

04-23-2007



FORM COVER SHEET
NTS ONLY

4.4-07

To the Director

103398269

Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

David Crouch
Vincent Giancola
Kenneth W. Brown

2. Name and address of receiving party(ies)

Name: Raytheon Company

Internal Address: _____

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

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

Execution Date(s) 03/05/2007

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

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)

1/06/2007 ZABUREKE 00000038 11732734
FC:9 21 40.00 07

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) \$ 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 4001
Expiration Date 06/07

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

Signature

04/04/2007

Date

William J. Benman

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 6

ASSIGNMENT

Attorney Docket No. PD06W241

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)

COMBINED ENVIRONMENTAL-ELECTROMAGNETIC ROTARY SEAL

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.

Re: COMBINED ENVIRONMENTAL-ELECTROMAGNETIC ROTARY SEAL

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR DAVID CROUCH	INVENTOR'S SIGNATURE 	DATE SIGNED 3/5/07
RESIDENCE (CITY AND STATE) CORONA, CA		INVENTION AGREEMENT DATE 11/25/1991

STATE _____)
 COUNTY OF California)
 COUNTY San Bernardino)
 PROVIDENCE OF _____)

See attachment

On _____, 2006, before me, _____, a Commissioner in and for said Providence, personally appeared _____

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, executed the instrument.

WITNESS my hand and official seal.

Commissioner _____

MY COMMISSION EXPIRES

[seal]

Re: COMBINED ENRIVONMENTAL-ELECTROMAGNETIC ROTARY SEAL

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR VINCENT GIANCOLA	INVENTOR'S SIGNATURE <i>Vincent Giancola</i>	DATE SIGNED 3/5/07
RESIDENCE (CITY AND STATE) CHINO, CA		INVENTION AGREEMENT DATE <i>Vincent Giancola</i> 1/19/81

COUNTY OF _____)

PROVENCE OF _____)

On _____, 2006, before me, See Attachment, a

Commissioner in and for said Providence, personally appeared _____

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, executed the instrument.

WITNESS my hand and official seal.

Commissioner _____

MY COMMISSION EXPIRES

[seal]

Re: COMBINED ENVIRONMENTAL-ELECTROMAGNETIC ROTARY SEAL

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR KENNETH W. BROWN	INVENTOR'S SIGNATURE <i>Kenn Brown</i>	DATE SIGNED 3/5/07
RESIDENCE (CITY AND STATE) YUCAIPA, CA		INVENTION AGREEMENT DATE 7/17/1984

COUNTY OF _____)
PROVENCE OF _____)

On _____, 2006, before me, *See Attachment*, a Commissioner in and for said Providence, personally appeared _____

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, executed the instrument.

WITNESS my hand and official seal.

Commissioner _____

MY COMMISSION EXPIRES

[seal]

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

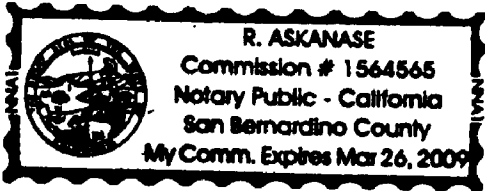
County of San Bernardino } ss.

On 6 March 2007, before me, R. Askanase, Notary Public
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared DAVID D. Crouch, Kenneth W. Brown,
and Vincent Giancola
Name(s) of Signer(s)

personally known to me

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.



Place Notary Seal Above

WITNESS my hand and official seal.

R. Askanase
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document Combined ENVIRONMENTAL-ELECTROMAGNETIC ROTARY Seal
Title or Type of Document: Patent Assignment PDO6W241

Document Date: 5 March 2007 Number of Pages: 4

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing: _____

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing: _____