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



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VER SHEET
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Attorney docket: 20-055 /
001827-804/US/NPV

To the Director of the

and the attached documents or the new address(es) below.

1. Name of conveying party(ies)

(1) Robert Rex Rice

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) (1): 09/10/2007

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

2. Name and address of receiving party(ies)

Name: NORTHROP GRUMMAN SPACE AND
MISSION SYSTEMS CORP.

Street Address: 1840 CENTURY PARK EAST

City: LOS ANGELES

State: CALIFORNIA

Country: USA Zip: 90067

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

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: DAVID G. POSZ

POSZ LAW GROUP, PLC

Street Address: 12040 SOUTH LAKES DRIVE

SUITE 101

City: RESTON

State: VIRGINIA Zip: 20191

Phone Number: (703) 707-9110

Fax Number: (703) 707-9112

Email Address: DPOSZ@POSZLAW.COM

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- ☐ 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 50-1147

Authorized User Name DAVID G. POSZ

9. Signature:

Kerry S. Culpepper
Signature

September 13, 2007
Date

KERRY S. CULPEPPER (REG. NO. 45,672)
Name of Person Signing

Total number of pages including cover
sheet, 001827-804/US/NPV, 11898515

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04 FC:8021

ASSIGNMENT
(Single Inventor)

WHEREAS, I, Robert Rex Rice, hereinafter referred to as Assignor
have invented certain new and useful improvements in THULIUM DOPED FIBER
CONFIGURATION FOR ENHANCED HIGH POWER OPERATION
described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, Northrop Grumman Space and Mission Systems Corp., a Ohio corporation, having
its principal place of business at

1840 Century Park East
Los Angeles, CA 90067
United States of America,

hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and
under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman Space and
Mission Systems Corp., and for other good and valuable consideration, the receipt and sufficiency of which
is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does
hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns,
Assignor's entire right, title and interest in, to and under said improvements, and said application and all
divisions, renewals, continuations, and continuations-in-part thereof, and all United States Letters patent
that may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent
that may hereafter be filed for said improvements in any country or countries foreign to the United States,
including the full right to claim for any such application the priority benefits of the International
Convention for the Protection of Industrial Property and other priority-conferring treaties, and all Letters
Patent that may be granted for said improvements in any country or countries foreign to the United States
and all extensions, divisions, continuations, continuations-in-part, renewals and reissues thereof; and
Assignor hereby authorizes and requests 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 all Letters Patent for said improvements to said Assignee, its successors,
legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified,
Assignor was under an obligation to assign to Assignee, Assignor's entire right, title and interest in, to and
under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein assigned, and
that Assignor has not executed, and will not execute, any agreement in conflict herewith and that Assignee,
Northrop Grumman Space and Mission Systems Corp., its successors, assigns and other legal
representatives shall have the right to hold and enjoy for its and their own use and benefit, to the end of the
term or terms for which such Letters Patent shall or may be granted, reissued or extended as fully and
completely as the same right could have been held and enjoyed by Assignor had this Assignment not been
made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, legal
representatives and assigns, any and all facts known to Assignor respecting said improvements; to promptly
provide Assignee with all documents relating to said improvements, said invention, and said Letters Patent
as may be known or accessible to Assignor; to testify as to the same in any interference or litigation or
other legal proceedings related thereto; to sign all lawful papers, execute all extensions, continuations,
continuations-in-part, divisional and reissue applications; and to make all rightful oaths or declarations and
generally do everything possible to aid Assignee, its successors, legal representatives and assigns in
obtaining and enforcing all the rights herein conveyed for said improvements in all countries without
further compensation, but at the expense of Assignee, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this

10th day of September, 2007, and has executed the referenced patent application on the
10th day of September, 2007.

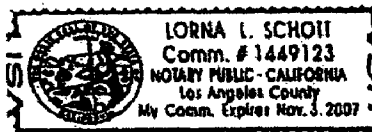
[Signature]
Assignor's Signature

STATE OF California)
) ss
COUNTY OF Ventura)

On September 10, 2007 before me,
Lorna L. Schott, Notary Public personally appeared
Robert R. Rice, personally known to me ~~or~~
~~proved to me on the basis of satisfactory evidence~~ to be the person(s) whose name(s) is/are subscribed to
this instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized
capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument to be the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

[Signature]
Notary's Signature



(Seal)