

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>SEQUENCE:</b>	2
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CANADIAN NUCLEAR LABORATORIES LTD. / LABORATOIRES NUCLÉAIRES CANADIENS LTÉE	01/31/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ATOMIC ENERGY OF CANADA LIMITED / ÉNERGIE ATOMIQUE DU CANADA LIMITÉE
<b>Street Address:</b>	286 PLANT ROAD, STN 508A,
<b>City:</b>	CHALK RIVER
<b>State/Country:</b>	CANADA
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15420864
<b>Application Number:</b>	62289515
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	patents@gilbertslaw.ca
<b>Correspondent Name:</b>	KEVIN SHIPLEY
<b>Address Line 1:</b>	77 KING ST W., SUITE 2010, PO BOX 301
<b>Address Line 4:</b>	MISSISSAUGA, CANADA
<b>ATTORNEY DOCKET NUMBER:</b>	1189-441218
<b>NAME OF SUBMITTER:</b>	KEVIN SHIPLEY
<b>SIGNATURE:</b>	/kevinshipley/
<b>DATE SIGNED:</b>	07/03/2018
<b>Total Attachments: 5</b>	
source=Assignment executed by inventors and CNL#page1.tif	
source=Assignment executed by inventors and CNL#page2.tif	
source=Assignment executed by inventors and CNL#page3.tif	
source=Assignment executed by inventors and CNL#page4.tif	



ASSIGNMENT

WHEREAS Dag Horn, whose full post office address is Box 1633, Deep River, Ontario, K0J 1J0, Canada; Brian A. Lepine, whose full post office address is 99 Bilsborrow Trail, Petawawa, Ontario, K8H 2W8, Canada and Jia Lei, whose full post office address is 25 Tamarack Street, Unit 102, Deep River, Ontario, K0J 1P0, Canada (hereinafter "the Inventors"), are the inventors of an invention entitled **METHOD FOR NON-DESTRUCTIVE ANALYSIS OF MULTIPLE STRUCTURAL PARAMETERS**, for which the following applications have been filed:

<u>Country</u>	<u>Application No.</u>	<u>Filing Date</u>
U.S.A.	62/289,515	February 1, 2016
U.S.A.	*	*
Canada	*	*
Europe	*	*

(hereinafter "the Applications");

WHEREAS **Canadian Nuclear Laboratories Ltd. / Laboratoires Nucléaires Canadiens Ltée**, a company incorporated under the laws of Canada and having its head office at **286 Plant Road, Chalk River, Ontario, K0J 1J0, Canada** (hereinafter "CNL"), has acquired from the Inventors their entire right, title and interest in and to the invention, in all countries of the world, including their rights to the Applications and all related applications thereon, including any and all international, national and regional phase applications based on the Applications, and other counterpart applications in all countries, and any and all substitutes, divisionals, continuations and continuations-in-part, and any Letters Patent that may be obtained therefor, and in any and all reissues, extensions, renewals and reexaminations of such applications and patents;

AND WHEREAS Atomic Energy Of Canada Limited / Énergie Atomique Du Canada Limitée, a company incorporated under the laws of Canada and having its head office at 286 Plant Road, Stn 508A, Chalk River, Ontario, K0J 1J0, Canada (hereinafter "AECL"), has acquired from CNL its entire right, title and interest in and to the invention, in all countries of the world, including its rights to the Applications and all related applications thereon, including any and all international, national and regional phase applications based on the Applications, and other counterpart applications in all countries, and any and all substitutes, divisionals, continuations and continuations-in-part, and any Letters Patent that may be obtained therefor, and in any and all reissues, extensions, renewals and reexaminations of such applications and patents;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of all of which is hereby acknowledged: the Inventors hereby confirm that, as of the filing date of the Applications, they have assigned, and, effective as of the filing date of the Applications, do hereby sell and assign, transfer and set over to CNL all their right, title and interest for Canada, the United States of America, its territories, dependencies and possessions, and for all other countries in the world, in and to the invention, including their rights to the Applications, and all related applications and patents thereon, to be held and enjoyed by CNL, its assigns and successors, as fully and entirely as the same would have been held and enjoyed by them, had this Assignment not been made; and CNL hereby confirms that, as of the filing date of the Applications, it has assigned, and, effective as of the filing date of the Applications, does hereby sell and assign, transfer and set over to AECL, all its right, title and interest for Canada, the United States of America, its territories, dependencies and possessions, and for all other countries in the world, in and to the invention, including its rights to the Applications, and all related applications and patents thereon, to be held and enjoyed by AECL, its assigns and successors, as fully and entirely as the same would have been held and enjoyed by them, had this Assignment not been made.

