

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ALHASSAN KHEDR	03/23/2017
GLENN GULAK	03/23/2017
VINOD VAIKUNTANATHAN	03/27/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO
<b>Street Address:</b>	100 COLLEGE STREET, SUITE 413
<b>City:</b>	TORONTO
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	M5G 1L5
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14634787
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(416)352-5709
<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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<b>ATTORNEY DOCKET NUMBER:</b>	122-13
<b>NAME OF SUBMITTER:</b>	CHRISTOPHER HEER
<b>SIGNATURE:</b>	/Christopher Heer/
<b>DATE SIGNED:</b>	04/15/2017
<b>Total Attachments: 5</b>	
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## WORLDWIDE ASSIGNMENT

Whereas WE, (hereinafter referred to as the "ASSIGNORS"):

**Alhassan KHEDR of 1517-35 Charles Street W., Toronto, Ontario, Canada,  
M4Y1R6,**

**Glenn GULAK, of 907-2287 Lake Shore Blvd W., Toronto, Ontario, Canada, M8V  
3Y1, and**

**Vinod VAIKUNTANATHAN, of 32 Vassar St, G-696, Cambridge, MA 02139, USA**

have invented certain new and useful improvements in an invention entitled **SYSTEMS, DEVICES, AND PROCESSES FOR HOMOMORPHIC ENCRYPTION**, for which a United States Patent Application has been filed February 28, 2015 under application serial number 14/634,787, claiming priority to a United States Provisional Patent Application filed February 28, 2014 under application serial number 61/946,557; and

Whereas, **THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO** (the "ASSIGNEE"), whose full post office address is Banting Institute, 100 College Street, Suite 413, Toronto, Ontario, Canada M5G 1L5, is desirous of acquiring the full and exclusive right, title and interest in and to said application inclusive of any and all priority rights derived therefrom and the inventions therein disclosed, and in and to all Letters Patent, both United States and foreign, to be granted for said invention;

Now therefore, for a valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNORS do hereby confirm sale, assignment, transfer, and set over, and hereby sell, assign, transfer and set over unto the ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest in and to the aforesaid United States Patent Application inclusive of any and all priority rights derived therefrom, and the inventions therein disclosed, and in and to all Letters Patent and issues thereof which may be granted upon said application and in and to all Letters Patent which may be issued upon any substitutes, divisions, or continuations of said application, and in and to any and all Letters Patent which may be granted

for said inventions in any foreign country or countries; the same to be held and enjoyed by the ASSIGNEE for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term for which said Letters Patent and reissues thereof may be granted as fully and entirely as the same would have been held and enjoyed by us had the assignment and sale not been made;

And, the ASSIGNORS hereby agree to execute, upon request, any and all further papers which may be necessary or desirable to enable the ASSIGNEE, its successors and assigns, to file and prosecute said application, and any and all substitutes, divisions, or continuations thereof, and any and all reissues of the Letters Patent granted upon said application, or upon any substitutes, divisions, or continuations thereof, and any and all applications for foreign Letters Patent on said inventions; and ASSIGNORS further agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of ASSIGNEE, its successors and assigns, in and to said application and the inventions therein disclosed, and in and to any and all Letters Patent and reissues thereof, both United States and foreign, which may be granted upon said application, and any substitutes, divisions, or continuations thereof, and upon any foreign applications.

And, the ASSIGNORS hereby authorize and request the Commissioner of Patents to issue each and every Letters Patent to be granted upon the aforesaid application, and upon any and all substitutes, divisions, and continuations of said application, and each and every reissue of said Letters Patent, to the ASSIGNEE, its successors and assigns, as the assignee of the entire right, title and interest therein, in accordance with this assignment.

And the ASSIGNORS hereby grant to Christopher D. Heer (Registration No. 64,025) the power to insert on this assignment my further indication which may be necessary or desirable in order to comply with the requirements of the United States Patent and Trademark Office for its recordal.

In Witness Whereof, this assignment has been executed below by the undersigned:

Date: March 23, 2017 Alhassan Khedr  
 ALHASSAN KHEDR  
 1517-35 Charles Street W., Toronto,  
 Ontario, Canada, M4Y1R6

# STATEMENT BY WITNESS

I, STEPHANE LEVESQUE, whose full post office address is  
101 COLEMAN AVE NW TORONTO ONTARIO M4C 1P7

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Date: March 23, 2017

[Signature]  
 Signature of Witness

Date: March 23, 2017

Glenn Gulak

GLENN GULAK  
907-2287 Lake Shore Blvd W.  
Toronto, Ontario, Canada, M8V 3Y1

STATEMENT BY WITNESS

I, Jennifer Rodriguez, whose full post office address is  
1993 Delaney Drive Mississauga, Ontario L5J 3L3

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Date: March 23, 2017 Jennifer Rodriguez  
Signature of Witness

Date: \_\_\_\_\_, 2017

VINOD VAIKUNTANATHAN  
32 Vassar St, G-696  
Cambridge, MA 02139, USA

STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full post office address is  
\_\_\_\_\_

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Date: \_\_\_\_\_  
Signature of Witness

Date: \_\_\_\_\_, 2017

**GLENN GULAK**  
**907-2287 Lake Shore Blvd W.**  
**Toronto, Ontario, Canada, M8V 3Y1**

## STATEMENT BY WITNESS

I, \_\_\_\_\_, whose full post office address is

\_\_\_\_\_

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Date: \_\_\_\_\_

Signature of Witness

Date: March 27, 2017


**VINOD VAIKUNTANATHAN**  
**32 Vassar St, G-696**  
**Cambridge, MA 02139, USA**

## STATEMENT BY WITNESS

I, Deborah Goodwin, whose full post office address is

32 Vassar St Room G695A Cambridge MA 02139

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Date: March 27, 2017

Signature of Witness

