

4/19/05

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

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11/109442



RECO.

PATENT 102991499

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

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

Dale Edward Burton
Michael Bartlett Addison
Christopher Sean Duffey
Paul Arthur Henkel

Execution Date(s) 3/29/05, 3/15/05, 3/15/05, 3/14/05

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: Robert P. Lenart

Internal Address: Pietragallo, Bosick & Gordon

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

City: Pittsburgh

State: PA Zip: 15219

Phone Number: 412-263-4399

Fax Number: 412-261-0915

Email Address: RPL@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 Robert P. Lenart

9. Signature:

Robert P. Lenart

Signature

04/19/2005

Date

Robert P. Lenart

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

04/28/2005 ECDPER 00000064 500859 11109442

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PATENT
REEL: 016496 FRAME: 0001

ASSIGNMENT

WHEREAS, WE, **DALE EDWARD BURTON**, residing at 3218 Windsong Court, Melbourne, FL 32934, a citizen of the United States of America, **MICHAEL BARTLETT ADDISON**, residing at 4305 Ligustrum Drive, Melbourne, FL 32034, a citizen of the United States of America, **CHRISTOPHER SEAN DUFFEY**, residing at 4270 Grovewood Lane, Titusville, FL 32780, a citizen of the United States of America, and **PAUL ARTHUR HENKEL**, residing at 3077 Rio Bonita Street, Indialantic, FL 32903, a citizen of the United States of America, have invented certain improvements in: **JOINT STARS EMBEDDED DATA LINK**, 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 29 day of March, 2005

Dale E. Burton
DALE EDWARD BURTON

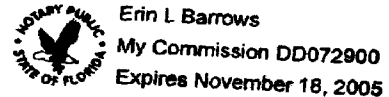
State of Florida :
County of Brevard : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **DALE EDWARD 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 29 day of March, 2005.

Erin L. Barrows
Notary Public

(NOTARIAL SEAL)



Executed on this 15 day of March, 2005

Michael B. Addison
MICHAEL BARTLETT ADDISON

State of Florida :
County of Brevard : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **MICHAEL BARTLETT ADDISON** 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 15 day of March, 2005.

Erin L. Barrows
Notary Public

(NOTARIAL SEAL) Erin L. Barrows
My Commission DD072900
Expires November 18, 2005

Executed on this 15 day of March, 2005


CHRISTOPHER SEAN DUFFEY

State of Florida :
County of Brevard : SS.

Before me, a Notary Public in and for the said County and State, personally appeared **CHRISTOPHER SEAN 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 15 day of March, 2005.


Notary Public

(NOTARIAL SEAL)



Erin L. Barrows
My Commission DD072900
Expires November 18, 2005

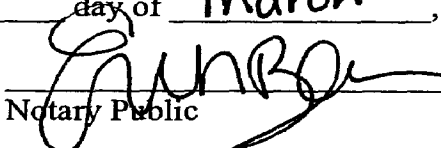
Executed on this 14 day of March, 2005


PAUL ARTHUR HENKEL

State of Florida :
County of Brevard : SS.

Before me, a Notary Public in and for the said County and State, personally appeared **PAUL ARTHUR HENKEL** 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 14 day of March, 2005.


Notary Public

(NOTARIAL SEAL)



Erin L. Barrows
My Commission DD072900
Expires November 18, 2005