The Inventors hereby state that they have reviewed and understand the contents of the Applications. The Inventors hereby confirm that the Applications were 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 Applications.

The Inventors shall without further consideration do all such things and execute all such documents as may be necessary or desirable to obtain and maintain the Applications for the invention, and all related applications and patents thereon, in any and all countries, and to vest title thereto in CNL, its successors, assigns and legal representatives or nominees.

The Inventors authorize and empower CNL, its successors, assigns and legal representatives or nominees, to invoke and claim for the Applications, and all related applications and patents thereon, filed by them or CNL, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from them.

CNL shall without further consideration do all such things and execute all such documents as may be necessary or desirable to obtain and maintain the Applications for the invention, and all related applications and patents thereon, in any and all countries, and to vest title thereto in AECL, its successors, assigns and legal representatives or nominees.

CNL authorize and empower AECL, its successors, assigns and legal representatives or nominees, to invoke and claim for the Applications, and all related applications and patents thereon, filed by them or AECL, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from them.

The Inventors, CNL and AECL authorize and empower Bereskin & Parr LLP/S.E.N.C.R.L., s.r.l., whose complete address is Scotia Plaza, 40 King Street West, 40th Floor, Toronto, Ontario, M5H 3Y2, Canada, to insert on this Assignment any further identification, to prepare any translation which may be necessary or desirable in order to comply with the rules for recordation of this document in any country and to correct any clerical error in this Assignment.

The Commissioner of Patents & Trademarks is hereby authorized and requested to issue any Letters Patent for the Applications, and all related applications thereon, to AECL, 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 the Inventors had this Assignment and sale not been made.

If a provision of this Assignment is or becomes illegal, invalid or unenforceable in any jurisdiction, that shall not affect the validity or enforceability in that jurisdiction of any other provision of this Assignment, or the validity or enforceability in other jurisdictions of that or any other provision of this Assignment.

The Inventors, CNL and AECL acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56.

The Inventors, CNL and AECL hereby acknowledge that any willful false statement made in this assignment/declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

The Parties confirm their express wish that this Assignment be drawn up in the English language. *Les parties confirment leur volonté expresse que cette cession soit rédigée en langue anglaise.*

SIGNED AT Chalk River, Ontario, this 30<sup>th</sup> day of January, 2017.

Richard Lath  
Witness

Dag Horn  
Dag Horn

SIGNED AT Chalk River, ON, this 30<sup>th</sup> day of January, 2017.

*Richard Latham*  
Witness

*Brian A. Lepine*  
Brian A. Lepine

SIGNED AT Chalk River, Ontario, this 30<sup>th</sup> day of January, 2017.

*Richard Latham*  
Witness

*Jia Lei*  
Jia Lei

SIGNED AT Chalk River, Ontario, this 31<sup>st</sup> day of January, 2017.

*[Signature]*  
Witness

*[Signature]*  
Canadian Nuclear Laboratories Ltd. /  
Laboratoires Nucléaires Canadiens Ltée  
Name: T.J. Chamos  
Title: Manager, I.P. Operations

SIGNED AT \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Atomic Energy Of Canada Limited / Énergie  
Atomique Du Canada Limitée  
Name:  
Title: