

09-13-2002

Form PTO-1595

(Rev. 03/01)

RE

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼

102220972

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Edward Beneyworth

Conrad Stenton

Alexandre Lifchits

John W. Bowron

9-4-02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other

08/14/2002

Execution Date: _____

2. Name and address of receiving party(ies)

Name: Raytheon Company

Internal Address: Office of the General Counsel

Street Address: 141 Spring Street

City: Lexington State: MA Zip: 02421

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is: 08/14/2002

A. Patent Application No.(s)

10,236,260

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Raytheon Company

Internal Address: EO/E01/E150

Intellectual Property & Licensing

Street Address: 2000 East El Segundo Boulevard

P O Box 902

City: El Segundo State: CA Zip: 90245

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40



Enclosed



Authorized to be charged to deposit account

8. Deposit account number:

50-0616

DO NOT USE THIS SPACE

9. Signature.

William C. Schubert, Reg. No. 30,102

Name of Person Signing

Signature

SEP 4, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 5

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

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

09/13/2002 TDIRAZI

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PATENT
REEL: 013271 FRAME: 0983

ASSIGNMENT

Page 1 of 3

Attorney Docket No. 01W164

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)

**AIR-GAP OPTICAL STRUCTURE HAVING THE AIR GAP DEFINED BY A
LAYERED SPACER STRUCTURE**

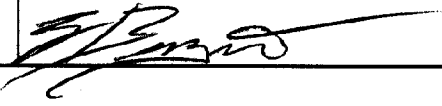
for which application for Letters Patent of the United States has been executed by me, or *(if the following is completed)*
was filed on _____ as Application No. _____ and

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.

IN WITNESS WHEREOF, I have executed this instrument.

PAGE 2 of 3

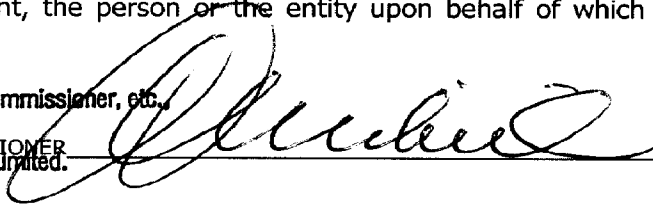
FULL NAME OF SOLE OR JOINT INVENTOR Edward Benneyworth	INVENTOR'S SIGNATURE 	DATE SIGNED Aug 14/02
RESIDENCE (CITY AND STATE) Midland, Ontario, Canada		INVENTION AGREEMENT DATE 21 May 1966

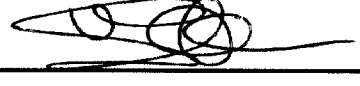
ONTARIO, CANADA))
SS**COUNTY OF SIMCOE**

On Aug. 14, 2002, before me Michael W. Nihill, a COMMISSIONER in and for said county, personally appeared
Edward Benneyworth

☒ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.
MICHAEL WALTER NIHILL, a Commissioner, etc.,
County of Simcoe, for
ELCAN Optical Technologies,
a Division of Raytheon Canada Limited.
Expires June 5, 2004.



FULL NAME OF SOLE OR JOINT INVENTOR Conrad Stenton	INVENTOR'S SIGNATURE 	DATE SIGNED 14 AUG 02
RESIDENCE (CITY AND STATE) Midland, Ontario		INVENTION AGREEMENT DATE 20 January 1992

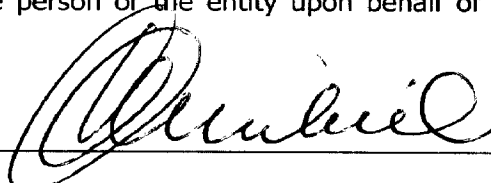
ONTARIO, CANADA))
SS**COUNTY OF SIMCOE**

On Aug. 14, 2002, before me Michael W. Nihill, a COMMISSIONER in and for said county, personally appeared
Conrad Stenton

☒ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

COMMISSIONER



MICHAEL WALTER NIHILL, a Commissioner, etc.,
County of Simcoe, for
ELCAN Optical Technologies,
a Division of Raytheon Canada Limited.
Expires June 5, 2004.

13650 CO FEB 96[RSC/0198]

Raytheon Company
Patent Docket Administration, Bldg. EO/E1/E150
P. O. Box 902
2000 East El Segundo Boulevard
El Segundo CA 90245-0902
Fax: (310) 647-2592

FULL NAME OF SOLE OR JOINT INVENTOR Alexandre Lifchits	INVENTOR'S SIGNATURE <i>A. Lifchits</i>	DATE SIGNED <i>14/08/02</i>
RESIDENCE (CITY AND STATE) <i>14 Bailey Cres. Wyevale P.B. 228 LOL 2TO</i> Ontario, Canada		INVENTION AGREEMENT DATE 17 May 1999

ONTARIO, CANADA

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) SS
)

COUNTY OF SIMCOE

On *Aug. 14*, 2002, before me *Michael W. Nihill*, a COMMISSIONER in and for said county, personally appeared
Alexandre Lifchits

☒ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument, the person or the entity upon behalf of which the person acted, executed the instrument.

MICHAEL WALTER NIHILL, a Commissioner, etc.,
County of Simcoe, for
Official Seal Technologies,
a Division of Raytheon Canada Limited,
Expires June 5, 2004.

WITNESS my hand and

Official Seal Technologies,
a Division of Raytheon Canada Limited,
Expires June 5, 2004.

FULL NAME OF SOLE OR JOINT INVENTOR John W. Bowron	INVENTOR'S SIGNATURE <i>John Bowron</i>	DATE SIGNED <i>Aug 14/02</i>
RESIDENCE (CITY AND STATE) Penetanguishene, Ontario, Canada L90M 1J3		INVENTION AGREEMENT DATE 01 February 2000

ONTARIO, CANADA

)
) SS
)

COUNTY OF SIMCOE

On *Aug. 14*, 2002, before me *Michael W. Nihill*, a COMMISSIONER in and for said COUNTY, personally appeared
John W. Bowron

☒ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/they executed the same in his authorized capacity and that by his signature on the instrument, the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

COMMISSIONER

Michael W. Nihill
MICHAEL WALTER NIHILL, a Commissioner, etc.,
County of Simcoe, for
ELCAN Optical Technologies,
a Division of Raytheon Canada Limited,
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