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To the Director of the U.S. Patent a

1. Name of conveying party(ies)/Execution Date(s):

Andrew James Gabura  
Geoffrey George Harris

Execution Date(s) 20 January 2005

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

2. Name and address of receiving party(ies)

Name: Raytheon Company

Internal Address: \_\_\_\_\_

Office of the General Counsel

Street Address: \_\_\_\_\_

870 Winter Street

City: Waltham

State: MA

Country: US Zip: 02451

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

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Raytheon Company

Internal Address: EO/E04/N119

Street Address: 2000 East El Segundo Boulevard

PO Box 902

City: El Segundo

State: CA Zip: 90245-0902

Phone Number: 8055622108

Fax Number: 8055624120

Email Address: wcschubert@raytheon.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-0616

Authorized User Name \_\_\_\_\_

9. Signature:

William C. Schubert  
Signature

2005-01-27  
Date

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

Name of Person Signing

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

4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

02/10/2005 6T0H11 00000075 500616 11046484  
01 FC:8021 40.00 DA

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)

**Rapid-Response Electron-Beam Deposition System Having a Controller  
Utilizing Leading and Trailing Deposition Indicators**

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

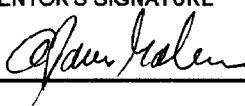
WHEREAS, RAYTHEON COMPANY (hereinafter referred to as RAYTHEON), a Delaware corporation, having its principal place of business in Waltham, Massachusetts, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters 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.

Title: *Rapid-Response Electron-Beam Deposition System Having a Controller Utilizing Leading and Trailing Deposition Indicators*

PAGE 2 OF 3  
Attorney Docket No. 03W164

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR <b>Andrew James Gabura</b>	INVENTOR'S SIGNATURE 	DATE SIGNED <i>January 20/05</i>
RESIDENCE (CITY AND STATE) Midland, Ontario, Canada		INVENTION AGREEMENT DATE 15 March 1984 12 May 1994

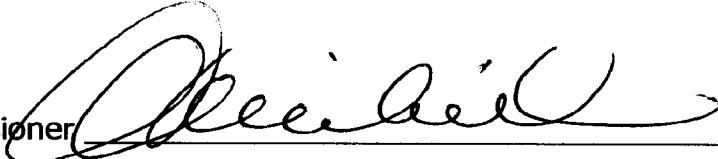
COUNTY OF SIMCOE )  
 )  
 PROVINCE OF ONTARIO ) SS:

On JANUARY 20, 2005, before me, Michael W. Nihill

a Commissioner in and for said County, personally appeared ANDREW JAMES GABURA 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.

[seal]

Commissioner 

MICHAEL WALTER NIHILL, a Commissioner, etc.,  
 County of Simcoe, for ELCAN Optical Technologies,  
 a Division of Raytheon Canada Limited.  
 Expires June 5, 2007.

