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Dan-Xia XU; Adam DENSMORE; Andre DELAGE

Pavel CHEBIN; Siegfried JANZ

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) ^{11 Mar 2009; 13 Mar 2009; 12 Mar 2009;}
^{12 Mar 2009; 13 Mar 2009}

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other

2. Name and address of receiving party(ies)

Name: National Research Council of Canada

Internal Address:

Street Address:

1200 Montreal Road

City: Ottawa

State: Ontario

Country: CANADA

Zip: K1A 0R6

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

11/898,660

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: BRION RAFFOUL

Internal Address: P.O. Box 40060

Street Address: 2515 Bank Street

City: Ottawa

State: Ontario, Canada Zip: K1V 0W8

Phone Number: 613-521-8844

Fax Number: 613-249-7207

Email Address:

6. Total number of applications and patents involved:

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☒ Authorized to be charged by credit card

☐ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

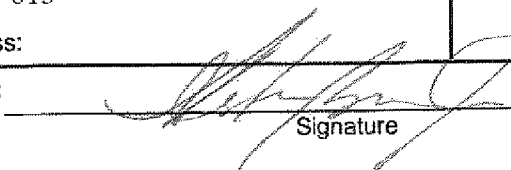
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Signature

June 2, 2009

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PATENT
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CONFIRMATORY ASSIGNMENT

Whereas, We, **Dan-Xia XU, Adam DENSMORE, Andre DELAGE, Pavel CHEBEN, and Siegfried JANZ**, citizens of Canada and residing at **622 Gaines Drive, Ottawa, Ontario K1J 7W6, Canada, 790 Hauteview Crescent, Orleans, Ontario K4A 2L7, Canada, 126-2111 Montreal Road, Ottawa, Ontario K1J 8M8, Canada, 172 Stewart Street, Ottawa, Ontario K1N 6JN, Canada and 2168 Blue Jay Crescent, Ottawa, Ontario K1J 6B1, Canada** respectively, In the course of our work at and/or for the National Research Council of Canada have made an invention for which we have made application for Letters Patent of the United States of America; and

Whereas **National Research Council of Canada**, a body corporate under the *National Research Council Act* by the Parliament of Canada, and situated in the city of Ottawa, Province of Ontario, Canada, is our employer and/or maintains facilities or equipment we used in making this invention, and is the owner of our rights in this invention by action of law, namely s. 3 of the *The Public Servants Inventions Act* of Canada, or by agreement;

NOW, THEREFORE, in consideration of having been provided with an opportunity to participate in scientific research at the National Research Council of Canada and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we **Dan-Xia XU, Adam DENSMORE, Andre DELAGE, Pavel CHEBEN and Siegfried JANZ** did transfer to the National Research Council of Canada, and hereby confirm said transfer, the legal ownership of our full and exclusive right, for the territory of Canada and the United States of America and all other countries, including the right to claim priority, the right to file foreign applications under the provisions of the International Convention and national laws, the right to file any divisional and continuation applications and our full and exclusive right in and to said divisional and continuation applications, in and to the said invention as described and claimed in the application for patent entitled

"Silicon Photonic Wire Waveguide Biosensor"


United States Patent Application **S.N. 11/898,660** filed on **September 13, 2007** in the United States of America, which claims benefit of United States Patent Application S. N. 60/924,566 filed on May 21, 2007 therefor; and we hereby request the Commissioner of

Patents and Trademarks to issue said Letters Patent, as far as our rights are concerned, to National Research Council of Canada, as the assignee, for the sole behoof of said National Research Council of Canada, and its legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by us in the event that ownership rested with us, the inventors. In addition, we confirm that the National Research Council of Canada has full rights to abandon the invention and any related patents or patent applications or any aspect thereof in any and all jurisdictions at its sole discretion and without providing compensation to us.

The inventors signing this document acknowledge that, except as explicitly noted herein, their entire inventive contribution made toward this invention was completed in the course of their work with and/or for the National Research Council of Canada and no other person or organization has any claim to their rights in the invention or any aspect thereof and the inventors have not granted or purported to grant rights in the invention to any other party or organization at any time.

This document has been read and understood prior to signature. Receipt of sufficient opportunity to seek clarification of any concerns is acknowledged.


Executed this 11 day of March, 2009 at OTTAWA.


Dan-Xia XU

Declaration by Witness

I, Starlene Buchanan, whose full post office address is
12 Kinross Crescent, Ottawa, ON K2S 1K9 CANADA
say:

That I was personally present and did hear and see, **Dan-Xia XU**
who is personally known to me duly sign and execute the above Assignment and
confirm having read and understood all that it contains.


(signature of witness)

Executed this 13 day of March, 2009 at Ottawa.

Adam Densmore
Adam DENSMORE

Declaration by Witness

I, Starlene Buchanan, whose full post office address is
12 Kinalea Crescent, Ottawa, ONTARIO K2S 1K9 CANADA say:

That I was personally present and did hear and see, **Adam DENSMORE** who
is personally known to me duly sign and execute the above Assignment and confirm
having read and understood all that it contains.

Starlene Buchanan
(signature of witness)

Executed this 12th day of March, 2009 at Ottawa.

Andre Delage
Andre DELAGE

Declaration by Witness

I, Starlene Buchanan, whose full post office address is
12 Kinalea Crescent, Ottawa, ONTARIO K2S 1K9 CANADA say:

That I was personally present and did hear and see, **Andre DELAGE**
who is personally known to me duly sign and execute the above Assignment and
confirm having read and understood all that it contains.

Starlene Buchanan
(signature of witness)


Executed this 12 day of Nov, 2009 at Ottawa.


Pavel CHEBEN

Declaration by Witness

I, Starlene Buchanan, whose full post office address is
12 Kinalea Cres, Ottawa, Ontario K2S 1K9 CANADA say:

That I was personally present and did hear and see, **Pavel CHEBEN**
who is personally known to me duly sign and execute the above Assignment and
confirm having read and understood all that it contains.


(signature of witness)


Executed this 13 day of MARCH, 2009 at OTTAWA.


Siegfried JANZ,

Declaration by Witness

I, Starlene Buchanan, whose full post office address is
12 Kinalea Crescent Ottawa, Ontario K2S 1K9 CANADA say:

That I was personally present and did hear and see, **Siegfried JANZ**, who is
personally known to me duly sign and execute the above Assignment and confirm
having read and understood all that it contains.


(signature of witness)