ATTORNEY DOCKET OCCUPY	// ~~	,
ATTORNEY DOCKET: 064752.0341  FORM PTO 1595	1-24-2002	
		U.S. DEPARTMENT OF COMM
To the Honorable Commissioner of Pa  1. Name and Address of Conveying Party(ies) In		Patent and Trademark
1. Name and Address of Convenies B. 1	01962610	
" " " " " " " " " " " " " " " " " " "	I P &	original documents or copy thereof. of receiving Party(ies):
327 Magothy Bridge Bood	Name:	
Pasadena, Anne Arundel County, Maryland 2110	10	RAYTHEON COMPANY
Individual Citizenshim, Maria 10	4 2002 Street Address:	141 Spring Street
Individual Citizenship: United States of America	City:	Lexington
Additional name(s) of conveying party(ies) attached?  Yes X No  3. Nature of conveyors	OBMARKS	Lexington
3. Nature of conveyance:	State:	Massachusetts Zip: 02421
X Assignment Merger		
Security Agreement Change of Name		
	Additional name(s)	&
Execution Date: 01/09/02	Address(es) attached	Yes X No
4. Application number(s) or patent number(s):		
If this document is being filed together with a new application,	41	
A. Patent Application No.(s):	the execution date of the applica	tion is:
atent Application No.(s):	B. Patent No.(s):	
10/001,447 filed October 31, 2001		
1	Additional Num	bers Yes X No
<ol><li>Name and address of party to whom correspondence concerning document should be mailed to:</li></ol>	6. Total number of appli	cation and patents involved: One
Name: Harold E. Meier Internal Address: BAKER BOTTS I. I. B.	7. Total Fee (37C.F.R. 3	.41): \$40.00
Street Address: 2001 Ross Avenue Suite (00)	X Enclosed	
Dallas	Authorized	to be charged to deposit account
State: Texas Zip 75201-2980	8. Deposit Account Num	
	1	
	(Attach Duplicate Cop	y of this page if paying by deposit account)
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To the best of my knowledge and belief, the foregoing information document.	is true and correct and and	
	and correct and any attac	ched copy is a true copy of the original
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Douglas M. Kubehl	: 1 h	1-14-02
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**PATENT REEL: 012487 FRAME: 0036** 

## **ASSIGNMENT**

WHEREAS, I, the undersigned inventor, of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been filed 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, all regular utility applications, divisions, reissues, continuations, continuations-in-part and extensions thereof, and all patents which may be granted therefrom; and I hereby 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 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.

Title of Invention:	MAGNETIC LOOP ANTENNA	
Signature of Inventor:	Caphail Joseph Helih	
Inventor's Name:	Raphael Joseph Welsh	
Residence (City, County, State)	Pasadena, Anne Arundel County, Maryland	
Date:	01/09/02 (JAN 9, 2002	
Date Application Executed:	01/09/02 (JAn9, 2002	

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PATENT REEL: 012487 FRAME: 0037

**RECORDED: 01/14/2002**