

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Robert V. Fox</td> <td>12/17/2009</td> </tr> <tr> <td>Chivin Sun</td> <td>12/16/2009</td> </tr> <tr> <td>Rene G. Rodriguez</td> <td>12/16/2009</td> </tr> <tr> <td>Joshua J. Pak</td> <td>12/16/2009</td> </tr> <tr> <td>Kelsey R. Margulieux</td> <td>12/16/2009</td> </tr> <tr> <td>Andrew W. Holland</td> <td>12/16/2009</td> </tr> </tbody> </table>		Name	Execution Date	Robert V. Fox	12/17/2009	Chivin Sun	12/16/2009	Rene G. Rodriguez	12/16/2009	Joshua J. Pak	12/16/2009	Kelsey R. Margulieux	12/16/2009	Andrew W. Holland	12/16/2009
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<b>RECEIVING PARTY DATA</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Battelle Energy Alliance, LLC</td> </tr> <tr> <td>Street Address:</td> <td>P.O. Box 1625</td> </tr> <tr> <td>City:</td> <td>Idaho Falls</td> </tr> <tr> <td>State/Country:</td> <td>IDAHO</td> </tr> <tr> <td>Postal Code:</td> <td>83415-3899</td> </tr> </table>		Name:	Battelle Energy Alliance, LLC	Street Address:	P.O. Box 1625	City:	Idaho Falls	State/Country:	IDAHO	Postal Code:	83415-3899				
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<b>PROPERTY NUMBERS Total: 1</b>															
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<b>CORRESPONDENCE DATA</b>															
<p>Fax Number: (208)526-8339</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 208-526-6339</p> <p>Email: kathryn.harris@inl.gov</p> <p>Correspondent Name: Battelle Energy Alliance, LLC</p> <p>Address Line 1: P.O. Box 1625</p> <p>Address Line 4: Idaho Falls, IDAHO 83415-3899</p>															
ATTORNEY DOCKET NUMBER:	BA-389														
NAME OF SUBMITTER:	Stephen R. Christian														

CH \$40.00 12646474

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**PATENT**  
**REEL: 023818 FRAME: 0019**

**Total Attachments: 22**

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**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-389, entitled METHODS OF FORMING SINGLE SOURCE PRECURSORS, METHODS OF FORMING POLYMERIC SINGLE SOURCE PRECURSORS, AND SINGLE SOURCE PRECURSORS AND INTERMEDIATE PRODUCTS FORMED BY SUCH METHODS, such application filed on December 23, 2009 and assigned Serial No. 121646, 474, 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



## PATENT ASSIGNMENT AGREEMENT

Chivin Sun (Assignor) is a co-inventor together with, but not limited to, Battelle Energy Alliance, LLC (BEA) employee Robert V. Fox of an invention disclosed in BEA Invention Disclosure Record No. BA-389 entitled METHODS OF FORMING SINGLE SOURCE PRECURSORS, METHODS OF FORMING POLYMERIC SINGLE SOURCE PRECURSORS, AND SINGLE SOURCE PRECURSORS AND INTERMEDIATE PRODUCTS FORMED BY SUCH METHODS as claimed in the Application for United States Letters Patent, Attorney Docket No. BA-389 referenced herein;

BEA in accordance with its U.S. Department of Energy Contract No. DE-AC07-05ID14517, desires to acquire the entire right, title and interest in such jointly developed invention;

In consideration of the mutual covenants, conditions, and terms set forth herein, and for other good and valuable consideration, the Parties agree as follows:

Assignor sells, assigns, and transfers 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-389, entitled METHODS OF FORMING SINGLE SOURCE PRECURSORS, METHODS OF FORMING POLYMERIC SINGLE SOURCE PRECURSORS, AND SINGLE SOURCE PRECURSORS AND INTERMEDIATE PRODUCTS FORMED BY SUCH METHODS, such application filed on December 23, 2009 and assigned Serial No. 121646474, 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.

BEA has agreed to an Income Sharing Agreement, 10-ISA-01, with Assignor's employer, Idaho State University, and BEA shall have no other duty or obligation to Assignor or Idaho State University, Assignor's employer at the time of invention. Nothing in this Agreement shall be construed as establishing an employment relationship between BEA and Assignor.

