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U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



REEL

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PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Jeffrey Poor
Michael Mos
Dale Burton
Robert Mitchell
Christopher Duffey

Execution Date(s) 2/7/05, 2/7/05, 2/16/05, 3/2/05, 2/7/05

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Northrop Grumman Corporation

Internal Address: _____

Street Address: 1840 Century Park East

City: Los Angeles

State: CA

Country: U.S. Zip: 90067

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document 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 to whom correspondence concerning document should be mailed:

Name: Alan G. Towner

Internal Address: Pietragallo, Bosick & Gordon

Street Address: One Oxford Centre, 38th Floor,
301 Grant Street

City: Pittsburgh

State: PA Zip: 15219

Phone Number: 412-263-4340

Fax Number: 412-261-0915

Email Address: AGT@PBandG.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 500859

Authorized User Name Alan G. Towner

9. Signature:

Signature

03/08/2005

Date

Alan G. Towner

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

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PATENT
REEL: 016368 FRAME: 0573

ASSIGNMENT

WHEREAS, WE, **JEFFREY POOR**, residing at 938 Jamestown Drive, Rockledge, FL 32955, a citizen of the United States of America; **MICHAEL MOS**, residing at 3970 Sparrow Hawk Road, Melbourne, FL 32934, a citizen of the United States of America; **DALE BURTON**, residing at 3218 Windsong Court, Melbourne, FL 32934, a citizen of the United States of America; **ROBERT MITCHELL**, residing at 2736 Via Chinnaros, Alpine, CA 91901, a citizen of the United States of America; and **CHRISTOPHER DUFFEY**, residing at 4270 Grovewood Lane, Titusville, FL 32780, a citizen of the United States of America, have invented certain improvements in: **GEOGRAPHIC IMAGE STORAGE, TRANSMISSION AND DISPLAY SYSTEM** for which we have this day executed an application for Letters Patent; and

WHEREAS, **NORTHROP GRUMMAN CORPORATION** (hereinafter the "Assignee"), a corporation organized and existing under the laws of the State of Delaware, having its principal place of business at 1840 Century Park East, Los Angeles, CA 90067, is desirous of acquiring an interest therein;

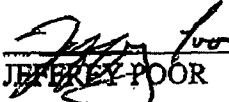
NOW, THEREFORE, in consideration of continued employment and/or other undertakings and/or other good and valuable consideration paid to us by said Assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said Assignee the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof including all priority rights associated therewith for every country; said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said Assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to

us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee.

Executed on this 7th day of February, 2005



JEFFREY POOR


State of Florida :
County of Brevard : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **JEFFREY POOR** who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 7th day of February, 2005.



Teresa G. Rauhut
MY COMMISSION # DD056911 EXPIRES
October 27, 2005
BONDED THRU TROY FAIR INSURANCE, INC.
(NOTARIAL SEAL)



Notary Public


Executed on this 7th day of February, 2005

Michael Mos
MICHAEL MOS

State of FLORIDA :
County of BREVARD : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **MICHAEL MOS** who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 7th day of February, 2005.

 Teresa G. Rauhut
MY COMMISSION # DD856911 EXPIRES
October 27, 2005
BONDED THRU TROY FAIN INSURANCE, INC
(NOTARIAL SEAL)

Teresa G. Rauhut
Notary Public

Executed on this _____ day of _____, 2005

DALE BURTON

State of _____ :
County of _____ : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **DALE BURTON** who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this _____ day of _____, 2005.

(NOTARIAL SEAL)

Notary Public

Executed on this 2ND day of MARCH, 2005

Robert Mitchell
ROBERT MITCHELL

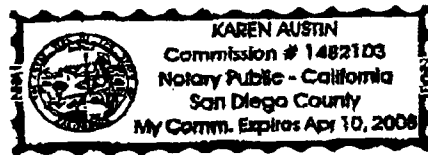
State of California :
County of San Diego : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **ROBERT MITCHELL** who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 2nd day of March, 2005.

Karen Austin
Notary Public

(NOTARIAL SEAL)



Executed on this _____ day of _____, 2005

CHRISTOPHER DUFFEY

State of _____ :
County of _____ : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **CHRISTOPHER DUFFEY** who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this _____ day of _____, 2005.

Notary Public

(NOTARIAL SEAL)

Executed on this _____ day of _____, 2005

ROBERT MITCHELL

State of _____ :
: ss.
County of _____ :

Before me, a Notary Public in and for the said County and State, personally appeared **ROBERT MITCHELL** who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this _____ day of _____, 2005.

Notary Public

(NOTARIAL SEAL)

Executed on this 7th day of February, 2005

Christopher Duffey
CHRISTOPHER DUFFEY

State of FLORIDA :
: ss.
County of BREVARD :

Before me, a Notary Public in and for the said County and State, personally appeared **CHRISTOPHER DUFFEY** who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 7th day of February, 2005.

Teresa G. Rauhut
Notary Public



Teresa G. Rauhut
MY COMMISSION # DD056911 EXPIRES
October 27, 2005
BONDER TRUST PROFFAIR INSURANCE, INC.

(NOTARIAL SEAL)