

## 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>Christopher Spadaccini</td> <td>12/15/2011</td> </tr> <tr> <td>Neil Reginald Beer</td> <td>12/12/2011</td> </tr> </tbody> </table>		Name	Execution Date	Christopher Spadaccini	12/15/2011	Neil Reginald Beer	12/12/2011
Name	Execution Date						
Christopher Spadaccini	12/15/2011						
Neil Reginald Beer	12/12/2011						
RECEIVING PARTY DATA							
Name:	Lawrence Livermore National Security, LLC						
Street Address:	2300 First Street, Suite 204						
City:	Livermore						
State/Country:	CALIFORNIA						
Postal Code:	94550						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13267777</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13267777		
Property Type	Number						
Application Number:	13267777						
CORRESPONDENCE DATA							
Fax Number:	(925)423-2231						
Email:	yu25@llnl.gov						
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Address Line 4:	Livermore, CALIFORNIA 94551						
ATTORNEY DOCKET NUMBER:	IL-12275						
NAME OF SUBMITTER:	Mark H. Lough						
Total Attachments: 2 source=IL_12275_Assignment_filed_12_20_2011#page1.tif source=IL_12275_Assignment_filed_12_20_2011#page2.tif							

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**ASSIGNMENT**

LLNL Case No.: IL-12275

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

- 1. Christopher Spadaccini
- 2. Neil Reginald Beer

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:

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and which is found in

- U.S. patent application no. 13/267,777 , filed 10-06-2011 , entitled as above and listing the above named persons as inventors, which claims priority from
- U.S. provisional patent application no. 61/390,383 , filed on 10-06-2010
- U.S. provisional patent application no. 61/390,415 , filed on 10-06-2010
- U.S. provisional patent application no. 61/390,425 , filed on 10-06-2010
- U.S. provisional patent application no. 61/390,433 , filed on 10-06-2010
- U.S. provisional patent application no. 61/390,441 , filed on 10-06-2010
- U.S. provisional patent application no. 61/390,452 , filed on 10-06-2010
- U.S. provisional patent application no. 61/512,393 , filed on 07-21-2011

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;

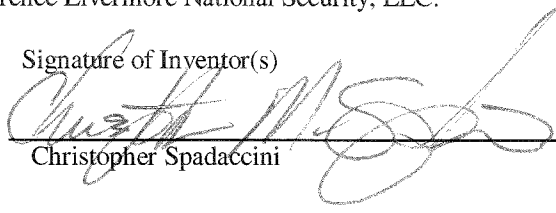
ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation,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

12/15/2011  
Date

Signature of Inventor(s)

  
\_\_\_\_\_  
Christopher Spadaccini

\_\_\_\_\_  
Date

\_\_\_\_\_  
Neil Reginald Beer

