

04-30-1999



101024649

RECORDATION FORM COVER SHEET

APR 16

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

1. John W. Cassen
2. Stephanie A. Parks
3. Edward L. Rich, III
4. Gary N. Bonadies
5. Gary L. Ferrell

Additional names of conveying party(ies) attached? Yes ☒ No ☐

2. Name and address of receiving party(ies):

Name: Northrop Grumman Corporation

Address: Law Department, IPS, MS A440
P.O. Box 17319
Baltimore, MD 21203-7319

Additional name(s) & addresses are attached? Yes ☐ No ☒

3. Nature of Conveyance:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other | |

Execution Date(s): (1)11/2/98, (2)10/23/98, (3)11/9/98
(4) 11/2/98, (5) 11/16/98

4. Application number(s) or patent numbers(s):

S/N: 09/158,829

This Assignment is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes ☐ No ☒

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Terry J. Anderson

Address: Northrop Grumman Corporation
Law Department, IPS, MS A440
P.O. Box 17319
Baltimore, MD 21203-7319

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

- ☐ Enclosed
- ☒ Authorized to be charged to deposit account

8. Deposit Account Number: 14-1325

DO NOT USE THIS SPACE

9. 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.

Signature

Date

Terry J. Anderson

Name of Person Signing

Total number of pages including cover sheet, attachments, and document 2

OMB No. 0651-0011 (Exp. 4/94)

N.G. Case BD-98-012

PATENT
REEL: 9909 FRAME: 0525

ADDITIONAL NAMES OF CONVEYING PARTIES

N.G. Case BD-98-012

S/N No. 09/158,829

NAME***DATE***

6.	John S. Fisher	11/2/98
7.	John W. Giprich	11/16/98
8.	John D. Gornto	11/16/98
9.	Daniel J. Heffernan	11/2/98
10.	David A. Herlihy	11/2/98
11.	Andrew J. Piloto	10/24/98
12.	Patrick K. Richard	11/2/98
13.	David W. Strack	11/6/98
14.	Scott K. Suko	11/5/98

12-02-1998



I, **100909724** being deposited
with the United States Patent Office in an envelope
addressed to the Commissioner of Patents and Trademarks, Washington, DC 20231

Joyce Vaughn
Joyce Vaughn

11/24/98
DATE

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner: : Attny Docket No: BD-98-012
:
Applicant: CASSEN, J., et. al. : Group Art Unit 3642
:
Serial No: 09/158,829 : Filed: 09/23/98
:
Title: **A DUAL CHANNEL MICROWAVE TRANSMIT/RECEIVE MODULE
FOR AN ACTIVE APERTURE OF A RADAR SYSTEM**

MRD 11-23-98

- - -o0o- - -

Box Assignment
Hon. Commissioner of Patents and Trademarks
Washington, DC 20231

Sir:

RECORDATION OF ASSIGNMENT

Enclosed please find an executed Assignment, along with a Recordation Form Cover Sheet, for recording at the United States Patent and Trademark Office. Please charge the \$40.00 recordation fee to Deposit Account No. 14-1325.

The Commissioner is hereby authorized to charge any additional fees included in 37 CFR 1.16 and 1.17 which may be required to keep the application pending, or credit any overpayment to Account No. 14-1325. No authorization is given to charge any patent issue fee included in 37 CFR 1.18.

Respectfully submitted,

Walter G. Sutcliff

Walter G. Sutcliff
Attorney for Applicants
Reg. Number: 24,914
Telephone: 410-765-4487
Facsimile: 410-765-6916

PATENT
REEL: 9909 FRAME: 0527

ASSIGNMENT JOINT

In accordance with existing Employee Intellectual property Agreement(s) and/or other undertaking(s) entered into for good and valuable consideration, receipt of which is hereby acknowledged, we, John W. CASSEN, Stephanie A. PARKS, Edward L. RICH, III, Gary N. BONADIES, Gary L. FERRELL, John S. FISHER, John W. GIPPRICH, John D. GORNTON, Daniel J. HEFFERNAN, David A. HERLIHY, Andrew J. PILOTO, Patrick K. RICHARD, David N. STRACK, and Scott K. SUKO, of Sykesville, Maryland, Helston, Cornwall, United Kingdom, Arnold, Maryland, Laurel, Maryland, Pasadena, Maryland, Ellicott City, Maryland, Millersville, Maryland, Columbia, Maryland, ~~Severna Park, Maryland~~, Ellicott City, Maryland, Columbia, Maryland, Baltimore, Maryland, Baltimore, Maryland, and Elkridge, Maryland, respectively, hereby sell and assign to **NORTHROP GRUMMAN CORPORATION**, a Corporation organized and existing under the laws of Delaware, U.S.A., having its principal place of business at 1840 Century Park East, Los Angeles, California 90067-2199, U.S.A., its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention in **A DUAL CHANNEL MICROWAVE TRANSMIT/RECEIVE MODULE FOR AN ACTIVE APERTURE OF A RADAR SYSTEM**, invented by us and the application for United States patent therefor, executed on the same day as the assignment is executed and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents and Utility Model Registrations in countries foreign to the United States, and in and to any Letters Patent or Utility Model Registration which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent or Utility Model Registration to the said **NORTHROP GRUMMAN CORPORATION**, its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said Corporation, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said **NORTHROP GRUMMAN CORPORATION**, its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, we will, upon request, sign all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said Corporation, its successors, assigns, nominees or other legal representatives, either in its or their own name, to apply for, obtain and enforce proper patent and/or Utility Model protection for said invention in all countries, all without further consideration but at the expense of said **NORTHROP GRUMMAN CORPORATION**, its successors, assigns, nominees or other legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 2 day of November, 1998.


