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FORM PTO-1595

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OMB No. 0651-0011 (exp. 4/94)

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U.S. Department of Commerce
Patent And Trademark Office

1. Name of conveying party(ies):

Daniel F. Hall executed 07/23/03
 Jason K. Miura executed 07/23/03
 James M. Zamel executed 07/24/03

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

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: see above

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

Name: Northrop Grumman CorporationInternal Address: 1840 Century Park EastStreet Address: 1840 Century Park EastCity: Los Angeles State: CA Country: U.S.A.Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is: July 24, 2003

A. Patent Application No.(s)

B. Patent No.(s)

101622291Additional numbers attached? ☐ Yes ☒ No

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

Name: _____

Internal Address: _____

JENKENS & GILCHRISTStreet Address: 225 West Washington, Suite 2600City: Chicago State: IL Zip: 60606-34186. Total number of applications and patents involved: 17. Total fee (37 C.F.R. 3.41)----- \$ 40.00☒ Enclosed☒ Authorized to be charged to deposit account if payment is inadequate.

8. Deposit account number:

10-0447 (47080-00047USPT)

(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.

Zachary J. Smolinski
 Name of Person Signing

Zachary J. Smolinski
 Signature

July 24, 2003
 Date

Total number of pages including cover sheet, attachments and document: 5

08/11/2003 6TON11 00000113 10626291

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Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services
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 P.O. Box 1450
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CHICAGO 261798v1 47080-00047USPT

PATENT
REEL: 014358 FRAME: 0286

ASSIGNMENT

WHEREAS, We, Daniel F. Hall, Jason K. Miura, and James M. Zamel have invented certain new and useful improvements in the following: **CAST LASER OPTICAL BENCH** for which we have made application for United States Letters Patent; and,

WHEREAS, Northrop Grumman Corporation, a corporation organized and existing under the laws of Delaware, having its principal place of business at 1840 Century Park East, Los Angeles, California 90067 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives the entire right, title and interest in and to said invention and in and to said applications and all patents which may be granted therefore, and all provisionals, divisions, reissues, substitutions, continuations, continuation-in-part and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

We further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

We further authorize and direct our attorneys to insert below* the serial number and filing date of said application now identified as Case Docket No. 47080-00047USPT as soon as the same shall have been made known to them by the United States Patent Office.

*Serial Number:

Filing Date:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 23 day of

JULY

, 2003.

Daniel F. Hall

Name: Daniel F. Hall
Address: 19917 Mansel Ave.
Torrance, CA 90503

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 23 day of

July

, 2003.

Jason K. Miura

Name: Jason K. Miura
Address: 25840 Viana Avenue #C
Lomita, CA 90717