AY02-04-Assignment Recordation Cover Sheet.wpd		Tittorney Bot	ket No.: RAY02
REC( 01	-08-2003	SHEET	
To the Honorable Commissioner of I	02331742	d original documents of	or copy thereof.
1. Name of conveying party(ies)	2. Name and address	of receiving party(ies)	# C
Norman A. Luque	Name: Ra	ytheon Company	# C
12-30-02	Internal Address:		7. 7.c.
12 30			<u>0</u>
Additional name(s) of conveying party(ies) attached? [] Yes [X] N	60		
3. Nature of conveyance:	Street Address: 14	1 Spring Street	
[X] Assignment [] Merger			
[ ] Security Agreement [ ] Change of Name	City: Lexington	State: MA	ZIP: 02173
Other			
Execution Date: December 24, 2002	Additional name(s) & add	ress(es) attached? [ ] Yes	[X] No
A. Patent Application No.(s) 70, 331812	B. Patent No.(s)	[x] No	
•	numbers attached? [ ] Yes	[x]No	ved: [1]
Additional of Name and address of party to whom correspondence concerning document should be mailed:	numbers attached? [ ] Yes  6. Total number of app	lications and patents invol	
Additional of the second secon	numbers attached? [ ] Yes  6. Total number of app  7. Total Fee (37 C.F.R	lications and patents invol	
Additional of the second secon	numbers attached? [ ] Yes  6. Total number of app  7. Total Fee (37 C.F.R  [ X ] Enclosed w	lications and patents invol	40.00
Additional of the Additional o	numbers attached? [ ] Yes  6. Total number of app  7. Total Fee (37 C.F.R  [ X ] Enclosed w  [ X ] Authorized overpayme	. 3.41)\$  with application filing fee to charge any deficiencies nt to deposit account	40.00
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Additional of the street Address:  Additional of the street Address of party to whom correspondence concerning document should be mailed:  Baying Esq.  CHAPIN & HUANG, Esq.  Street Address:  Westborough Office Park	numbers attached? [ ] Yes  6. Total number of app  7. Total Fee (37 C.F.R  [ X ] Enclosed w  [ X ] Authorized overpayme	dications and patents involutions. 3.41)	40.00 s or credit any
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: David E. Huang, Esq.  Internal Address:  CHAPIN & HUANG, L.L.C.  Street Address: Westborough Office Park  1700 West Park Drive	numbers attached? [ ] Yes  6. Total number of app  7. Total Fee (37 C.F.R  [ X ] Enclosed w  [ X ] Authorized overpayme  [ ] Authorized	dications and patents involutions. 3.41)	40.00
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: David E. Huang, Esq.  Internal Address:  CHAPIN & HUANG, L.L.C.  Street Address: Westborough Office Park  1700 West Park Drive	numbers attached? [ ] Yes  6. Total number of app  7. Total Fee (37 C.F.R  [ X ] Enclosed w  [ X ] Authorized overpayme  [ ] Authorized  8. Deposit account num	dications and patents involutions. 3.41)	40.00 s or credit any
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: David E. Huang, Esq.  Internal Address:  CHAPIN & HUANG, L.L.C.  Street Address: Westborough Office Park  1700 West Park Drive  City: Westborough State: MA ZIP: 01581	numbers attached? [ ] Yes  6. Total number of app  7. Total Fee (37 C.F.R  [ X ] Enclosed w  [ X ] Authorized overpayme  [ ] Authorized  8. Deposit account num	lications and patents involuding and patents involuding and patents involuding fee to charge any deficiencies and to deposit account to be charged to deposit an anber:	40.00 s or credit any
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5. Name and address of party to whom correspondence concerning document should be mailed:  Name: David E. Huang, Esq.  Internal Address:  CHAPIN & HUANG, L.L.C.  Street Address: Westborough Office Park  1700 West Park Drive  City: Westborough State: MA ZIP: 01581  DO  9. Statement and signature.  To the best of my knowledge and belief, the foregoing info document.	7. Total Fee (37 C.F.R  [X] Enclosed w  [X] Authorized overpayme  [] Authorized  8. Deposit account nur  (Attach duplicate	lications and patents involuding and patents involuding and patents involuding and application filing fee to charge any deficiencies into deposit account to be charged to deposit a mber:  50-0901  copy of this page if paying any attached copy is a true.	40.00  s or credit any ccount  by deposit account)  the copy of the original

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**PATENT** REEL: 013628 FRAME: 0478

Attorney Docket No.: RAY02-04
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## **ASSIGNMENT**

WHEREAS, I, Norman A. Luque have invented a certain improvement APPARATUS AND METHODS FOR SPLIT-FEED COUPLED-RING RESONATOR-PAIR ELLIPTIC-FUNCTION FILTERS described in an application for Letters Patent of the United States, the specification of which:

[X]	is being executed on even date herewith and is about to be filed in the United States Patent Office;
[]	was filed onas Application No;
[]	was patented under U.S. Patent Noon

WHEREAS, Raytheon Company (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 141 Spring Street, Lexington, Massachusetts 02173 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal

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representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor: Yorman G. Lugue 12-24-02

Norman A. Luque

State/Commonwealth
of NEW Hampshire
County of ROUSinghan

Then personally appeared before me the above-named Norman A. Luque and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this  $\alpha^{VV}$  day of <u>December</u>, 2002.

(SEAL) Notary Public My Commission expires \_\_ / \_\_ / \_\_\_

MY COMMISSION EXPIRES INTIL 7, 2004

PATENT
RECORDED: 12/30/2002 REEL: 013628 FRAME: 0480