

04-11-2003

02WO65/WCS/2003-00156

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Please record the attached document

jc079 U.S. PTO  
10/402501  
03/28/03

1. Name of conveying party(ies): Robert B. Chipper Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: Raytheon Company Address: City: Lexington State: MA ZIP Code: Country: Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other: Execution Date: March 28, 2003		<input type="checkbox"/> Merger <input type="checkbox"/> Change of Name				
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: <u>March 28, 2003</u>						
A. Patent Application No.(s): 104102501		B. Patent No.(s):				
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
5. Name and address of party to whom correspondence concerning document should be mailed: Name: William C. Schubert, Esq. Address: Raytheon Company 75 Coromar Drive, Bldg, B1, M/S 52 City: Goleta State: CA ZIP Code: 93117		6. Total number of applications and/or patents involved: ..... 1 7. Total fee (37 CFR 3.41): .....\$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Charge deposit account <input checked="" type="checkbox"/> Please charge any fee deficiency to deposit account				
		8. Deposit account number: <u>50-0616</u>				
DO NOT USE THIS SPACE						
9. Statement And Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and, the attached document is either an original document or a true copy of the original document.</i>  <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><u>Harry F. Smith</u> Name of Person Signing</td> <td style="width: 40%; text-align: center;"> Signature</td> <td style="width: 30%; text-align: right;"><u>3/28/03</u> Date</td> </tr> </table> <p style="text-align: right;">Total number of pages including cover sheet(s): 3</p> <p style="text-align: right;">Page 1 of 1.</p>				<u>Harry F. Smith</u> Name of Person Signing	 Signature	<u>3/28/03</u> Date
<u>Harry F. Smith</u> Name of Person Signing	 Signature	<u>3/28/03</u> Date				

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**Raytheon****ASSIGNMENT**Page 1 of 2  
Attorney Docket No. 02W065

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)

**FIXED FOCUS, OPTICALLY ATHERMALIZED, DIFFRACTIVE  
INFRARED ZOOM OBJECTIVE LENS**

for which a Provisional Application was filed on April 1, 2002, as Application No. 60/369,515 and for which a utility application for Letters Patent of the United States has been executed by me, or (*if the following is completed*) was filed on \_\_\_\_\_ as Application No. \_\_\_\_\_.

WHEREAS, RAYTHEON COMPANY (hereinafter referred to as RAYTHEON), a Delaware corporation, having its principal place of business in Lexington, 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 Commissioner of Patents and Trademarks of the United States 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: 013935 FRAME: 0734**

# Raytheon

Based on Provisional Application filed on April 1, 2002, as Application No. 60/369,515

ASSIGNMENT

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Attorney Docket No. **02W065**

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR <b>Robert B. Chipper</b>	INVENTOR'S SIGNATURE <i>Robert B. Chipper</i>	DATE <b>03-28-03</b>
RESIDENCE (CITY AND STATE) <b>Allen, Texas</b>		INVENTION AGREEMENT DATE <b>07-07-1986</b>
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

WCS:RECORD NOH&S:301.0111.U1.(US)

State of \_\_\_\_\_ )  
 County of \_\_\_\_\_ ) SS:  
 On \_\_\_\_\_, 2003, before me \_\_\_\_\_, a Notary Public in and for said State, personally appeared Robert Chipper

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 *Denise Pescatore*