## 506649799 05/06/2021

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MARAT KHANDROS	08/31/2020
AMIRREZA OGHBAEE	08/21/2020
ALISYED	08/28/2020
KAMRAN PIRASTEH	09/02/2020
WEITAO LIN	08/28/2020
ALEXANDER MICHAEL KRUSH	04/21/2021
JACOB ALEXANDER ABBOTT	08/31/2020

#### **RECEIVING PARTY DATA**

Name:	ROYAL BANK OF CANADA		
Street Address: 200 BAY STREET, ROYAL BANK PLAZA			
Internal Address:	6TH FLOOR, SOUTH TOWER		
City:	TORONTO, ON		
State/Country:	CANADA		
Postal Code:	M5J 2J5		

#### **PROPERTY NUMBERS Total: 2**

Property Type	Number	
Application Number:	15998881	
Application Number:	62546368	

### **CORRESPONDENCE DATA**

**Fax Number:** (416)216-3930

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ATTORNEY DOCKET NUMBER: 05007268-76US / 76USPR

NAME OF SUBMITTER: BRIAN CHAU

506649799 REEL: 056162 FRAME: 0045

SIGNATURE:	/Brian Chau/				
DATE SIGNED:	05/06/2021				
Total Attachments: 10					
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PATENT REEL: 056162 FRAME: 0046

Our Reference: 05007268-76XX

### **ASSIGNMENT (Worldwide)**

WHEREAS,

(1) KHANDROS, Marat of Jersey City, NJ, USA;

(2) OGHBAEE, Amirreza of Jersey City, NJ, USA;

(3) SYED, Ali of Jersey City, NJ, USA;

(4) PIRASTEH, Kamran of Jersey City, NJ, USA;

(5) LIN, Weitao of Jersey City, NJ, USA;

(6) KRUSH, Alexander Michael of Jersey City, NJ, USA;

(7) ABBOTT, Jacob Alexander of Jersey City, NJ, USA

hereinafter referred to, separately and collectively, as "ASSIGNORS", and whose full post office address is c/o Royal Bank of Canada, 6<sup>th</sup> Floor, South Tower, Royal Bank Plaza, 200 Bay Street, Toronto, ON, M5J 2J5, Canada, have made an invention relating to and entitled:

#### VIRTUAL MACHINE UNDERUTILIZATION DETECTOR

hereinafter referred to as the Invention, which Invention is described for example in the appended draft patent application (which may have been provided to Assignors prior to execution of this Assignment), which Invention is to be filed as one or more applications for Letters Patent hereinafter referred to as the Applications;

AND WHEREAS, ROYAL BANK OF CANADA, a Canadian Chartered Bank hereinafter referred to as Assignee, whose full post office address is 6<sup>th</sup> Floor, South Tower, Royal Bank Plaza, 200 Bay Street, Toronto, ON, M5J 2J5, Canada, desires among other things to acquire Assignors' entire right, title, interest and benefit for United States, Canada and all other countries and jurisdictions in and to the Invention and Application, or to confirm the ownership of such right, title, interest and benefit by Assignee;

NOW THEREFORE, in consideration of the sum of Five Dollars (\$5.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby confirm that they have sold, assigned, transferred and set over to Assignee and, for greater certainty, do hereby sell, assign, transfer and set over to Assignee, and to Assignee's successors, assigns, nominees or other legal representatives, their entire right, title, interest, property and benefit in and for United States, Canada and all other countries and jurisdictions in and to the Invention, together with their entire right, title, interest, property and benefit in and to the Application, and any previously- or subsequently-filed applications corresponding or otherwise relating thereto in any country or jurisdiction, including any and all corresponding applications whether in the form of divisions, continuations, re-examinations, re-

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issues, extensions and other non-provisional applications, and national phases thereof, any and all Letters Patent and Registrations that may issue, be granted or result therefrom for the Invention, and any and all rights of priority resulting from the filing of the above-identified application, the said corresponding applications and any previously- or subsequently-filed applications in respect of the Invention under international conventions, treaties or otherwise, the same to be held and enjoyed as fully and exclusively

as the same would have been held and enjoyed by Assignors had this sale, assignment, transfer and

setting over not been made;

AND ASSIGNORS, on behalf of themselves and their heirs, executors and administrators, do

hereby covenant and agree to do all such lawful acts and things and to execute and deliver without

further consideration such further lawful assignments, instruments, assurances, applications and other

documents as may reasonably be required by said Assignee, or by its successors, assigns, nominees, or

other legal representatives, to obtain each said Letters Patent and Registrations of the United States and

all other countries and jurisdictions for the Invention and vest or secure the same in Assignee, and in

Assignee's successors, assigns, nominees or other legal representatives.

AND ASSIGNORS do hereby authorize any official whose duty it is to grant patents or

registrations, to grant each said Letters Patent and Registration for the Invention to the Assignee, and to

Assignee's successors, assigns, nominees or other legal representatives.

