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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)/Execution Date(s):
James Glen Gregoire

Execution Date(s) 11/4/2004
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: US 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, Esquire
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: 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 Alan G. Towner

9. Signature: Alan G. Towner November 15, 2004
Signature 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

11/24/2004 GTGN11 00000104 500859 10989169

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PATENT
REEL: 016008 FRAME: 0979

ASSIGNMENT

WHEREAS, I, **JAMES GLEN GREGOIRE**, residing at 10020 Rustic Ridge Ct., Orlando, FL 32832, a citizen of the United States of America, have invented certain improvements in **LASER BEAM DUMP** for which I 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 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,

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 4th day of November, 2004


JAMES GLEN GREGOIRE

State of FLORIDA :
County of BREVARD : ss.

Before me, a Notary Public in and for the said County and State, personally appeared
JAMES GLEN GREGOIRE 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 4th day of NOVEMBER, 2004.


Notary Public

(NOTARIAL SEAL)

