

09-26-2008

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

DATION FORM COVER SHEET

PATENTS ONLY

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

1. Name of conveying party(ies)

Richard W. Nichols
James S. Mason
Gilbert M. Shows
Joel C. RoperAdditional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

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

Execution Date(s) 6/5/08, 6/6/08, 6/9/08, 6/12/08, 9/2/08

- ☒ 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: _____

Street Address: 870 Winter Street

City: Waltham

State: Massachusetts

Country: USA Zip: 02451-1449

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: Benman, Brown & Williams

Internal Address: Suite 2740

Street Address: 2049 Century Park East

City: Los Angeles

State: CA Zip: 90067

Phone Number: (310) 553-2400

Fax Number: (310) 553-2675

Email Address: _____

6. Total number of applications and patents involved: 1

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

- ☐ 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 _____

Authorized User Name _____

9. Signature: W.J. Benman

Signature

9/11/2008

Date

William J. Benman

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 9

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

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PATENT
REEL: 021597 FRAME: 0643

RECORDATION FORM COVER SHEET
PATENTS ONLY**1. Name of conveying party(ies):**

Raymond D. Eppich
Gustavo A. Bamum

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

Raytheon Company
870 Winter Street
Waltham, MA 02451-1449

ASSIGNMENT

Page 1 of 7
Attorney Docket No: PD-07E017

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)

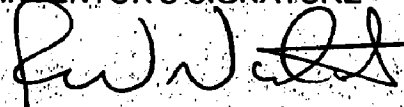
PARTITIONED APERTURE ARRAY ANTENNA

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 therefore 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 therefore 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

FULL NAME OF SOLE OR JOINT INVENTOR Richard W. Nichols	INVENTOR'S SIGNATURE 	DATE SIGNED 6/6/08
RESIDENCE (CITY AND STATE) Manhattan Beach, CA		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA)
COUNTY OF Los Angeles) SS:

On 6/6/08, 2008 before me, J. Mather, a Notary Public, personally appeared RICHARD W. NICHOLS, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

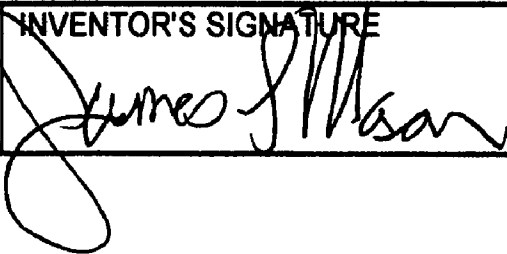
Notary Public


Type Notary Name

[seal]



IN WITNESS WHEREOF, I have executed this instrument.

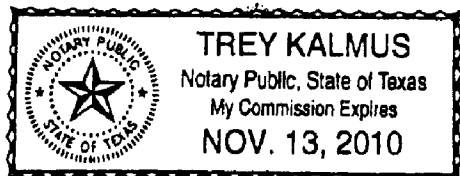
FULL NAME OF SOLE OR JOINT INVENTOR James S. Mason	INVENTOR'S SIGNATURE 	DATE SIGNED 6/12/2008
RESIDENCE (CITY AND STATE) Richardson, TX		INVENTION AGREEMENT DATE

STATE OF Texas)
COUNTY OF Dallas) SS:

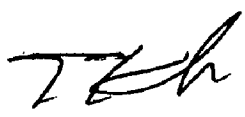
On June 12th, 2008 before me, Trey Kalmus, a Notary Public, personally appeared James S. Mason, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Texas that the foregoing paragraph is true and correct.


WITNESS my hand and official seal.



Notary Public


Type Notary Name: Trey Kalmus

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Gilbert M. Shows	INVENTOR'S SIGNATURE 	DATE SIGNED 6/5/08
RESIDENCE (CITY AND STATE) Plano, TX		INVENTION AGREEMENT DATE

STATE OF Texas)
COUNTY OF Collin) SS:

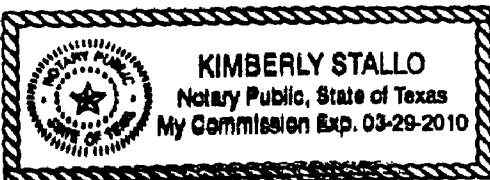
On June 5, 2008 before me, Kimberly Stallo, a Notary Public, personally appeared Gilbert M. Shows, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Texas that the foregoing paragraph is true and correct.

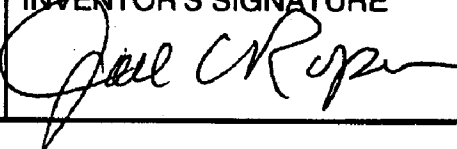
WITNESS my hand and official seal.

Notary Public Kimberly Stallo
Type Notary Name

[seal]



IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Joel C. Roper	INVENTOR'S SIGNATURE 	DATE SIGNED 6/5/08
RESIDENCE (CITY AND STATE) Plano, TX		INVENTION AGREEMENT DATE

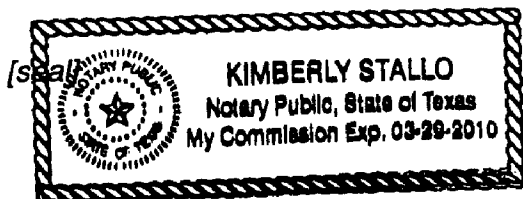
STATE OF Texas)
COUNTY OF Collin) SS:

On June 5, 2008 before me, Kimberly Stallo, a Notary Public, personally appeared Joel C. Roper, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of Texas that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public Kimberly Stallo
Type Notary Name



IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Raymond D. Eppich	INVENTOR'S SIGNATURE <i>Raymond D. Eppich</i>	DATE SIGNED 6/9/08
RESIDENCE (CITY AND STATE) Plano, TX		INVENTION AGREEMENT DATE

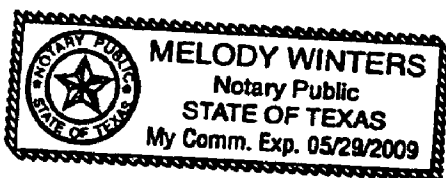
STATE OF Texas)
COUNTY OF Dallas) SS:

On June 9, 2008 before me, Melody Winters, a Notary Public, personally appeared Raymond Dean Eppich, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of Texas that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[seal]

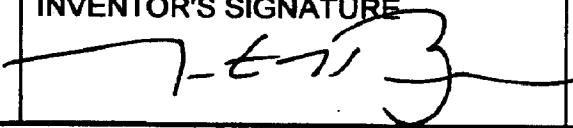


Notary Public

Melody Winters
Type Notary Name

Melody Winters

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Gustavo A. Burnum	INVENTOR'S SIGNATURE 	DATE SIGNED 2 Sept 2008
RESIDENCE (CITY AND STATE) Athens, GA		INVENTION AGREEMENT DATE

STATE OF GEORGIA)
COUNTY OF ATHENS-CLARK) SS:

On 2 SEPTEMBER, 2008 before me, ELIZABETH G. MORTON, a Notary Public, personally appeared GUSTAVO ADOLFO BURNUM, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of GEORGIA that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[seal]

Notary Public Elizabeth G. Morton
Type Notary Name

