

Form PTO-1595 (Rev. 03-11)
OMB No. 0651-0027 (exp. 04/30/2015)

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

RECORDATION FORM COVER SHEET PATENTS ONLY

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)

Northrop Grumman Systems Corporation

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Execution Date(s) 01/11/2013

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

2. Name and address of receiving party(ies)

Name: Northrop Grumman Guidance and Electronics Company, Inc.

Internal Address: _____

Street Address: 21240 Burbank Blvd.

City: Woodland Hills,

State: California

Country: USA Zip 91367-6675

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

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

B. Patent No.(s)

7,050,001

Additional numbers attached? ☐ Yes ☒ No

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

Name: Carmen B. Patti

Internal Address: _____

Street Address: Carmen Patti Law Group, LLC

One N. LaSalle Street, 44th Floor

City: Chicago

State: Illinois Zip 60602

Phone Number: 312-346-2800

Docket Number: NGC-168/000620-199

Email Address: info@cpalawgroup.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 to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

Authorized User Name _____

9. Signature:



Signature

January 11, 2013

Date

Carmen B. Patti

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

OP \$40.00 705000

DEED OF ASSIGNMENTS

WHEREAS, Northrop Grumman Systems Corporation, a company registered in the State of Delaware, USA, of 2980 Fairview Park Drive Falls Church, VA 22042-4511, US (hereinafter "NGSC") owns certain new and useful improvements in various technologies embodied in systems, apparatuses and methods, for which NGSC has filed applications for Letters Patents of the United States as more fully described in Schedule A, which is attached hereto and made a part hereof.

WHEREAS, Northrop Grumman Guidance and Electronics Company, Inc., a company registered in the State of Delaware, of 21240 Burbank Blvd., Woodland Hills, CA 91367-6675, US (hereinafter "NGGECI") is desirous of obtaining the entire right, title and interest in, to and under the patent applications described in Schedule A:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, NGSC hereby sells, assigns, transfers and sets over, unto NGGECI, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the patent applications described in Schedule A and the inventions and improvements described therein, and all divisions, renewals, continuations and continuations-in-part thereof, and all Letters Patent of the United States that may be granted thereon and all reissues, reexaminations, and extensions thereof and all applications for Letters Patent that may hereafter be filed for any said inventions and improvements in any country or countries foreign to the United States, including those claiming priority to any of the patent applications described in Schedule A and all Letters Patent that may be granted for said inventions or improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, and any and all rights to sue for past infringement of anyone of the rights embodied in any of the foregoing.

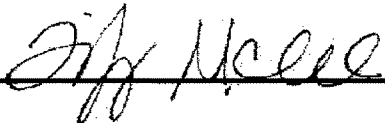
AND NGSC hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for the inventions and improvements to NGGECI, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND NGSC HEREBY covenants that NGSC has full right to convey the entire interest herein assigned, and that NGSC has not executed, and will not execute any agreement in conflict herewith.

AND NGSC HEREBY further covenants and agrees that NGSC will communicate to NGGECI, its successors, legal representatives and assigns, any facts known to NGSC respecting the patent applications described in Schedule A, and will testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part and reissue applications thereof, make all rightful oaths and generally do everything possible to aid NGGECI, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said inventions and improvements in all countries.

IN WITNESS WHEREOF, NGSC has caused this instrument to be executed by its duly authorized officer on this 11th day of January, 2013.

Signed for and on behalf of NGGECI

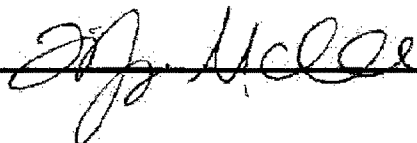
 (Sign)

By

Tiffany McConnell
(Name)

Secretary
(Position / Job Title)

Signed for and on behalf of NGSC

 (Sign)

By

Tiffany McConnell
(Name)

Assistant Secretary
(Position / Job Title)

SCHEDULE A

1. U.S. Patent Serial Number 7,050,001, Granted May 23, 2006 entitled, "CARRIER SIGNAL PHASE ERROR ESTIMATION."