

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Amanda M. Johnsen</td> <td>08/26/2011</td> </tr> <tr> <td>Chuck Z. Soderquist</td> <td>08/22/2011</td> </tr> <tr> <td>Bruce K. McNamara</td> <td>08/22/2011</td> </tr> <tr> <td>Darrell R. Fisher</td> <td>08/22/2011</td> </tr> </tbody> </table>		Name	Execution Date	Amanda M. Johnsen	08/26/2011	Chuck Z. Soderquist	08/22/2011	Bruce K. McNamara	08/22/2011	Darrell R. Fisher	08/22/2011
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Chuck Z. Soderquist	08/22/2011										
Bruce K. McNamara	08/22/2011										
Darrell R. Fisher	08/22/2011										
RECEIVING PARTY DATA											
Name:	BATTELLE MEMORIAL INSTITUTE										
Street Address:	P.O. Box 999, K1-53										
City:	Richland										
State/Country:	WASHINGTON										
Postal Code:	99352										
PROPERTY NUMBERS Total: 3											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>61374922</td> </tr> <tr> <td>Application Number:</td> <td>13212711</td> </tr> <tr> <td>PCT Number:</td> <td>US1148269</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	61374922	Application Number:	13212711	PCT Number:	US1148269		
Property Type	Number										
Application Number:	61374922										
Application Number:	13212711										
PCT Number:	US1148269										
CORRESPONDENCE DATA											
Fax Number:	(509)375-4487										
Phone:	509-375-3782										
Email:	IPDOCKET@PNNL.GOV										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	James D. Matheson										
Address Line 1:	P.O. Box 999, K1-53										
Address Line 4:	Richland, WASHINGTON 99352										
ATTORNEY DOCKET NUMBER:	16715-E										

CH \$120.00 61374922

NAME OF SUBMITTER:

James D. Matheson

Total Attachments: 7

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ASSIGNMENT OF PATENT RIGHTS

Amanda M. Johnsen
Chuck Z. Soderquist
Bruce K. McNamara
Darrell R. Fisher

To
Battelle Memorial Institute

WHEREAS, we, Amanda M. Johnsen of State College, County of Centre, State of Pennsylvania; Chuck Z. Soderquist of Benton City, County of Benton, State of Washington; Bruce K. McNamara of Richland, County of Benton, State of Washington; and Darrell R. Fisher of Richland, County of Benton, State of Washington; hereinafter INVENTORS, have made certain inventions related to, AN IMPROVED PURIFICATION PROCESS FOR ^{153}Gd PRODUCED IN NATURAL EUROPIUM TARGETS including those, described and claimed in various disclosures including:

U.S. Provisional Application No. 61/374,922, filed August 18, 2010, Entitled: Purification Process for ^{153}Gd Produced in Natural Europium Targets

U.S. Patent Application No. 13/212,711, filed August 18, 2011 Entitled: An Improved Purification Process for ^{153}Gd Produced in Natural Europium Targets

PCTApplication No. PCT/US2011/48269, filed August 18, 2011 Entitled: An Improved Purification Process for ^{153}Gd Produced in Natural Europium Targets

For which we are about to make application for Letters Patent of the United States; collectively referred to hereinafter as INVENTIONS;

WHEREAS Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, and having a place of business in the City of Richland, Washington, is desirous of acquiring all right, title, and interest in the said INVENTIONS and in all patents or patent applications sought or obtained therefor;

NOW, THEREFORE, be it known to all those who may be concerned, that for and in consideration of the sum of One Dollar (\$1.00) each, and other good and valuable considerations, the receipt of which is hereby acknowledged, We the INVENTORS have each sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the INVENTIONS shown, described, or claimed herein, and the full and exclusive right, title, and interest to any and all patents and patent applications that show, describe or claim said INVENTIONS including but not limited to those applications referenced herein, and in and to any extensions, continuations, including continuations in part, reissues, divisions, or renewals thereof; and We each do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them to the said Battelle Memorial Institute, as the assignee of my entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.

We each further covenant and agree that we each will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; and that each of us will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions (including continuations or continuations in part applications), or any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Battelle Memorial Institute.

We each further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of International Conventions and agree to execute applications of the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute

assignments of such applications and the patents to be obtained therefor to the said Battelle Memorial Institute, the assignee herein, as well as all other necessary papers.

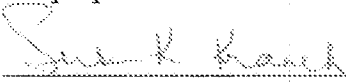
Executed at STATE COLLEGE, State of PENNSYLVANIA, this 26 day of August, 2011.



Amanda M. Johnsen

STATE OF PENNSYLVANIA)
) ss.
COUNTY OF CENTRE)

This 26th day of August, 2011, before me personally came the above-named Amanda M. Johnsen, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



Notary Public for the State of Pennsylvania
My commission expires: May 12, 2015

[SEAL]

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Susan K. Kranch, Notary Public
State College Baro, Centre County
My Commission Expires May 12, 2015

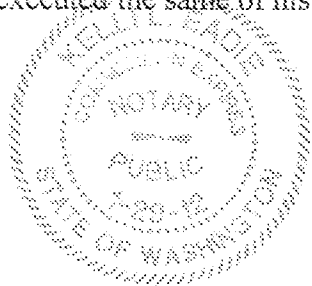
Executed at Richland, State of Washington, this 22 day of August, 2011.

Chuck Z. Soderquist

Chuck Z. Soderquist

STATE OF Washington)
) ss.
COUNTY OF Benton)

This 22nd day of August, 2011, before me personally came the above-named Chuck Z. Soderquist, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

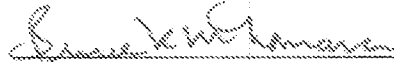


Kelly Radtke

Notary Public for the State of Washington
My commission expires: 7/29/12

[SEAL]

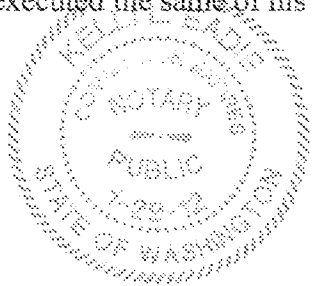
Executed at Richland, State of Washington, this 22 day of August, 2011.



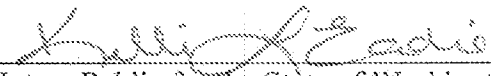
Bruce K. McNamara

STATE OF Washington)
) ss.
COUNTY OF Benton)

This 22nd day of August, 2011, before me personally came the above-named Bruce K. McNamara, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

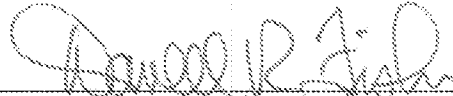


[SEAL]



Notary Public for the State of Washington
My commission expires: 1/29/12

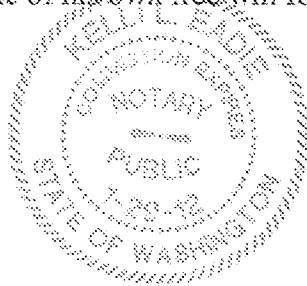
Executed at Richland, State of Washington, this 22nd day of August, 2011.




Darrell R. Fisher

STATE OF Washington)
) ss.
COUNTY OF Benton)

This 22nd day of August, 2011, before me personally came the above-named Darrell R. Fisher, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]



Notary Public for the State of Washington
My commission expires: 1/29/12