

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | ARNOLD BURGER | 06/18/2014 |
| RECEIVING PARTY DATA | | |
| Name: | FISK UNIVERSITY | |
| Street Address: | 1000 17TH AVENUE NORTH | |
| City: | NASHVILLE | |
| State/Country: | TENNESSEE | |
| Postal Code: | 37208 | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Patent Number: | 7550735 |
| CORRESPONDENCE DATA | | |
| Fax Number: | (925)423-2231 | |
| <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: | 925-422-7272 | |
| Email: | disney2@llnl.gov | |
| Correspondent Name: | LLNL | |
| Address Line 1: | 7000 EAST AVENUE | |
| Address Line 2: | L-703, P.O. BOX 808 | |
| Address Line 4: | LIVERMORE, CALIFORNIA 94551 | |
| ATTORNEY DOCKET NUMBER: | IL-11648 | |
| NAME OF SUBMITTER: | MARK H. LOUGH | |
| SIGNATURE: | /Mark H. Lough/ | |
| DATE SIGNED: | 07/09/2014 | |
| Total Attachments: 1 | | |
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PATENT ASSIGNMENT

PATENT ASSIGNMENT made as of September 18, 2013 by Dr. Arnold Burger (the "Assignor") and Fisk University with an address at 1000 17th Avenue North, Nashville, Tennessee 37208 (the "Assignee"). Assignee is a Corporation of Tennessee.

Assignors (STEPHEN A. PAYNE, ARNOLD BURGER, and KRISHNA C. MANDAL) own all right, title and interest to GATE SEMICONDUCTOR RADIATION DETECTION, U.S. Pat. 7,550,735 B2, filed June 23, 2009 Application No.: 11/824,094, October 28, 2009 and any Letters Patent of the United States that issue based thereon (the "Patent"). Assignors wish to assign all right, title and interest to the Patent to Assignee.

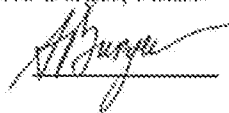
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignors do hereby sell, assign and transfer unto Assignee, its successors and assigns, the entire right, title and interest in and to all inventions, improvements, know-how and development associated with such Patent and the entire right, title and interest, including, without limitation, causes of action, if any, for monetary recovery of any kind, including past damages for infringement, in and to said Patent and in any re-issue, continuation, division or extension thereof, and all rights to sue therefore, the same to be held and enjoyed by Assignee for its own use, and for its legal representatives and assigns, as fully and entirely as the same would have been held by Assignors had this assignment in sale not been made.

Assignors agree to execute and deliver any further papers and do such other acts as may be necessary and proper to vest full title in and to the Patent in the Assignee. Moreover, Assignors warrant that Assignors are the rightful owner and there are no others who could make a claim against the rights being assigned, and that the rights being assigned are subsisting and are not assigned, licensed or otherwise diluted in any way. Furthermore, Assignors covenant that, if there are any disputes, actions, litigations, trials, or any other challenges related to the rights being assigned, then Assignors shall assist Assignee to the best of Assignors' ability.

Dr. Arnold Burger, Ph.D.

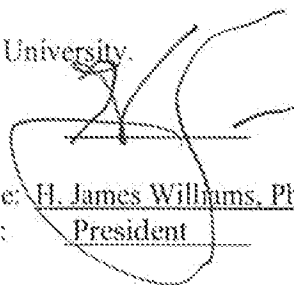
June 18, 2014

By:



Fisk University

By:



Name: H. James Williams, Ph.D.

Title: President