Assignor acknowledges that BEA makes no representations as to the scope or extent of patent protection, if any, that may ultimately be obtained or that BEA will be successful in entering into patent license agreements and/or obtaining any patent licensing revenue or other income.

Assignor authorizes BEA to apply for and receive any and all United States and foreign patents relating to such inventions and improvements in its own name, and authorizes and requests the issuing authority to issue any and all United States and foreign patents granted on such inventions and improvements in the name of BEA.

Assignor represents and covenants 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 him/her, and that the full right to convey the same is possessed by him or her, subject to any and all rights retained by the United States Government.

Assignor covenants 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 him/her 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 him or her for any burdensome expenses in carrying out the above covenants;

Assignor agrees and acknowledges that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon his or her heirs, assigns, representatives and successors and EXTEND to the successors, assigns and nominees of BEA.

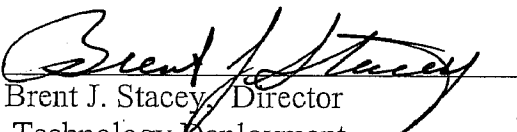
Assignor authorizes and directs any of the attorneys associated with United States Patent and Trademark Office Customer Number 00085013 to insert the serial number and filing date of the application now identified by the attorney docket number and title set forth above when the same shall have been made known to them by the United States Patent and Trademark Office.

This Agreement forms the entire understanding between Assignor and BEA, and supersedes all other agreements, expressed or implied, between the Assignor and BEA concerning the jointly developed invention excepting the Income Sharing Agreement 10-ISA-01 referenced above, and a Cooperative Research and Development Agreement (CRADA) entered into by the Parties dated September 5, 2008.

Any litigation concerning this Assignment Agreement will be brought in a court of competent jurisdiction in the State of Idaho, in accordance with Idaho law.

IN WITNESS WHEREOF, the undersigned have executed this Agreement on the respective dates set forth below.

BATTELLE ENERGY ALLIANCE, LLC

By:   
Brent J. Stacey, Director  
Technology Deployment

Date: 1/5/10

ASSIGNOR:

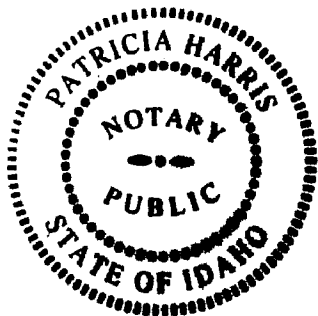
Chivin Sun  
Chivin Sun

State of Idaho )  
County of Bannock ) S S

On this 14 day of December, in the year of 2009, before me personally appeared Chivin Sun known or identified to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written.

(seal)



Patricia Harris  
Notary Public for State of Id.  
Residing at: Grass Valley, Id.  
My Commission expires: 10-15-2015

The foregoing Assignment and Agreement is hereby acknowledged and approved by Idaho State University, 921 South 8<sup>th</sup> Avenue, Mail Stop 8046, Pocatello, Idaho, 83209-8046, it being recognized and agreed that BEA makes no representation or warranty, express or implied, as to the scope or nature of the patent claims, if any, that may be allowed or issue.

IDAHO STATE UNIVERSITY

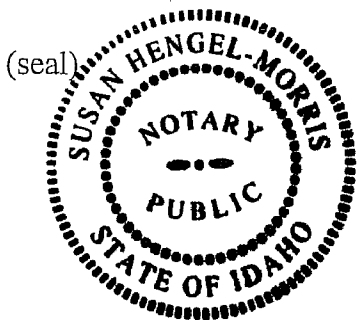
By: Marianne V. Howards

Its: Director, Office of Sponsored Programs

State of Idaho )  
County of Bannock )ss.

On this 16<sup>th</sup> day of December in the year of 2009, before me, the undersigned, a notary public in and for said State, personally appeared Diane Horrocks, known or identified to me to be the president, or vice-president, secretary or assistant secretary, of the corporation that executed the instrument or the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written.



