503243359 03/31/2015

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | | NEW ASSIGNMENT | |
|----------------------------|----------------|--|--------------------|
| NATURE OF CONVEYANCE: | | ASSIGNMENT | |
| CONVEYING PARTY D | ΟΑΤΑ | • | |
| | | Name | Execution Date |
| BRIAN HOFFMAN | | 03/13/2015 | |
| ALEXANDER SMITH | | | 03/17/2015 |
| HANSEN LUKMAN | | | 03/13/2015 |
| RECEIVING PARTY D | ΑΤΑ | | |
| Name: | U.S. G ARMY | U.S. GOVERNMENT AS REPRESENTED BY THE SECRETARY OF THE ARMY | |
| Street Address: | RDAR- | RDAR-GCL/BLDG. 3 | |
| Internal Address: | U.S. A | U.S. ARMY RDECOM-ARDEC | |
| City: | PICAT | PICATINNY ARSENAL, DOVER | |
| State/Country: | NEW J | NEW JERSEY | |
| Postal Code: | 07806- | 5000 | |
| PROPERTY NUMBERS | S Total: 1 | | |
| Property Type | 9 | Number | |
| Application Number: | | 14658571 | |
| CORRESPONDENCE | DATA | | |
| Fax Number: | | (973)724-5552 | |
| | | o the e-mail address first; if that is u I; if that is unsuccessful, it will be s | |
| usiliu a lak iluliindi. Il | provided | i, ii uial is ulisuucessiui, il will De S | ent via US iviail. |
| Phone: | • | 973-724-3449 | |

Correspondent Name: LORI HANKO

Address Line 1: RDAR-GCL / BLDG 3

Address Line 2:U.S. ARMY RDECOM-ARDECAddress Line 4:PICATINNY ARSENAL, NEW JERSEY 07806-5000

| ATTORNEY DOCKET NUMBER: | 2014-027A | |
|-------------------------|---------------------|--|
| NAME OF SUBMITTER: | HENRY S. GOLDFINE | |
| SIGNATURE: | /Henry S. Goldfine/ | |
| DATE SIGNED: | 03/31/2015 | |
| Total Attachments: 4 | | |

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source=027ARECORD#page2.tif source=027ARECORD#page3.tif source=027ARECORD#page4.tif Form PTO-1595 (Rev. 06-12) 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: Pleas | e record the attached documents or the new address(es) below. | | |
| 1. Name of conveying party(ies) | 2. Name and address of receiving party(ies) | | |
| | Name: U.S. Government as Represented by the Secretary of the Army | | |
| Brian Hoffman; Alexander Smith; Hansen Cukman | Internal Address: U.S. Army RDECOM-ARDEC | | |
| | | | |
| Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): | Street Address: RDAR-GCL/Bldg. 3 | | |
| Execution Date(s) 3/13/15;3/17/15;3/13/15 respectively | | | |
| Assignment Merger | | | |
| Security Agreement Change of Name | City: Picatinny Arsenal, Dover | | |
| Joint Research Agreement | State: NJ | | |
| Government Interest Assignment | Country: US Zip: 07806-5000 | | |
| Executive Order 9424, Confirmatory License | 2.p. <u>2.p.</u> | | |
| Other | Additional name(s) & address(es) attached? 🗌 Yes 🔳 No | | |
| 4. Application or patent number(s): | document serves as an Oath/Declaration (37 CFR 1.63). | | |
| A. Patent Application No.(s) | B. Patent No.(s) | | |
| 14/658,571 Filing Date: 3/16/2015 | | | |
| | | | |
| Additional numbers att | | | |
| 5. Name and address to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: 1 | | |
| Name: Lori Hanko | | | |
| Internal Address: U.S. Army RDECOM-ARDEC | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ | | |
| | | | |
| PDAP CCI /Bida 3 | Authorized to be charged to deposit account | | |
| Street Address: RDAR-GCL/Bldg. 3 | None required (government interest not affecting title) | | |
| City: Picatinny Arsenal, Dover | 8. Payment Information | | |
| | | | |
| State: NJZip: 07806-5000 | | | |
| Phone Number: 973-724-3449 | Deposit Account Number | | |
| Docket Number: 2014-027A | | | |
| Email Address: lori.hanko.civ@mail.mil | Authorized User Name | | |
| | | | |
| 9. Signature: /Henry S. Goldfine/ | 3/31/2015 | | |
| | 3/31/2015 Date | | |
| 9. Signature: /Henry S. Goldfine/ Signature Henry S. Goldfine | Date Total number of pages including cover | | |
| 9. Signature: /Henry S. Goldfine/ Signature | Date Total number of pages including cover sheet, attachments, and documents: | | |

