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OMB No. 0651-0027 (exp. 6/30/2008)

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S-134,364

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1. Name of conveying party(ies)
The Regents of the University of California

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: United States Department of Energy
Internal Address: _____

3. Nature of conveyance/Execution Date(s):
Execution Date(s) January 3, 2013
 Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
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 Executive Order 9424, Confirmatory License
 Other _____

Street Address: 1000 Independence Ave., S.W

City: Washington
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4. Application or patent number(s): This document is being filed together with a new application.
A. Patent Application No.(s)
Serial No. 13/652,238

Additional numbers attached? Yes No

B. Patent No.(s)

5. Name and address to whom correspondence concerning document should be mailed:
Name: Mark P. Dvorscak
Internal Address: U. S. Dept. of Energy, IPLD
Street Address: 9800 S. Cass Ave
City: Argonne
State: IL Zip: 60439
Phone Number: 630-252-2393
Fax Number: 630-252-2779
Email Address: _____

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____
 Authorized to be charged by credit card
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 Enclosed
 None required (government interest not affecting title)

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9. Signature: _____ 5/30/2013
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Michael J. Dobbs #58,093 Total number of pages including cover sheet, attachments, and documents: **2**
Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
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PATENT

REEL: 030555 FRAME: 0464

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CONFIRMATORY LICENSE

Title: **Back-Side Readout Semiconductor Photomultiplier**
 Contractor: **The Regents of the University of California**
 Contract No: **DE-AC02-05CH11231**
 LBNL Docket No: **IB-3150** DOE Docket No.: **S-TBA**

Inventor(s): **Choong, Woon-Seng; Holland, Stephen E.** US Patent App No.: **13/652,238**
 Filing Date: **15-Oct-2012**
 U.S. Patent No.:
 Issue Date:

Foreign patent applications filed or intended to be filed at contractor's expense in (countries):
 (None)

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 October 29, 1996.

WHEREAS, the above-identified contract provides the Contractor with the right to elect to retain title in certain inventions and the Contractor has reported the above-identified invention as a subject invention under the contract, has elected to retain title therein, and has agreed to file a domestic patent application thereon, if not previously filed.

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: The Regents of the University of California, Lawrence Berkeley National Laboratory
 (Contractor)

Witnessed: Mark D. Menge (Signature) By: Stephen C. Glade (Contractor Official's Signature) 1/3/2013 (Date)

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