Form PTO-1595 U.S. DEPARTMENT OF COMMERCE (Rev. 03/01) U.S. Patent and Trademark Office 101970377 OMB No. 0651-0027 (exp. 5/31/2002) Tab settings ⇒ ⇒ ⇒ To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): Name and address of receiving party(ies) Raytheon Company Margarete Neumann **Brien Ross** Name: Rekha Doshi Internal Address: Office of the General Counsel J. Robert Pursel a corporation of the state of Delaware Additional name(s) of conveying party(ies) attached? 🚨 Yes 🔀 No 3. Nature of conveyance: X Assignment Merger 141 Spring Street Street Address: Security Agreement Change of Name Other\_ Lexington State: MA Zip: 02421 January 6, 2002 Execution Date: Additional name(s) & address(es) attached? Yes X No 4. Application number(s) or patent number(s): Jan. 6, 2002 If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? Yes X No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41).....\$\_40 **Raytheon Company** Internal Address:\_\_\_Intellectual Property & Licensing Enclosed Authorized to be charged to deposit account Bldg. EO/E01 M/S E150 8. Deposit account number: 2000 E. El Segundo Blvd. Street Address: 50-0616 P. O. Box 902 City: El Segundo State: CA (Attach duplicate copy of this page if paying by deposit account) 90245 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. Jan. 17, 2002 William C. Schubert, Reg. 30,102 Date Name of Person Signing Total number of pages including cover sheet, attachments, and documents: Mall documents to be recorded with required cover sheet information to: nissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

In duplicate

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**PATENT** REEL: 012523 FRAME: 0478

PATENT

## **ASSIGNMENT**

Page 1 of 2 Attorney Docket No. 00W117

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a (an)

## OPTICAL SYSTEM WITH OPTICAL FREQUENCY DISCRIMINATOR

for which	application for	r Letters	Patent of the U	Inited States has	s been executed by	y me, or ( <i>if the</i>	e following is completed)
was	filed	on		as	Application	No.	and

WHEREAS, RAYTHEON COMPANY (hereinafter referred to as RAYTHEON), a Delaware corporation, having its principal place of business in Lexington, Massachusetts, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to RAYTHEON, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request the Director of the United States Patent and Trademark Office and all foreign countries to issue all such Letters Patent to said RAYTHEON, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to RAYTHEON, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by RAYTHEON, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of RAYTHEON, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in RAYTHEON, its successors, assigns or other legal representatives.

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PATENT REEL: 012523 FRAME: 0479

## Raytheon

ASSIGNMENT Page 2 of 2 Attorney Docket No. 00W117

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	//////////////////////////////////////	DATE SIGNED
Margarete Neumann	Gargarete Ranculine	Por 1720-1
RESIDENCE (CITY AND STATE)	4 June (amount	INVENTION AGREEMENT DATE
		3 November 1958
Penetanguishine, Ontario, Canada	INVENTOR'S SIGNATURE	DATE SIGNED
Rekha Doshi	Allosh	Jan. 6/2002.
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE  16 June 1984
Victoria Harbour, Ontario, Canada	Painted Post, N.Y., 14870	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE SIGNED
Robert Pursel	J Pobet Pund	Jan 6/2002
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
Victoria Harbour, Ontario, Canada	Painted Post, N.Y. 14870	January 1988
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE SIGNED
Brien Ross	Brien Rosa	Oct 17/2001
RESIDENCE (CITY AND STATE)		invention agreement date 14 March 1984
Wyevale, Ontario, Canada	14 Maich 1504	
County of SIMCOE )	SS:  11CHAEL W. NIHILL , a Commissioner in ar  1NN & KRIEN KUS I	nd for said County, personally appeared
personally known to me or proved t	to me on the basis of satisfactory evidence of and acknowledged to me that he/she/they er/their signature(s) on the instrument the	EXECUTED THE SAME IN HIS/HER/THEIR
13650 CO FEB 96[RSC/0198] County of Sime ELCAN Optical a Division of R Expires June 5	Technologies, aytheon Systems Canada Liti. intellectu 2004. 2004	Raytheon Company al Property & Licensing, Bldg. EO/E1/E150 DEast El Segundo Boulevard,P. O. Box 902 El Segundo CA 90245-0902 Fax: (310) 647-2592
NOTE! R DOSAL & A. LONGER EMPLOYEES	OF ELCAN Optical	Technologies
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