PATENT REEL: 035297 FRAME: 0215

ASSIGNMENT OF INVENTION

Patent Application Title: RECIPROCALLY-CYCLED WEAPON

Inventor(s): Brian Hoffman; Alexander Smith; Hansen Lukman

| Provisional Application Serial No. | Filing date | |
|-------------------------------------|---|--------------|
| Patent Application Serial No.) 4/05 | P.57/iling Date: 3/16/17 Date Oath executed: 3/13/15; 3/1 | 7/15, 3/3/15 |
| Docket No.: 2014-027A | Patent Number: | respectively |

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_Branch Haffer | Date: <u>13-Mar-2015</u> |
|---|--------------------------|
| Typed Name of Inventor: Brian Hoffman | |
| Address: 35 Glenn Court, Bangor, PA 18013 | |
| | |
| Signature of Inventor | Date: |
| Typed Name of Inventor: Alexander Smith | |
| Address: 339 Pleasant Grove Road, Long Valley, NJ 07853 | · |
| | |
| Signature of Inventor | Date: |
| | |

Typed Name of Inventor: Hansen Lukman

Address: 225 West Lake Shore Drive, Rockaway, NJ 07866

ASSIGNMENT OF INVENTION

Patent Application Title: RECIPROCALLY-CYCLED WEAPON

Inventor(s): Brian Hoffman; Alexander Smith; Hansen Lukman

| Provisional Application Serial No. | Filing date | us al las 11 |
|--------------------------------------|--|--------------|
| Patent Application Serial No. 14/650 | B,571 Filing Date: 3/16/15 Date Oath executed: 3/12/1 | |
| Docket No.: 2014-027A | Patent Number: | respectively |

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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.

Date:

| Signature of Inventor | Date: |
|---|-----------------|
| Typed Name of Inventor: Brian Hoffman | |
| Address: <u>35 Glenn Court, Bangor, PA 18013</u> | |
| Signature of Inventor_ Typed Name of Inventor: Alexander Smith Address:339 Pleasant Grove Road, Long Valley, NJ 07853 | Date: 3-17-2015 |
| Signature of Inventor | Date: |
| Typed Name of Inventor: Hansen Lukman | |
| Address: 225 West Lake Shore Drive, Rockaway, NJ 07866 | |

ASSIGNMENT OF INVENTION

Patent Application Title: RECIPROCALLY-CYCLED WEAPON

Inventor(s): Brian Hoffman; Alexander Smith; Hansen Lukman

| Provisional Application Serial No. | Filing date | ····· | 1 1 |
|--------------------------------------|----------------|---------------------------|--------------|
| Patent Application Serial No. 19/658 | Filing date | outed 3/13/15, 3/17/15, 3 | 13/15 |
| Docket No.: 2014-027A | Patent Number: | | respectively |

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<u>.</u>

| Signature of inventor | Date: |
|--|-----------------|
| Typed Name of Inventor: Brian Hoffman | |
| Address: <u>35 Glenn Court, Bangor, PA 18013</u> | |
| Signature of Inventor | Date: |
| Typed Name of Inventor: Alexander Smith | |
| Address: <u>339 Pleasant Grove Road, Long Valley, NJ 07853</u> | |
| Signature of Inventor | Date:_3 13 2015 |
| Typed Name of Inventor: Hansen Lukman | |
| Address: 225 West Lake Shore Drive, Rockaway, NJ 07866 | |
| | |

RECORDED: 03/31/2015

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