL1999	EXPIRES: 28JUL2016	EXPIRES: 28JUL2016
				LASER WITH AN IMPROVED MODE CONTROL			
				JOHNSON, Ralph Herbert			
16	U.S. # 5978401	APPL # 08/736803	HI6335	FILED: 25OCT1996	ISSUED: 02NOV1999	EXPIRES: 25OCT2016	EXPIRES: 25OCT2016
				MONOLITHIC VERTICAL CAVITY SURFACE EMITTING LASER AND RESONATOR			
				MORGAN, Robert A.			
17	U.S. # 6055262	APPL # 08/872534	HI6564	FILED: 11JUL1997	ISSUED: 25APR2000	EXPIRES: 11JUL2017	EXPIRES: 11JUL2017
				RESONANT REFLECTOR FOR IMPROVED OPTOELECTRONIC DEVICE PERFO			
				COX JAMES A			
				MORGAN ROBERT A			
18	U.S. # 6064683	APPL # 08/969734	HI6870	FILED: 12DEC1997	ISSUED: 16MAY2000	EXPIRES: 12DEC2017	EXPIRES: 12DEC2017
				BANDGAP ISOLATED LIGHT EMITTER			
				JOHNSON RALPH H			
19	U.S. # 6069905	APPL # 09/001894	HI6885	FILED: 31DEC1997	ISSUED: 30MAY2000	EXPIRES: 31DEC2017	EXPIRES: 31DEC2017
				VERTICAL CAVITY SURFACE EMITTING LASER HAVING INTENSITY CONT			
				DAVIS RICHARD A			
				GUENTER JAMES K			
				SMITH DAVID P			
				WALTER WALTER T			
20	U.S. # 6069991	APPL # 09/134229	HI6270	FILED: 14JUL1998	ISSUED: 30MAY2000	EXPIRES: 31DEC2016	EXPIRES: 31DEC2016
				FLATFIBER OPTIC CONNECTOR ASSEMBLY			
				HIBBS-BRENNER, Mary K.			
				WALKER, JR., Harold Youn			
				France			
				Great Britain			
				Germany			
				Japan			
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Canada	2336644	29MR1999	29MR2019
France	EP1068552	29MR1999	

26	U.S.#	6194769	FILED: 22DEC1997	ISSUED: 27FEB2001	EXPIRES: 22DEC2017
	APPL#	08/995690	FLEXIBLE HERMETIC SEALING		
	P.D.#	H17074	ZHOU PING		
27	U.S.#	6202474	FILED: 26JUL1998	ISSUED: 20MAR2001	EXPIRES: 20JUL2018
	APPL#	09/119273	FINE 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	VERT. STRUCTURE INSENSITIVE TO MOBILE HYDROGEN		
	P.D.#	H16783	JOHNSON RALPH H		
Great Britain					
			PATENT#	EP1068552	29MR1999 29MR2019
			PATENT#	P69900267.7	29MR1999 29MR2019
			APPL.#	541551-2000	29MR1999
			PATENT#	EP1068552	29MR1999 29MR2019
			PATENT#	EP1068552	29MR1999 29MR2019
Germany					
			PATENT#	EP1038339	20NO1998 20NO2018
			PATENT#	EP1038339	20NO1998 20NO2018
			PATENT#	EP1038339	20NO1998 20NO2018
			PATENT#	P69811398.5	20NO1998 20NO2018
			PATENT#	EP1038339	20NO1998 20NO2018
			APPL.#	PCT/US98/24703	20NO1998
			PATENT#	EP1038339	20NO1998 20NO2018
			PATENT#	EP1038339	20NO1998 20NO2018
			PATENT#	EP1038339	20NO1998 20NO2018
			APPL.#	10/350840	24JUL2003
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Great Britain					
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Japan					
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Sweden					
			PATENT#	EP1038339	20NO1998 20NO2018
Switzerland					
			PATENT#	EP1038339	20NO1998 20NO2018
United States					
			APPL.#	10/350840	24JUL2003
29	U.S.#	6404960	FILED: 15MR1999	ISSUED: 11JUL2002	EXPIRES: 31DEC2016
	APPL#	09/268191	FLEXIBLE OPTIC CONNECTOR ASSEMBLY		
	P.D.#	H16270	KIDDS-BRENNER MARY K WALKER, JR HAROLD Y		
			BRISTOW JULIAN P		
			LIT YUE		
United States					
			PATENT#	6459719	03NO2000 12DEC2017
			PATENT#	6522680	03NO2000 12DEC2017
30	U.S.#	6411638	FILED: 31AUG1999	ISSUED: 25JUL2002	EXPIRES: 31AUG2019
	APPL#	09/367424	COUPLED CAVITY ANTI-GUIDED VERTICAL-CAVITY SURFACE-EMITTING		
	P.D.#	H25556	CLARK ANDREW		
			GURTEYER JAMES K		
			JOHNSON RALPH H		
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	30APR2002
			PATENT#	6069991	14AUG1998 31DEC2016
			PATENT#	6088498	14AUG1998 31DEC2016
United States					
			PATENT#	6088498	14AUG1998 31DEC2016

34 -----
U.S.# 6558973 FILED: 22JA2001 ISSUED: 06M12003 EXPIRES: 22JA2021
APPL.# 09/766797 METAMORPHIC LONG WAVELENGTH HIGH SPEED PHOTODIODE
P.D.# H0001519 JOHNSON RALPH R BIRD JAMES R GUENTER JAMES K
Switzerland PATENT# EP1038339 20NO1998 20NO2018
United States PATENT# 6256333 12DE1997 12DE2017
United States APPL.# 10/350840 24JA2003
United States PATENT# 6459719 03NO2000 12DE2017

