

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Natalia P. Zaitseva</td> <td>07/27/2012</td> </tr> <tr> <td>M Leslie Carman</td> <td>01/30/2013</td> </tr> <tr> <td>Nerine Cherepy</td> <td>08/02/2012</td> </tr> <tr> <td>Andrew M. Glenn</td> <td>08/03/2012</td> </tr> <tr> <td>Sebastien Hamel</td> <td>07/26/2012</td> </tr> <tr> <td>Stephen A. Payne</td> <td>07/29/2012</td> </tr> <tr> <td>Benjamin L. Rupert</td> <td>01/29/2013</td> </tr> </tbody> </table>		Name	Execution Date	Natalia P. Zaitseva	07/27/2012	M Leslie Carman	01/30/2013	Nerine Cherepy	08/02/2012	Andrew M. Glenn	08/03/2012	Sebastien Hamel	07/26/2012	Stephen A. Payne	07/29/2012	Benjamin L. Rupert	01/29/2013
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<table border="1"> <tr> <td>Name:</td> <td>Lawrence Livermore National Security, LLC</td> </tr> <tr> <td>Street Address:</td> <td>2300 First Street, Suite 204</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>94550</td> </tr> </table>		Name:	Lawrence Livermore National Security, LLC	Street Address:	2300 First Street, Suite 204	City:	Livermore	State/Country:	CALIFORNIA	Postal Code:	94550						
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CORRESPONDENCE DATA																	
Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Email: yu25@llnl.gov Correspondent Name: Mark H. Lough/LLNS Address Line 1: 7000 East Avenue Address Line 4: Livermore,, CALIFORNIA 94550																	
ATTORNEY DOCKET NUMBER:	IL-12404																

NAME OF SUBMITTER:

Mark H. Lough

Total Attachments: 7

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ASSIGNMENT

LLNL Case No.: IL-12404

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

1. <u>Natalia P. Zaitseva</u>	2. <u>M Leslie Carman</u>
3. <u>Nerine Cherepy</u>	4. <u>Andrew M. Glenn</u>
5. <u>Sebastien Hamel</u>	6. <u>Stephen A. Payne</u>
7. <u>Benjamin L. Rupert</u>	8. _____

hereby sells, assigns and transfers to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware Corporation, having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550 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:

PLASTIC SCINTILLATOR WITH EFFECTIVE PULSE SHAPE DISCRIMINATION FOR NEUTRON AND GAMMA DETECTION

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. 13437836, filed on 04-02-2012
- ☒ U.S. patent application serial no. 61476071, filed on 4-15-2011
- ☐ 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

Signature of Inventor(s)

07.27.2012

Date

N. Zaitseva

Natalia P. Zaitseva

executed this

1-30-2013

Date

Signature of Inventor(s)



M Leslie Carman

executed this

Date

Signature of Inventor(s)

Nerine Cherepy

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Benjamin L. Rupert

IL-12404

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Date

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M Leslie Carman

executed this

Aug 2, 2012
Date

Signature of Inventor(s)

Nerine Cherepy
Nerine Cherepy

executed this

Date

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Andrew M. Glenn

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8-3-2012

Date

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7/26/12

Date

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Sebastien Hamel

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7-25-2012

Date

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Sebastien Hamel

executed this

Date

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Stephen A. Payne

executed this

Jan 29th 2013
Date

Signature of Inventor(s)

Benjamin L. Rupert
Benjamin L. Rupert