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PATENTS ONLY

Atty Ref/Docket No.: 1547.087US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Bryan F. Berlin and Kim L. Christianson
 Additional name(s) of conveying party(ies) attached? []Yes [X]No

2. Name and address of receiving party(ies):
 Name: Raytheon Company
 Street Address: 870 Winter Street
 City: Waltham State: MA Zip: 02451-1449
 Additional name(s) & address(es) attached? []Yes [X]No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

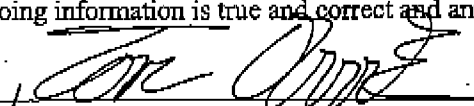
Execution Date: June 1, 2009, June 10, 2009

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:
 A. Patent Application No.(s) B. Patent No.(s)
 Serial No. 12/429,811, filed April 24, 2009
 Additional numbers attached? []Yes [X]No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Thomas C. Obermark
 Address:
Schwegman, Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, MN 55402-0938

6. Total number of applications and patents involved: 1
 7. Total fee (37 CFR 3.41):\$ 40.00
 Enclosed
 Authorized to be charged to deposit account 19-0743
 8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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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.
Thomas C. Obermark/Reg. No. 55,506  July 23, 2009
 Name of Person Signing Signature Date

Total number of pages including cover sheet: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

CH \$40.00 190743 12429811

ASSIGNMENT

WHEREAS, We, Bryan F. Berlin, residing at 3341 W. Cinnamon Drive, Tucson, AZ 85741, and Kim L. Christianson, residing at 11547 N. Flat Iron Drive, Oro Valley, AZ 85737, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on April 24, 2009, which application was assigned U.S. patent application serial number 12/429,811, and is entitled METHODS AND APPARATUS FOR HIGH-IMPULSE FUZE BOOSTER FOR INSENSITIVE MUNITIONS:

AND WHEREAS, Raytheon Company, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 870 Winter Street, Waltham, MA 02451-1449 (hereinafter "Assignee"), is desirous of acquiring the entire right, priority right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all ~~inventions and improvements disclosed in the aforesaid application, and in and to the said~~ application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

Docket No: 1547.087US1
Client Ref. No. 06W100
Serial Number: 12/429,811
Filing Date: April 24, 2009
Title: METHODS AND APPARATUS FOR HIGH-IMPULSE
FUZE BOOSTER FOR INSENSITIVE MUNITIONS
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AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

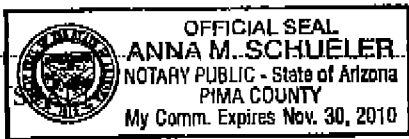
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IN TESTIMONY WHEREOF, I have hereunto set my hand this 10 day of
JUNE, 2009.

Kim L. Christianson
Kim L. Christianson

STATE OF Arizona)
)ss
COUNTY OF Pima)

On this 10th day of June, 2009 before me personally appeared Kim L. Christianson, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Anna M. Collyer formerly known as Anna M. Schueler

Notary Public

SCHWEGMAN ■ LUNDBERG ■ WOESSNER
 PATENT, TRADEMARK & COPYRIGHT ATTORNEYS
 P.O. Box 2938
 Minneapolis, MN 55402
 Telephone (612) 373-6900 Facsimile (612) 339-3061

Date: July 24, 2009

Time: 3:20 P.M.
 (Minneapolis, Minn.)

TO: Commissioner for Patents
 Attn: Assignment Recordation Services
 Patent Examining Corps
 Facsimile Center
 P.O. Box 1450
 Alexandria, VA 22313-1450

FROM: Thomas C. Obermark

OUR REF: 1547.087US1

FAX NUMBER 571-273-0140

Documents Transmitted:

Assignment (4 pages), Assignment Recordation Form Cover Sheet (1 page), authorization to charge Deposit Account No. 19-0743 in the amount of \$40.00 to cover the Assignment Recording Fee.

Total pages of this transmission, including cover letter: (6 pgs)

If you do NOT receive all of the pages described above, please telephone us at 612-373-6900 or fax us at 612-339-3061.

In re. Patent Application of: Bryan Berlin et al.

Examiner:

Serial No.: 12/429,811


Group Art Unit:

Filed: April 24, 2009


Docket No.: 1547.087US1

Title: METHODS AND APPARATUS FOR HIGH-IMPULSE FUZE BOOSTER FOR
 INSENSITIVE MUNITIONS

Please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

By: 
 Name: Thomas C. Obermark
 Reg. No. 55,506

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on the date shown below.


 Kevin Austad

7/24/09
 Date