

Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/30/2008)

08-29-2007

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



103440449

To the Director of the U.S. Patent and Trademark Office. Please forward the documents or the new address(es) below.

**1. Name of conveying party(ies)**

Kapriel V. Krikorian  
Robert A. Rosen  
Michael Gubala

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) August 10, 2007 and August 14, 2007

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

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

Name: Raytheon Company

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

Intellectual Property & Licensing

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

Intellectual Property & Licensing

Street Address: 2000 East El Segundo Boulevard

PO Box 902

City: El Segundo

State: CA Zip: 90245-0902

Phone Number: 310-647-2577

Fax Number: 310-647-2616

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved: one (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 Leonard A. Alkov

**9. Signature:**

Signature

August 20, 2007

Date

Leonard A. Alkov

Name of Person Signing

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

5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

08/28/2007 DBYRNE 00000144 500616 11894069

01 FC:8021 40.00 DA

PATENT  
REEL: 019771 FRAME: 0277

**ASSIGNMENT**

PATENT

Attorney Docket No. 06W120

Page 1 of 4

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)

**WIDE AREA HIGH RESOLUTION SAR FROM A MOVING AND HOVERING HELICOPTER**

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.

PATENT

REEL: 019771 FRAME: 0278

Title: WIDE AREA HIGH RESOLUTION SAR FROM A MOVING AND HOVERING HELICOPTER

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR  Kapriel V. Krikorian	INVENTOR'S SIGNATURE  <i>Kapriel V. Krikorian</i>	DATE SIGNED  10 August 2007
RESIDENCE (CITY AND STATE)  Calabasas, California		INVENTION AGREEMENT DATE November 19, 1973

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS:

On August 10, 2007, before me, Susan Valerie Antrillo,Notary Public, personally appeared Kapriel V. Krikorian

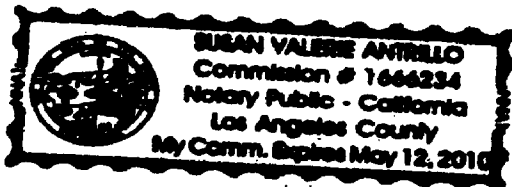
☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~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

Notary Public

*Susan Valerie Antrillo*  
Susan Valerie Antrillo

[seal]



Title: WIDE AREA HIGH RESOLUTION SAR FROM A MOVING AND HOVERING HELICOPTER

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR  Robert A. Rosen	INVENTOR'S SIGNATURE  <i>Robert A. Rosen</i>	DATE SIGNED  10 Aug 2007
RESIDENCE (CITY AND STATE)  Agora Hills, California		INVENTION AGREEMENT DATE June 3, 1975

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS:

On August 10, 2007, before me, Susan Valerie Antrillo,Notary Public, personally appeared Robert A. Rosen

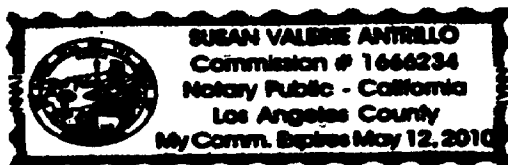
☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s)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

Notary Public

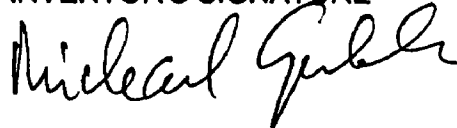
*Susan Valerie Antrillo*  
Susan Valerie Antrillo

[seal]



Title: WIDE AREA HIGH RESOLUTION SAR FROM A MOVING AND HOVERING HELICOPTER

IN WITNESS WHEREOF, I have executed this instrument.


FULL NAME OF SOLE OR JOINT INVENTOR  Michael Gubala	INVENTOR'S SIGNATURE 	DATE SIGNED  14 AUG 2007
RESIDENCE (CITY AND STATE)  Laguna Niguel, California		INVENTION AGREEMENT DATE January 22, 2001

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) SS:On August 14, 2007, before me, Susan Valerie Antrillo,Notary Public, personally appeared Michael Gubala

☐ 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/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) 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.

Notary Public



[seal]

