

<b>PATENT ASSIGNMENT COVER SHEET</b>
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 Stylesheet Version v1.2

EPAS ID: PAT4280690

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOSHUA T HEWITT	02/15/2017
GREGORY HALL	02/15/2017
CHARLES R. SHICK, JR	02/15/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC
<b>Street Address:</b>	BUILDING 773-41A
<b>Internal Address:</b>	ROOM 227
<b>City:</b>	AIKEN
<b>State/Country:</b>	SOUTH CAROLINA
<b>Postal Code:</b>	29803
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15435976
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	SRNS-105 (SRS-16-019)
<b>NAME OF SUBMITTER:</b>	ANAND K. PATEL
<b>SIGNATURE:</b>	/anand k. patel, reg no 70,705/
<b>DATE SIGNED:</b>	02/17/2017
<b>Total Attachments: 2</b>	
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source=SRNS-105_Assignment#page2.tif	

**JOINT AFFIRMATION OF INVENTION ASSIGNMENT  
OF WORLDWIDE RIGHTS**

WHEREAS, we, **JOSHUA T. HEWITT**, a citizen of the United States, residing at 202 Berringer Drive, Apartment B, Aiken, South Carolina 29803; **GREGORY HALL**, a citizen of the United States, residing at 136 Vivion Drive, Aiken, South Carolina 29803; and **CHARLES R. SHICK, JR.**, a citizen of the United States, residing at 2512 Beaver Creek Lane, Aiken, South Carolina 29803, as co-inventors and assignors of an invention entitled

**“GRAPHENE/GRAPHITE-BASED FILAMENT FOR THERMAL IONIZATION”**

as described in a patent application for U.S. Letters Patent executed by me on even date herewith, which is about to be filed in the U.S. Patent and Trademark Office; and

WHEREAS, Savannah River Nuclear Solutions, LLC, Building 773-41A, Room 227, Aiken, South Carolina 29808, as assignee, is desirous of affirming its entire right, title and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application.

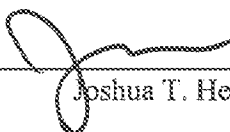
NOW, THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over to assignee, its lawful successors and assigns, as provided in our SRNS Employee Intellectual Property Agreements, our entire right, title, and interest in and to this invention and this application, and any and all divisions, and continuations thereof, and any and all Letters Patent of the United States which may be granted thereon, and any and all reissues and reexaminations thereof, and any and all rights to claim priority on the basis of such applications, and any and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and any and all Letters Patent which may be granted on this invention in any foreign country, and any and all extensions, renewals, reexaminations, and reissues thereof, and any and all rights to sue and recover for past, present, and future infringement thereof, and we hereby authorize and request the Commissioner for Patents of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue any and all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Affirmation Agreement.

AND, WE HEREBY covenant that we had the full right to convey the interest(s) assigned in our SRNS Employee Intellectual Property Agreements, and that we have not executed, and will not execute, any agreement in conflict with that agreement or this Affirmation Agreement;

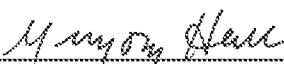
AND, WE HEREBY further covenant and agree, that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title of this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do

everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

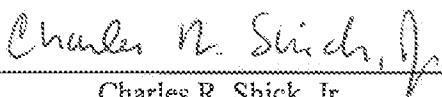
IN WITNESS WHEREOF, the Assignors have executed this document on the date indicated below:

  
\_\_\_\_\_  
Joshua T. Hewitt

15 Feb 2017  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Gregory Hall

15 Feb 2017  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Charles R. Shick, Jr.

2/15/2017  
\_\_\_\_\_  
Date