

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5104949

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ROBERT MEAGHER | 07/18/2018 |
| RONALD F. RENZI | 08/02/2018 |
| CAMERON SCOTT BALL | 07/23/2018 |
| AASHISH PRIYE | 07/17/2018 |
| JONATHAN IVERS HELM | 07/30/2018 |
| BRYAN CARSON | 07/19/2018 |
| STANLEY ALAN LANGEVIN | 07/25/2018 |
| 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: | 15951920 |
| CORRESPONDENCE DATA | |
| Fax Number: | (505)844-9955 |
| <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)294-3143 |
| Email: | jlnguye@sandia.gov |
| Correspondent Name: | SANDIA NATIONAL LABORATORIES |
| Address Line 1: | 7011 EAST AVENUE |
| Address Line 2: | PO BOX 969, MS 9031 |
| Address Line 4: | LIVERMORE, CALIFORNIA 94551-9031 |
| ATTORNEY DOCKET NUMBER: | SD13973.1/S144905 |
| NAME OF SUBMITTER: | JASMIN NGUYEN |
| SIGNATURE: | /Jasmin Nguyen/ |

| | |
|--------------|------------|
| DATE SIGNED: | 08/22/2018 |
|--------------|------------|

Total Attachments: 15

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ASSIGNMENT

WHEREAS, **Robert Meagher of Mountain House, CA, Ronald F. Renzi of Rexford, NY, Cameron Scott Ball of Los Altos, CA, Aashish Priye of Livermore, CA, Jonathan Ivers Helm of Oakland, CA, Bryan Carson of Tijeras, NM, and Stanley Alan Langevin of Seattle, WA,** has(have) made an invention relating to **REAL TIME AUTONOMOUS SURVEILLANCE OF PATHOGENS**, 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, said invention being disclosed and claimed in **Application Serial No. 15/951,920** for United States patent, filed on **April 12, 2018** and identified as DOE Docket No: **S-144905** 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 the U.S. Department of Energy, as governed by 42 U.S.C. 5908; and

WHEREAS, the Government of the United States, as represented by the U.S. Department of Energy 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 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. They agree, at the request of NTESS, to 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 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 Livermore, California.

Robert J. Meagher
Robert Meagher

7-18-2018
Date

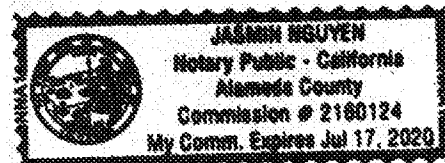
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss:
COUNTY OF ALAMEDA)

Subscribed and sworn to (or affirmed) before me on this 18th day of July, 2018,
by Robert Meagher, proved to me on the basis of satisfactory evidence to be the person(s) who
appeared before me.

Jasmin Nguyen
Notary Public signature

My commission expires: 7/17/2020



Approved and consented by:

NATIONAL TECHNOLOGY &
ENGINEERING SOLUTIONS OF
SANDIA, LLC

Date: 22 Aug 2018

Madelynne J. Farber
Madelynne J. Farber
Senior Patent & Licensing Attorney
Legal Technology Transfer Center

ASSIGNMENT

WHEREAS, **Robert Meagher of Mountain House, CA, Ronald F. Renzi of Rexford, NY, Cameron Scott Ball of Los Altos, CA, Aashish Priye of Livermore, CA, Jonathan Ivers Helm of Oakland, CA, Bryan Carson of Tijeras, NM, and Stanley Alan Langevin of Seattle, WA,** has(have) made an invention relating to **REAL TIME AUTONOMOUS SURVEILLANCE OF PATHOGENS**, 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, said invention being disclosed and claimed in **Application Serial No. 15/951,920** for United States patent, filed on **April 12, 2018** and identified as DOE Docket No: **S-144905** duly executed by said inventor(s) and

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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 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 15 Stony Brook Dr.
Rexford, New York.