John W. CASSEN

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 23 day of October, 1998.


Stephanie A. PARKS

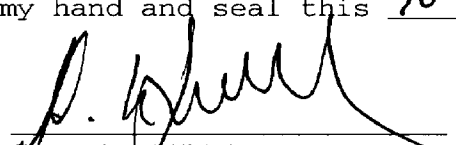
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 9th day
of November, 1998.


Edward L. RICH, III

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 2nd day
of November, 1998.


Gary N. BONADIES

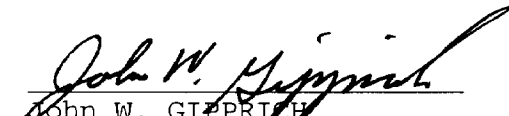
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 16th day
of November, 1998.


Gary L. FERRELL

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 2nd day
of November, 1998.


John S. FISHER

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 16 day
of November, 1998.


John W. GIEPRICH

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 16 day
of November, 1998.


John D. GORNTIO

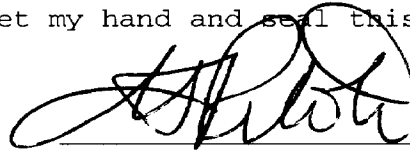
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 2nd day
of November, 1998.


Daniel J. HEFFERNAN

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 2 day
of NOVEMBER, 1998.


David A. HERLIHY

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this _____ day
of _____, 1998.



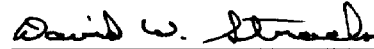
Andrew J. PILOTO

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 2 day
of NOVEMBER, 1998.



Patrick K. RICHARD

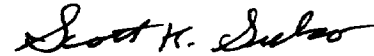
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 6th day
of November, 1998.



David J. STRACK

D.S.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 5th day
of November, 1998.



Scott K. SUKO

April 9, 1999

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:	:	Attorney Docket No:	BD-98-012
	:		
Applicant:	CASSEN, J., et. al.	: Group Art Unit	3642
		:	
Serial No:	09/158,829	: Filed:	09/23/98
		:	
Title:	A DUAL CHANNEL MICROWAVE TRANSMIT/RECEIVE MODULE FOR AN ACTIVE APERTURE OF A RADAR SYSTEM		

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USPTO
Assignment Division
Box Assignment, CG-4
1213 Jefferson Davis Highway
Suite 320
Washington, DC 20231

Sir:

RESPONSE TO NON-RECORDATION NOTICE

Enclosed please find a response to the attached Non-Recordation Notice dated March 17, 1999. A complete cover sheet is attached as requested.

The Commissioner is hereby authorized to charge any additional fees included in 37 CFR 1.16 and 1.17 which may be required to keep the application pending, or credit any overpayment to Account No. 14-1325. No authorization is given to charge any patent issue fee included in 37 CFR 1.18.

Respectfully submitted,

Terry J. Anderson
Attorney for Applicants
Reg. Number: 24,271

Recycled Paper

PATENT
REEL: 9909 FRAME: 0531



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MARCH 17, 1999

PTAS

BIRCH STEWART KOLASCH & BIRCH
WALTER G. SUTCLIFF
P O BOX 747
FALLS CHURCH, VA 22040-0747



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POCKETED
Response
4-16-99

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF NON-RECORDATION OF DOCUMENT

DOCUMENT ID NO.: 100909724

THE ENCLOSED DOCUMENT HAS BEEN EXAMINED AND FOUND NON-RECORDABLE BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. THE REASON(S) FOR NON-RECORDATION ARE STATED BELOW. DOCUMENTS BEING RESUBMITTED FOR RECORDATION MUST BE ACCOMPANIED BY A NEW COVER SHEET REFLECTING THE CORRECT INFORMATION TO BE RECORDED AND THE DOCUMENT ID NUMBER REFERENCED ABOVE.

THE ORIGINAL DATE OF FILING OF THIS ASSIGNMENT DOCUMENT WILL BE MAINTAINED IF RESUBMITTED WITH THE APPROPRIATE CORRECTION(S) WITHIN 30 DAYS FROM THE DATE OF THIS NOTICE AS OUTLINED UNDER 37 CFR 3.51. THE RESUBMITTED DOCUMENT MUST INCLUDE A STAMP WITH THE OFFICIAL DATE OF RECEIPT UNDER 37 CFR 3. APPLICANTS MAY USE THE CERTIFIED PROCEDURES UNDER 37 CFR 1.8 OR 1.10 FOR RESUBMISSION OF THE RETURNED PAPERS, IF THEY DESIRE TO HAVE THE BENEFIT OF THE DATE OF DEPOSIT IN THE UNITED STATES POSTAL SERVICE.

SEND DOCUMENTS TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231. IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

1. THE DOCUMENT SUBMITTED FOR RECORDING IS NOT ACCEPTABLE. TO RECORD A DOCUMENT IN THE ASSIGNMENT DIVISION, A COMPLETE COVER SHEET MUST ACCOMPANY THE DOCUMENT OR A COVER SHEET OUTLINING THE REQUIREMENTS FOR RECORDING AS SET FORTH IN TITLE 37 CFR 3.11 MUST BE PRESENT.

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECORDED: 04/16/1999

PATENT
REEL: 9909 FRAME: 0532