

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4509737

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JEFFERSON SCIENCE ASSOCIATES, LLC/THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY	05/08/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	U.S. DEPARTMENT OF ENERGY
<b>Street Address:</b>	1000 INDEPENDENCE AVE., SW
<b>City:</b>	WASHINGTON
<b>State/Country:</b>	D.C.
<b>Postal Code:</b>	20585
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	9589757
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<b>SIGNATURE:</b>	/Brenda K. Banks/
<b>DATE SIGNED:</b>	07/19/2017
<b>Total Attachments: 1</b>	
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## CONFIRMATORY LICENSE

**Title of Invention:** NANO-PATTERNED SUPERCONDUCTING SURFACE FOR HIGH QUANTUM EFFICIENCY CATHODE

**Inventor(s):** Fay Hannon and Pietro Musumeci

**Patent No.:** U.S. 9,589,757

**Issue Date:** 03/07/2017

**Name of Contractor:** (Jefferson Science Associates, LLC/Thomas Jefferson National Accelerator Facility)

**DOE Contract No.:** (DE-AC05-06OR23177)

**DOE Case No.:** S-136,123

**Contractor Docket No.** 1393

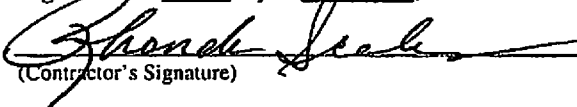
The Contractor has reported the above-identified invention as a Subject Invention to DOE and has elected to retain title thereto.

Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up, worldwide license in this subject invention, patent application and any resulting patent, including any continuation, divisional, reissue, or supplemental application thereof, to practice or to have practiced for or on behalf of the United States throughout the world; and of all other rights acquired by the Government by the patent rights clause in the above-identified contract.

It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor, or from asserting any other rights of the Government with respect to the above-identified subject invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 8th day of May, 2017

  
(Contractor's Signature)

Rhonda Scales, Legal Counsel

Official's Name and Title (Typed)

12000 Jefferson Avenue, Suite 15, Newport News, VA 23606

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