Ronald F. Renzi

August 2, 2018
Date

STATE OF NEW YORK)

COUNTY OF Saratoga) ss:

Subscribed to and sworn before me this 2 day of August (month), 2018 (year),
by Ronald F. Renzi.

MICHAEL A. WALLACE
Notary Public, State of New York
No. 01446170704
Qualified in Saratoga County
Commission Expires Dec. 31, 2019

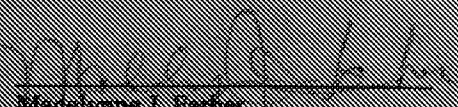

(Signature of Notary)

(Seal of Notary)

Approved and consented by:

NATIONAL TECHNOLOGY &
ENGINEERING SOLUTIONS OF
SANDIA, LLC

Date: 22 Aug 2018


Madelynn J. Farber
Senior Patent & Licensing Attorney
Legal Technology Transfer Center

ASSIGNMENT

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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 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 Sunnyvale, California.

Cameron Scott Ball
Cameron Scott Ball

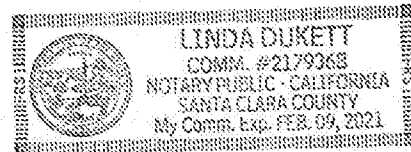
7/23/18
Date

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
COUNTY OF Santa Clara) ss:

Subscribed and sworn to (or affirmed) before me on this 23rd day of July, 2018,
by Cameron Scott Ball, proved to me on the basis of satisfactory evidence to be the person(s) who
appeared before me.

Linda Dukett
Notary Public signature
My commission expires: 07/09/2021



Approved and consented by:

NATIONAL TECHNOLOGY &
ENGINEERING SOLUTIONS OF
SANDIA, LLC

Date: 22 Aug 2018

Madelynne J. Farber
Madelynne J. Farber
Senior Patent & Licensing Attorney
Legal Technology Transfer Center

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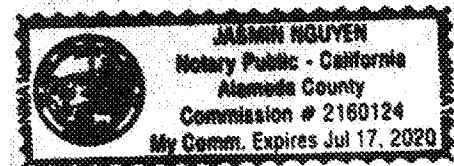
other instruments relating to said invention, take all rightful oaths and do all acts as may reasonably be required of them in or incident to the prosecution of any or all applications on said invention or in the adjustment or settlement of any interferences or other actions or proceedings that said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

Signed at Livermore, California.

Aashish Priye,
Aashish Priye

07/17/2018
Date

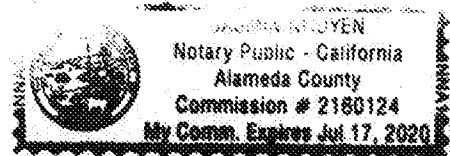
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.



STATE OF CALIFORNIA)
) ss:
COUNTY OF ALAMEDA)

Subscribed and sworn to (or affirmed) before me on this 17th day of July, 2018, by Aashish Priye, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

[Signature]
Notary Public signature



My commission expires: 7/17/2020

Approved and consented by:

NATIONAL TECHNOLOGY &
ENGINEERING SOLUTIONS OF
SANDIA, LLC

Date: 22 Aug 2018

[Signature]
Madelynn J. Farber
Senior Patent & Licensing Attorney
Legal Technology Transfer Center

ASSIGNMENT

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Signed at Alameda, California.


Jonathan Ivers Helm

7/30/2018

Date

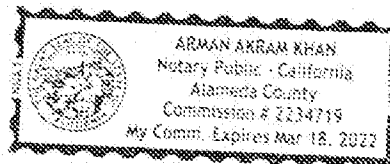
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss:
COUNTY OF ALAMEDA)

Subscribed and sworn to (or affirmed) before me on this 30 day of JULY, 2018,
by Jonathan Ivers Helm, proved to me on the basis of satisfactory evidence to be the person~~s~~ who
appeared before me.


