

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4253087

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
EVA RACHEL BIRNBAUM	10/31/2014
JONATHAN W. ENGLE	11/12/2014
FRANCOIS MEIRING NORTIER	11/12/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LOS ALAMOS NATIONAL SECURITY, LLC
<b>Street Address:</b>	LOS ALAMOS NATIONAL LABORATORY, LC/TAS
<b>Internal Address:</b>	P.O. BOX 1663, MAIL STOP A187
<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>
<b>Application Number:</b>	15420058
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(626)577-8800
<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>	
<b>Phone:</b>	626-795-9900
<b>Email:</b>	pto@lrrc.com
<b>Correspondent Name:</b>	LEWIS ROCA ROTHGERBER CHRISTIE LLP
<b>Address Line 1:</b>	P.O. BOX 29001
<b>Address Line 4:</b>	GLENDALE, CALIFORNIA 91209-9001
<b>ATTORNEY DOCKET NUMBER:</b>	134912/LANS (S133080.002)
<b>NAME OF SUBMITTER:</b>	JENNIFER GUERRA
<b>SIGNATURE:</b>	/Jennifer Guerra/
<b>DATE SIGNED:</b>	01/31/2017
<b>Total Attachments: 6</b>	
source=assignment-pat-34170-640#page1.tif	
source=assignment-pat-34170-640#page2.tif	
source=assignment-pat-34170-640#page3.tif	

source=assignment-pat-34170-640#page4.tif

source=assignment-pat-34170-640#page5.tif

source=assignment-pat-34170-640#page6.tif

**ASSIGNMENT**

WHEREAS, I, **Eva Rachel Birnbaum**, a citizen of **United States**, residing at **1930 Camino Mora, Los Alamos, New Mexico 87544**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **105069.000043 / S-133,080** ("the invention"), assigned application number **14/507,094** filed on **October 6, 2014**, entitled **ACTINIUM-225 COMPOSITIONS OF MATTER AND METHODS OF THEIR USE** ("the subject application"); which claims benefit of application number **61/887,510** filed **October 7, 2013** ("the priority application");

AND WHEREAS, **Los Alamos National Security, LLC**, ASSIGNEE, having a place of business at **Los Alamos National Laboratory, PPO. Box 1663, LC/IP, MS A187, Los Alamos, New Mexico 87545**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming

the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 31<sup>st</sup> day of October, year of 2014.

  
Signature – Eva Rachel Birnbaum

\*\*\*\*\*

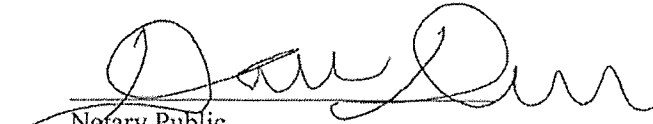
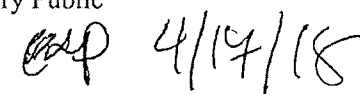
**STATEMENT OF NOTARY PUBLIC**

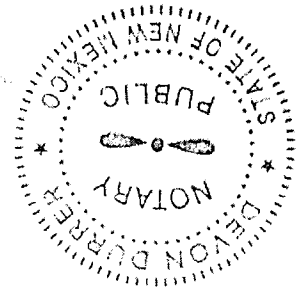
STATE OF New Mexico:

: SS

COUNTY OF Los Alamos :

On this 31 day of October, year of 2014, before me personally came the above named **Eva Rachel Birnbaum** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

  
Notary Public  




**ASSIGNMENT**

WHEREAS, I, **Jonathan W. Engle**, a citizen of **United States**, residing at **852 Kristi Lane, Los Alamos, New Mexico 87544**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **105069.000043 / S-133,080** ("the invention"), assigned application number **14/507,094** filed on **October 6, 2014**, entitled **ACTINIUM-225 COMPOSITIONS OF MATTER AND METHODS OF THEIR USE** ("the subject application"); which claims benefit of application number **61/887,510** filed **October 7, 2013** ("the priority application");

AND WHEREAS, **Los Alamos National Security, LLC**, ASSIGNEE, having a place of business at **Los Alamos National Laboratory, PPO. Box 1663, LC/IP, MS A187, Los Alamos, New Mexico 87545**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.


AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming

the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 12<sup>th</sup> day of NOVEMBER, year of 2014.

  
\_\_\_\_\_  
Signature – Jonathan W. Engle

\*\*\*\*\*

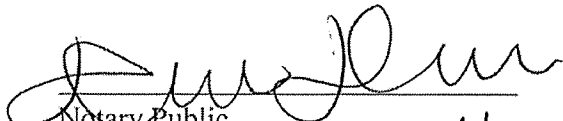
**STATEMENT OF NOTARY PUBLIC**

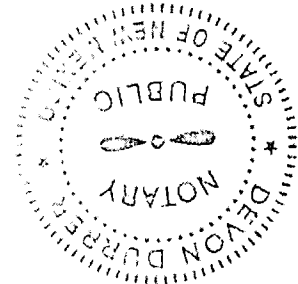
STATE OF New Mexico :

: SS

COUNTY OF Los Alamos :

On this 12 day of November, year of 2014, before me personally came the above named **Jonathan W. Engle** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

  
\_\_\_\_\_  
Notary Public  
ap 4/17/18



**ASSIGNMENT**

WHEREAS, I, **Francois Meiring Nortier**, a citizen of **United States**, residing at **2400 Canyon Glen Road, Los Alamos, New Mexico 87544**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **105069.000043 / S-133,080** ("the invention"), assigned application number **14/507,094** filed on **October 6, 2014**, entitled **ACTINIUM-225 COMPOSITIONS OF MATTER AND METHODS OF THEIR USE** ("the subject application"); which claims benefit of application number **61/887,510** filed **October 7, 2013** ("the priority application");

AND WHEREAS, **Los Alamos National Security, LLC**, ASSIGNEE, having a place of business at **Los Alamos National Laboratory, PPO. Box 1663, LC/IP, MS A187, Los Alamos, New Mexico 87545**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

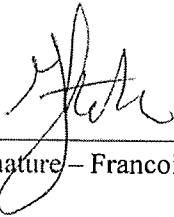
AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming

DOCKET NO.: 105069.000043 / S-133,080

the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 12<sup>th</sup> day of November, year of 2014.



Signature— Francois Meiring Nortier

\*\*\*\*\*

**STATEMENT OF NOTARY PUBLIC**

STATE OF New Mexico :

: SS

COUNTY OF Los Alamos :

On this 12 day of November, year of 2014, before me personally came the above named **Francois Meiring Nortier** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

  
Notary Public

sep 4/14/14

