#### 505957338 03/09/2020

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6004045

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MILOS DUNJIC	02/08/2018
PERRY AARON JONES HALDENBY	10/16/2018
ARTHUR CARROLL CHOW	02/08/2018
DAVID SAMUEL TAX	02/07/2018
JOHN JONG-SUK LEE	12/01/2017
ARUN VICTOR JAGGA	03/08/2018

#### **RECEIVING PARTY DATA**

Name:	THE TORONTO-DOMINION BANK
Street Address:	66 WELLINGTON STREET WEST, TD TOWER, 15TH FLOOR
City:	TORONTO, ONTARIO
State/Country:	CANADA
Postal Code:	M5K 1A2

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15831149

#### **CORRESPONDENCE DATA**

Fax Number: (202)776-7801

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.

Phone: 2027767800

Irhayes@duanemorris.com Email: **DUANE MORRIS LLP Correspondent Name:** 505 9TH STREET N.W. Address Line 1:

Address Line 2: **SUITE 1000** 

Address Line 4: WASHINGTON, D.C. 20004

ATTORNEY DOCKET NUMBER:	G4144-00203
NAME OF SUBMITTER:	JAMES A. COOKE, III
SIGNATURE:	/James A. Cooke, III/
DATE SIGNED:	03/09/2020

Total Attachments: 18	
source=assignment#page1.tif	
source=assignment#page2.tif	
source=assignment#page3.tif	
source=assignment#page4.tif	
source=assignment#page5.tif	
source=assignment#page6.tif	
source=assignment#page7.tif	
source=assignment#page8.tif	
source=assignment#page9.tif	
source=assignment#page10.tif	
source=assignment#page11.tif	
source=assignment#page12.tif	
source=assignment#page13.tif	
source=assignment#page14.tif	
source=assignment#page15.tif	
source=assignment#page16.tif	
source=assignment#page17.tif	
source=assignment#page18.tif	

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

Milos DUNJIC,
Perry Aaron Jones HALDENBY,
Arthur Carroll CHOW,
David Samuel TAX,
John Jong-Suk LEE, and
Arun Victor JAGGA,

have invented a certain new and useful invention entitled:

## REAL-TIME DELEGATED APPROVAL OF INITIATED DATA EXCHANGES BY NETWORK-CONNECTED DEVICES

for which a United States Patent application was filed on December 4, 2017, and accorded application serial number 15/831,149 (further identified by Attorney Docket No. G4144-00203 and TD Reference No. 17026-PMT-US-PAT, hereinafter the "Patent Application"), and

WHEREAS, The Toronto-Dominion Bank (hereinafter "Assignee"), a corporation organized under the laws of the Province of Ontario, CANADA, having a place of business at 66 Wellington Street West, TD Tower, 15<sup>th</sup> Floor, Toronto, Ontario, M5K 1A2, has acquired or is desirous of acquiring the entire and exclusive right, title and interest in and to the Patent Application inclusive of any and all priority rights derived therefrom and the inventions therein disclosed or claimed, and in and to all Letters Patent, in the United States of America, Canada, and throughout the world, which may be granted and issued therefore throughout the world;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned, WE, ASSIGNORS does/do hereby sell, assign, transfer, and set over to the ASSIGNEE, its successors and assigns, the entire and exclusive right, title and interest in and to the Patent Application for United States Letters Patent inclusive of any and all priority rights derived therefrom, and the inventions therein disclosed or claimed, and in and to all Letters Patent and issues thereof which may be granted upon the Patent Application and in and to all Letters Patent which may be issued upon any substitutes, continuations, continuations-in-part, divisions, re-issues or extensions of the Patent Application or Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, and in and to any and all Letters Patent which may be granted for the inventions in any foreign country or countries including priority rights derived from any application for the inventions in any country;

AND WE, ASSIGNORS hereby agrees/agree to execute, upon request, any and all further papers without charge which may be necessary or desirable to enable the ASSIGNEE, its

Page 1 of 8

AND WE, ASSIGNORS hereby authorizes/authorize and requests/request the Patent Office to issue each and every Letters Patent to be granted upon the Patent Application for United States Letters Patent, and upon any and all substitutes, continuations, continuations-in-part, divisions, or extensions of the Patent Application, and each and every reissue of the 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;

Inventor 1:
EXECUTED at (City, Province) TOVANTO, ON, this 8 day of Feb, 201
Lyout leurou Milos DUNJIC
STATEMENT BY WITNESS
I, Nicole Award , whose full Post Office address is de Wellington & W. 15h Floor Toronto , NN N5K1X2 was
personally present and did see the above named person, who is known to me, execute the above
Assignment.

