

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6907604

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| WILLIAM B. RAY II | 12/11/2018 |
| RECEIVING PARTY DATA | |
| Name: | THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE ARMY |
| Street Address: | 101 ARMY PENTAGON |
| City: | WASHINGTON |
| State/Country: | D.C. |
| Postal Code: | 20310 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17363886 |
| CORRESPONDENCE DATA | |
| Fax Number: | (301)394-3972 |
| <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> | |
| Phone: | 301-394-1774 |
| Email: | nadine.l.loman.civ@army.mil |
| Correspondent Name: | NADINE L. LOMAN |
| Address Line 1: | 2800 POWDER MILL ROAD |
| Address Line 2: | U.S. ARMY DEVCOM - ARMY RESEARCH LABORATORY |
| Address Line 4: | ADELPHI, MARYLAND 20783 |
| ATTORNEY DOCKET NUMBER: | ARL 18-09D |
| NAME OF SUBMITTER: | NADINE L. LOMAN |
| SIGNATURE: | /Nadine L. Loman/ |
| DATE SIGNED: | 09/09/2021 |
| Total Attachments: 5 | |
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| source=ARL 18-09D_WilliamRay_ExecutedAssignment#page4.tif | |

**ASSIGNMENT AND AGREEMENT
RESEARCH ASSOCIATES**

The U.S. Army Research Laboratory (ARL) has Research Associate programs administered by the National Research Council (NRC) of the National Academies and the Oak Ridge Associated Universities (ORAU). The term Research Associate includes, but is not limited to, those individuals working at ARL as Postdoctoral Fellows, Senior Researchers and Summer Faculty. The ARL's Research Associate program brings new talent with new ideas and techniques to the Laboratory. A Research Associate is not considered an employee of the NRC, ORAU or ARL. Although the U.S. Government is entitled to a nonexclusive, nontransferable, irrevocable, paid-up license, to practice, or have practiced for or on behalf of the United States, in each invention to which the Research Associate retains title, neither the NRC nor ORAU, whichever is applicable, exercise any rights to any inventions made during the tenure of a Research Associate.

In accordance with the ARL Agreement – Disposition of Rights in Intellectual Property “Research Associate Program,” executed by Research Associates working at ARL, if a Research Associate decides not to file for patent protection or fails to elect title within the times specified in the Agreement on an invention made by the Research Associate the Research Associate agrees to assign title, both domestic and/or foreign, to the U.S. Government. Assigning title to the Government makes the Research Associate eligible to share royalties from the Government's licensing of the invention pursuant to 15 U.S.C. §3710c and Army policy. **The Research Associate is encouraged to engage his or her own lawyer for counseling regarding the rights and obligations the Research Associate has with respect to the invention identified herein.**

TO BE COMPLETED BY IP LAW BRANCH PERSONNEL

ARL's presentation of this form to you, the Research Associate Inventor identified below, constitutes ARL's written request to obtain assignment of title to the invention identified below.

Electrophoretic Deposition (EPD) of Radioisotope and Phosphor Composite Layer for Hybrid Radioisotope Batteries and Radioluminescent Surfaces

1. Title of Invention: **Electrophoretic Deposition (EPD) of Radioisotope and Phosphor Composite for Hybrid Radioisotope Battery**

2. *Application Serial No.: 46/366,792
17/363,886

*Filing Date: 3/27/2019
6/30/2021

Docket: ~~ARL 18-09~~
ARL 18-09D

*(*I hereby authorize the application serial number and filing date of said application be added when known.)*

3. Name of Research Associate Inventor: William B. Ray, II

4. Name of Joint-Inventor (s) if applicable John A. Russo, Marc S. Litz

5. Complete name of host ARL Organization at the time the invention was made. Sensor and Electron Devices Dir (SEDD)

6. Nadine L Loman
Printed Name and Signature of IP Law Branch Personnel

12/10/2018
(Date)

TO BE COMPLETED BY THE INVENTOR (RESEARCH ASSOCIATE)

I, THE RESEARCH ASSOCIATE IDENTIFIED HEREIN IN CONSIDERATION OF BECOMING ELIGIBLE TO SHARE ROYALITIES IN THE LICENSING OF THE ABOVE IDENTIFIED INVENTION AND OTHER BENEFITS ATTRIBUTABLE TO MY APPOINTMENT AT ARL AS A RESEARCH ASSOCIATE AWARDEE, WILL ASSIGN AND DO HEREBY ASSIGN TO THE UNITED STATES GOVERNMENT MY ENTIRE DOMESTIC RIGHT, TITLE AND INTEREST IN AND TO THE ABOVE IDENTIFIED INVENTION AND AGREE TO EXECUTE ANY ADDITIONAL DOCUMENTS NECESSARY TO EVIDENCE TRANSFER OF TITLE OF THE INVENTION TO THE U.S. GOVERNMENT WHEN REQUESTED AND TO COOPERATE IN EXECUTING ALL DOCUMENTS NECESSARY TO ENABLE THE GOVERNMENT TO OBTAIN PATENT PROTECTION THEREON.

I further agree to assign to the U.S. Government, upon its request, 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; 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, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me, subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent in 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.

William R. J.
Signature of Inventor

12-11-18
Date

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EPAS ID: PAT5453707

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| Phone: | 301-394-1769 |
| Email: | nadine.l.loman.civ@mail.mil |
| Correspondent Name: | ALAN I. KALB |
| Address Line 1: | 2800 POWDER MILL ROAD |
| Address Line 4: | ADELPHI, MARYLAND 20783 |
| ATTORNEY DOCKET NUMBER: | ARL 18-09 |
| NAME OF SUBMITTER: | NADINE L. LOMAN |
| SIGNATURE: | /Nadine L. Loman/ |
| DATE SIGNED: | 04/02/2019 |
| Total Attachments: 2 | |
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| source=ARL 18-09_WilliamRay_ExecutedAssignment#page2.tif | |

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*(*I hereby authorize the application serial number and filing date of said application be added when known.)*

3. Name of Research Associate Inventor: William B. Ray, II

4. Name of Joint-Inventor (s) if applicable John A. Russo, Marc S. Litz


5. Complete name of host ARL Organization at the time the invention was made. Sensor and Electron Devices Dir (SEDD)

6. Nadine L Loman 12/10/2018
Printed Name and Signature of IP Law Branch Personnel (Date)

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Signature of Inventor

12-11-18
Date