35 -----
U.S.# 6586776 FILED: 28NO2000 ISSUED: 01JUL2003 EXPIRES: 12AP2020
APPL.# 09/724249 INTEGRATION OF TOP-EMITTING AND TOP-ILLUMINATED OPTOELECTRON
P.D.# H25545 LIT YUE
Canada APPL.# 2435607 22JA2002
European Patent Convention APPL.# 02717369.9 22JA2002
Japan APPL.# 2002-558345 22JA2002
United States APPL.# 10/413186 14AP2003
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.# 6586949 FILED: 30DE1998 ISSUED: 08JUL2003 EXPIRES:
APPL.# 09/224210 METHOD AND APPARATUS FOR HERMETICALLY SEALING PHOTONIC DEVIC
P.D.# H25171 ZHOU, Ping
European Patent Convention FILED EXPIRES
Japan APPL.# 99960433.3 18NO1999
United States APPL.# 592918/2000 18NO1999
APPL.# 10/444796 22MY2003

37 -----
U.S.# 6603784 FILED: 21DE1998 ISSUED: 05AUG2003 EXPIRES: 21DE2018
APPL.# 09/217223 MECHANICAL STABILIZATION OF LATTICE MISMATCHED QUANTUM WELLS
P.D.# H17234 JOHNSON, Ralph Herbert
European Patent Convention FILED EXPIRES
Japan APPL.# 99958857.7 10NO1999
United States APPL.# 590264/2000 10NO1999
APPL.# 10/534558 06AUG2003

38 -----
U.S.# 6606199 FILED: 10OC2001 ISSUED: 12AUG2003 EXPIRES: 10OC2021
European Patent Convention
Japan
United States
APPL.#
APPL.#
APPL.#

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

and ----- Patent Cooperation Treaty APPL.# PCT/US02/32373 100C2002

FILED EXPIRES

PATENT
REEL: 016523 FRAME: 0348

	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

FILED EXPIRES

Argentina	APPL. #	P970102575	13JUL1997
India	APPL. #	1273/NAS/97	12JUL1997
Malaysia	APPL. #	P19702640	13JUL1997
South Africa	PATENT#	97/5133	10JUL1997
Taiwan	PATENT#	NI097734	13JUL1997
United States	PATENT#	6086263	13JUL1996
Venezuela	APPL. #	1118/97	13JUL1997

FILED **EXPIRES**

Argentina	APPL. #	P970102575	13JUL1997
India	APPL. #	1273/NAS/97	12JUL1997
Malaysia	APPL. #	PI9702640	13JUL1997
South Africa	PATENT#	97/5133	10JUL1997
Taiwan	PATENT#	NI097734	13JUL1997
United States	PATENT#	6086263	13JUL1996
Venezuela	APPL. #	1118/97	13JUL1997

U.S. # 09/342801
APPL#
P.D.# H25073
FILED: 29JUL1999
ISSUED:
HERMETIC CHIP-SCALE PACKAGE FOR PHOTONIC DEVICES
JOHNSON, Keith L.

FILED EXPIRES

5 -----
 U.S.#
 APPL.#
 P.D.#
 09/481627
 H17042
 FILED: 12J22000
 ISSUED:
 FIBER OPTIC HEADER WITH INTEGRATED POWER MONITOR
 ZHOU PING
 Canada
 European Patent Convention
 Japan
 APPL.# 2378211 29J22000
 APPL.# 00950273.3 29J22000
 APPL.# 2001-506623 29J22000
 EXPIRES: PENDING
 FILED EXPIRES

6 -----
 U.S.#
 APPL.#
 P.D.#
 09/547538
 H25545
 FILED: 12AP2000
 ISSUED:
 INTEGRATION OF TOP-EMITTING AND TOP-ILLUMINATED OPTOELECTRON
 LIU YUE
 European Patent Convention
 United States
 APPL.# 99113830.6 15J11999
 PATENT# 6081638 20J11998 20J12018
 EXPIRES: PENDING
 FILED EXPIRES

7 -----
 U.S.#
 APPL.#
 P.D.#
 09/577034
 H26373
 FILED: 23MY2000
 ISSUED:
 SYSTEM AND METHOD FOR VESSEL POLARIZATION CONTROL
 QUENTER JAMES K
 TATUM JIMMY A
 Australia
 Canada
 China P.R.
 Czech Republic
 European Patent Convention
 Israel
 Japan
 Korea South
 Singapore
 United States
 APPL.# 2001257028 12AP2001
 APPL.# 2405859 12AP2001
 APPL.# 01811055.X 12AP2001
 APPL.# PV 2002-3727 12AP2001
 APPL.# 01930497.1 12AP2001
 APPL.# 152265 12AP2001
 APPL.# 2001-577584 12AP2001
 APPL.# 2002-7013741 12AP2001
 APPL.# 200206231-3 12AP2001
 APPL.# 10/284863 31OC2002
 PATENT# 6586776 28NO2000 12AP2020
 EXPIRES: PENDING
 FILED EXPIRES

