

11-20-2003

Form PTO-1595

(Rev. 10/02)

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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):

11.13.03
Barry Ross Allen
Daniel Kwok-hung Ko
David Joseph Brunone

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 EastCity: Los Angeles State: CA Zip: 90067-2199Execution Date: November 6 & 11, 2003Additional 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: sameA. Patent Application No.(s) 10705870

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: William A. Blake

Internal Address: _____

Street Address: Jones, Tullar & Cooper, PCP.O. Box 2266 Eads StationCity: Arlington State: VA Zip: 222026. Total number of applications and patents involved: 17. 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.*William A. Blake

Name of Person Signing

William A. Blake
Signature11/13/2003
DateTotal number of pages including cover sheet, attachments, and documents: 5Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231PATENT
REEL: 014702 FRAME: 0079

For: U.S. Rights and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS:

Barry Ross Allen
9 Via Sevilla
Rolling Hills Estates, CA 90274

Nationality: US

Daniel Kwok-hung Ko
1028 Greenfield Ave.
Arcadia, CA 91006

Nationality: US

David Joseph Brunone
27419 Fawnskin Drive
Rancho Palos Verdes, CA 90275

Nationality: US

hereby sell, assign and transfer to

ASSIGNEE:

Northrop Grumman Corporation
1840 Century Park East
Los Angeles, CA 90067-2199
Nationality: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

SUSPENDED SUBSTRATE LOW LOSS COUPLER

and which is found in (37 C.F.R. § 3.21) U.S. patent application executed on even date herewith and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: November 11, 2003



Signature of Barry Ross Allen

Date: _____

Signature of Daniel Kwok-hung Ko

Date: November 11, 2003



Signature of David Joseph Brunone

For: U.S. Rights and Foreign Rights
For: U.S. Application
By: Inventors

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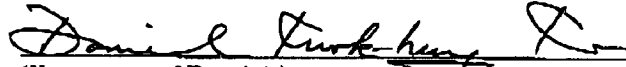
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Date: _____

Signature of Barry Ross Allen

Date: Nov 6th, 2003


Signature of Daniel Kwok-hung

Date: _____

Signature of David Joseph Brunone