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	Patent and Trademark Office
To the Honorable Commissioner of Patents 1. Name and Address of Conveying Party(ies):	O1116971 original documents or copy thereof. 2. Name also Acceeving Party(ies):
	Name: Raytheon Company
Thad J. Genrich 18805 East Napa Drive	Name. Raymon company
Aurora, Colorado 80013	Internal Address:
	390
Individual/Citizenship: <u>United States of America</u>	Street Address: 141 Spring Street
Additional name(s) of conveying party(ies) attached?	City: Lexington
YesX_No	State: MA Zip: 02/173
3. Nature of conveyance:	D. Lawrence Commentation
X Assignment Merger	a Delaware Corporation
Security Agreement Change of Name	
Other	
Execution Date: July 30, 1999	Additional name(s) & address(es) Additional name(s) & address(es) Yes X No
4. Application number(s) or patent number(s):	attacheu:
If this document is being filed together with a new application	on, the execution date of the application is: July 30, 1999
	09/369454
A. Patent Application No.(s)	
	ditional Numbers attached? Yes X No
.5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One
Name: Wei Wei Jeang, Esq.	7. Total Fee (37 CFR 3.41): \$40.00
Internal Address: BAKER & BOTTS, L.L.P.	X Enclosed
Street Address: 2001 Ross Avenue	Authorized to be charged to deposit account
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ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), 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 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 02173, desires to acquire my entire right, title and interest in and to the invention, and in and to 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 hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our 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.

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Title of Invention:

APPARATUS AND METHOD FOR PHASE AND FREQUENCY DIGITAL MODULATION

Signature of Inventor:

Inventor's Name:

Thad J. Gènrich

Residence

(City, County, State)

Aurora, Arapahoe, Colorado

Date:

Date Application Executed:

DAL01:441730.1 065597.0111