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FORM	PTO 1	595	



٠٥.	DEPARTMENT	OF COMMERCE
	Patent and	Trademark Office

1-31-92			Patent and	Trademark Office
To the Honorable Commissioner o.	10231284	7 hed or	iginal documents or copy t	hereof.
Name and Address of Conveying Party(ies):	2.	Name and Address of		
Individual: Raphael Joseph Welsh 327 Magothy Bridge Road (Ann Arundel Co Pasadena, Maryland 21122-4125	unty)	Name: Internal Address:	Raytheon Company	5283
Citizenship: United States of America		Street Address:	141 Spring Street	0/31
Additional name(s) of conveying party(ies) attached Yes X No	, (2)	City:	Lexington	300
3. Nature of conveyance:	24/00	State: Corporation/State	Massachusetts Delaware	Zip: 02421
X Assignment Mo	erger			
Security Agreement Ch	ange of Name			
Other:		Additional name(s) & Address(es) attached?	Yes	X No
Execution Date: 10/26/2002				
 Application number(s) or patent number(s): If this document is being filed together with a A. Patent Application No.(s): 	new application, the execu	ition date of the applicat B. Patent No.(s):	tion is: 12/03/2002	
10/3/5283		Additional Number	ers Yes	X No
Name and address of party to whom correspond document should be mailed to:			ation and patents involved	One
Name Iama W. Milla Fac	7.	Total Fee (37C.F.R. 3.4	41): \$40.00	
Name: Jerry W. Mills, Esq. Internal Address: Baker Botts L.L.P. Street Address: 2001 Ross Avenue, Suit	e 600	X Enclosed Authorized t	o be charged to deposit acc	count
City: Dallas State: Texas Zip	75201-2980 8.	Deposit Account Numl	ber:	
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9. Statement and signature. To the best of my knowledge and belief, the ford document.			ached copy is a true copy o	f the original
Bradley P. Williams Reg. No. 30,222	Budy 1. L	Mi	December 9, 2002	
Name of Person Signing	Signature		Date	
	Total n	number of pages includi	ng cover sheet	3
OMB No. 0651-0011 (exp. 4/94)	Do not detach this	portion		***************************************
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Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503				

12/16/2002 DBYRNE 00000046 10315283

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ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors) of residence as listed, have invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, a Declaration for said application having been executed on the date set forth below; and

WHEREAS, Raytheon Company (hereinafter referred to as "Assignee"), a Delaware Corporation, with an address of 141 Spring Street, Lexington, Massachusetts 02421, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest in and to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree 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.

I will communicate to Assignee any facts known to me respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all 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 invention in all countries

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

DAL01:708645.1

PATENT REEL: 013569 FRAME: 0712

Title of Invention:	SIGNAL DETECTION ANTENNA	
Signature of Inventor: Inventor's Name:	Raphael Joseph Welsh	
Residence:	327 Magothy Bridge Road (Ann Arundel County) Pasadena, Maryland 21122-4125	
Date:	11/26/02	
Date Declaration Executed:	11/26/02	

DAL01:708645.1

RECORDED: 12/09/2002

PATENT REEL: 013569 FRAME: 0713