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

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

## 1. Name of conveying party(ies):

Raytheon Company

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

Name: Navy Secretary of the United States

Internal Address: Office of Naval Research

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

## 3. Nature of conveyance:

☐ Assignment☐ Merger☐ Security Agreement☐ Change of Name☒ Other Confirmatory Instrument

Street Address: 800 North Quincy Street

City: Arlington State: VA Zip: 22217/5660

Execution Date: 6/17/04

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: \_\_\_\_\_

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) 6,348,887

6,292,118 and 6,229,468

Additional numbers attached? ☐ Yes ☒ No

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

Name: Commanding Officer

Internal Address: Space and Naval Warfare

Systems Center, San Diego

Office of Patent Counsel, Code 20012

Street Address: 53510 Silvergate Ave, Rm 103

City: San Diego State: CA Zip: 92152-5765

## 6. Total number of applications and patents involved: 3

7. Total fee (37 CFR 3.41).....\$ No fee req'd

☐ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

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## 9. Signature.

MICHAEL A. KAGAN, Reg No. 33188

Name of Person Signing

MA Kagan  
Signature9/14/2004  
Date

Total number of pages including cover sheet, attachments, and documents: 4

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

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 015797 FRAME: 0428

CONFIRMATORY INSTRUMENT

Ref No. 99E916

Title: SYSTEM FOR QUANTIZING AN ANALOG SIGNAL UTILIZING A  
RESONANT TUNNELING DIODE DIFFERENTIAL TERNARY QUANTIZER

Inventor(s): Tom P. E. Broekaert

Serial No.: 09/478,031

Patent No. US 6,229,468 B1

Filing Date: Jan 5, 2000

Issue Date: May 8, 2001

Contract: N66001-96-C-8620

Contractor: Raytheon Company

The above-identified invention is a Subject Invention under the terms of the identified contract and the FAR 52.227-12 Patent Rights clause incorporated therein.

Contractor elected to retain title to the Subject Invention in the United States.

Subject to the terms of the Contract and applicable regulations, this instrument confirms the Federal Government's nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced, for or on behalf of the United States the Subject Invention. A statement of Government rights will be included by Certificate of Correction.

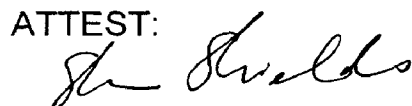
The Government is hereby furnished an irrevocable power to inspect and make copies of the patent application file.

Signed this <sup>th</sup>17 day of June 2003.

RAYTHEON COMPANY

by:   
René E. Grossman, Patent Counsel

ATTEST:



[SEAL]

CONFIRMATORY INSTRUMENT

Ref No. 99E919

Title: SYSTEM FOR QUANTIZING AN ANALOG SIGNAL UTILIZING A  
RESONANT TUNNELING DIODE BRIDGE

Inventor(s): Tom P. E. Broekaert

Serial No.: 09/478,041

Patent No. US 6,292,118 B1

Filing Date: Jan 5, 2000

Issue Date: Sep 18, 2001

Contract: N66001-96-C-8620

Contractor: Raytheon Company

The above-identified invention is a Subject Invention under the terms of the identified contract and the FAR 52.227-12 Patent Rights clause incorporated therein.

Contractor elected to retain title to the Subject Invention in the United States.

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The Government is hereby furnished an irrevocable power to inspect and make copies of the patent application file.

Signed this 17<sup>th</sup> day of June 2003.

RAYTHEON COMPANY

by:   
René E. Grossman, Patent Counsel

ATTEST:



[SEAL]

CONFIRMATORY INSTRUMENT

Ref No. 99E917

Title: METHOD AND SYSTEM FOR QUANTIZING AN ANALOG SIGNAL  
UTILIZING A CLOCKED RESONANT TUNNELING DIODE PAIR

Inventor(s): Tom P. E. Broekaert

Serial No.: 09/478,032

Patent No. US 6,348,887 B1

Filing Date: Jan 5, 2000

Issue Date: Feb 19, 2002

Contract: N66001-96-C-8620

Contractor: Raytheon Company

The above-identified invention is a Subject Invention under the terms of the identified contract and the FAR 52.227-12 Patent Rights clause incorporated therein.

Contractor elected to retain title to the Subject Invention in the United States.

Subject to the terms of the Contract and applicable regulations, this instrument confirms the Federal Government's nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced, for or on behalf of the United States the Subject Invention. A statement of Government rights will be included by Certificate of Correction.

The Government is hereby furnished an irrevocable power to inspect and make copies of the patent application file.

Signed this 17<sup>th</sup> day of June 2003.

RAYTHEON COMPANY

by:   
René E. Grossman, Patent Counsel

ATTEST:



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