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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)

James R. Mulcahy

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

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

Execution Date(s) 1/05/2016

- ☒ 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: General Technical Services, LLC

Internal Address: _____

Street Address: 3100 Rte. 138

Bldg #4, Suite 1

City: Wall

State: NJ

Country: USA Zip: 07719

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)

15/061,205

Additional numbers attached? ☐ Yes ☒ No

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

Name: U.S. Army Research Laboratory

Internal Address: ATTN: RDRL-LOC-I/Alan I. Kalb

Street Address: 2800 Powder Mill Road

City: Adelphi

State: Maryland Zip: 20783

Phone Number: 301-394-1640

Docket Number: ARL 15-46

Email Address: nadine.l.loman.civ@mail.mil

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 19-2201

Authorized User Name Alan I. Kalb

9. Signature:



Signature

3/9/16

Date

Alan I. Kalb, Reg. No. 52,486

Name of Person Signing

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

3

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

CH \$40.00 192201 15061205

ASSIGNMENT

Docket No.: ARL 15-46

*Serial No.: 15/061,205

*Filed: 3/4/2016

*(*Data not known at execution may be added later for better identification.)*

WHEREAS, I James R. Mulcahy, USA have invented certain improvements in IN-SITU PROCESS FOR LEAD ZIRCONATE TITANTE (PZT) THIN FILMS AND PLATINUM (PT) ELECTRODE, and described in a patent application executed the 4th day of March, 20 16, by the undersigned for filing in The United States of America, and being the owner of all right, title, and interest in and to said application and in and to any invention described therein and having full right to convey the entire interest both legal and equitable herein assigned; and

WHEREAS, General Technical Services, LLC, a corporation of the State of New Jersey (assignee) is desirous of acquiring the entire right, title, and interest in and to said application and said invention described therein and any and all patents to be obtained therefore, all as hereinafter set forth:

NOW, THEREFORE, in consideration of good and valuable consideration received by the undersigned, the undersigned do hereby sell, assign, transfer and set over unto said assignee, its successors and assigns, the entire right, title, and interest in and to said invention or inventions, as described in the aforesaid application, and any form or embodiment thereof, and in and to the aforesaid application; and in and to any application filed in any foreign country based thereon, including the right to file said foreign applications under the provisions of the International Convention; also the entire right, title, and interest in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and the undersigned hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said assignee or its successors and assigns.

The undersigned further agree to execute all divisional, continuing, substitute, improvement, extension, reissue and other patent applications in this or any foreign country relating to said application or invention and to sign all other lawful papers and to perform all other lawful acts without further consideration, but without expense to myself (ourselves), which the assignee may deem necessary or desirable to make this

Assignment fully effective including by way of example, but not of limitation, the following acts:

- (1) Prompt execution of all lawful oaths, affidavits and/or supplemental oaths required or deemed advisable by the assignee to further the prosecution of any application or applications for letters patent relating to the subject matter of this Assignment;
- (2) To cooperate to the best of our ability in the execution of all lawful documents, the production of evidence, and the giving of testimony in interference, opposition, nullification or infringement proceedings involving the said invention or improvement, applications or patents or any of them.

The undersigned hereby authorize said assignee to insert in this Assignment the serial number and filing date of the above identified application when known.

IN WITNESS WHEREOF, the undersigned have hereunto set their hand and seals on the dates set after their signatures.

James R. Mulcahy, 1/5, 2016
(Signature) (Date)
James R. Mulcahy

State of Maryland)
County of Montgomery) SS:

On this 5th day of January, 2016, before me personally appeared James R. Mulcahy to me personally known, and known to me to be the person who signed the foregoing assignment, and acknowledge the signing of same as his/her free act and deed.

Archie S. Roman
Notary Public

My Commission Expires
2/27/2019