

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4477319

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT		
EFFECTIVE DATE:	05/12/2017		
CONVEYING PARTY DATA			
	Name	Execution Date	
	HUSSEIN MORADI	06/06/2017	
	BEHROUZ FARHANG	06/26/2017	
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:	15593691	
CORRESPONDENCE DATA			
Fax Number:	(208)526-8339		
<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:	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-901		
NAME OF SUBMITTER:	ERIC M. BARZEE		
SIGNATURE:	/Eric M. Barzee/		
DATE SIGNED:	06/26/2017		
Total Attachments: 3			
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ASSIGNMENT

EFFECTIVE MAY 12, 2017, 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-901, entitled Systems, Devices, and Methods for Communicating Data Over circularly Puls-Shaped Waveforms, such application filed on May 12, 2017 and assigned Serial No. 15/593,691, 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;

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:

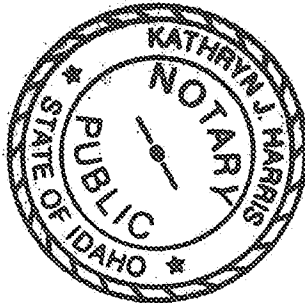
Signed: Hussein Moradi
 Printed Name: Hussein Moradi
 Residing at: Idaho Falls, ID

Date 6/6/2017

State of Idaho)
 S.S.
 County of Bonneville)

On this 6 day of June, 2017, before me personally appeared Hussein Moradi, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same.

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Kathryn J. Harris
 Notary Public - State of Idaho

My commission expires on 7/15/22

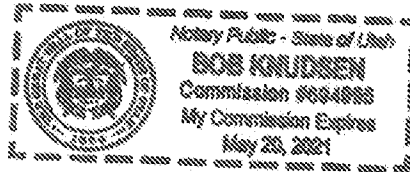
Signed: [Signature]
Printed Name: Behrouz Farhang
Residing at: Salt Lake City, UT

Date 6/26/2017

State of Utah)
S.S.
County of Salt Lake)

On this 26th day of June, 2017, before me personally appeared Behrouz Farhang, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same.

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[Signature]
Notary Public – State of Utah
My commission expires on 20 May 2021