8 -----
 U.S.#
 APPL.#
 P.D.#
 09/552555
 H25508
 FILED: 31AU2000
 ISSUED:
 PROTECTIVE SIDE WALL PASSIVATION FOR VCSEL CHIPS
 LIU YUE
 STRANDECK EVA M
 MORGAN ROBERT A
 NORAVA JAMES C
 Canada
 European Patent Convention
 Japan
 Korea South
 Taiwan
 APPL.# 2410569 22MY2001
 APPL.# 01941535.5 22MY2001
 APPL.# 2001-587545 22MY2001
 APPL.# 2002-7015805 22MY2001
 PATENT# N1162793 23AU2001 22AU2021
 EXPIRES: PENDING
 FILED EXPIRES

9 -----
 U.S.#
 APPL.#
 P.D.#
 09/552555
 H25508
 FILED: 31AU2000
 ISSUED:
 PROTECTIVE SIDE WALL PASSIVATION FOR VCSEL CHIPS
 LIU YUE
 STRANDECK EVA M
 MORGAN ROBERT A
 NORAVA JAMES C
 Canada
 European Patent Convention
 Japan
 Korea South
 APPL.# 2421009 30AU2001
 APPL.# 01966374.9 30AU2001
 APPL.# 2002-524271 30AU2001
 APPL.# 10-2003-7003120 30AU2001
 EXPIRES: PENDING
 FILED EXPIRES

14	U.S.#		European Patent Convention	APPL.#	02746507.9	13JCE2002	
	APPL#	60/311916	Japan	APPL.#	PCT/US802/18587	13JCE2002	
	P.D.#	H0001823	Korea South	APPL.#	PCT/US802/18587	13JCE2002	
			Taiwan	APPL.#	091112890	13JCE2002	
				ISSUED:			EXPIRES: PENDING
			FILED: 13AUG2001				
			METHODS AND SYSTEMS FOR WATER LEVEL BURN-IN OF ELECTRONIC DE				
			HAWKINS BOBBY M				FILED EXPIRES
			BLARD JAMES R				
			HAJJI-SHEIKH MICHAEL J				
15	U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US802/25640	12AUG2002	
	APPL#	09/970073		ISSUED:			EXPIRES: PENDING
	P.D.#	H25566	LASER LIGHT SOURCES HAVING INTEGRATED DETECTOR AND INTENSITY				
			BAUDRYAN PAUL E				
			FRITZ BERNARD S				GALAPENAU LYNN M
			JOHNSON KLEIN L				
16	U.S.#		FILED: 06DEC2001	ISSUED:			EXPIRES: PENDING
	APPL#	10/006103	METHOD AND SYSTEM FOR RELEASING A PLUGGABLE MODULE				
	P.D.#	H0002354	BELL RICHARD L				FILED EXPIRES
			WALNER JR HAROLD Y				
17	U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US802/38728	05DEC2002	
	APPL#	10/026016		APPL.#	091135445	06DEC2002	
	P.D.#	H0002673	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM, AN				EXPIRES: PENDING
			JOHNSON RALPH H				FILED EXPIRES
18	U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US802/41736	13DEC2002	
	APPL#	10/026019		APPL.#	091136681	19DEC2002	
	P.D.#	H0002674	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM AND				EXPIRES: PENDING
			JOHNSON RALPH H				FILED EXPIRES
19	U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US802/39604	11DEC2002	
	APPL#	10/026055		APPL.#	091136672	19DEC2002	
	P.D.#	H0002520	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM IN T				EXPIRES: PENDING
			JOHNSON RALPH H				FILED EXPIRES
20	U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US802/39414	10DEC2002	
	APPL#			APPL.#	091136646	19DEC2002	
	P.D.#		FILED: 27DEC2001	ISSUED:			EXPIRES: PENDING

APPL#	10/026020	VERTICAL CAVITY SURFACE EMITTING LASER INCLUDING INDIUM AND	FILED	EXPIRES
P.D.#	H0002670	JOHNSON RALPH H		
21.				
U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US02/39627
APPL#	10/026044	Taiwan	APPL.#	091137289
P.D.#	H0002671	INDIUM FREE VERTICAL CAVITY SURFACE EMITTING LASER	EXPIRES:	PENDING
		JOHNSON RALPH H		
22.				
U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US02/39912
APPL#	10/028288	Taiwan	APPL.#	091137463
P.D.#	H0002312	SUBMOUNT FOR VERTICAL CAVITY SURFACE EMITTING LASERS AND DET	EXPIRES:	PENDING
		TATUM JIMMY A		
		GUENTER JAMES K		
23.				
U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US02/39620
APPL#	10/028303	Taiwan	APPL.#	091137470
P.D.#	H0002461	FILED: 28DEC2001	EXPIRES:	PENDING
		CURRENT CONFINEMENT, CAPACITANCE REDUCTION AND ISOLATION OF		
		JOHNSON RALPH H		
24.				
U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US02/39623
APPL#	10/028435	Taiwan	APPL.#	091137475
P.D.#	H0003010	FILED: 28DEC2001	EXPIRES:	PENDING
		ASYMMETRIC DISTRIBUTED BRAGG REFLECTOR FOR VERTICAL CAVITY S		
		VILLAREAL SAMUEL S		
		JOHNSON RALPH H		
25.				
U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US02/39625
APPL#	10/028436	Taiwan	APPL.#	091137479
P.D.#	H0001922	FILED: 28DEC2001	EXPIRES:	PENDING
		GAIN GUIDE IMPLANT IN OXIDE VERTICAL CAVITY SURFACE EMITTING		
		BLAND JAMES R		
		GUENTER JAMES K		
26.				
U.S.#		Patent Cooperation Treaty	APPL.#	PCT/US02/39513
APPL#	10/028437	Taiwan	APPL.#	091137126
P.D.#	H0002531	FILED: 28DEC2001	EXPIRES:	PENDING
		VERTICAL CAVITY SURFACE EMITTING LASER HAVING A GAIN GUIDE A		
		COR JAMES A		
		STERELICKA EVA		