AND ASSIGNORS, on behalf of themselves and their heirs, executors and administrators, do

hereby authorize said Assignee, its successors, assigns, nominees or other legal representatives.

including its Patent Agents, Norton Rose Fulbright Canada LLP, to amend the present assignment

document to insert or correct the filing date, serial number or other identifying information of the

Application as may be needed to record same.

ASSIGNORS UNDERSTAND AND AGREE that the attorneys and agents of the law firm of

Norton Rose Fulbright Canada LLP do not personally represent Assignors or Assignors' legal interests,

but instead represent the interests of Assignee. Since Norton Rose Fulbright Canada LLP cannot provide

legal advice to Assignors with respect to this Assignment, Assignors acknowledge their right to seek their

own independent legal counsel.

THIS ASSIGNMENT may be executed in counterparts, all of which shall be considered one and

the same agreement. This Assignment shall be effective to transfer an Assignors' entire right, title,

interest, property, and benefit to Assignee upon execution of this Assignment by such Assignors,

regardless of whether any other Assignor executes this Agreement.

IN WITNESS WHEREOF, Assignors have hereunto signed their names on the day and year set

forth below.

DOCSTOR: 5135525\1

Page 2 of 10

DATED this 31st day of	, 2020.
	KHANDROS, Marat
	Marat Khandros
STATEMENT OF WITNESS	
I, Zhanna Khandros (name of witness)	, state that I was personally present and did see
KHANDROS, Marat (name of inventor)	, who is personally known to me to be the person
named in the above assignment, duly ex	xecute the same on the day and year set forth above.
	Zhanna Khandros
	(signature of witness)

	DATED this 21st	_ day of	August	, 2020	).
			OGHBAEE	E, Amirreza	
				hh	
STATE	MENT OF WITNESS				
l,	Shima Koochakipour (name of witness)		, state that	I was personally pro	esent and did see
	OGHBAEE, Amirreza (name of inventor)		, who is pe	rsonally known to m	ne to be the person
named	in the above assignmen	t, duly exe	cute the same on	the day and year se	et forth above.
				(signature of w	vitness)

	DATED this _	28	_ day of	August	, 2020.
				SYED, Ali	
				Diff of	}
STATE!	MENT OF WIT	NESS			
I,		a Lydon		, state that I was	s personally present and did see
	(name of witne	ess)			
	SYED, Ali (name of inve	ntor)	, who	is personally know	n to me to be the person
named i	n the above as	ssignment	t, duly execute	e the same on the d	ay and year set forth above.
				Q	was Lyan
					(signature of witness)

DATED this 2nd day of	September , 2020.
	PIRASTEH, Kamran
STATEMENT OF WITNESS	
I, Merrall Echezaretta (name of witness)	, state that I was personally present and did see
PIRASTEH, Kamran (name of inventor)	, who is personally known to me to be the person
named in the above assignment, duly ex	ecute the same on the day and year set forth above.
	Merrall Chezaretta
	(signature of witness)

	DATED this _	28th	day of	August	, 2020.
				LIN, Weitao	lao Lin
STAT	EMENT OF WIT	<u> INESS</u>			
I,	Xinsheng Zha			, state that I was <sub>I</sub>	personally present and did see
	(name of witn	ess)			
	LIN, Weitao (name of inve	ntor)		, who is personall	y known to me to be the person
named	d in the above a	ssignmer	nt, duly execute	the same on the day	y and year set forth above.
				X	insheng Zhang
				(\$	signature of witness)

	DATED this 21	day of	April	, 2021.
			krush, al Ata	exander Michael
STA <sup>·</sup>	TEMENT OF WITNESS			
I,	Brooke Lindstrom (name of witness)		, state that I	was personally present and did see
	KRUSH, Alexander M (name of inventor)	lichael	, who is per	sonally known to me to be the person
name	ed in the above assignme	ent, duly exec	ute the same on t	he day and year set forth above.
			Br	orbitute
				(signature of witness)

Page 8 of 10

DATED this _	31	_day of	August	, 2020.
			ABBOTT, Jaco	b Alexander
			Sact	albeto
STATEMENT OF WI	<u> TNESS</u>			
I, Mark Ba (name of with			, state that I was	personally present and did see
ABBOTT, Ja (name of inve		nder	, who is personal	y known to me to be the person
named in the above a	ssignment	, duly execu	te the same on the da	y and year set forth above.
				We
			) (i	signature of witness)

DOCSTOR: 5135525\1 Page 9 of 10

	DATED this	13th	_ day of	April	, 2021.
			ROYAL BA	ROYAL BANK OF CANADA	
					D Drappal ry name] Diana Drappel
				[Title] S	Senior Counsel
STAT	EMENT OF WIT	NESS			
l,	Philip Chan (name of witne			, state that I	was personally present and did see
	Diana Drapp (name of signa			, who is per	sonally known to me to be the person
named in the above assignment, duly execute the same on the day and year set forth above.					
					P. Chan
					(signature of witness)

DOCSTOR: 5135525\1 Page **10** of **10** 

**RECORDED: 05/06/2021** 

PATENT REEL: 056162 FRAME: 0056