503543313 10/28/2015 PATENT ASSIGNMENT COVER SHEET

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ASSIGNMENT

WHEREAS, Andrea Ambrosini, James E. Miller of Albuquerque, NM, and David D. Gill of Bellingham, WA (hereinafter "Inventor(s)") has(have) made an invention relating to THERMAL ENERGY STORAGE AND POWER GENERATION SYSTEMS AND METHODS 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 Application Serial No. 14/846,201 for United States patent, filed September 4, 2015 and identified as DOE Docket No: S-132,468 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 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 Sandia Corporation by Inventor(s) in consideration of Inventor(s) employment by Sandia Corporation. Inventor(s) hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to Sandia Corporation, for its interest as Sandia Corporation, its successors and assigns.

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. Inventor(s) agrees, 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 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.

_, Washington. Signed at

David D. Gill

STATE OF WASHINGTON)) ss: COUNTY OF WHATCOYN)

10/16/15

I certify that I know or have satisfactory evidence that David D. Gill is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: OCTOBER 16,2015

Authrup Ka

Notary Public Seal or Stumstate of Washington ANTHONY RODRIGUEZ COMMISSION EXPIRES August 02, 2018

My appointment expires: AVGUST 02,2018

Docket No. SDI2749.USI32468 Gift

Approved and consented by:

Date: 10/2-0/15

SANDIA CORPORATION

Kerry Kampschmidt Sr. Managing IP Counsel Legal Technology Transfer Center

STATE OF NEW MEXICO)) ss: COUNTY OF BERNALILLO)

On the above date, personally appeared before me, Diana Schanning, Notary Public, Kerry Kampschmidt, to me known to be the individual described in and who executed the foregoing instrument, and who acknowledged to me that he executed the same.

Notary Public

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RECORDED: 10/28/2015