27	U.S. # APPL# P.D.#	10/028438 H0002746	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US02/40253 091137478	16DEC2002 26DEC2002	EXPIRES: PENDING
28	U.S. # APPL# P.D.#	10/028439 H35543	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US02/41735 091137286	13DEC2002 25DEC2002	EXPIRES: PENDING
29	U.S. # APPL# P.D.#	10/037010 H0001575	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US02/41737 091137286	13DEC2002 25DEC2002	EXPIRES: PENDING
30	U.S. # APPL# P.D.#	10/037013 H0001589	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US02/39413 091137286	10DEC2002 25DEC2002	EXPIRES: PENDING
31	U.S. # APPL# P.D.#	10/078422 H0002523	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US03/07266 092103649	21FEB2003 21FEB2003	EXPIRES: PENDING
32	U.S. # APPL# P.D.#	10/078473 H0002992	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US03/05471 092103650	21FEB2003 21FEB2003	EXPIRES: PENDING
33	U.S. # APPL#	10/078474	Patent Cooperation Treaty Taiwan	APPL.# APPL.#	PCT/US03/05471 092103650	21FEB2003 21FEB2003	EXPIRES: PENDING

P.D.# H0002769 KNOWN HOOK

Patent Cooperation Treaty
Taiwan

APPL.# PCT/US03/05368
APPL.# 092103671

FILED EXPIRES

21FE2003
21FE2003

U.S.#
APPL#
P.D.#

FILED: 12AP2002 ISSUED:
RESONANT REFLECTOR FOR INCREASED WAVELENGTH AND POLARIZATION
COX JAMES A MORGAN ROBERT A

EXPIRES: PENDING

FILED EXPIRES

Patent Cooperation Treaty
Taiwan

APPL.# PCT/US03/11093
APPL.# 092106392

10AP2003
11AP2003

U.S.#
APPL#
P.D.#

FILED: 30AP2002 ISSUED:
A FLUORESCENT OPTIC CONNECTOR ASSEMBLY
HIBBS-BRENNER, Mary K. WALKER, JR., Harold Youn

EXPIRES: PENDING

FILED EXPIRES

France
Great Britain
Germany
Japan
Sweden
United States
United States
United States

PATENT# EP0950204 13NO1997 13NO2017
PATENT# EP0950204 13NO1997 13NO2017
APPL.# P69710098.7 13NO1997 13NO2017
PATENT# 529991/98 13NO1997
PATENT# EP0950204 13NO1997 13NO2017
PATENT# 6069991 14AU1998 31DE2016
PATENT# 6404960 15MR1999 31DE2016
PATENT# 6088498 14AU1998 31DE2016

U.S.#
APPL#
P.D.#

FILED: 13MY2002 ISSUED:
COUPLED CAVITY ANTI-GUIDED VERTICAL-CAVITY SURFACE-EMITTING
CLARK ANDREW GUENTER JAMES K JOHNSON RALPH Herbert

EXPIRES: PENDING

FILED EXPIRES

Austria
Belgium
France
Great Britain
Germany
Italy
Japan
Korea South
Netherlands
Patent Cooperation Treaty
United States

PATENT# EP1208622 28AU2000 28AU2020
PATENT# EP1208622 28AU2000 28AU2020
PATENT# EP1208622 28AU2000 28AU2020
PATENT# EP1208622 28AU2000 28AU2020
PATENT# P60002478.4 28AU2000 28AU2020
PATENT# EP1208622 28AU2000 28AU2020
APPL.# 2001-520522 28AU2000
APPL.# 2002-7002784 28AU2000
PATENT# EP1208622 28AU2000 28AU2020
PCT/US00/23499 28AU2000
PATENT# 6411638 31AU1999 31AU2019

