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

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Robert R. Rice  
Michael G. Wickham  
Eric C. T. Cheung

1-20-04

## 2. Name and address of receiving party(ies)

Name: Northrop Grumman Corporation

Internal Address: \_\_\_\_\_

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

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: January 7, 2004

Street Address: 1840 Century Park East

City: Los Angeles State: CA Zip: 90067-2199

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

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 01/07/2004

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: PATENT COUNSEL

Internal Address: Northrop Grumman Space &amp;

Mission Systems Corp.

Space Technology

Street Address: One Space Park, Bldg. E1/2041

City: Redondo Beach State: CA Zip: 90278

## 6. Total number of applications and patents involved: 1

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

- ☐ Enclosed  
☒ Authorized to be charged to deposit account

## 8. Deposit account number:

14-1325

(Attach duplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Connie M. Thousand, Reg. No. 43,191

Name of Person Signing

Signature

01/19/2004

Date

Total number of pages including cover sheet, attachments, and documents: 3

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PATENT

REEL: 014922 FRAME: 0352

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## ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Robert R. Rice, Michael G. Wickham, Eric C. T. Cheung, Hiroshi (NMI) Komine, and Joshua E. Rothenberg respectively, of Simi Valley, California, Rancho Palos Verdes, California, Torrance, Torrance, California, and Los Angeles, California, do hereby sell and assign to Northrop Grumman Corporation, 1840 Century Park East, Los Angeles, California 90067-2199, a Delaware corporation, its successors and assigns, the entire right, title and interest in and to the improvements in SCALABLE WAVELENGTH SHIFTED LASER SOURCE AND METHOD which has been invented by us, as described in the application for United States Patent which we executed respectively, on January 7, 2004, January 8, 2004, January 8, 2004, January 8, 2004, and January 8, 2004, and any and all applications for patent and patents therefor in any and all countries, including all divisions, reissues, continuations, and extensions thereof, and the right to claim the priority date of the first filed application in the United States, and authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said Northrop Grumman Corporation, or its successors or assigns, and agree that on request and without further consideration, but at the expense of Northrop Grumman Corporation, we will communicate to Northrop Grumman Corporation or its representatives or nominees any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and generally do everything possible to aid Northrop Grumman Corporation, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

January 7, 2004

Inventor:

Robert R. Rice  
ROBERT R. RICEJanuary 8, 2004

Inventor:

Michael G. Wickham  
MICHAEL G. WICKHAMJanuary 8, 2004

Inventor:

Eric C. T. Cheung  
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Inventor:

Hiroshi (NMI) Komine  
HIROSHI (NMI) KOMINEJanuary 8, 2004

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PATENT

RECORDED: 01/20/2004

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