

01-23-2007

Form PTO-1595 (Rev. 03-01)

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Atty. Docket No.: 167391

103364513

To the Honorable Commissioner of Patents and Trademarks. Attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Joseph SMITH
- 2) Harvey C. NATHANSON
- 3) Robert S. HOWELL
- 4) Christopher F. KIRBY
- 5) Garrett STORASKA

Additional name(s) of conveying party(ies)  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: December 15 & 18, 2006

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

Name: **Northrop Grumman Systems Corporation**

Internal Address:

Street Address: **1840 Century Park East**

City: **Los Angeles** State: **CA** ZIP: **90067**

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

113010 U.S. PTO 11/653964



011707

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: Dec. 15 & 18, 2006

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: **Sumeet Magoon**  
**ANDREWS KURTH LLP**  
 INTELLECTUAL PROPERTY DEPARTMENT  
 1350 I Street, NW  
 Suite 1100  
 Washington, DC 20005

6. Total number of applications and patents involved: 1

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

- Enclosed - Any excess or insufficiency should be credited or debited to deposit account
- Authorized to be charged to deposit account

8. Deposit account number:

**50-2849**

(Attach duplicate copy of this page if paying by deposit account)

01/22/2007 DBYRNE 00000060 502849 11653964

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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.

Sumeet Magoon, Reg. No. 43,769

January 17, 2007

Name of Person Signing

Signature

Date

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

Mail documents to be recorded with required cover sheet information to: Commissioner for Patents & Trademarks, Mail Stop: Assignments P.O. Box 1450, Alexandria, Virginia 22313-1450

ASSIGNMENT

WHEREAS, I, Joseph SMITH, hereinafter referred to as Assignor together with Harvey C. NATHANSON; Robert S. HOWELL; Christopher F. KIRBY & Garrett STORASKA have jointly invented certain new and useful improvements in COILED CIRCUIT DEVICE WITH ACTIVE CIRCUITRY AND METHODS FOR MAKING THE SAME 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 Assignor 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.

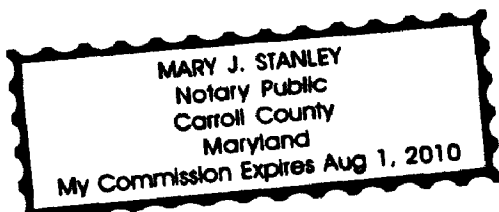
IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 15 day of December, 2006, and has executed the referenced patent application on the 15 day of December, 2006

[Signature]  
Assignor's Signature

STATE OF Maryland  
COUNTY OF Carroll<sup>SS</sup>

On DEC. 15, 2006 before me, Mary J. Stanley, personally appeared Joseph 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



(Seal)

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 15 day of December, 2006, and has executed the referenced patent application on the 15 day of December, 2006.

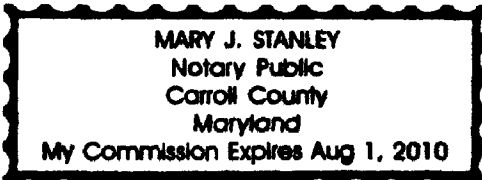
Harvey C. Nathanson  
Assignor's Signature

STATE OF Maryland  
COUNTY OF Anne Arundel

On DEC. 15, 2006 before me, Mary J. Stanley personally appeared Harvey C. NATHANSON, 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



(Seal)

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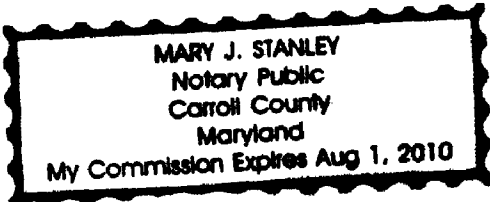
Robert S. Howell  
Assignor's Signature

STATE OF Maryland  
COUNTY OF Anne Arundel

On DEC. 15, 2006 before me, Mary J. Stanley personally appeared Robert S. HOWELL, 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



(Seal)



