Docket No. 066174.0102/0104/0105 04 - 2	20-2000					
FORM PTO-1595 1-31-92		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office				
To the Honorable Commissioner of P. 101	327579	ached original docur	nents or	copy th	ereof.	
1. Name and Address of Conveying Party(ies):	2. Name and A	Address of receiving Party(	(ies):			_
RAYTHEON COMPANY	Name: ORBI	TAL SCIENCES CORPOR	LATION	I		
Corporation/State: Delaware $\frac{3}{3} + \frac{3}{5} - 9$	Internal Addres	ss:	OPF	2:00 MAR	777	
Additional name(s) of conveying party(ies) attached?  Yes No	Street Address: City: State:	20301 Century Boulevar Germantown Maryland	OPR/FINANCE	æ 20°	784	
3. Nature of conveyance:			m	Ċ	[	
X Assignment Merger Security Agreement Change of Name	Corporation/St	ate: Delaware	**	5		
Other		ne(s) & address(es)		Yes	X	No
Effective Date: December 31, 1998  4. Application number(s) or patent number(s):	attached?		<u> </u>	<u> </u>	<u> </u>	<u> </u>
If this document is being filed together with a new application  A. Patent Application No. (s) 09/177,783  Additional Number	B. Patent No.	(s) 5,223,844; 5,808,565		Yes	X	] <sub>No</sub>
5. Name and address of party to whom correspondence		er of applications and pater	nts invol			
concerning document should be mailed:		11			( )	
Name: Harold E. Meier, Esq.	7. Total Fee (3	37 CFR 3.41): \$120.00	<del></del>			
Internal Address: Baker & Botts, L.L.P.	X	Enclosed				
Street Address: 2001 Ross Avenue		Authorized to be charged	to depo	osit acco	unt	
City: Dallas	8. Deposit acc					
State: Texas Zip: 75201						
	(Attach	Duplicate Copy of this page if page	aving by d	leposit acc	ount)	
DO NO	T USE THIS SPACE	<del></del>	<del>, , ,</del>			
9. Statement and signature.						
To the best of my knowledge and belief, the foregoing inforn	nation is true and co	rrect and any attached cop	y is a tri	ие сору	of the	
original document.  Harold E. Meier  Jarola	1 Empies	·	3/	13/2.	000	_
Name of Person Signing Signature			Date			_
	To	tal number of pages includi	ing cove	er sheet		6
OMB No. 0651-0011 (exp.4/94)						<u> </u>
Do not	detach this portion					
,	of Patent and Trade	marks				-
Washin Public burden reporting for this sample cover theet is estimated to average about 30 minutes per document	ox Assignments ngton, D.C. 20231 nt to be recorded, including time:	for reviewing the document and gathering th	se data needer	d, and comple	eting and re	viewing
the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Budget. Paperwork Reduction Project. (0651-0011). Washington D.C. 20503	k Office, Office of Information Sy	stems, PK2-1000C, Washington, D.C. 2023	1, and to the	Office of Ma	magement s	and

DAL01:492815.1

PATENT ASSIGNMENT

WHEREAS, RAYTHEON COMPANY (hereafter "Assignor"), a Delaware

corporation, having an address of 141 Spring Street, Lexington, Massachusetts 02421, is the owner

of the patents and patent applications set forth on Exhibit A hereto and the inventions described and

claimed therein (hereafter the "Patent Property"); and

WHEREAS, ORBITAL SCIENCES CORPORATION (hereafter "Assignee"), a

Delaware corporation, having an address of 20301 Century Boulevard, Germantown, Maryland

20784, did acquire all right, title and interest in and to the Patent Property as the results of a transfer

of certain assets effective December 31, 1998.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency

of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over nunc pro

tunc to Assignee, all its right, title and interest in and to the Patent Property, as well as all reissues

and extensions thereof, the same to be held and enjoyed by Assignee for its own use and benefit, and

for the use and benefit of its successors, assigns, or legal representatives, to the end of the term or

terms for which such Patent Property may be granted or reissued, as fully and entirely as the same

would have been held and enjoyed by Assignor if this assignment and sale had not been made.