U.S.#
APPL#
P.D.#

FILED: 24MY2002 ISSUED:
METHODS AND SYSTEMS FOR REMOVING AN OXIDE-INDUCED DEAD ZONE
BIARD JAMES R GUENTER JAMES K

EXPIRES: PENDING

FILED EXPIRES

Patent Cooperation Treaty

APPL.# PCT/US03/16555

27MY2003

38	U.S. #	FILED: 04J2002	ISSUED:		EXPIRES: PENDING
	APPL#	10/163928	WAVELENGTH SELECTIVE DETECTOR		
	P.D.#	H0002499	GUENTER JAMES K	JOHNSON RALPH H	
					FILED EXPIRES
39	U.S. #	FILED: 04J2002	ISSUED:		
	APPL#	10/163057	OPTICAL TRANSDUCER		
	P.D.#	H0003474	TATUM JIMMY A	GUENTER JAMES K	
					FILED EXPIRES
40	U.S. #	FILED: 04J2002	ISSUED:		
	APPL#	10/163440	METHOD AND APPARATUS FOR MONITORING THE POWER OF A MULTI-WAY		
	P.D.#	H0001299	TATUM JIMMY A	GUENTER JAMES K	
					FILED EXPIRES
41	U.S. #	FILED: 14A2002	ISSUED:		
	APPL#	10/219425	ATOMIC HYDROGEN AS A SURFACTANT IN PRODUCTION OF HIGHLY STRA		
	P.D.#	H0002675	JOHNSON RALPH H		
					FILED EXPIRES
42	U.S. #	FILED: 03S2002	ISSUED:		
	APPL#	10/232382	SINGLE MODE VCSEL		
	P.D.#	H0002313	TATUM JAMES A	GUENTER JAMES K	
				JOHNSON RALPH H	FILED EXPIRES
43	U.S. #	Patent Cooperation Treaty	APPL.#	PCT/US03/27665	02S2003
	APPL#	FILED: 03S2002	ISSUED:		
	P.D.#	10/233112	HYBRID MIRROR VCSELS		
		H0003250	JOHNSON RALPH H	WANG TZU-YU	EXPIRES: PENDING
44	U.S. #	FILED: 04S2002	ISSUED:		
	APPL#	10/233625	NITROGEN SOURCES FOR MOLECULAR BEAM EPITAXY		
	P.D.#	H0003322	JOHNSON RALPH H	KIM JIN K	EXPIRES: PENDING
				GUENTER JAMES K	FILED EXPIRES
45	U.S. #	Patent Cooperation Treaty	APPL.#	PCT/US03/27463	04S2003
	APPL#	FILED: 280C2002	ISSUED:		
	P.D.#	10/283381	OXIDE CONTAINED VCSEL WITH A THIN OXIDE AND ENHANCED CONDUCTI		
		H0003150	JOHNSON RALPH H	JOHNSON KLEIN L	EXPIRES: PENDING

U.S. #	APPL. #	FILED	30CC2002	ISSUED	EXPIRES	PENDING
46		Patent Cooperation Treaty				
U.S. #	APPL. #	FILED	30CC2002	ISSUED	EXPIRES	PENDING
APPL. #	10/283298	LONG-WAVELENGTH VERTICAL CAVITY SURFACE EMITTING LASERS				
P.D. #	H0003324	KIM JIN K				
47		Patent Cooperation Treaty				
U.S. #	APPL. #	FILED	30CC2002	ISSUED	EXPIRES	PENDING
APPL. #	10/283311	SELECTIVELY-ETCHABLE HETEROGENEOUS COMPOSITE DISTRIBUTED BRA				
P.D. #	H0003316	KIM JIN K				
48		Patent Cooperation Treaty				
U.S. #	APPL. #	FILED	30CC2002	ISSUED	EXPIRES	PENDING
APPL. #	10/283835	METHOD AND APPARATUS FOR MONITORING THE POWER LEVEL OF TWO O				
P.D. #	H0004180	GUENTER JAMES K				
49		Patent Cooperation Treaty				
U.S. #	APPL. #	FILED	310C2002	ISSUED	EXPIRES	PENDING
APPL. #	10/284863	INTEGRATION OF TOP-EMITTING AND TOP-ILLUMINATED OPTOELECTRON				
P.D. #	H25545	LIU YUE				
50		Patent Cooperation Treaty				
U.S. #	APPL. #	FILED	11NO2002	ISSUED	EXPIRES	PENDING
APPL. #	10/292578	HIGH SPEED OPTICAL TRANSDUCER PACKAGE USING HETEROGENEOUS				
P.D. #	H0001688	LIU YUE				
51		Patent Cooperation Treaty				
U.S. #	APPL. #	FILED	21NO2002	ISSUED	EXPIRES	PENDING
APPL. #	10/301380	LONG WAVELENGTH VCSEL WITH TUNNEL JUNCTION AND IMPLANT				
P.D. #	H0004083	JOHNSON RALPH H				
52		Patent Cooperation Treaty				
U.S. #	APPL. #	FILED	03DE2002	ISSUED	EXPIRES	PENDING
APPL. #	10/308308	BIDIRECTIONAL OPTICAL DEVICE				
P.D. #	H0004155	GUENTER JAMES K				
53		Patent Cooperation Treaty				
U.S. #	APPL. #	FILED	11DE2002	ISSUED	EXPIRES	PENDING
APPL. #	000000	OPTICAL TRANSDUCER				
P.D. #	H0003474	TATON JIMMY A				

P.D.# H0004081 BLASINGAME VIRGIL J JOHNSON RALPH H
61
U.S.# 14AP2003 ISSUED: EXPIRES: PENDING
APPL# METAMORPHIC LONG WAVELENGTH HIGH SPEED PHOTODIODE
P.D.# H0001519 JOHNSON RALPH H BLAND 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# 6588973 22JA2001 22JA2021
62
U.S.# 01MY2003 ISSUED: EXPIRES: PENDING
APPL# PROTECTIVE SIDE WALL PASSIVATION FOR VCSEL CHIPS
P.D.# H25508 LIU YUE MORGAN ROBERT A NOHAVA JAMES C
STRELECKI 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.# 07MY2003 ISSUED: EXPIRES: PENDING
APPL# CONNECTORIZED OPTICAL COMPONENT MISALIGNMENT DETECTION SYSTE
P.D.# H0004792 WILLIAMS RICK S LALONDE ANDRE R
FILED EXPIRES

U.S.# 13MY2003 ISSUED: EXPIRES: PENDING
APPL# VCSEL MODE-TRANSFORMING PHASE FILTER WITH ENHANCED PERFORMAN
P.D.# H0003671 GUENTER JAMES K COX JAMES A JOHNSON RALPH H
BLAND ROBERT JOHNSON KLEIN
FILED EXPIRES

