

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Young S. Ham	11/13/2009
Shivakaumar Sitaraman	11/05/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Lawrence Livermore National Security, LLC
<b>Street Address:</b>	7000 East Avenue
<b>Internal Address:</b>	L-703
<b>City:</b>	Livermore
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94550
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12619791
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(925)423-2231
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	925/424-6897
Email:	nugent8@llnl.gov
Correspondent Name:	Eddie E. Scott/LLNS
Address Line 1:	7000 East Avenue
Address Line 2:	L-703
Address Line 4:	Livermore, CALIFORNIA 94550
ATTORNEY DOCKET NUMBER:	IL-11919
NAME OF SUBMITTER:	Eddie E. Scott

Total Attachments: 3  
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**PATENT  
 REEL: 023619 FRAME: 0393**

**CH \$40.00 12619791**

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### RECORDATION FORM COVER SHEET PATENTS ONLY

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)**

Young S. Ham  
Shivakaumar Sitaraman

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

**2. Name and address of receiving party(ies)**

Name: Lawrence Livermore National Security, LLC

Internal Address: L-703

Street Address: 7000 East Avenue

City: Livermore

State: CA

Country: USA Zip: 94550

Additional name(s) & address(es) attached?  Yes  No

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

Execution Date(s) 11/13/2009

Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

**4. Application or patent number(s):**  This document is being filed together with a new application.

A. Patent Application No.(s)  
12/619,791 filed 11/17/2009

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Eddie E. Scott/LLNS

Internal Address: L-703

Street Address: 7000 East Avenue

City: Livermore

State: CA Zip: 94550

Phone Number: 925/424-6897

Fax Number: 925/423-2231

Email Address: nugent8@linl.gov

**6. Total number of applications and patents involved:** One (1)

**7. Total fee (37 CFR 1.21(h) & 3.41)** \$ 40

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

**8. Payment Information**

Deposit Account Number 120695

Authorized User Name Wanda Nugent

**9. Signature:** \_\_\_\_\_ /Eddie E. Scott #25,220/ \_\_\_\_\_ 12/08/2009  
Signature Date

\_\_\_\_\_  
Eddie E. Scott  
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

**ASSIGNMENT**

LLNL Case No.: IL-11919

For good and valuable consideration the receipt of which is hereby acknowledged ASSIGNOR(s)

- |                              |                                       |
|------------------------------|---------------------------------------|
| 1. <u>Young S. Ham (USA)</u> | 2. <u>Shivakaumar Sitaraman (USA)</u> |
| 3. _____                     | 4. _____                              |
| 5. _____                     | 6. _____                              |
| 7. _____                     | 8. _____                              |
| 9. _____                     | 10. _____                             |

hereby sells, assigns and transfers to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware Corporation, having its administrative offices located at Sunset Plaza Building C, 1658 Holmes St., Livermore, CA 94551 and the successors, assigns and legal representative of the ASSIGNEE all of its right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

**DETECTING PIN DIVERSION FROM PRESSURIZED WATER REACTORS SPENT FUEL ASSEMBLIES**

and which is found in

- U.S. patent application executed on 11/13/2009, entitled as above and listing the above named persons as inventors
- U.S. patent application serial no. 12/619,791, filed on 11/17/2009
- U. S. patent no. \_\_\_\_\_, issued \_\_\_\_\_

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

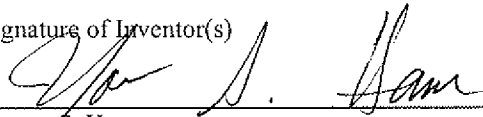
ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, Lawrence Livermore National Security, LLC.

executed this

Nov 13, 2009  
Date


Signature of Inventor(s)

  
\_\_\_\_\_  
Young S. Ham

executed this

Nov 5, 2009  
Date

Signature of Inventor(s)

  
Shivakumar Sitaraman . .