505730002 10/18/2019

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| ERIC A. SHANER | 10/08/2019 |
| MICHAEL GOLDFLAM | 10/08/2019 |
| CLARK N. KADLEC | 10/16/2019 |

RECEIVING PARTY DATA

| Name: | NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF SANDIA, LLC |
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| City: | ALBUQUERQUE |
| State/Country: | NEW MEXICO |
| Postal Code: | 87185 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16543891 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | SD14807.1/S151462 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | DIANA SCHANNING |
| SIGNATURE: | /Diana Schanning/ |
| DATE SIGNED: | 10/18/2019 |

Total Attachments: 3

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PATENT REEL: 050759 FRAME: 0952 505730002

ASSIGNMENT

WHEREAS Eric A. Shaner of Rio Rancho, NM, Michael Goldflam and Clark N. Kadlec of Albuquerque, NM (hereinafter "Inventor(s)") has(have) made an invention relating to Apparatus and Methods to Measure Semiconductor Optical Absorption Using Microwave Charge Sensing 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. 16/543,891 for United States patent, filed August 19, 2019 and identified as DOE/NNSA Docket No: S-151462 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 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.

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|--------------|------|--------|-------|------|--|
| 1872 S.L. 14 | C13. | . 1:4: | | | |

Eric A. Shaner

Michael Goldflam

Clark N. Kadlec

10/8/2019

Date

101812014

Date

10/16/2019

Date

STATE OF NEW MEXICO

) ss:

COUNTY OF BERNALILLO)

On the above dates, personally appeared before me, Diana Schanning, Notary Public, Eric A. Shaner, Michael Goldflam and Clark N. Kadlec, 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.

Notary Public



Approved and consented by:

NATIONAL 'ENGINEERING

TECHNOLOGY SOLUTIONS

& OF

SANDIA, LLC

Kerry Kampschmidt

Chief IP Counsel

Legal Technology Transfer Center