Susan Hengel-Morris  
Notary Public for Idaho  
Residing at: Pocatello  
My Commission expires: 10/2012



## PATENT ASSIGNMENT AGREEMENT

Rene G. Rodriguez (Assignor) is a co-inventor together with, but not limited to, Battelle Energy Alliance, LLC (BEA) employee Robert V. Fox of an invention disclosed in BEA Invention Disclosure Record No. BA-389 entitled METHODS OF FORMING SINGLE SOURCE PRECURSORS, METHODS OF FORMING POLYMERIC SINGLE SOURCE PRECURSORS, AND SINGLE SOURCE PRECURSORS AND INTERMEDIATE PRODUCTS FORMED BY SUCH METHODS as claimed in the Application for United States Letters Patent, Attorney Docket No. BA-389 referenced herein;

BEA in accordance with its U.S. Department of Energy Contract No. DE-AC07-05ID14517, desires to acquire the entire right, title and interest in such jointly developed invention;

In consideration of the mutual covenants, conditions, and terms set forth herein, and for other good and valuable consideration, the Parties agree as follows:

Assignor sells, assigns, and transfers 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-389, entitled METHODS OF FORMING SINGLE SOURCE PRECURSORS, METHODS OF FORMING POLYMERIC SINGLE SOURCE PRECURSORS, AND SINGLE SOURCE PRECURSORS AND INTERMEDIATE PRODUCTS FORMED BY SUCH METHODS, such application filed on December 23, 2009 and assigned Serial No. 121646474, 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.

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Assignor authorizes BEA to apply for and receive any and all United States and foreign patents relating to such inventions and improvements in its own name, and authorizes and requests the issuing authority to issue any and all United States and foreign patents granted on such inventions and improvements in the name of BEA.

Assignor represents and covenants 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 him/her, and that the full right to convey the same is possessed by him or her, subject to any and all rights retained by the United States Government.

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Assignor agrees and acknowledges that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon his or her heirs, assigns, representatives and successors and EXTEND to the successors, assigns and nominees of BEA.

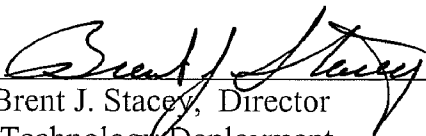
Assignor authorizes and directs any of the attorneys associated with United States Patent and Trademark Office Customer Number 00085013 to insert the serial number and filing date of the application now identified by the attorney docket number and title set forth above when the same shall have been made known to them by the United States Patent and Trademark Office.

This Agreement forms the entire understanding between Assignor and BEA, and supersedes all other agreements, expressed or implied, between the Assignor and BEA concerning the jointly developed invention excepting the Income Sharing Agreement 10-ISA-01 referenced above, and a Cooperative Research and Development Agreement (CRADA) entered into by the Parties dated September 5, 2008.

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IN WITNESS WHEREOF, the undersigned have executed this Agreement on the respective dates set forth below.

BATTELLE ENERGY ALLIANCE, LLC

By:   
Brent J. Stacey, Director  
Technology Deployment

Date: 1/5/10

ASSIGNOR:

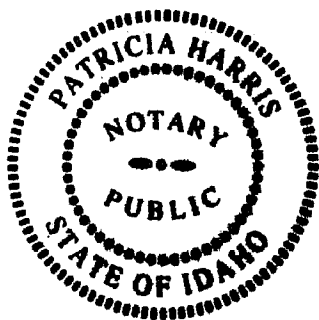
Rene G. Rodriguez  
Rene G. Rodriguez

State of Idaho )  
County of Bannock ) S S

On this 16 day of December, in the year of 2009, before me personally appeared Rene G. Rodriguez known or identified to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written

(seal)



Patricia Harris  
Notary Public for State of Idaho  
Residing at: Localelo, Id.  
My Commission expires: 10-15-2015

The foregoing Assignment and Agreement is hereby acknowledged and approved by Idaho State University, 921 South 8<sup>th</sup> Avenue, Mail Stop 8046, Pocatello, Idaho, 83209-8046, it being recognized and agreed that BEA makes no representation or warranty, express or implied, as to the scope or nature of the patent claims, if any, that may be allowed or issue.

