## 505241947 12/18/2018

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
STEPHEN W. HOWELL	11/28/2018
DAVID W. PETERS	12/11/2018
THOMAS EDWIN BEECHEM III	12/17/2018
ISAAC RUIZ	12/11/2018
RICHARD KARL HARRISON	12/11/2018
JEFFREY B. MARTIN	12/17/2018

### **RECEIVING PARTY DATA**

Name:	NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF SANDIA, LLC
Street Address:	P.O. BOX 5800, MS-0161
City:	ALBUQUERQUE
State/Country:	NEW MEXICO
Postal Code:	87185

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16162756

### **CORRESPONDENCE DATA**

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Correspondent Name: SANDIA NATIONAL LABORATORIES

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Address Line 4: ALBUQUERQUE, NEW MEXICO 87185

ATTORNEY DOCKET NUMBER:	SD14080.1/S146073
NAME OF SUBMITTER:	DIANA SCHANNING
SIGNATURE:	/Diana Schanning/
DATE SIGNED:	12/18/2018

PATENT 505241947 REEL: 047804 FRAME: 0394

# **Total Attachments: 5**source=SD14080\_1\_S146073\_FullyExecuted\_Assignment#page1.tif source=SD14080\_1\_S146073\_FullyExecuted\_Assignment#page2.tif source=SD14080\_1\_S146073\_FullyExecuted\_Assignment#page3.tif source=SD14080\_1\_S146073\_FullyExecuted\_Assignment#page4.tif

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PATENT REEL: 047804 FRAME: 0395

## **ASSIGNMENT**

WHEREAS Stephen W. Howell of Bloomington, IN, David W. Peters, Thomas Edwin Beechem III, Isaac Ruiz, Richard Karl Harrison and Jeffrey B. Martin, of Albuquerque, NM (hereinafter "Inventor(s)") has(have) made an invention relating to RADIATION DETECTOR USING A GRAPHENE AMPLIFIER LAYER in the course of the work authorized by Contract DE-NA0003525 between NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF SANDIA, LLC ("NTESS") and the UNITED STATES DEPARTMENT OF ENERGY/NATIONAL NUCLEAR SECURITY ADMINISTRATION ("DOE/NNSA"), said invention being disclosed and claimed in Application Serial No. 16/162,756 for United States patent, filed October 17, 2018 and identified as DOE/NNSA Docket No: S-146073 doly executed by said inventor(s); and

WHEREAS Inventor(s), in consideration of employment by NTESS, has(have) assigned to NTESS, its successors and assigns, all of Inventor(s) rights to inventions, discoveries, or improvements made or conceived in the course of their employment; and

WHEREAS, title to the above-identified invention vests in the Government of the United States, as represented by DOE/NNSA, as governed by 42 U.S.C. 5908; and

WHEREAS, the Government of the United States, as represented by DOE/NNSA has granted a waiver of Government rights in the above-identified invention to NTESS; and

THEREFORE, Inventor(s) hereby sells, assigns, and transfers unto NTESS their entire right, title, and interest in and to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, and in and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, utilities, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said invention in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent, to the extent that Inventor(s) right, title, and interest in and to said invention has(have) not already been sold, assigned, or transferred to NTESS Corporation by Inventor(s) in consideration of Inventor(s) employment by NTESS. Inventor(s) hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to NTESS, for its interest as NTESS, its successors and assigns.

Inventor(s) covenants with NTESS that, except for the rights, if any, of the Government, his/her interest in the rights and property herein conveyed is free and clear of any encumbrance and that they have full right to convey the same as herein expressed. Inventor(s) agrees, at the request of NTESS, to make, execute, and deliver to NTESS, the Government, or other party prosecuting patent applications on

Page 1 of 3

this invention, any and all papers, documents, affidavits, applications, statements or other instruments relating to said invention, take all rightful oaths and do all acts as may reasonably be required of them in or incident to the prosecution of any or all U.S. and foreign applications on said invention or in the adjustment or settlement of any interferences or other actions or proceedings that said applications or patents thereon may encounter or in which they may become involved.