DAL01:488221.1

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Assignor also assigns to Assignee, all right, title and interest in and to the inventions

disclosed in said Patent Property throughout the world, including the right to file applications and

obtain patents, utility models, industrial models and designs for said Patent Property in its own name

throughout the world, including all rights to publish cautionary notices reserving ownership of said

inventions and all rights to register said Patent Property in appropriate registries; and Assignor further

agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits,

and any other papers in connection therewith necessary to perfect such right, title and interest in

Assignee.

Assignor also assigns unto Assignee all claims for damages by reason of infringement

prior to the assignment date of the Patent Property throughout the world, with the right to sue for

and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns

and other legal representatives.

Assignor also will, at the expense of Assignee, testify in any legal proceedings, sign

all lawful papers, execute all provisional, divisional, continuation, continuation-in-part, reissue and

substitute applications, make lawful oaths and declarations, and generally do everything possible to

vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said Patent

Property in all countries.

DAL01:488221.1

IN WITNESS WHEREOF, the parties have caused this Patent Assignment to be executed on the dates and in the capacities shown below.

RAYTHEON COMPANY

ORBITAL SCIENCES CORPORATION

Michael C. Elechardt

Its:

**Assistant Secretary** 

Date: 12-8-49

By:

Its: Assistant Secretary

DAL01:488221,1

Before me, the undersigned, a Notary Public on this day personally appeared MICHAEL C. EBERHARDT, known to me to be the person and officer whose name is subscribed to the foregoing instrument and acknowledged to me that the same was the act of the said RAYTHEON COMPANY, a Delaware corporation, and that he had executed the same as the act of such corporation for the purpose and consideration therein expressed, and in the capacity therein stated.

Given under my hand and seal of office this Ith day of December 1999.

SHARRON CHIADO
Notary Public, State of Texas
My Commission Expires 05-19-01

Notary Public in and for the State of Texas

STATE OF \_MARYLAND COUNTY OF \_FREDERICK

Before me, the undersigned, a Notary Public on this day personally appeared <a href="Richard W. Sherman">Richard W. Sherman</a>, known to me to be the person and officer whose name is subscribed to the foregoing instrument and acknowledged to me that the same was the act of the said ORBITAL SCIENCES CORPORATION, a Delaware corporation, and that he had executed the same as the act of such corporation for the purpose and consideration therein expressed, and in the capacity therein stated.

Given under my hand and seal of office, this 7th day of February ,x1999,2000

"OFFICIAL SEAL"
ANDREA H. ESHBAUGH
NOTARY PUBLIC, STATE OF MARYLAND
My Commission Expires 8/1/00

Notary Public in and for

the State of Maryland

## EXHIBIT A

## U.S. Patents

Patent No.	Issue Date	<u>Title</u>	<u>Title</u>			
5,223,844	06/29/93	Vehicle Tracking and Security System				
5,808,565	09/15/98	GPS Triggered Automatic Annunciator for Vehicles				
U.S. Patent Applications						
Appln. No.	Filing Date	Title				
09/177,783	10/22/98	Method and System for Regulating Switching of a Traffic Light				
Foreign Patents						
Country	Patent No.	Issue Date	<u>Title</u>			
Venezuela	845/94	10/31/97	Vehicle Tracking and Security System			
Foreign Patent Applications						
Country	Appln. No.	Filing Date	<u>Title</u>			
Singapore	n∕a	10/13/99	Method and System for Regulating Switching of a Traffic Light			
Netherlands	n/a	10/18/99	Method and System for Regulating Switching of a Traffic Light			
Italy	n/a	10//99	Method and System for Regulating Switching of a Traffic Light			

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PATENT
RECORDED: 03/13/2000 REEL: 010703 FRAME: 0132