

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4101780

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	L. JONATHAN DOWELL	11/15/2013
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	LOS ALAMOS NATIONAL SECURITY, LLC	
<b>Street Address:</b>	LOS ALAMOS NATIONAL LABORATORY, LC/IP	
<b>City:</b>	LOS ALAMOS	
<b>State/Country:</b>	NEW MEXICO	
<b>Postal Code:</b>	87545	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	14328535
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(503)595-5301	
<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>		
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<b>ATTORNEY DOCKET NUMBER:</b>	8472-91832-01	
<b>NAME OF SUBMITTER:</b>	CHRISTOPHER S. DUNCAN, 64,287	
<b>SIGNATURE:</b>	/Christopher S. Duncan/	
<b>DATE SIGNED:</b>	10/18/2016	
<b>Total Attachments: 2</b>		
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source=91832-01 Assignment#page2.tif		

**ASSIGNMENT**

DOE S-129,820

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

1. L. Jonathan Dowell

hereby sells, assigns and transfers to ASSIGNEE, Los Alamos National Security, LLC, a Delaware Limited Liability Company, having its statewide administrative offices located at Los Alamos National Laboratory, LC/IP, Los Alamos, New Mexico 87545, and the successors, assigns and legal representatives 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 titled:

**DIRECTIONAL RADIATION DETECTORS**

and which is found in

- (a) ☐ U.S. patent application executed on \_\_\_\_\_, entitled as above and listing the above-named person(s) as inventor(s)
- (b) ☒ U.S. application Serial No. 14/042,289, filed on September 30, 2013.
- (c) ☐ U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_
- (d) ☒ U.S. provisional application Serial No. 61/785,043 filed on March 14, 2013, entitled as above and listing the above-named person(s) as inventor(s)

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.

**PATENT****REEL: 040045 FRAME: 0891**

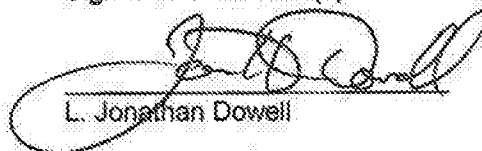
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AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, Los Alamos National Security, LLC.

executed this

15 day of November, 2013

Signature of Inventor(s)

  
L. Jonathan Dowell