

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

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

## RECORDATION 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.

<b>1. Name of conveying party(ies)</b> Paul R. Herz Daniel Sievenpiper Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>2. Name and address of receiving party(ies)</b> Name: <u>Raytheon Company</u> Internal Address: _____ <u>Intellectual Property &amp; Licensing</u> Street Address: _____ <u>870 Winter Street</u> City: <u>Waltham</u> State: <u>MA</u> Country: <u>US</u> Zip: <u>02451</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>3. Nature of conveyance/Execution Date(s):</b> Execution Date(s) <u>November 15, 2007, December 13, 2007</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	<b>4. Application or patent number(s):</b> <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>11/980,913</u> B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>Raytheon Company</u> Internal Address: <u>EO/E04/N119</u> <u>Intellectual Property &amp; Licensing</u> Street Address: <u>2000 East El Segundo Boulevard</u> <u>PO Box 902</u> City: <u>El Segundo</u> State: <u>CA</u> Zip: <u>90245-0902</u> Phone Number: <u>310-647-2577</u> Fax Number: <u>310-647-2616</u> Email Address: _____	<b>6. Total number of applications and patents involved:</b> <u>one (1)</u> <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41)</b> \$ <u>40.00</u> <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)
<b>9. Signature:</b> <u>Leonard A. Alkov</u> Signature _____ Date <u>December 19, 2007</u> _____ Name of Person Signing	<b>8. Payment Information</b> a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>50-0616</u> Authorized User Name <u>Leonard A. Alkov</u> Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px;">4</span>

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

CH \$40.00 600616 11980913

**Raytheon****ASSIGNMENT**

PATENT

Attorney Docket No. 05W196  
Page 1 of 3

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)

**ELECTRONICALLY TUNABLE MICROWAVE REFLECTOR**

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. 11/980,913 on October 31, 2007, 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: 020316 FRAME: 0102**

Title: *ELECTRONICALLY TUNABLE MICROWAVE REFLECTOR*

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR  <b>Paul R. Herz</b>	INVENTOR'S SIGNATURE  <i>Paul Herz</i>	DATE SIGNED  <i>12/13/07</i>
RESIDENCE (CITY AND STATE)  Malibu, California		INVENTION AGREEMENT DATE  n/a

STATE OF CALIFORNIA )  
COUNTY OF Alameda ) SS:

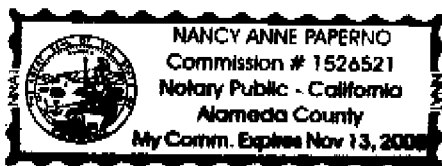
On December 13, 2007, before me, Nancy Anne Paperno  
Notary Public, personally appeared Paul R. Herz

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 Nancy Anne Paperno

[seal]



Title: *ELECTRONICALLY TUNABLE MICROWAVE REFLECTOR*

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR  <b>Daniel Sievenpiper</b>	INVENTOR'S SIGNATURE  <i>Dan Sievenpiper</i>	DATE SIGNED  <i>2007-11-19</i>
RESIDENCE (CITY AND STATE)  Los Angeles, California		INVENTION AGREEMENT DATE n/a

STATE OF CALIFORNIA )  
COUNTY OF Los Angeles ) SS:

On November 15, 2007, before me, Belinda Keiderling  
Notary Public, personally appeared Daniel Sievenpiper

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 Belinda Keiderling

[seal]