U.S.# 22MY2003 ISSUED: EXPIRES: PENDING
APPL# 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.# 03JE2003 ISSUED: EXPIRES: PENDING
APPL# INTEGRATED SLEEVE PLUGGABLE PACKAGE
P.D.# H0004529 LEE JAMES C
FILED EXPIRES

U.S.# 06JE2003 ISSUED: EXPIRES: PENDING
APPL# PLUGGABLE OPTICAL OPTIC SYSTEM HAVING A LENS FIBER STOP
P.D.# H0003903 GUENTER JAMES D BLASINGAME RAYMOND W LEE JAMES C
GUENTER JAMES K CHEN BO SU
FILED EXPIRES

68	U.S.#	10/606104	FILED: 25JUE2003	ISSUED:		EXPIRES: PENDING
	APPL#		IMP BASED LONG WAVELENGTH VCSEL			
	P.D.#	H0004823	PARK GYONGMON	WANG TZU-YU	RYOU JAE-HYUN	
			KIM JIN K	KMON HOKI		
69	U.S.#	10/607629	FILED: 27JUE2003	ISSUED:		EXPIRES: PENDING
	APPL#		A DIELECTRIC VCSEL GAIN GUIDE			
	P.D.#	H0004606	RYOU JAE-HYUN	PARK GYONGMON		
70	U.S.#	10/607758	FILED: 27JUE2003	ISSUED:		EXPIRES: PENDING
	APPL#		VCSEL HEATING THERMAL MANAGEMENT			
	P.D.#	H0004788	RYOU JAE-HYUN	RINGLE MICHAEL D	LIU YUE	
71	U.S.#	10/607887	FILED: 27JUE2003	ISSUED:		EXPIRES: PENDING
	APPL#		ENHANCED LATERAL OXIDATION			
	P.D.#	H0004636	PARK GYONGMON	RYOU JAE-HYUN	KMON HOKI	
			WANG TZU-YU	KIM JIN K		
72	U.S.#	10/607982	FILED: 30JUE2003	ISSUED:		EXPIRES: PENDING
	APPL#		COMPACT PACKAGE DESIGN FOR VERTICAL CAVITY SURFACE EMITTING			
	P.D.#	H0004045	LIU YUE			
73	U.S.#	10/610256	FILED: 30JUE2003	ISSUED:		EXPIRES: PENDING
	APPL#		A HIGH SPEED OPTICAL SYSTEM			
	P.D.#	H0004286	COX JAMES A	CHEN BO SU		
74	U.S.#	10/612660	FILED: 02JUL2003	ISSUED:		EXPIRES: PENDING
	APPL#		A LENS OPTICAL COUPLER			
	P.D.#	H0004667	CHEN BO SU	BLASINGAME RAYMOND W	ORENSTEIN JAMES D	
75	U.S.#	10/611992	FILED: 03JUL2003	ISSUED:		EXPIRES: PENDING
	APPL#		PSEUDOMORPHIC LAYER IN TUNNEL JUNCTION VCSEL			
	P.D.#	H0004618	RYOU JAE-HYUN			
76	U.S.#	10/617290	FILED: 10JUL2003	ISSUED:		EXPIRES: PENDING
	APPL#		VERAATILE METHOD AND SYSTEM FOR SINGLE MODE VCSELS			
	P.D.#	H26341	JOHNSON RALPH H	MORALES GILBERTO		
77	U.S.#	10/617892	FILED: 11JUL2003	ISSUED:		EXPIRES: PENDING
	APPL#		VERAATILE METHOD AND SYSTEM FOR SINGLE MODE VCSELS			
	P.D.#	H26341	JOHNSON RALPH H	MORALES GILBERTO		

86
U.S.#
APPL#
P.D.#
10/706906
H0004299
FILED: 14NOV03
MODULATION DOPED TUNNEL JUNCTION
KIM JIN K
ISSUED:
EXPIRES: PENDING
and

Active Disclosures - Rated for Filing as Patent Applications

1	U.S. # APPL# P.D.#	FILED: LONG WAVELENGTH VCSEL ACTIVE REGION USING SB IN GAAS BARRI JOHNSON RALPH H	ISSUED: EXPIRES: DISCLOSURE
2	U.S. # APPL# P.D.#	FILED: DESIGNS FOR LONG WAVELENGTH (1200 TO 1800 NM EMISSION) VERTI KIM JIN K	ISSUED: EXPIRES: DISCLOSURE
3	U.S. # APPL# P.D.#	FILED: METHODS FOR POLARIZATION CONTROL IN VCSELS KIM JIN K	ISSUED: EXPIRES: DISCLOSURE
4	U.S. # APPL# P.D.#	FILED: USE OF ALGAS CONFINING LAYERS IN ACTIVE REGIONS CONTAINING JOHNSON RALPH H	ISSUED: EXPIRES: DISCLOSURE
5	U.S. # APPL# P.D.#	FILED: MULTICOMPONENT BARRIER LAYERS IN QUANTUM WELL ACTIVE REGIONS JOHNSON RALPH H	ISSUED: EXPIRES: DISCLOSURE
6	U.S. # APPL# P.D.#	FILED: A PLANO-CONVEX LENS GENERATES A RING LIGHT PATTERN TO REDUC CHEN BO SU	ISSUED: EXPIRES: DISCLOSURE
7	U.S. # APPL# P.D.#	FILED: CARRIER BONDED 1550 NM VCSEL DESIGN WITH INP SUBSTRATE REMOV KIM JIN K	ISSUED: EXPIRES: DISCLOSURE
8	U.S. # APPL# P.D.#	FILED: DIGITAL ALLOY OXIDATION LAYERS RYOU JAE-HYUN	ISSUED: EXPIRES: DISCLOSURE
9	U.S. # APPL# P.D.#	FILED: METAL-ASSISTED DBRS FOR THERMAL MANAGEMENT IN VCSELS KIM JIN K	ISSUED: EXPIRES: DISCLOSURE
10	U.S. # APPL# P.D.#	FILED: NEW DBR USING THE COMBINATION OF II-VI AND III-V MATERIALS KIM JIN K	ISSUED: EXPIRES: DISCLOSURE
11	U.S. # APPL# P.D.#	FILED: INTELS GROWN UNDER VERY LOW V/III TO ENHANCE THE OXIDATION R KIM JIN K	ISSUED: EXPIRES: DISCLOSURE
12	U.S. # APPL# P.D.#	FILED: KIM JIN K	ISSUED: EXPIRES: DISCLOSURE