Signed at Albuquerque, New Mexico.	
Darid W. Petro	Dec. 11, 7018
David W. Péters	Date
72 2/3/s	Dec. 17,2018
Thomas: Edwin Beechem III	Date
	Dec 11, 2018
Isaac Ruiz	Date
Richard Hoffmund	Dec. 11th 2018
Richard Karl Harrison	Date
4/1 1. 11 5	December 17, 2018
Jeffrey B. Martin	Date
STATE OF NEW MEXICO )	
1 60:	

On the above dates, personally appeared before me, Diana Schanning, Notary Public, Howell, David W. Peters, Thomas Edwin Beechem III, Isaac Ruiz, Richard Karl Harrison and Jeffrey B. Martin, to me known to be the individual(s) described in and who executed the foregoing instrument, and who acknowledged to me that they executed the same.

COUNTY OF BERNALILLO)

OFFICIAL SEAL

Diana Schanning

NOTARY PUBLIC

STATE OF NW MEACO

My Commission Expires:

#### ASSIGNMENT

WHEREAS Stephen W. Howell of Bloomington, IN, David W. Peters, Thomas Edwin Becchem III, Issac Ruiz, Richard Karl Harrison and Jeffrey B. Martin, of Albuquerque, NM (hereinafter "inventor(s)") has(have) made an invention relating to RADIATION DETECTOR USING A GRAPHENE AMPLIFIER LAYER in the course of the work authorized by Contract DE-NA0003525 between NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF SANDIA, LLC ("NTESS") and the UNITED STATES DEPARTMENT OF ENERGY/NATIONAL NUCLEAR SECURITY ADMINISTRATION ("DOE/NNSA"), said invention being disclosed and claimed in Application Serial No. 16/162,756 for United States patent, filed October 17, 2018 and identified as DOE/NNSA Docket No. 8-146073 duly executed by said inventor(s); and

WHEREAS inventor(s), in consideration of employment by NTESS, has(have) assigned to NTESS, its successors and assigns, all of inventor(s) rights to inventions, discoveries, or improvements made or conceived in the course of their employment, and

WHEREAS, title to the above-identified invention vests in the Government of the United States, as represented by DOE/NNSA, as governed by 42 U.S.C. 5908; and

WHEREAS, the Government of the United States, as represented by DOE/NNSA has granted a waiver of Government rights in the above-identified invention to NTESS; and

THEREFORE, Inventor(s) hereby sells, assigns, and transfers unto NTESS their entire right, title, and interest in and to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, and in and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, utilities, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said invention in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent, to the extent that Inventor(s) right, title, and interest in and to said invention has(have) not already been sold, assigned, or transferred to NTESS Corporation by Inventor(s) in consideration of Inventor(s) employment by NTESS. Inventor(s) hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to NTESS, for its interest as NTESS, its successors and assigns.

Inventor(s) covenants with NTESS that, except for the rights, if any, of the Government, his/her interest in the rights and property herein conveyed is free and clear of any encombrance and that they have full right to convey the same as herein expressed. Inventor(s) agrees, at the request of NTESS, to

Page 1 of 4

make, execute, and deliver to NTESS, the Government, or other party prosecuting patent applications on this invention, any and all papers, documents, affidavits, applications, statements or other instruments relating to said invention, take all rightful oaths and do all acts as may reasonably be required of them in or incident to the prosecution of any or all U.S. and foreign applications on said invention or in the adjustment or settlement of any interferences or other actions or proceedings that said applications or patents thereon may encounter or in which they may become involved.

Signed at Bankington, Indiana.

The Handle Stephen W. Howell

<u>Nav 29th, 2019</u> Date

STATE OF INDIANA

33;

MOXEMATE DEEM COX

Commission Explores April 25, 2028 Seco Humber NPO/12872 Marane County

COUNTY OF MIDINAL

On this A day of November 2018, before me, the undersigned Notary Public, appeared Stephen W. Howell, who proved to me through satisfactory evidence of identification, that he is the person who signed on the preceding document in my presence.

/[Notar{ signar/lre,

My Commission Expires: <u>April 25</u> 2024

[Natary Public Scal]

Approved and consented by:

NATIONAL ENGINEERING

TECHNOLOGY SOLUTIONS

& OF

SANDIA, LLC

Kerry Kampschmidt

Chief IP Counsel

Legal Technology Transfer Center

STATE OF NEW MEXICO )

) ss:

COUNTY OF BERNALILLO)

On the above date, personally appeared before me, Diana Schanning, Notary Public, **Kerry Kampschmidt**, to me known to be the individual described in and who executed the foregoing instrument, and who acknowledged to me that he executed the same.

Notary Public

P

OFFICIAL SEAL

Diana Schanning

NOTARY PUBLIC STATE OF NEW MEXI

My Commission Expires:

Page 3 of 3

PATENT REEL: 047804 FRAME: 0400