## PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Bradley Biggs	02/07/2011
Timothy B. Bonbrake	02/03/2011
George Darryl Budy	02/04/2011
Christopher Schott	02/07/2011

## **RECEIVING PARTY DATA**

Name:	Raytheon Company
Street Address:	870 Winter Street
City:	Waltham
State/Country:	MASSACHUSETTS
Postal Code:	02451-1449

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13022164

## **CORRESPONDENCE DATA**

Fax Number: (612)339-3061

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Correspondent Name: Schwegman, Lundberg & Woessner, P.A.

Address Line 1: P.O. Box 2938

Address Line 4: Minneapolis, MINNESOTA 55416

ATTORNEY DOCKET NUMBER: 10-1040 (1547.137US1)

NAME OF SUBMITTER: Ryan B. Saunders

**Total Attachments: 7** 

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> PATENT REEL: 025817 FRAME: 0840

# RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 10-1040 (1547.137US1) Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Raytheon Company Bradley Biggs, Timothy B. Bonbrake, George Darryl Street Address: 870 Winter Street Budy, Christopher Schott Additional name(s) of conveying party(ies) attached? City: Waltham State: MA Zip: <u>02451-1449</u> Country: United States of America [ ]Yes [X]No Additional name(s) & address(es) attached? [ ]Yes 3. Nature of conveyance: [X]No [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: February 7, 2011, February 3, 2011, February 4, 2011, February 7, 2011 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. 13/022,164, filed February 7, 2011 Additional numbers attached? [ ]Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 40.00 Name: Thomas C. Obermark []Enclosed [X] Authorized to be charged to deposit account Address: 19-0743 Schwegman, Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, MN 55402--0938 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE 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. February 16, 2011 Thomas C. Obermark/Reg. No. 55,506 Date Name of Person Signing Signature Total number of pages including cover sheet: 7 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

PATENT REEL: 025817 FRAME: 0841

## ASSIGNMENT

WHEREAS, We, <u>Bradley Biggs</u>, residing at 17275 South Sienna Bluffs Trail, Corona, AZ 85641, and <u>Timothy B. Bonbrake</u>, residing at 7431 North Michelle Place, Tucson, AZ 85704, and <u>George Darryl Budy</u>, residing at 3201 W. Magee Rd., Tucson, AZ 85741-1132, and <u>Christopher Schott</u>, residing at 2802 N. Cloverland Ave., Tucson, AZ 85712, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent entitled <u>SHOCK HARDENED</u> INITIATOR AND INITIATOR ASSEMBLY:

WHEREAS, We hereby authorize and request the attorneys, representing Raytheon Company on this application, at Schwegman, Lundberg & Woessner, P.A., located at 121 South Eighth Street, Suite 1600, Minneapolis, MN 55402, to insert here in parentheses (Ser. No. 13/022,164; Filing Date: February 7, 2011) the filing date and application number of said application when known.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to Raytheon Company (the "Assignee"), a corporation of the State of Delaware, having a place of business at 870 Winter Street, Waltham, MA 02451-1449, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. <u>85851</u> may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

## Additional Application Information

No Provisional claim for priority is being made at this time.

No U.S. Non-Provisional claim for priority is being made at this time.

No International or foreign claim for priority is being made at this time.

PATENT REEL: 025817 FRAME: 0842 ASSIGNMENT
Client Ref. No. 10-1040
Assignors: Bradley Biggs at al.
Title: SHOCK HARDENED INITIATOR AND INITIATOR ASSEMBLY
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AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of my signature below:

ASSIGNMENT Docket No. 1547 137US1 Client Ref. No. 10-1040 Assignors: Bradley Biggs et al. Tids: SHOCK HARDENED INITIATOR AND INITIATOR ASSEMBLY Page 3 of 6 IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of STATE OF ANIZONA )ss COUNTY OF PIMA )

the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth. OFFICIAL SEAL ARDREAM Z. BURTON

ISEAL) BOTATY PUBLIC ARIZONA PIMA COUNTY

Wy Comm. Exp. Nov. 20, 2012

Oudre M. Notary Public

ASSIGNMENT
Client Ref. No. 10-1040
Assignors: Bradley Biggs et al.
Title: SHOCK HARDENED INITIATOR AND INITIATOR ASSEMBLY
Page 4 of 6

Docket No. 1547, 137981

Feb	IN TESTIMONY WHE, 20//	REOF, I have be	reunto set my h	and this day of	
		Sim	oth p	Parky	
	<b>.</b>		Time	othy B. Bonbrake	
STATE OF	AVLIZONA				
		Nec.			

On this 212 day of FEBRUAYLY, 20 U before me personally appeared Timothy B. Bonbrake, 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.

OFFICIAL BEAL
ANDREA M.Z. BURTON
BOTABY PUBLIC-ARIZONA
PIMA COUNTY
My CORD. Exp. Nov. 28, 2012

COUNTY OF PIMA

Ordres M.Z. Notary Public ASSIGNMENT
Client Ref. No. 10-1040
Assigners: Bodley Biggs et al.
Title: SHOCK HARDENED INITIATOR AND INITIATOR ASSEMBLY
Fage 5 of 6

Docket No. 1547,137US1

IN TESTIMONY WHEREOF, I IS	ave hereunto set n	ny hand this	day of
	Lunge	Daryl	Budy
		George Darryl Bud	ly C
STATE OF ARIZONA)		*	* -
COUNTY OF PLM4 )			
On this Hen day of FERUA  George Darryl Budy, to me known and known executed the foregoing instrument, and he/she same for the uses and purposes therein set forti	to me to be the peduly acknowledge	erson described in a	and who
OFFICIAL BEAL  (22 SAMESSAMS MIRTON /	Day Dr. N	N 2 F	J

Notary Public

ASSIGNMENT
Clicht Ref. No. 16-1040
Assignars: Bradley Biggs et al.
Title: SHOCK HARDENED INTIATOR AND INITIATOR ASSEMBLY

Docket No. 1547-137US1

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_\_ day of \_\_\_\_\_\_\_. 20]\_\_\_\_\_\_.

Christopher Schott

STATE OF HOIZONA

COUNTY OF PIMA

On this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 20 // before me personally appeared <u>Christopher Schott</u>, 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.

CAROL M. GAUDETTE
CAROL M. GAUDETTE
Notory Public - State of Arizona
PiMA COUNTY
My Comm. Expires June 1, 2013

Notary Public

PATENT REEL: 025817 FRAME: 0847

RECORDED: 02/16/2011