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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)

Michael Akarmann

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/Execution Date(s):

Execution Date(s) 10/27/05

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

4. Application or patent number(s):

A. Patent Application No.(s)

This document is being filed together with a new application.

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 LLP

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: IPGROUP@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

10/31/2005

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 (571) 273-0140, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

11/04/2005 ECDOPER 00000135 500859 11263461

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PATENT

REEL: 017171 FRAME: 0233

## ASSIGNMENT

WHEREAS, I, **MICHAEL AKARMANN**, residing at 17066 Goldentop Road, San Diego, CA 92130, a citizen of the United States of America, have invented certain improvements in: **OPEN SYSTEM ARCHITECTURE FOR SURVEILLANCE SYSTEMS WITH EFFICIENT BANDWIDTH MANAGEMENT**, for which I have 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 me by said Assignee, receipt whereof I hereby acknowledge, I 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 me had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. I covenant that I am the lawful owner 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 I have the full right to make this assignment.

And for the consideration aforesaid, I agree that I will communicate to said Assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request, but without expense to me, 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 my heirs, executors,

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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 27 day of October, 2005

Michael Akarmann  
MICHAEL AKARMANN

State of California :  
: ss.

County of San Diego :

Before me, a Notary Public in and for the said County and State, personally appeared  
**MICHAEL AKARMANN** 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 27 day of October, 2005.

Monica Marie Stout  
Notary Public

(NOTARIAL SEAL)