APPL#	P.D.#	THE USE OF MIGRATION ENHANCED EPITAXY IN LOW TEMPERATURE GROW	JOHNSON RALPH H	ISSUED:	EXPIRES: DISCLOSURE
13					
U.S.#					
APPL#					
P.D.#	H0005284	ELECTION AFFINITY ENGINEERING FOR VESSELS	BIARD JAMES R	JOHNSON RALPH H	JOHNSON KLEIN L
14					
U.S.#					
APPL#					
P.D.#	H0005285	DESIGN AN EMBEDDED REFLECTIVE SURFACE IN A MOLDED LENS FOR SI	CHEN BO SU	BIARD JAMES R	EXPIRES: DISCLOSURE
15					
U.S.#					
APPL#					
P.D.#	H0005590	METHOD TO ACHIEVE PRECISION RELATIONAL FIT BETWEEN TO HEADER	KORI TOFFIK	STOLYAR MARK G.	SWANICOTT JAMES L.
16					
U.S.#					
APPL#					
P.D.#	H0005869	FILED: PLEX CIRCUIT TO CIRCUIT BOARD RETAINING STAPLE	JOHNSON KLEIN L	LIU YUE	EXPIRES: DISCLOSURE
end					

Active Disclosures

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

end

Patents and Patent Applications (Acquired from Motorola)

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	EP69407566.3	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	EP0653823	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	TAW	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	5547896	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	TAW	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	TAW	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	TAW	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 CONTROL IN SEMICONDUCTOR LASERS
25	KORS	FILED	10-1997-0027673	28-Jun-97			METHOD OF MODE DETECTION AND CONTROL IN SEMICONDUCTOR LASERS
25	JAPA	FILED	9-191619	01-Jul-97			METHOD OF MODE DETECTION AND CONTROL IN SEMICONDUCTOR LASERS
26	USA	GRANTED	08/963624	04-Nov-97	5895531	30-Nov-99	VCSEL HAVING POLARIZATION CONTROL
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	TAW	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 TRANSITION 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	28-Mar-98	6121068	19-Sep-00	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITTING LASER AND METHOD OF FABRICATION
34	TAW	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

34	GBRI	GRANTED	98102210.6	09-Feb-98	EP0860913	20-Nov-02	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITTING LASER AND METHOD OF FABRICATION
34	FRAN	GRANTED	98102210.6	09-Feb-98	EP0860913	20-Nov-02	LONG WAVELENGTH LIGHT EMITTING VERTICAL CAVITY SURFACE EMITTING LASER AND METHOD OF FABRICATION
35	USA	GRANTED	08/808269	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 SURFACE EMITTING LASERS AND METHOD OF FABRICATION
36	TAIW	GRANTED	87103512	10-Mar-98	NI-108881	11-Nov-99	DUAL WAVELENGTH MONOLITHICALLY INTEGRATED VERTICAL CAVITY SURFACE EMITTING LASERS AND METHOD OF FABRICATION
36	JAPA	FILED	10-87805	02-Mar-98			DUAL WAVELENGTH MONOLITHICALLY INTEGRATED VERTICAL CAVITY SURFACE EMITTING LASERS AND METHOD 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-116848	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	6018326	18-Jan-00	METHOD FOR BIASING SEMICONDUCTOR 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 CAVITY SURFACE EMITTING LASER
41	USA	GRANTED	08/904189	31-Jul-97	5978398	02-Nov-99	LONG WAVELENGTH VERTICAL CAVITY SURFACE EMITTING LASER
42	USA	GRANTED	08/912940	15-Aug-97	5958383	21-Sep-99	LONG WAVELENGTH VERTICAL CAVITY 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 EMITTING LASER WITH DOPED ACTIVE REGION AND METHOD OF FABRICATION
44	USA	GRANTED	08/929377	15-Sep-97	6021146	01-Feb-00	VERTICAL CAVITY SURFACE EMITTING 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 EMITTING LASER FOR HIGH POWER SINGLE MODE OPERATION AND METHOD OF FABRICATION

