

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HARRY RUDA	04/04/2018
IGOR SAVELIEV	04/10/2018
MARINA BLUMIN	04/03/2018
CHRISTINA SOUZA	04/05/2018
RECEIVING PARTY DATA	
Name:	THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO
Street Address:	100 COLLEGE STREET, SUITE 413
Internal Address:	BANTING INSTITUTE
City:	TORONTO, ONTARIO
State/Country:	CANADA
Postal Code:	M5G 1L5
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15660916
CORRESPONDENCE DATA	
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<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>	
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ATTORNEY DOCKET NUMBER:	1011779_01_1
NAME OF SUBMITTER:	KAREN A. HALLOCK
SIGNATURE:	/Karen A. Hallock/
DATE SIGNED:	03/22/2019
Total Attachments: 5	
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ASSIGNMENT

WHEREAS,

RUDA, Harry , whose full post office address is

21 Brookfield Road, Toronto, ON M2P 1B1, Canada

SAVELIEV, Igor , whose full post office address is

145-16 Elgin Street, Thornhill, ON L3T 4T4, Canada

BLUMIN, Marina , whose full post office address is

76 Donisi Avenue, Vaughan, ON L4J 6G4, Canada and

SOUZA, Christina , whose full post office address is

40 Brendwin Road, Toronto, ON M6N 4V7

hereinafter referred to as the "Assignors", of an invention relating to and entitled:

**"Template-Based Epitaxial Growth of III-V materials on Silicon for Next Generation Photonic
Integrated Circuits"**

hereinafter referred to as the "Invention", as fully set forth and described in an application for Letters Patent identified as:

Country	Serial Number	Filing Date	Title
U.S.A.	15/660,916	July 26, 2017	"Template-Based Epitaxial Growth of Lattice Mismatched Materials on Silicon"

hereinafter referred to as the "Application";

AND WHEREAS, THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, hereinafter referred to as the "Assignee", whose full post office address is Banting Institute, 100 College Street, Suite 413, Toronto, Ontario M5G 1L5, Canada, has acquired from the Assignors, the Assignors' entire right, title and interest in and to the invention, in all countries of the world, including the Assignors' rights to the Application, and all related applications and patents thereon, including any and all, international, national and regional phase applications based on the Application, 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, including the right to claim priority to the Application, and to all related applications and patents thereon filed by the Assignors or Assignee, including the benefit of any 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 the benefit of any right of priority provided by any convention

or treaty under domestic or foreign law, and to invoke and claim any such right of priority without further written or oral authorization from the Assignors;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignors confirm it has, as of "July 26, 2017" sold, assigned, transferred and set over, and for greater certainty, does hereby sell, assign, transfer and set over to the Assignee, its successors, assigns, or legal representatives, its entire right, title and interest for Canada, the United States and all other countries throughout the World in and to the Invention, together with its entire right, title and interest in and to the Applications and any and all Letters Patent that may issue for the Invention, including any and all divisions, reissues, continuations and extensions of the Applications, to the full end of the term for which each said Letters Patent may be granted, and including any right to claim priority based on the Applications, the same to be held and enjoyed as fully and completely as the same would have been held and enjoyed by the Assignors had this Assignment not been made;

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

AND the Assignors, on behalf of itself and its executors and administrators, does hereby covenant and agree to do all such lawful acts and things and to execute without further consideration such further lawful assignments, documents, assurances, applications and other instruments as may reasonably be required by the Assignee, its successors, assigns, or legal representatives, to obtain any and all Letters Patent for the Invention and vest the same in the Assignee, its successors, assigns, or legal representatives.

The Assignors authorize and empower PATTERSON + SHERIDAN LLP, whose complete address is 300 North Greene St. Suite 2050, Greensboro, NC 27401 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 Application, and all related applications thereon, to the Assignee, 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 Assignors had this Assignment and sale not been made.

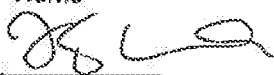
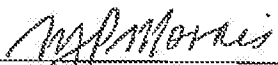
If a provision of this Assignment is or becomes illegal, invalid or unenforceable in any jurisdiction, that shall not affect the validity or enforceability in that jurisdiction of any other provision of this Assignment, or the validity or enforceability in other jurisdictions of that or any other provision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

The Assignors 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.

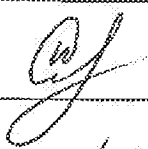
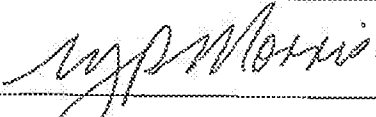
For the purpose of all legal proceedings this Assignment will be deemed to have been performed in the Province of Ontario and will be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

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.

EXECUTED at _____ (city), _____ (country).

	Witness
RUDA, Harry	MILDRED MORRIS
_____ Name	_____ Name
 _____ Signature	 _____ Signature
April 4 / 2018 _____ Date	April 4, 2018 _____ Date

EXECUTED at _____ (city), _____ (country).

	Witness
SAVELIEV, Igor	MILDRED MORRIS
_____ Name	_____ Name
 _____ Signature	 _____ Signature
April 10 / 2018 _____ Date	10/4/18 _____ Date

EXECUTED at _____ (city), _____ (country).

BLUMIN, Marina
Name
Blu
Signature
04.03.2018
Date

Witness
MILDRED MORRIS
Name
MJ Morris
Signature
April 4, 2018
Date

EXECUTED at _____ (city), _____ (country).

SOUZA, Christina
Name
Cf/7-
Signature
APRIL 05, 2018
Date

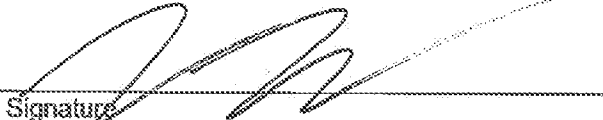
Witness
MILDRED MORRIS
Name
MJ Morris
Signature
10/4/18
Date

ACKNOWLEDGEMENT

The Assignee hereby accepts the assignment. EXECUTED at Toronto (city),
Canada (country).

This 11th day of April, 2018.

THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO


Signature

Stéphane Lévesque, Ph.D.
Name Patents, Innovations & Partnerships Office

Title

The signatory is duly authorized by the Office of
the Vice-President Research and Innovation of
The Governing Council of the University of Toronto
to sign the said document.

DECLARATION OF WITNESS

I, R. Smole, whose full post office address is
610-3291 Bloor Street, Toronto, ON M6R 1B3, Canada hereby
declare that I was personally present and did see Stéphane Lévesque of
THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO who is personally known to me to be
the person named in the above assignment duly sign and execute the same.

Declared at Toronto (city), Canada (country).

This 11th day of April, 2018.

R. Smole
Signature of Witness: