

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

Form PTO-1595 (Rev. 06/04)

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office. Please record the attached documents or the address(es) below..

1. Name of conveying party(ies)/Execution Date(s):
(1) Nathan BLUZER
(2) Silai V. KRISHNASWAMY
(3) Philip C. SMITH

Execution Date(s): January 16, 2009
Additional name(s) of conveying party(ies) attached?
attached? Yes No

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

NAME: Northrop Grumman Systems Corporation

ADDRESS: 1840 Century Park East
Los Angeles, CA 90067-2199

Additional name(s) & addresses(es) attached?
 Yes No

3. Name of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other

4. Application number(s) or patent number(s): This document is being filed together with a new application
A. Patent Application No.(s)
12/365,284
B. Patent No.(s)

Additional numbers attached? Yes No

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

Name:
Address: Rothwell, Figg, Ernst & Manbeck
Suite 800
Street Address: 1425 K St., N.W.
City: Washington,
State: D.C. Zip: 20005
Telephone No.: 202/783-6040
Facsimile No.: 202/783-6031
Email Address:
Attorney Docket No. : 2662-257


6. Total number of applications
and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40
 Enclosed
 Authorized to be charged to deposit account
 None required (government interest not affecting title)

8. Deposit account number: 02-2135
Authorized User Name Jason M. Shapiro

DO NOT USE THIS SPACE

9. Signature.


Signature

2/3/09
Date

Jason M. Shapiro, Reg. No. 35,354
Name of Person Signing

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

CH \$40.00 022135 12365284

ASSIGNMENT

WHEREAS, we Nathan BLUZER, Silaj V. KRISHNASWAMY and Philip C. SMITH, hereinafter referred to as Assignor have invented certain new and useful improvements in a Method of Manufacturing a Micro-Electrical-Mechanical System with Thermally Isolated Active Elements, as described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, **Northrop Grumman Systems Corporation**, a Delaware corporation, having its principal place of business at 1840 Century Park East, Los Angeles, CA 90067-2199, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to **Northrop Grumman Systems Corporation**, and for other good and valuable consideration, the receipt and sufficiency is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United States Letters patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the full right to claim for any such application the priority benefits of the International Convention for the Protection of Industrial Property and other priority-conferring treaties, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, divisions, continuations, continuations-in-part, renewals and reissues thereof; and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified, Assignor was under an obligation to assign to Assignee, Assignor's entire right, title and interest in, to and under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith and that Assignee, **Northrop Grumman Systems Corporation**, its successors, assigns and other legal representatives shall have the right to hold and enjoy for its and their own use and benefit, to the end of the term or terms for which such Letters Patent shall or may be granted, reissued or extended as fully and completely as the same right or could have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, legal representatives and assigns, any and all facts known to Assignor respecting said improvements; to promptly provide Assignee with all documents relating to said improvements, said invention, and said Letters Patent as may be known or accessible to Assignor; to testify as to the same in any interference or litigation or other legal proceedings related thereto; to sign all lawful papers, execute all extensions, continuations, continuations-in-part, divisional and reissue applications; and to make all rightful oaths or declarations and generally do everything possible to aid Assignee, its successors, legal representatives and assigns in obtaining and enforcing all the rights herein conveyed for said improvements in all countries without further compensation, but at the expense of Assignee, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 16 day of JANUARY, 2009, and has executed the referenced patent application on the 16 day of JANUARY, 2009.

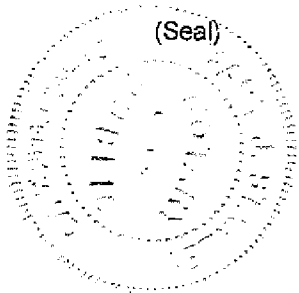
Nathan Bluzer
Nathan BLUZER

STATE OF Maryland
COUNTY OF Anne Arundel ^{SS}

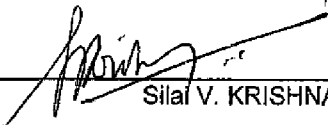
On January 16th 2009 before me, personally appeared Nathan BLUZER, personally known to me -- or -- proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Mary J. Stanley
Notary Signature



IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 16th day of January, 2009, and has executed the referenced patent application on the 16th day of January, 2009.



Silai V. KRISHNASWAMY

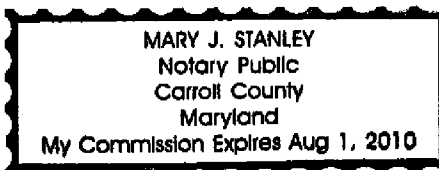
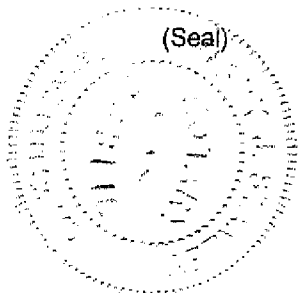
STATE OF Maryland
COUNTY OF Anne Arundel^{ss}

On January 16th 2009 before _____ me,
personally
appeared Silai V. KRISHNASWAMY, personally known to me – or – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Mary J. Stanley

Notary's Signature



IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 16 day of Jan, 2009, and has executed the referenced patent application on the 16 day of Jan, 2009.

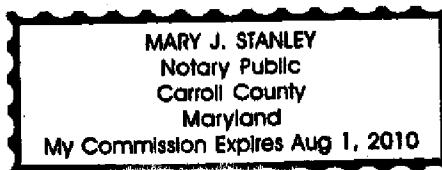
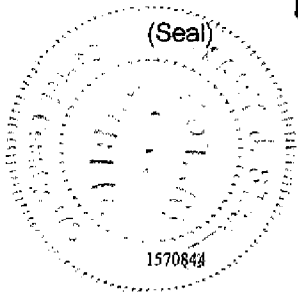
Philip C. Smith
Philip C. SMITH

STATE OF Maryland
COUNTY OF Anne Arundel ^{ss}

on January 16th 2009 before _____ me,
personally appeared Philip C. SMITH, personally known to me – or – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Mary J. Stanley
Notary's Signature



ROTHWELL, FIGG, ERNST & MANBECK

1425 K Street, N.W.
Suite 800
Washington, D.C. 20005

Telephone: (202)783-6040
Facsimile: (202)783-6031

FACSIMILE TRANSMITTAL SHEET

DATE: February 4, 2009

TO: Assignment Branch FAX: 571-273-0140
U.S. Patent and Trademark Office

FROM: Jason M. Shapiro

OUR REF: 2662-257

RE: U.S. Application Serial No. 12/365,284

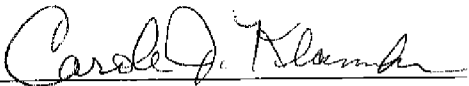
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Number of Pages Including This Transmittal Sheet: 6

If any problems in connection with this facsimile, please contact: Carole at 202-783-6040.

MESSAGE, IF ANY:

I hereby certify that Form 1595 and Assignment herewith are being transmitted by facsimile to the Assignment Branch of the U.S. Patent and Trademark Office this 4th day of February 2009.


Carole J. Klavuhn