

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>William T. Diamond</td> <td>12/06/2012</td> </tr> <tr> <td>Metin Yetisir</td> <td>12/06/2012</td> </tr> <tr> <td>Romney Duffey</td> <td>12/12/2012</td> </tr> <tr> <td>Laurence Leung</td> <td>12/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	William T. Diamond	12/06/2012	Metin Yetisir	12/06/2012	Romney Duffey	12/12/2012	Laurence Leung	12/07/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Atomic Energy of Canada Limited</td> </tr> <tr> <td>Street Address:</td> <td>Chalk River Laboratories</td> </tr> <tr> <td>City:</td> <td>Chalk River, Province of Ontario</td> </tr> <tr> <td>State/Country:</td> <td>CANADA</td> </tr> <tr> <td>Postal Code:</td> <td>K0J1J0</td> </tr> </table>		Name:	Atomic Energy of Canada Limited	Street Address:	Chalk River Laboratories	City:	Chalk River, Province of Ontario	State/Country:	CANADA	Postal Code:	K0J1J0
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 4125621041 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 412 562 1893 Email: susan.hilburg@bipc.com Correspondent Name: Bryan H. Opalko Address Line 1: 301 Grant Street, 20th Floor Address Line 4: Pittsburgh, PENNSYLVANIA 15219</p>											
ATTORNEY DOCKET NUMBER:	0046378-000004										
NAME OF SUBMITTER:	Bryan H. Opalko										
<p>Total Attachments: 4 source=0046378000004Assignment#page1.tif source=0046378000004Assignment#page2.tif source=0046378000004Assignment#page3.tif source=0046378000004Assignment#page4.tif</p>											

OP \$40.00 13641603

CONFIRMATORY ASSIGNMENT

WHEREAS WE, William T. Diamond, Metin Yetisir, Romney Duffey, and Laurence Leung, whose full post office addresses are 7 Sheridan Street, Deep River, Ontario, K0J 1P0, Canada; 255 Thomas Street, PO Box 839, Deep River, Ontario, K0J 1P0, Canada; 6447 S Redside Drive, Idaho Falls, ID 83406, United States of America; and 86 Frontenac Crescent, Deep River, Ontario, K0J 1P0, Canada, respectively;

are the inventors of an invention entitled PRESSURE-TUBE REACTOR WITH COOLANT PLENUM, for which the following patent applications ("said applications") have been filed:

<u>Country</u>	<u>Application No.</u>	<u>Filing Date</u>
U.S.A.	61/327,472	April 23, 2010
PCT	PCT/CA2011/000165	February 14, 2011

AND WHEREAS ATOMIC ENERGY OF CANADA LIMITED/ ÉNERGIE ATOMIQUE DU CANADA LIMITÉE, a company incorporated under the laws of Canada having its head office Chalk River Laboratories, in the city of Chalk River, Province of Ontario, Canada K0J 1J0, has acquired from us the whole right, title and interest for the United States of America, Canada and all other countries in and to said invention and in and to any Letters Patent that may be obtained therefor, and in and to said applications,

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of all of which is hereby acknowledged, we, **William T. Diamond, Metin Yetisir, Romney Duffey, and Laurence Leung**, by these presents confirm that as of the international filing date of February 14, 2011 of the International Application Number PCT/CA2011/000165, we have sold, assigned and transferred and effective as of the international filing date of February 14, 2011 of the International Application Number PCT/CA2011/000165 do hereby sell, assign and transfer unto said **ATOMIC ENERGY OF CANADA LIMITED/ ÉNERGIE ATOMIQUE DU CANADA LIMITÉE**, the full and exclusive right to the said invention in the United States of America, Canada and all other countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor, and the entire right, title and interest in and to said applications, and in and to any divisions, continuations, continuations-in-part, renewals, re-examinations and extensions of said application and to any other patent applications and patents that claim priority from any of said patent applications, together with the right to claim the benefit of the

right of priority provided by the International Convention for the Protection of Industrial Property based on said patent applications.

We agree that we will without further consideration do all such things and execute all such documents as may be necessary or desirable to obtain and maintain patents for said invention and for additions and modifications thereto in any and all countries, and to vest title thereto in said assignee, his successors, assigns and legal representatives or nominees.

The Assignors hereby confirm that the Application was made or was authorized to be made by themselves and that they believe themselves to be the original inventors or joint inventors of a claimed invention in the Application.

We hereby authorize and request the Commissioner of Patents and Trademarks in the U.S. and all other equivalent patent granting authorities in other jurisdictions to issue said Letters Patent to said **ATOMIC ENERGY OF CANADA LIMITED/ ÉNERGIE ATOMIQUE DU CANADA LIMITÉE**, the assignee of the entire right, title and interest in and to the same, for its sole use and benefit, and for the use and benefit of its successors and assigns, to the full end of the term for which Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

The undersigned hereby grant the firm of Bereskin & Parr LLP/S.E.N.C.R.L., s.r.l. (Box 401, 40 King Street West, Toronto, Ontario, Canada M5H 3Y2) the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other Patent Offices in the world for recordation of this document.

I, Signed at Deer River this 6 day of December, 2012.
City Deer River

WITNESS

WILLIAM T. DIAMOND

2. Signed at Deep River this 6 day of December, 2012.
City

W. Diamond
WITNESS

— y — 1
METIN YETISIR

3. Signed at _____ this _____ day of November, 2012.
City

WITNESS

ROMNEY DUFFEY

4. Signed at Chalk River this 7 day of December, 2012.
City

— y — 1
WITNESS

Laurence Leung
LAURENCE LEUNG

5. Signed at Chalk River this 12 day of December, 2012.
City

Meghan Wessenberg
WITNESS

FOR: ATOMIC ENERGY OF
CANADA LIMITED/ ÉNERGIE
ATOMIQUE DU CANADA
LIMITÉE
NAME:
TITLE:

2. Signed at _____ this _____ day of November, 2012.
City

WITNESS

METIN YETISIR

3. Signed at IDAHO FALLS this 12TH day of DECEMBER, 2012.
City

Victoria Duffey

WITNESS

Romney Duffey

ROMNEY DUFFEY

4. Signed at _____ this _____ day of November, 2012.
City

WITNESS

LAURENCE LEUNG

5. Signed at _____ this _____ day of November, 2012.
City

WITNESS

FOR: ATOMIC ENERGY OF
CANADA LIMITED/ ÉNERGIE
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