Notary Public signature

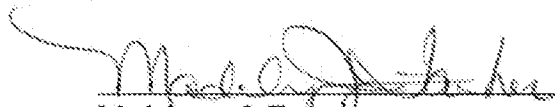
My commission expires: 3/18/2022



Approved and consented by:

NATIONAL TECHNOLOGY &
ENGINEERING SOLUTIONS OF
SANDIA, LLC

Date: 22 AUG 2018


Madelynn J. Farber
Senior Patent & Licensing Attorney
Legal Technology Transfer Center

ASSIGNMENT

WHEREAS, Robert Meagher of Mountain House, CA, Ronald F. Renzi of Rexford, NY, Cameron Scott Ball of Los Altos, CA, Aashish Priye of Livermore, CA, Jonathan Ivers Helm of Oakland, CA, Bryan Carson of Tijeras, NM, and Stanley Alan Langevin of Seattle, WA, has(have) made an invention relating to **REAL TIME AUTONOMOUS SURVEILLANCE OF PATHOGENS**, 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, said invention being disclosed and claimed in **Application Serial No. 15/951,920** for United States patent, filed on **April 12, 2018** and identified as DOE Docket No: **S-144905** duly executed by said inventor(s) and

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Signed at Albuquerque, California.


Bryan Carson

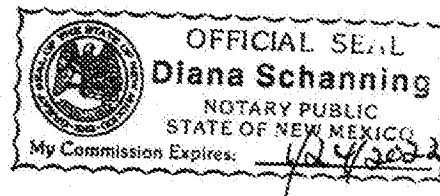
7/19/2018

Date

STATE OF NEW MEXICO)
) ss:
COUNTY OF BERNALILLO)

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

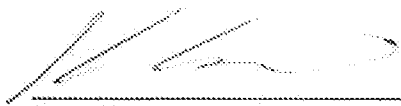

Notary Public



Approved and consented by:


NATIONAL TECHNOLOGY &
ENGINEERING SOLUTIONS OF
SANDIA, LLC

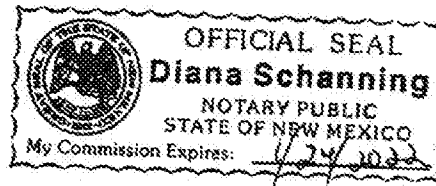
Date: 7/23/18


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



ASSIGNMENT

WHEREAS, Robert Meagher of Mountain House, CA, Ronald F. Renzi of Rexford, NY, Cameron Scott Ball of Los Altos, CA, Aashish Priye of Livermore, CA, Jonathan Ivers Helm of Oakland, CA, Bryan Carson of Tijeras, NM, and Stanley Alan Langevin of Shoreline, WA, has(have) made an invention relating to **REAL TIME AUTONOMOUS SURVEILLANCE OF PATHOGENS**, 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, said invention being disclosed and claimed in **Application Serial No. 15/951,920** for United States patent, filed on **April 12, 2018** and identified as DOE Docket No: **S-144905** 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 the U.S. Department of Energy, as governed by 42 U.S.C. 5908; and

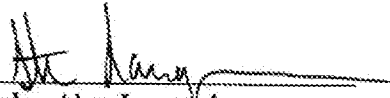
WHEREAS, the Government of the United States, as represented by the U.S. Department of Energy has granted a waiver of Government rights in the above-identified invention to NTESS; and

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 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. They agree, at the request of NTESS, to 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 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 Edmonds, Washington.

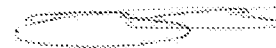

Stanley Alan Langevin

07/25/2018
Date

STATE OF WASHINGTON)
) ss:
COUNTY OF Snohomish)

Signed and sworn to (or affirmed) before me on 7 25 2018 [date] by
Stanley Alan Langevin.




(Signature)


NOTARY
Title

My appointment expires 9.1.2020

Approved and consented by:

NATIONAL TECHNOLOGY &
ENGINEERING SOLUTIONS OF
SANDIA, LLC

Date: 22 Aug 2018


Madelynn J. Farber/
Senior Patent & Licensing Attorney
Legal Technology Transfer Center