

8-11-03

08-19-2003

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings



102528501

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

PTO 10/638180

10/638180

08/11/03

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

1. Name of conveying party(ies):

PAUL I BUNYK

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 _____

Street Address: _____

1840 Century Park East

City: Los Angeles

State: CA

Zip: 90067

Execution Date: JULY 17, 2003

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: 7/17/03

A. Patent Application No.(s)

10,638,180

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: RONALD M. GOLDMAN

Internal Address: _____

Roth & Goldman

00000025 10638180

Street Address: _____

21535 Hawthorne Blvd.- Suite 500

City: TORRANCE

State: CA

Zip: 90503

6. Total number of applications and patents involved: ONE

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

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number: _____

(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.

RONALD M. GOLDMAN

Name of Person Signing

Ronald M. Goldman

Signature

Aug 8, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

11269

PATENT
REEL: 014387 FRAME: 0359

ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, I, Paul I Bunyk of 420 Avenue G Redondo Beach, California 90277, 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 AN RSFO BATCHER-BANYAN SWITCHING NETWORK, which I have invented, as described in the application for United States Patent, which I executed on July 17 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 I 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, I will communicate to Northrop Grumman Corporation or its representatives or nominees any facts known to me 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.

Date: July 17, 2003

Inventor: Paul I. Bunyk
Paul I Bunyk

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