PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CATHERINE LYNN RIDDLE	02/01/2018
DOUGLAS W. AKERS	05/29/2018
DAWN M. SCATES	02/07/2018
RICK L. DEMMER	02/20/2018

RECEIVING PARTY DATA

Name:	BATTELLE ENERGY ALLIANCE, LLC
Street Address:	P.O. BOX 1625
Internal Address:	MS 3899
City:	IDAHO FALLS
State/Country:	IDAHO
Postal Code:	83415-3899

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15890837

CORRESPONDENCE DATA

Fax Number: (208)526-8339

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.

Phone: 208-526-3452

Email: kathryn.harris@inl.gov

Correspondent Name: BATTELLE ENERGY ALLIANCE, LLC

Address Line 1: P.O. BOX 1625

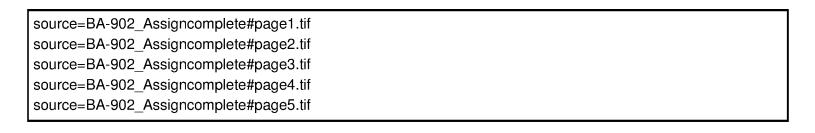
Address Line 2: MS 3899

Address Line 4: IDAHO FALLS, IDAHO 83415-3899

ATTORNEY DOCKET NUMBER:	BA-902
NAME OF SUBMITTER:	KATHRYN J. HARRIS
SIGNATURE:	/Kathryn J. Harris/
DATE SIGNED:	05/30/2018
Total Attachments, 5	

Total Attachments: 5

PATENT REEL: 045932 FRAME: 0404



PATENT REEL: 045932 FRAME: 0405

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned ASSIGNOR does:

SELL, ASSIGN AND TRANSFER to Battelle Energy Alliance, LLC (BEA) a Delaware limited liability company, having a principal place of business at 2525 Fremont Avenue, Idaho Falls, Idaho 83415, the entire right, title and interest for the United States and all foreign countries and jurisdictions in any and all inventions and improvements which are disclosed in the Application for United States Letters Patent, Attorney Docket No. BA-902, entitled SCINTILLATION COMPOSITIONS AND RELATED HYDROGELS FOR ISOTOPIC NEUTRON EMITTERS AND ANTINEUTRINO DETECTION, AND RELATED DETECTION SYSTEMS AND METHODS, such application filed on And assigned Serial No. 15/890,837, such application and all divisionals, continuations, substitutes, renewals, reissues, reexaminations, and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries and jurisdictions relating to any of such inventions and improvements; all original, reexamined and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions on such inventions and improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;

AUTHORIZE BEA to apply for and receive any and all United States and foreign patents relating to such inventions and improvements in its own name;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such inventions and improvements in the name of BEA;

REPRESENT that no assignment, grant, mortgage, license or other agreement or encumbrance inconsistent with the rights and property conveyed by this assignment has been or will be made or entered into by the undersigned, and that the full right to convey the same is possessed by the undersigned, subject to any and all rights retained by the United States Government;

COVENANT to carry out in good faith the intent and purpose of this assignment, to execute all divisionals, continuations, substitutes, renewals, reissues, reexaminations, and all other patent applications relating to any and all such inventions and improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to BEA all facts and provide to BEA all documents and things known and accessible to the undersigned relating to such inventions and improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible which BEA shall consider desirable for vesting title to such inventions and improvements in BEA, and to secure, maintain, defend and enforce valid and enforceable patent protection for such inventions and improvements; at the request of BEA and upon prior written arrangement, BEA may reimburse the undersigned for any burdensome expenses in carrying out the above covenants;

PATENT REEL: 045932 FRAME: 0406 AGREE AND ACKNOWLEDGE that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and EXTEND to the successors, assigns and nominees of BEA.

AUTHORIZE AND DIRECT any of the attorneys associated with Customer Number 85013 to insert the serial number and filing date of the application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

ASSIGNORS:

Residing at: Idaho Falls, ID

Date 2/1/18 Printed Name: Catherine Lynn Riddle Residing at: Idaho Falls, ID Printed Name: Douglas W. Akers Residing at: Idaho Falls, ID Date 2/7/18 Printed Name: Dawn M. Scates Residing at: Idaho Falls, ID Date 2/20/18 Signed. Printed Name: Rick L. Demmer

AGREE AND ACKNOWLEDGE that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and EXTEND to the successors, assigns and nominees of BEA.

AUTHORIZE AND DIRECT any of the attorneys associated with Customer Number 85013 to insert the serial number and filing date of the application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

ASSIGNORS:

Signed: Printed Name: Catherine Lynn Riddle Residing at: Idaho Falls, ID	Date
Signed: Printed Name: Douglas W. Akers Residing at: Idaho Falls, ID	Date <u>5/29/18</u>
Signed: Printed Name: Dawn M. Scates Residing at: Idaho Falls, ID	Date
Signed:Printed Name: Rick L. Demmer Residing at: Idaho Falls, ID	Date

State of Idaho) S.S.	
County of Bonneville)	
On this	day of <u>Called</u> , 2018, be the person whose name is such that the person whose name.	before me personally appeared <u>Catherine L.</u> abscribed to the foregoing instrument, and Notary Public – State of Idaho My commission expires on
State of Idaho County of Bonneville) S.S.)	
On thisknown to me to be the pto me that he/she execut	person whose name is subscribed	pefore me personally appeared <u>Douglas W. Akers</u> , it to the foregoing instrument, and acknowledged
S E A L		Notary Public – State of Idaho My commission expires on
known to me to be the p	erson whose name 4's subscribed	efore me personally appeared <u>Dawn M. Scates</u> , to the foregoing instrument, and acknowledged
S E A L	of the same.	Notary Public - State of Idaho My commission expires on

State of Idaho) S.S.	
County of Bonneville)	
On this On this known to me to be the p to me that he/she execut	ordon whose name is subscribed	before me personally appeared Rick L. Demmer, d to the foregoing instrument, and acknowledged
S E A I	OH POLICE	Notary Public - State of Idaho My commission expires on