

OMB No. 0651-0027 (exp. 6/30/2005) Tab settings

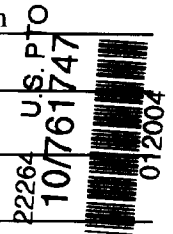
102657369

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

1. Name of conveying party(ies): Joshua E. Rothenberg Eric C.T. Cheung Hiroshi Komine Additional name(s) of conveying party(ies) attached? [X] Yes [] No

1-20-04

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 Zip: 9006-2199 Additional name(s) & address(es) attached? [] Yes [X] No



3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: December 9, 2003

4. Application number(s) or patent number(s): 10761747 If this document is being filed together with a new application, the execution date of the application is: 12/09/2003 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: PATENT COUNSEL Internal Address: Northrop Grumman Space & 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 [X] Authorized to be charged to deposit account 8. Deposit account number: 14-1325 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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 Date January 19, 2004 Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to: Filed together with a new patent application to: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Not filed with new patent application to: Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Vertical stamp: 01/25/2004 10:41:32 AM 10761747 40.00 MF 01 FC:6021

ATTACHMENT FOR RECORDATION FORM COVER SHEET

PATENTS ONLY (Form PTO-1595)

1. Name of conveying party(ies):

Robert R. Rice

Michael G. Wickham

Additional name(s) of conveying party(ies) attached?

Yes No

2. Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

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: 12/09/03

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

Yes No

ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Joshua E. Rothenberg, Eric C. T. Cheung, Hiroshi (NMI) Komine, Robert R. Rice, and Michael G. Wickham respectively, of Los Angeles, California, Torrance, California, Torrance, Simi Valley, California, and Rancho Palos Verdes, 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 HARMONIC LASER SOURCE AND METHOD** which has been invented by us, as described in the application for United States Patent which we executed respectively, on Dec. 9, 2003, Dec. 9, 2003, Dec 9, 2003, Dec 9, 2003, and Dec 10, 2003, 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.

December 9, 2003

Inventor: Joshua E. Rothenberg

December 9, 2003

Inventor: Eric Cheung

December 9, 2003

Inventor: Hiroshi Komine

December 9, 2003

Inventor: Robert R. Rice

December 10, 2003

Inventor: Michael G. Wickham