

06-22-2000

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**



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Document ID#

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**Conveyance Type**

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Month Day Year

Name (line 1)  05 17 2000

Name (line 2)

**Second Party**

Name (line 1)  05 17 2000

Name (line 2)

09503931

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**Mail documents to be recorded with required cover sheet(s) information to:**  
**Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231**

**REEL: 010862 FRAME: 0721**

**Correspondent Name and Address**

**Area Code and Telephone Number** 781-659-2288

**Name** Daly, Crowley & Mofford, LLP

**Address (line 1)** P.O. Box 5057

**Address (line 2)** Norwell MA 02061-2516

**Address (line 3)**

**Address (line 4)**

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

# 3

**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

09/503,931

**Patent Number(s)**

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# 1

**Fee Amount**

**Fee Amount for Properties Listed (37 CFR 3.41):** \$ 40.00

**Method of Payment:**  
**Deposit Account**

Enclosed ☒

Deposit Account ☐

(Enter for payment by deposit account or if additional fees can be charged to the account.)

**Deposit Account Number:**

# 500845

**Authorization to charge additional fees:**

Yes

☒

No

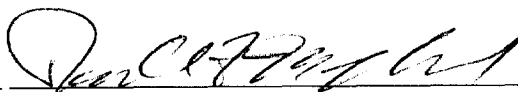
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**Statement and Signature**

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.*

Donald F. Mofford

**Name of Person Signing**



**Signature**

5-22-00

**Date**

## ASSIGNMENT

Whereas I, the undersigned, Lawrence A. Durfee and Wesley T. Dull, hereby have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled, MPRF INTERPULSE PHASE MODULATION FOR MAXIMIZING DOPPLER CLEAR SPACE, identified as Attorney Docket No. RTN-068AUS, which application was executed by us on May 17, 2000, filed on February 14, 2000 assigned Application No. 09/503,931. In the event that the execution date, filing date and/or Application No. are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request my attorneys at Daly, Crowley & Mofford, LLP, P.O. Box 5057, Norwell, MA 02061-2516, to insert above the execution date, filing date and/or Application No. of said application.

Whereas, Raytheon Company, a Massachusetts corporation having a place of business at 141 Spring Street, Lexington, Massachusetts 02421, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue, re-examination and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

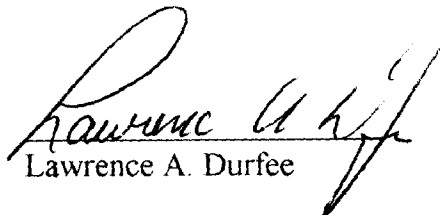
5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment as an instrument under seal on the dates indicated next to our names.

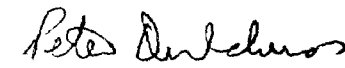
State or Commonwealth of Massachusetts

County Middlesex

Dated: 5/17/00

  
Lawrence A. Durfee

On this 17th day of May, 2000, before me appeared Lawrence A. Durfee, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

  
Notary Public Peter Dulchinos

My Commission Expires Nov. 9, 2001

[seal]

State or Commonwealth of Massachusetts

County Middlesex

Dated: May 17, 2000

Wesley T. Dull  
Wesley T. Dull

On this 17th day of May, 2000, before me appeared Wesley T. Dull, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

Peter Dulchinos  
Notary Public Peter Dulchinos  
My Commission Expires Nov. 9, 2003

[seal]

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