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

Milos DUNJIC,
Perry Aaron Jones HALDENBY,
Arthur Carroll CHOW,
David Samuel TAX,
John Jong-Suk LEE, and
Arun Victor JAGGA.

have invented a certain new and useful invention entitled:

### REAL-TIME DELEGATED APPROVAL OF INITIATED DATA EXCHANGES BY NETWORK-CONNECTED DEVICES

for which a United States Patent application was filed on December 4, 2017, and accorded application serial number 15/831,149 (further identified by Attorney Docket No. G4144-00203 and TD Reference No. 17026-PMT-US-PAT, hereinafter the "Patent Application"), and

WHEREAS, **The Toronto-Dominion Bank** (hereinafter "**Assignee**"), a corporation organized under the laws of the Province of Ontario, CANADA, having a place of business at 66 Wellington Street West, TD Tower, 15<sup>th</sup> Floor, Toronto, Ontario, M5K 1A2, has acquired or is desirous of acquiring the entire and exclusive right, title and interest in and to the Patent Application inclusive of any and all priority rights derived therefrom and the inventions therein disclosed or claimed, and in and to all Letters Patent, in the United States of America, Canada, and throughout the world, which may be granted and issued therefore throughout the world;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned, WE, ASSIGNORS does/do hereby sell, assign, transfer, and set over to the ASSIGNEE, its successors and assigns, the entire and exclusive right, title and interest in and to the Patent Application for United States Letters Patent inclusive of any and all priority rights derived therefrom, and the inventions therein disclosed or claimed, and in and to all Letters Patent and issues thereof which may be granted upon the Patent Application and in and to all Letters Patent which may be issued upon any substitutes, continuations, continuations-in-part, divisions, re-issues or extensions of the Patent Application or Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, and in and to any and all Letters Patent which may be granted for the inventions in any foreign country or countries including priority rights derived from any application for the inventions in any country;

AND WE, ASSIGNORS hereby agrees/agree to execute, upon request, any and all further papers without charge which may be necessary or desirable to enable the ASSIGNEE, its

AND WE, ASSIGNORS hereby authorizes/authorize and requests/request the Patent Office to issue each and every Letters Patent to be granted upon the Patent Application for United States Letters Patent, and upon any and all substitutes, continuations, continuations-in-part, divisions, or extensions of the Patent Application, and each and every reissue of the 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;

Inventor 2:
EXECUTED at (City, Province) Toronto, ON, this 16th day of October, 2018
Perry Aaron Jones HALDENBY
STATEMENT BY WITNESS
I, Madalina Minnear, whose full Post Office address is
66 Wellington St. W. 15th Floor, Toronto, ON MSK 1A2 was personally present and did see the above named person, who is known to me, execute the above
Assignment.
(Signature of Witness)

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

Milos DUNJIC,
Perry Aaron Jones HALDENBY,
Arthur Carroll CHOW,
David Samuel TAX,
John Jong-Suk LEE, and
Arun Victor JAGGA,

have invented a certain new and useful invention entitled:

## REAL-TIME DELEGATED APPROVAL OF INITIATED DATA EXCHANGES BY NETWORK-CONNECTED DEVICES

for which a United States Patent application was filed on December 4, 2017, and accorded application serial number 15/831,149 (further identified by Attorney Docket No. G4144-00203 and TD Reference No. 17026-PMT-US-PAT, hereinafter the "Patent Application"), and

WHEREAS, **The Toronto-Dominion Bank** (hereinafter "**Assignee**"), a corporation organized under the laws of the Province of Ontario, CANADA, having a place of business at 66 Wellington Street West, TD Tower, 15<sup>th</sup> Floor, Toronto, Ontario, M5K 1A2, has acquired or is desirous of acquiring the entire and exclusive right, title and interest in and to the Patent Application inclusive of any and all priority rights derived therefrom and the inventions therein disclosed or claimed, and in and to all Letters Patent, in the United States of America, Canada, and throughout the world, which may be granted and issued therefore throughout the world;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned, WE, ASSIGNORS does/do hereby sell, assign, transfer, and set over to the ASSIGNEE, its successors and assigns, the entire and exclusive right, title and interest in and to the Patent Application for United States Letters Patent inclusive of any and all priority rights derived therefrom, and the inventions therein disclosed or claimed, and in and to all Letters Patent and issues thereof which may be granted upon the Patent Application and in and to all Letters Patent which may be issued upon any substitutes, continuations, continuations-in-part, divisions, re-issues or extensions of the Patent Application or Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, and in and to any and all Letters Patent which may be granted for the inventions in any foreign country or countries including priority rights derived from any application for the inventions in any country;

AND WE, ASSIGNORS hereby agrees/agree to execute, upon request, any and all further papers without charge which may be necessary or desirable to enable the ASSIGNEE, its

AND WE, ASSIGNORS hereby authorizes/authorize and requests/request the Patent Office to issue each and every Letters Patent to be granted upon the Patent Application for United States Letters Patent, and upon any and all substitutes, continuations, continuations-in-part, divisions, or extensions of the Patent Application, and each and every reissue of the 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;