IDAHO STATE UNIVERSITY

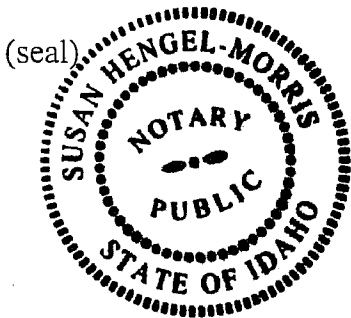
By: Miriam L. Horvath

Its: Director, Office of Sponsored Programs

State of Idaho )  
 )ss.  
County of Bannock )

On this 16<sup>th</sup> day of December in the year of 2009, before me, the undersigned, a notary public in and for said State, personally appeared Dane Horvath, known or identified to me to be the president, or vice-president, secretary or assistant secretary, of the corporation that executed the instrument or the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written.



Susan Hengel-Morris  
Notary Public for Idaho  
Residing at: Pocatello ID  
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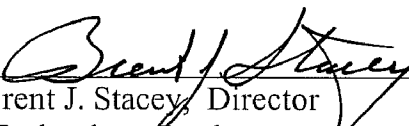
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BATTELLE ENERGY ALLIANCE, LLC

By:   
Brent J. Stacey, Director  
Technology Deployment

Date: 1/5/10

ASSIGNOR:

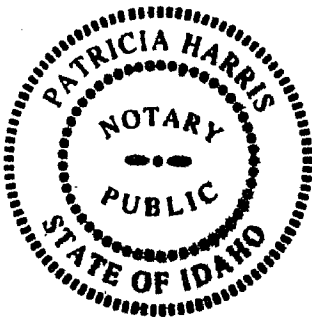
Joshua J. Pak  
Joshua J. Pak

State of Idaho )  
County of Bannock ) S S

On this 16 day of December, in the year of 2009, before me personally appeared Joshua J. Pak known or identified to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written

(seal)



Patricia Harris  
Notary Public for State of Idaho  
Residing at: Pocatello, Idaho  
My Commission expires: 10-15-2015

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IDAHO STATE UNIVERSITY

By: Lianne V. Horrocks

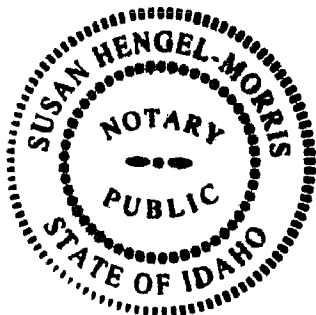
Its: Director, Office of Sponsored Programs

State of Idaho )  
County of Bannock )ss.

On this 16<sup>th</sup> day of December in the year of 2009, before me, the undersigned, a notary public in and for said State, personally appeared Diane Horrocks known or identified to me to be the president, or vice-president, secretary or assistant secretary, of the corporation that executed the instrument or the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written.

(seal)



Susan Hengel-Morris  
Notary Public for Idaho  
Residing at: Pocatello, ID  
My Commission expires: 10/2012



## PATENT ASSIGNMENT AGREEMENT

Kelsey R. Margulieux (Assignor) is a co-inventor together with, but not limited to, Battelle Energy Alliance, LLC (BEA) employee Robert V. Fox of an invention disclosed in BEA Invention Disclosure Record No. BA-389 entitled METHODS OF FORMING SINGLE SOURCE PRECURSORS, METHODS OF FORMING POLYMERIC SINGLE SOURCE PRECURSORS, AND SINGLE SOURCE PRECURSORS AND INTERMEDIATE PRODUCTS FORMED BY SUCH METHODS as claimed in the Application for United States Letters Patent, Attorney Docket No. BA-389 referenced herein;

BEA in accordance with its U.S. Department of Energy Contract No. DE-AC07-05ID14517, desires to acquire the entire right, title and interest in such jointly developed invention;

In consideration of the mutual covenants, conditions, and terms set forth herein, and for other good and valuable consideration, the Parties agree as follows:

Assignor sells, assigns, and transfers 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-389, entitled METHODS OF FORMING SINGLE SOURCE PRECURSORS, METHODS OF FORMING POLYMERIC SINGLE SOURCE PRECURSORS, AND SINGLE SOURCE PRECURSORS AND INTERMEDIATE PRODUCTS FORMED BY SUCH METHODS, such application filed on December 23, 2009 and assigned Serial No. 121646,474, 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.

