502096327 10/16/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Mark D. Allendorf	10/02/2012
Alex Robinson	10/02/2012

RECEIVING PARTY DATA

Name:	Sandia Corporation
Street Address:	P.O. Box 5800, MS-0161
Internal Address:	Legal Technology Transfer Center
City:	Albuquerque
State/Country:	NEW MEXICO
Postal Code:	87185

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13633772

CORRESPONDENCE DATA

5058441418 Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 505-284-0861 Email: nmishal@sandia.gov Correspondent Name: Sandia National Laboratories Address Line 1: P.O. Box 5800, MS-0161

Address Line 2: Legal Technology Transfer Center Address Line 4: Albuquerque, NEW MEXICO 87185

ATTORNEY DOCKET NUMBER:	SD12148.1
NAME OF SUBMITTER:	Madelynne J. Farber

Total Attachments: 4

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PATENT REEL: 029137 FRAME: 0980

ASSIGNMENT

WHEREAS, Mark D. Allendorf of Pleasanton, CA and Alex Robinson of Albuquerque, NM has(have) made an invention relating to Devices and Methods to Detect and Quantify Trace Gases, in the course of the work authorized by Contract DE-AC04-94AL85000 between SANDIA CORPORATION and the UNITED STATES DEPARTMENT OF ENERGY, said invention being disclosed and claimed in an application for United States patent, identified as DOE Docket No: S-129237 duly executed by said inventor(s) and

WHEREAS Inventor(s), in consideration of employment by Sandia Corporation, has(have) assigned to Sandia Corporation, 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 Sandia Corporation; and

THEREFORE, Inventor(s) hereby sells, assigns, and transfers unto Sandia Corporation their entire right, title, and interest in and to said invention and in and to all resulting patents, wherever they may be granted, as well as reissues or extensions of said patents, 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 Sandia Corporation by Inventor(s) in consideration of Inventor(s) employment by Sandia Corporation.

Inventor(s) covenants with Sandia Corporation 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 Sandia corporation, to make, execute, and deliver to Sandia Corporation, 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.

I hereby authorize and request my attorney, Madelynne J. Farber, of Sandia Corporation, Albuquerque, New Mexico, to insert here in parentheses (Application No. 13633772, filed 100220(2), the application number and filing date of said application when known.

PATENT REEL: 029137 FRAME: 0981

Signed at Livermore, Californi	a.
Mark D. Allendorf	<u>20/2/2012</u> Date
STATE OF CALIFORNIA	S\$:
COUNTY OF ALAMEDA	sa.
Subscribed and sworn to (or affir Mark D. Allendorf, proved to appeared before me. Omanha Notary Public signature	med) before me on this 2nd day of October, 2012, by me on the basis of satisfactory evidence to be the person(s) who SAMANTHA TARIN Commission # 1812003 Notary Public - Californis Alameds County My Comm. Expires Nov 4, 2018 Notary Public seal
Approved and consented to the	SANDIA CORPORATION By: Kerry Kampschmidt Chief IP Counsel Legal Technology Transfer Center

ASSIGNMENT

WHEREAS, Mark D. Allendorf of Pleasanton, CA and Alex Robinson of Albuquerque, NM has(have) made an invention relating to Devices and Methods to Detect and Quantify Trace Gases, in the course of the work authorized by Contract DE-AC04-94AL85000 between SANDIA CORPORATION and the UNITED STATES DEPARTMENT OF ENERGY, said invention being disclosed and claimed in an application for United States patent, identified as DOE Docket No: S-129237 duly executed by said inventor(s) and

WHEREAS Inventor(s), in consideration of employment by Sandia Corporation, has(have) assigned to Sandia Corporation, 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 Sandia Corporation; and

THEREFORE, Inventor(s) hereby sells, assigns, and transfers unto Sandia Corporation their entire right, title, and interest in and to said invention and in and to all resulting patents, wherever they may be granted, as well as reissues or extensions of said patents, 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 Sandia Corporation by Inventor(s) in consideration of Inventor(s) employment by Sandia Corporation.

Inventor(s) covenants with Sandia Corporation 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 Sandia corporation, to make, execute, and deliver to Sandia Corporation, 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.

I hereby authorize and request my attorney, Madelynne J. Farber, of Sandia Corporation, Albuquerque, New Mexico, to insert here in parentheses (Application No. 13/633,772, filed 10/02/2012), the application number and filing date of said application when known.

1

Signed at Albuquerque, New Mexico

Alex Robinson

10/02/2012 Date

STATE OF NEW MEXICO

) ss:

COUNTY OF BERNALILLO

On the above date, personally appeared before me, Najat Mishalanie, Notary Public, **Alex Robinson**, 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:

Dote: //

SANDIA CORPORATION

Kerry Kampschmidt

Chief IP Counsel

Legal Technology Transfer Center

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PATENT REEL: 029137 FRAME: 0984

RECORDED: 10/16/2012