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Form PTO-1595 (Rev. 03-05)
OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

103331009

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

1. Name of conveying party(ies):

Nathan BLUZER and
David C. HARMSAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): October 3, 2006

- ☒ Assignment ☐ Merger ☐ Change of Name
☐ Security Agreement ☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Northrop Grumman Corp.

Internal Address: _____

Street Address: _____

1840 Century Park East

City: Los AngelesState: CaliforniaCountry: United States of America Zip: 90067-2199Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/494,455

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Michael R. Cammarata
BIRCH, STEWART, KOLASCH & BIRCH,
LLPInternal Address: Atty. Dkt.: 1215-0594PUS1Street Address: 8110 Gatehouse Road
Suite 100 East
P.O. Box 747City: Falls ChurchState: VA Zip: 22040-0747Phone Number: (703) 205-8000Fax Number: (703) 205-8050Email Address: mailroom@bskb.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____b. Deposit Account Number _____
Authorized User Name _____

9. Signature:

Signature

October30, 2006

Date

Michael R. Cammarata - 39,491

Name of Person Signing

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

3

11/01/2006 MJAMA1 00000006 11494455

01 FC:8021

(40.00 OP)

Birch, Stewart, Kolasch & Birch, LLP

MRC/WLG/mpe

PATENT
REEL: 018474 FRAME: 0150

ASSIGNMENT

WHEREAS, we, Nathan BLUZER and David C. HARMS, hereinafter referred to as Assignors, have invented certain new and useful improvements in TWO STAGE TRANSFORMER COUPLING FOR ULTRA-SENSITIVE SILICON SENSOR PIXEL

described in an application for United States Letters Patent, executed by us 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 Assignors' obligations to Northrop Grumman Systems Corporation, and for other good and valuable consideration, the receipt and sufficiency is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assign, Assignors' 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 Assignors hereby authorize and request 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;

Assignors hereby acknowledge that at the time of making the improvements herein identified, Assignors were under an obligation to assign to Assignee, Assignors' entire right, title and interest in, to and under said improvements;

Assignors hereby covenant that Assignors have full right to convey the interest herein assigned, and that Assignors have 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 Assignors had this Assignment not been made.

Assignors hereby further covenant and agree to communicate to Assignee, its successors, legal representatives and assigns, any and all facts known to Assignors respecting said improvements; to promptly provide Assignors with all documents relating to said improvements, said invention, and said Letters Patent as may be known or accessible to Assignors; 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 03 day of October, 2006, and has executed the referenced patent application on the 03 day of October, 2006

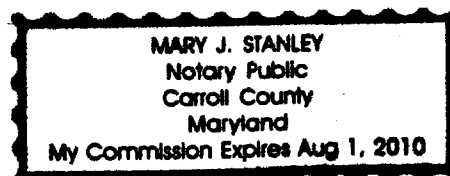

Assignor's Signature 

STATE OF Maryland
 COUNTY OF Anne Arundel^{SS}

On 4th October 2006 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's Signature
 (Seal)



IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this
3rd day of October, 2006, and has executed the referenced patent application on the
3rd day of October, 2006.

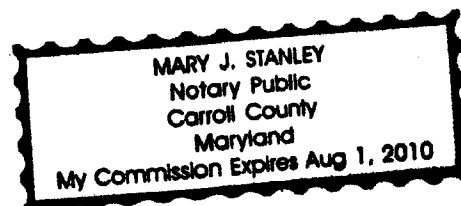
[Signature]
 Assignor's Signature

STATE OF Maryland
 COUNTY OF Anne Arundel^{SS}

On 4th October 2006 before _____ me,
 _____, personally appeared David
C. HARMS, 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)



PATENT