BEA has agreed to an Income Sharing Agreement, 10-ISA-01, with Assignor's employer, Idaho State University, and BEA shall have no other duty or obligation to Assignor or Idaho State University, Assignor's employer at the time of invention. Nothing in this Agreement shall be construed as establishing an employment relationship between BEA and Assignor.

Assignor acknowledges that BEA makes no representations as to the scope or extent of patent protection, if any, that may ultimately be obtained or that BEA will be successful in entering into patent license agreements and/or obtaining any patent licensing revenue or other income.

Assignor authorizes BEA to apply for and receive any and all United States and foreign patents relating to such inventions and improvements in its own name, and authorizes and requests the issuing authority to issue any and all United States and foreign patents granted on such inventions and improvements in the name of BEA.

Assignor represents and covenants 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 him/her, and that the full right to convey the same is possessed by him or her, subject to any and all rights retained by the United States Government.

Assignor covenants 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 him/her 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 him or her for any burdensome expenses in carrying out the above covenants;

Assignor agrees and acknowledges that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon his or her heirs, assigns, representatives and successors and EXTEND to the successors, assigns and nominees of BEA.

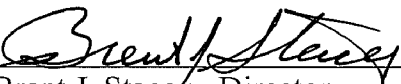
Assignor authorizes and directs any of the attorneys associated with United States Patent and Trademark Office Customer Number 00085013 to insert the serial number and filing date of the application now identified by the attorney docket number and title set forth above when the same shall have been made known to them by the United States Patent and Trademark Office.

This Agreement forms the entire understanding between Assignor and BEA, and supersedes all other agreements, expressed or implied, between the Assignor and BEA concerning the jointly developed invention excepting the Income Sharing Agreement 10-ISA-01 referenced above, and a Cooperative Research and Development Agreement (CRADA) entered into by the Parties dated September 5, 2008.

Any litigation concerning this Assignment Agreement will be brought in a court of competent jurisdiction in the State of Idaho, in accordance with Idaho law.

IN WITNESS WHEREOF, the undersigned have executed this Agreement on the respective dates set forth below.

BATTELLE ENERGY ALLIANCE, LLC

By:   
Brent J. Stacey, Director  
Technology Deployment

Date: 1/5/10

ASSIGNOR:

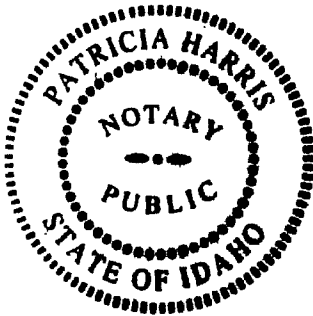
Kelsey R. Margulieux  
Kelsey R. Margulieux

State of Idaho )  
County of Bannock ) S S

On this 14 day of December, in the year of 2009, before me personally appeared Kelsey R. Margulieux known or identified to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written

(seal)



Patricia Harris  
Notary Public for State of Idaho  
Residing at: Locustville ID  
My Commission expires: 10-15-2015

The foregoing Assignment and Agreement is hereby acknowledged and approved by Idaho State University, 921 South 8<sup>th</sup> Avenue, Mail Stop 8046, Pocatello, Idaho, 83209-8046, it being recognized and agreed that BEA makes no representation or warranty, express or implied, as to the scope or nature of the patent claims, if any, that may be allowed or issue.

IDAHO STATE UNIVERSITY

By: Dianne L. Horrocks

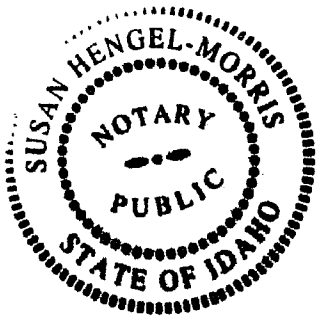
Its: Director, Office of Sponsored Programs

State of Idaho )  
County of Bannock )ss.