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

15438.432.4	09/773830	31-Dec-98		
15438.432.4.4	10/138817	30-Apr-02		
15438.432.6.1	09/481627	12-Jan-00		
15438.432.7.1	09/795029	14-Feb-97		
15438.432.7.2	09/814488	10-Mar-97		
15438.433.3.3	10/280840	24-Jan-03		
15438.433.4.1	10/147136	13-May-02		
15438.433.6.1	10/413188	14-Apr-03		
15438.434.1.1	10/284869	31-Oct-02		
15438.434.1.2	09/847638	12-Apr-00		
15438.434.2.1	10/444798	22-May-03		
15438.434.3.1	10/834568	4-Aug-03		
15438.434.5	09/342801	28-Jun-99		
15438.434.8	09/577034	23-May-00		
15438.434.7	09/853888	31-Aug-00		
15438.434.7.1	10/427337	1-May-03		
15438.435.1	09/724920	28-Nov-00		
15438.435.1.1	10/817290	10-Jul-03		
15438.435.1.2	10/817882	11-Jul-03		
15438.435.2	09/751422	29-Dec-00		
15438.435.3	09/751423	29-Dec-00		
15438.435.4	09/803821	12-Mar-01		
15438.435.5	09/881167	14-Jun-01		
15438.435.6	09/311916	13-Aug-01		
15438.435.7	09/970073	20-Oct-01		
15438.436.1	10/008103	6-Dec-01		
15438.436.2	10/028016	20-Dec-01		
15438.436.3	10/028018	20-Dec-01		
15438.436.4	10/028066	20-Dec-01		
15438.436.5	10/028020	27-Dec-01		
15438.436.6	10/028044	27-Dec-01		
15438.436.7	10/028288	28-Dec-01		
15438.436.8	10/028303	28-Dec-01		
15438.437.1	10/028435	28-Dec-02		
15438.437.2	10/028436	28-Dec-02		
15438.437.3	10/028437	28-Dec-01		
15438.437.4	10/028438	28-Dec-01		
15438.437.5	10/028439	28-Dec-01		
15438.437.6	10/037010	31-Dec-01		
15438.437.7	10/037013	31-Dec-01		
15438.437.7.1	10/688220	24-Sep-03		
15438.437.8	10/078422	21-Feb-02		
15438.438.1	10/078473	21-Feb-02		
15438.438.2	10/078474	21-Feb-02		
15438.438.3	10/121480	12-Apr-02		
15438.438.4	10/186324	24-May-02		
15438.438.5	10/182928	4-Jun-02		
15438.438.6	10/183057	4-Jun-02		
15438.438.7	10/183440	4-Jun-02		

Exhibit B

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

15436.436.8	10/210426	14-Aug-02		
15436.436.9	10/232382	3-Sep-02		
15436.438.1	10/283112	3-Sep-02		
15436.439.2	10/233625	4-Sep-02		
15436.438.3	10/283381	28-Oct-02		
15436.438.4	10/283298	30-Oct-02		
15436.438.5	10/283311	30-Oct-02		
15436.438.6	10/283636	30-Oct-02		
15436.438.7	10/282578	11-Nov-02		
15436.438.8	10/301380	21-Nov-02		
15436.438.9	10/306308	3-Dec-02		
15436.440.1	10/316355	11-Dec-02		
15436.440.10	10/456123	6-Jun-03		
15436.440.11	10/808104	25-Jun-03		
15436.440.12	10/807629	27-Jun-03		
15436.440.13	10/807788	27-Jun-03		
15436.440.14	10/807887	27-Jun-03		
15436.440.2	10/323889	20-Dec-02		
15436.440.3	10/328823	20-Dec-02		
15436.440.4	10/347788	22-Jan-03		
15436.440.6	10/361710	27-Jan-03		
15436.440.8	10/352283	27-Jan-04		
15436.440.7	10/438841	7-May-03		
15436.440.8	10/436089	13-May-03		
15436.440.9	10/453307	3-Jun-03		
15436.441.1	10/807882	30-Jun-03		
15436.441.10	10/887028	31-Oct-03		
15436.441.11	10/708806	14-Nov-03		
15436.441.2	10/810288	30-Jun-03		
15436.441.3	10/812880	2-Jul-03		
15436.441.4	10/811892	30-Jul-03		
15436.441.5	10/820488	16-Jul-03		
15436.441.6	10/820512	16-Jul-03		
15436.441.7	10/822042	17-Jan-03		
15436.441.8	10/823351	18-Jul-03		
15436.441.9	10/887880	29-Oct-03		
15436.431.1	07/818785	17-Jul-92	5231688	27-Jul-93
15436.431.2	07/808270	6-Jul-92	5284716	23-Nov-93
15436.431.3	08/175018	28-Dec-93	5478701	
15436.431.4	08/478985	7-Jun-96	5574738	12-Nov-96
15436.431.5	08/738471	28-Oct-96	5737348	7-Apr-98
15436.431.6	08/883277	18-Jul-98	5746515	28-Apr-98
15436.431.7	08/871885	28-Jun-96	5757674	8-Jun-96
15436.431.8	08/734405	18-Oct-96	5774487	30-Jun-96
15436.431.9	08/887701	26-Jul-96	5789030	25-Aug-96
15436.431.10	08/743367	4-Nov-96	5806318	8-Sep-98
15436.431.11	08/888885	28-Jul-98	5812518	22-Sep-98
15436.431.12	08/743388	4-Nov-98	5841916	24-Nov-98
15436.431.13	08/843116	28-Apr-97	5885722	13-Apr-99