

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Christopher P. J. Barty</td> <td>07/22/2009</td> </tr> <tr> <td>Frederic V. Hartemann</td> <td>12/02/2009</td> </tr> <tr> <td>Dennis P. McNabb</td> <td>07/27/2009</td> </tr> <tr> <td>Jason K. Pruet</td> <td>09/18/2009</td> </tr> </tbody> </table>		Name	Execution Date	Christopher P. J. Barty	07/22/2009	Frederic V. Hartemann	12/02/2009	Dennis P. McNabb	07/27/2009	Jason K. Pruet	09/18/2009		
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RECEIVING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Lawrence Livermore National Security, LLC</td> </tr> <tr> <td>Street Address:</td> <td>1658 Holmes Street</td> </tr> <tr> <td>Internal Address:</td> <td>L-703</td> </tr> <tr> <td>City:</td> <td>Livermore</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94551</td> </tr> </table>		Name:	Lawrence Livermore National Security, LLC	Street Address:	1658 Holmes Street	Internal Address:	L-703	City:	Livermore	State/Country:	CALIFORNIA	Postal Code:	94551
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: (925)423-2231</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 925-422-7073</p> <p>Email: clinkenbeard3@llnl.gov</p> <p>Correspondent Name: LLNS / John P. Wooldridge John H. Lee, A</p> <p>Address Line 1: L-703, P.O Box 808</p> <p>Address Line 4: Livermore, CALIFORNIA 94551</p>													
ATTORNEY DOCKET NUMBER:	IL-12125												
NAME OF SUBMITTER:	John H. Lee												

CH \$40.00 12506639

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PATENT
REEL: 023602 FRAME: 0742

Total Attachments: 4

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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)

1. Christopher P. J. Barty
2. Frederic V. Hartemann
3. Dennis P. McNabb
4. Jason A. Pruet

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: Sunset Plaza Building C

Street Address: 1658 Holmes Street

City: Livermore

State: California

Country: US Zip: 94551

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

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

Execution Date(s) 12/2/2009

☒ 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)

12/506639

B. Patent No.(s)

NA

Additional numbers attached? ☐ Yes ☒ No

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

Name: John H. Lee/LLNL

Internal Address: L-703

Street Address: 7000 East Avenue

City: Livermore

State: California Zip: 94550

Phone Number: 925 422-7272

Fax Number: 925 423-2231

Email Address: clinkenbeard3@llnl.gov

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 12-0695

Authorized User Name Linda Clinkenbeard

9. Signature:

/John H. Lee, #53193/

Signature

December 3, 2009

Date

John H. Lee

Name of Person Signing

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

4

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-12125

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

1. <u>Christopher P. J. Barty</u>	2. <u>Frederic V. Hartemann</u>
3. <u>Dennis P. McNabb</u>	4. <u>Jason A. Pruet</u>
5. <u>//</u>	6. <u>//</u>
7. <u>//</u>	8. <u>//</u>
9. <u>//</u>	10. <u>//</u>

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:

DUAL ISOTOPE NOTCH OBSERVER FOR ISOTOPE FOR IDENTIFICATION, ASSAY AND IMAGING WITH MONO-ENERGETIC GAMMA-RAY SOURCES

and which is found in

- ☒ U.S. patent application executed on _____, entitled as above and listing the above named persons as inventors
- ☐ U.S. patent application serial no. _____, filed on _____
- ☐ 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;

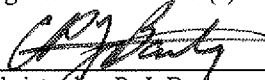
ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, 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

July 22, 2009
Date

Signature of Inventor(s)


Christopher P. J. Barty

executed this

12/02/2009

Date

Signature of Inventor(s)

Frederic V. Hartemann

executed this

7/27/09

Date

Signature of Inventor(s)

Dennis P. McNabb

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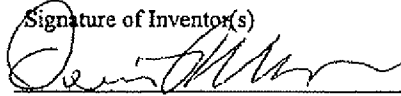
Signature of Inventor(s)

Frederic V. Hartmann

executed this

7/27/09
Date

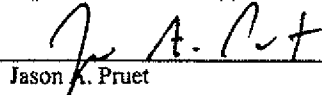
Signature of Inventor(s)


Dennis P. McNabb

executed this

9/18/09
Date

Signature of Inventor(s)


Jason A. Pruet