

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2907037

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
SEQUENCE:	1	
CONVEYING PARTY DATA		
	Name	Execution Date
	MARK S. ROWLAND	06/19/2014
	NEAL J. SNYDERMAN	06/19/2014
RECEIVING PARTY DATA		
Name:	Lawrence Livermore National Security, LLC	
Street Address:	2300 First Street	
Internal Address:	Suite 204	
City:	Livermore	
State/Country:	CALIFORNIA	
Postal Code:	94550	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	14298406
CORRESPONDENCE DATA		
Fax Number:	(925)423-2231	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	925-422-7272	
Email:	disney2@llnl.gov	
Correspondent Name:	LAWRENCE LIVERMORE NATIONAL LABORATORY	
Address Line 1:	7000 EAST AVENUE	
Address Line 2:	L-703, P.O. BOX 808	
Address Line 4:	LIVERMORE, CALIFORNIA 94551	
ATTORNEY DOCKET NUMBER:	IL-10982B	
NAME OF SUBMITTER:	MARK H. LOUGH	
SIGNATURE:	/Mark H. Lough/	
DATE SIGNED:	06/20/2014	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 4		
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source=IL-10982B_AssignDecl_Snyderman#page1.tif
source=IL-10982B_AssignDecl_Snyderman#page2.tif

DECLARATION AND ASSIGNMENT BY INVENTOR
UNDER 37 CFR §1.63

Title of Invention: **NEUTRON DETECTION USING POISSON DISTRIBUTION COMPARISON
INDEPENDENT OF COUNT RATE BASED ON CORRELATION SIGNALS**

I, Mark S. Rowland, hereby declare that:

1. This declaration is directed to:

- ☐ the attached application identified as Attorney Docket No. _____
- ☒ United States application or PCT international application number 14/298,406 filed on 6/6/2014 and identified as Attorney Docket No. IL-10982B
- ☐ As amended on _____ (if applicable).

2. I believe I am the original inventor or an original joint inventor of a claimed invention in the patent application identified in Section 1 ("Patent Application").

3. I made or authorized to make the Patent Application.

4. I have reviewed and understand the contents of the Patent Application including the claims.

5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

6. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

7. ASSIGNMENT

For good and valuable consideration the receipt of which is hereby acknowledged, I hereby sell, assign, transfer, and convey to Lawrence Livermore National Security, LLC., a Delaware corporation having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550, and its successors, legal representatives and assigns (collectively, "Assignee"), the entire right, title and interest throughout the world in and to the following (collectively, "Rights"):

- (a) all inventions and improvements claimed and/or disclosed in the Patent Application, in provisional application _____, filed _____, from which the Patent Application claims priority, and in any and all divisional, continuation, continuation-in-part, and substitute applications based on the Patent Application.
- (b) the Patent Application, the provisional application _____, filed _____, from which the Patent Application claims priority, and any and all divisional, continuation, continuation-in-part, and substitute applications based on the Patent Application (collectively, "Related Applications").
- (c) any and all patent(s) which may be granted in the United States, its territories, dependencies and possessions, for the inventions and improvements claimed and/or disclosed in the Related Applications, for the full term or terms for which the same may be granted.

- (d) any and all patent(s) resulting from extension, renewal, reinstatement, reissue or reexamination, or any interference, opposition, or judicial proceeding, directed to any of the Related Applications or any patent described above, for the full term or terms for which the same may be granted.
- (e) any foreign equivalent or counterpart of any of the Related Applications or of any of the patent(s) described above, including without limitation, certificates of invention, utility models, and design registrations.
- (f) the right to claim priority based on the filing dates of the Related Applications or any of the patent(s) described above, under, but not limited to, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
- (g) the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights.

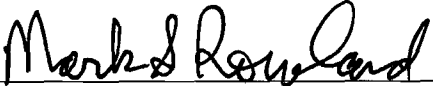
In addition, I hereby confirm the sale, assignment, transfer and conveyance to the Assignee of the entire right, title and interest throughout the world in the Rights, including the inventions and improvements, that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, transfer and convey any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment.

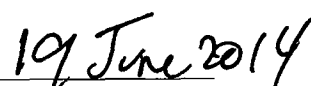
I further covenant to provide reasonable assistance to the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I hereby authorize and request the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances, and any reissue or extension thereof, that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

8. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.



Mark S. Rowland



Date

DECLARATION AND ASSIGNMENT BY INVENTOR
UNDER 37 CFR §1.63

Title of Invention: **NEUTRON DETECTION USING POISSON DISTRIBUTION COMPARISON
INDEPENDENT OF COUNT RATE BASED ON CORRELATION SIGNALS**

I, Neal J. Snyderman, hereby declare that:

1. This declaration is directed to:

- ☐ the attached application identified as Attorney Docket No. _____
☒ United States application or PCT international application number 14/298,406 filed on 6/6/2014 and
identified as Attorney Docket No. IL-10982B
☐ As amended on _____ (if applicable).

2. I believe I am the original inventor or an original joint inventor of a claimed invention in the patent application identified in Section 1 ("Patent Application").

3. I made or authorized to make the Patent Application.

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- (a) all inventions and improvements claimed and/or disclosed in the Patent Application, in provisional application _____, filed _____, from which the Patent Application claims priority, and in any and all divisional, continuation, continuation-in-part, and substitute applications based on the Patent Application.
- (b) the Patent Application, the provisional application _____, filed _____, from which the Patent Application claims priority, and any and all divisional, continuation, continuation-in-part, and substitute applications based on the Patent Application (collectively, "Related Applications").
- (c) any and all patent(s) which may be granted in the United States, its territories, dependencies and possessions, for the inventions and improvements claimed and/or disclosed in the Related Applications, for the full term or terms for which the same may be granted.

- (d) any and all patent(s) resulting from extension, renewal, reinstatement, reissue or reexamination, or any interference, opposition, or judicial proceeding, directed to any of the Related Applications or any patent described above, for the full term or terms for which the same may be granted.
- (e) any foreign equivalent or counterpart of any of the Related Applications or of any of the patent(s) described above, including without limitation, certificates of invention, utility models, and design registrations.
- (f) the right to claim priority based on the filing dates of the Related Applications or any of the patent(s) described above, under, but not limited to, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
- (g) the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights.

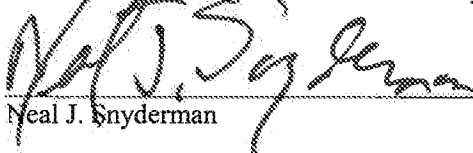
In addition, I hereby confirm the sale, assignment, transfer and conveyance to the Assignee of the entire right, title and interest throughout the world in the Rights, including the inventions and improvements, that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, transfer and convey any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment.

I further covenant to provide reasonable assistance to the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I hereby authorize and request the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances, and any reissue or extension thereof, that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

8. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.


Neal J. Snyderman

6/19/14
Date