On this 16<sup>th</sup> day of December in the year of 2009, before me, the undersigned, a notary public in and for said State, personally appeared Dianne Horrocks, known or identified to me to be the president, or vice-president, secretary or assistant secretary, of the corporation that executed the instrument or the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written.

(seal)



Susan Hengel-Morris  
Notary Public for Idaho  
Residing at: Pocatello  
My Commission expires: 10/2012

## PATENT ASSIGNMENT AGREEMENT

Andrew W. Holland (Assignor) is a co-inventor together with, but not limited to, Battelle Energy Alliance, LLC (BEA) employee Robert V. Fox of an invention disclosed in BEA Invention Disclosure Record No. BA-389 entitled METHODS OF FORMING SINGLE SOURCE PRECURSORS, METHODS OF FORMING POLYMERIC SINGLE SOURCE PRECURSORS, AND SINGLE SOURCE PRECURSORS AND INTERMEDIATE PRODUCTS FORMED BY SUCH METHODS as claimed in the Application for United States Letters Patent, Attorney Docket No. BA-389 referenced herein;

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Assignor covenants 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 him/her 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 him or her for any burdensome expenses in carrying out the above covenants;

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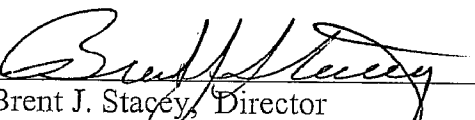
Assignor authorizes and directs any of the attorneys associated with United States Patent and Trademark Office Customer Number 00085013 to insert the serial number and filing date of the application now identified by the attorney docket number and title set forth above when the same shall have been made known to them by the United States Patent and Trademark Office.

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IN WITNESS WHEREOF, the undersigned have executed this Agreement on the respective dates set forth below.

BATTELLE ENERGY ALLIANCE, LLC

By:   
Brent J. Stacey, Director  
Technology Deployment

Date: 1/4/2010

ASSIGNOR:

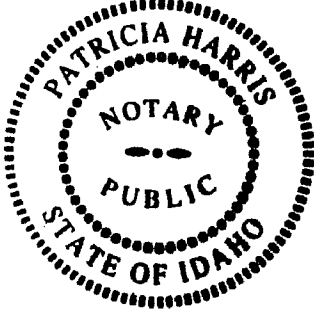
Andrew W. Holland  
Andrew W. Holland

State of Idaho )  
County of Bannock ) S S

On this 14 day of December, in the year of 2009, before me personally appeared Andrew W. Holland known or identified to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written

(seal)



Patricia Harris  
Notary Public for State of Idaho  
Residing at: Boise, ID  
My Commission expires: 10-15-2015

The foregoing Assignment and Agreement is hereby acknowledged and approved by Idaho State University, 921 South 8<sup>th</sup> Avenue, Mail Stop 8046, Pocatello, Idaho, 83209-8046, it being recognized and agreed that BEA makes no representation or warranty, express or implied, as to the scope or nature of the patent claims, if any, that may be allowed or issue.

IDAHO STATE UNIVERSITY

By: Shannon L. Horvath

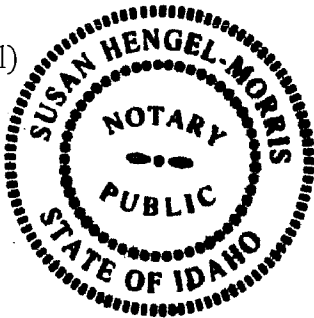
Its: Director, Office of Sponsored Programs

State of Idaho )  
County of Bannock )ss.

On this 16<sup>th</sup> day of December in the year of 2009, before me, the undersigned, a notary public in and for said State, personally appeared Dianne Horvath, known or identified to me to be the president, or vice-president, secretary or assistant secretary, of the corporation that executed the instrument or the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the date and year this certificate first above written.

(seal)



Susan Hengel-Morris  
Notary Public for Idaho  
Residing at: Pocatello  
My Commission expires: 10/2012