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LAWRENCE LIVERMORE NATIONAL SECURITY, LLC

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Execution Date(s) 11/19/2008

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☒ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: U.S. Department of Energy

Internal Address: GC-62 6F-067

Street Address: 1000 Independence Avenue, S.W.

City: Washington

State: D.C.

Country: _____ Zip: 20585-0162

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

12/259,198

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Brenda K. Banks

Internal Address: GC-62 6F-067

U.S. Department of Energy

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Email Address: brenda.banks@hq.doe.gov

6. Total number of applications and patents involved:

7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____

- ☐ Authorized to be charged to deposit account
☐ Enclosed
☒ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

Authorized User Name _____

9. Signature:

Brenda K Banks
Signature

12/10/08
Date

Brenda K. Banks

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

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12/259,198

CONFIRMATORY LICENSE

Title: Physics-Based, Bayesian Sequential Detection Method and System For Radioactive Contraband
Inventor(s): James V. Candy, Michael Charles Axelrod, Eric F. Breittfeller, David H. Chambers, Brian L. Guidry, Douglas R. Manatt, Alan W. Meyer, Kenneth E. Sale

DOE Docket No.: S114,331

Docket No./Sub: IL-11906/A

Contract Number: DE-AC52-07NA27344

U.S. Patent Application S.N.: 12/259198

Contractor: Lawrence Livermore National Security, LLC

Filing Date: 10/27/08

Lawrence Livermore National Laboratory

Waiver No.: W(C) 92-002

Foreign patent applications filed or intended to be filed at contractor's expense in (countries):

The Contractor certifies that a true copy of the provisions which govern patent rights in "subject inventions" under the above-identified contract is herewith submitted or has been submitted to the U.S. Department of Energy by certification dated June 15, 1999.

WHEREAS, the above-identified invention is a subject invention under the above-identified contract;

WHEREAS, the above-identified Class Waiver of Government rights in certain identified inventions and the above-identified contract provides the Contractor with the right to elect to retain title in certain subject inventions and the Contractor has elected to retain title in the above-identified subject invention, EXCEPT FOR a paid-up license under the above-identified contract and the above-identified waiver.

ACCORDINGLY, the Contractor hereby confirms that under the provisions of the above-identified contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world. This license applies to the above-identified invention, the above-identified patent application(s), and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

The Government reserves for itself, and is hereby granted by the Contractor, the irrevocable power to inspect and make copies of the file wrapper(s) of the above-identified U.S. patent application and of any related or continuation patent application(s), whether domestic or foreign, for the above-identified invention.

It is understood and agreed that this instrument does not preclude the Government from asserting rights under the provisions of the above-identified contract or any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

Signed on behalf of: LAWRENCE LIVERMORE NATIONAL SECURITY, LLC

(Contractor)

Witness:

Peter Murray, Paralegal

By:

11/19/2008

John Lee, Acting Deputy Laboratory
Counsel for Intellectual Property
Lawrence Livermore National Laboratory
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