

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3713292

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
STEPHEN REDINGTON	01/27/2016
GREGORY BURKE	01/25/2016
CHRISTOPHER MACRAE	01/27/2016
JOHN HIRLINGER	01/25/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	U.S. GOVERNMENT AS REPRESENTED BY THE SECRETARY OF THE ARMY
<b>Street Address:</b>	RDAR-GCL/BLDG. 3
<b>Internal Address:</b>	U.S. ARMY RDECOM-ARDEC
<b>City:</b>	PICATINNY ARSENAL, DOVER
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07806-5000
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15007575
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(973)724-5552
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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<b>Address Line 4:</b>	PICATINNY ARSENAL, NEW JERSEY 07806-5000
<b>ATTORNEY DOCKET NUMBER:</b>	2012-049CIP
<b>NAME OF SUBMITTER:</b>	JOHN P. DISCALA
<b>SIGNATURE:</b>	/John P. DiScala/
<b>DATE SIGNED:</b>	01/27/2016
<b>Total Attachments: 5</b>	

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**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)**

Stephen Redington; Gregory Burke;  
*Christopher Macrae; John Hirtlinger*

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

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

Execution Date(s) 1/27/16; 1/25/16; 1/27/16; 1/25/16

- ☒ 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: U.S. Government as Represented by the Secretary of the Army

Internal Address: U.S. Army RDECOM-ARDEC

Street Address: RDAR-GCL/Bldg. 3

City: Picatinny Arsenal, Dover

State: NJ

Country: US Zip: 07806-5000

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

**4. Application or patent number(s):**

☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

B. Patent No.(s)

15/007,575 Filing Date: 1/27/2016

Additional numbers attached? ☐ Yes ☒ No

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

Name: Lori Hanko

Internal Address: U.S. Army RDECOM-ARDEC

Street Address: RDAR-GCL/Bldg. 3

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Phone Number: 973-724-3449

Docket Number: 2012-049CIP

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**6. Total number of applications and patents involved: 1**

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

- ☐ 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:** /John P. DiScala/

1/27/2016

Signature

Date

John P. DiScala

Name of Person Signing

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

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

ASSIGNMENT OF INVENTION

Patent Application Title: **DISPOSABLE, MINIAUTURE INTERNAL OPTICAL IGNITION SOURCE FOR AMMUNITION**

**APPLICATION**

Inventor(s): Stephen Redington, Gregory Burke, Christopher Macrae, John Hirlinger

Provisional Application Serial No. \_\_\_\_\_ Filing date: \_\_\_\_\_

Patent Application Serial No. 15/007,575 Filing Date: 1/27/16 Date Oath executed: 1/27/16; 1/25/16; 1/27/16; 1/25/16  
*respectively*

Docket No.: 2015-046/2015-050

Patent Number: \_\_\_\_\_

I (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions and Puerto Rico, in and to the above-identified invention(s), provisional application(s), application(s) for patent, and Patent Cooperation Treaty application(s), and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application(s) and any reissue or extension of said Letters Patent.

2. Agree to assign to the Government upon its request, all right, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed or files a Patent Cooperation Treaty application; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, or fails to file a Patent Cooperation Treaty application, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.

3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention(s), the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon.

Signature of Inventor Stephen H Redington Date: 1/27/2016

Typed Name of Inventor: Stephen Redington

Address: 32 Kitchell Avenue, Wharton, NJ 07385

Signature of Inventor \_\_\_\_\_ Date: \_\_\_\_\_

Typed Name of Inventor: Gregory Burke

Address: P.O. Box 35, Piermont, NH 03779

ASSIGNMENT OF INVENTION

Patent Application Title: **DISPOSABLE, MINIAUTURE INTERNAL OPTICAL IGNITION SOURCE FOR AMMUNITION**

**APPLICATION**

Inventor(s): Stephen Redington, Gregory Burke, Christopher Macrae, John Hirlinger

Provisional Application Serial No. \_\_\_\_\_ Filing date: \_\_\_\_\_

Patent Application Serial No. 151007,575 Filing Date: 1/27/16 Date Oath executed: 1/27/16, 1/25/16, 1/27/16, 1/25/16  
*respectively*

Docket No.: 2015-046/2015-050

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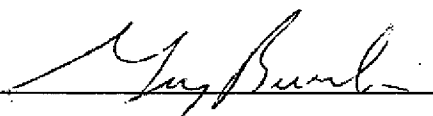
2. Agree to assign to the Government upon its request, all right, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed or files a Patent Cooperation Treaty application; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, or fails to file a Patent Cooperation Treaty application, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.

3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention(s), the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon.

Signature of Inventor \_\_\_\_\_ Date: \_\_\_\_\_

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