Inventor 3:	,	
EXECUTED at (City, Province)_	70/91/to 61/, th	is 8 day of FEDVAry, 2018
	Arthur Carroll CHO	
	STATEMENT BY WITNE	SSS
I, <u>Wicole Alvir</u> (alo WOM/ngton St.W.	ez 15th +700r Tavanto	whose full Post Office address is
		is known to me, execute the above
Assignment.		
	(Signature of Witness	

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

Milos DUNJIC,
Perry Aaron Jones HALDENBY,
Arthur Carroll CHOW,
David Samuel TAX,
John Jong-Suk LEE, and
Arun Victor JAGGA,

have invented a certain new and useful invention entitled:

## REAL-TIME DELEGATED APPROVAL OF INITIATED DATA EXCHANGES BY NETWORK-CONNECTED DEVICES

for which a United States Patent application was filed on December 4, 2017, and accorded application serial number 15/831,149 (further identified by Attorney Docket No. G4144-00203 and TD Reference No. 17026-PMT-US-PAT, hereinafter the "Patent Application"), and

WHEREAS, The Toronto-Dominion Bank (hereinafter "Assignee"), a corporation organized under the laws of the Province of Ontario, CANADA, having a place of business at 66 Wellington Street West, TD Tower, 15<sup>th</sup> Floor, Toronto, Ontario, M5K 1A2, has acquired or is desirous of acquiring the entire and exclusive right, title and interest in and to the Patent Application inclusive of any and all priority rights derived therefrom and the inventions therein disclosed or claimed, and in and to all Letters Patent, in the United States of America, Canada, and throughout the world, which may be granted and issued therefore throughout the world;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned, WE, ASSIGNORS does/do hereby sell, assign, transfer, and set over to the ASSIGNEE, its successors and assigns, the entire and exclusive right, title and interest in and to the Patent Application for United States Letters Patent inclusive of any and all priority rights derived therefrom, and the inventions therein disclosed or claimed, and in and to all Letters Patent and issues thereof which may be granted upon the Patent Application and in and to all Letters Patent which may be issued upon any substitutes, continuations, continuations-in-part, divisions, re-issues or extensions of the Patent Application or Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, and in and to any and all Letters Patent which may be granted for the inventions in any foreign country or countries including priority rights derived from any application for the inventions in any country;

AND WE, ASSIGNORS hereby agrees/agree to execute, upon request, any and all further papers without charge which may be necessary or desirable to enable the ASSIGNEE, its

AND WE, ASSIGNORS hereby authorizes/authorize and requests/request the Patent Office to issue each and every Letters Patent to be granted upon the Patent Application for United States Letters Patent, and upon any and all substitutes, continuations, continuations-in-part, divisions, or extensions of the Patent Application, and each and every reissue of the 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;

Inventor 4:		, bi a	
EXECUTED at (City, Province)_	Toronto, ON	, this day of	Forwary, 2018
	David Samuel	Color Max	7
	STATEMENT BY W	VITNESS	
I, Nicole Al Unicole Al Unicole Wellington St. W.,	ez 19m Floor, toron	, whose full Post (	Office address is was
personally present and did see the	above named person	n, who is known to me,	execute the above
Assignment.			
	(Signature of V	Witness	

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

Perry Aaron Jones HALDENBY, Milos DUNJIC, Arthur Carroll CHOW, John Jong-Suk LEE, and David TAX,

have invented a certain new and useful invention entitled:

## REAL-TIME DELEGATED APPROVAL OF INITIATED DATA EXCHANGES BY NETWORK-CONNECTED DEVICES

for	which	a	United	States	Patent	application	was	filed	on _		,	and	accor	ded
app	lication	se	rial nun	ıber	(	further ident	ified	by Att	orney	Docket No.	G4:	144-0	0203	and
TD	Referer	106	No. 170	026-PM	IT-US-I	PAT, hereina	ifter t	he "Pa	tent A	application")	, and	d		

WHEREAS, **The Toronto-Dominion Bank** (hereinafter "Assignee"), a corporation organized under the laws of the Province of Ontario, CANADA, having a place of business at 66 Wellington Street West, TD Tower, 15<sup>th</sup> Floor, Toronto, Ontario, M5K 1A2, has acquired or is desirous of acquiring the entire and exclusive right, title and interest in and to the Patent Application inclusive of any and all priority rights derived therefrom and the inventions therein disclosed or claimed, and in and to all Letters Patent, in the United States of America, Canada, and throughout the world, which may be granted and issued therefore throughout the world;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned, WE, ASSIGNORS does/do hereby sell, assign, transfer, and set over to the ASSIGNEE, its successors and assigns, the entire and exclusive right, title and interest in and to the Patent Application for United States Letters Patent inclusive of any and all priority rights derived therefrom, and the inventions therein disclosed or claimed, and in and to all Letters Patent and issues thereof which may be granted upon the Patent Application and in and to all Letters Patent which may be issued upon any substitutes, continuations, continuations-in-part, divisions, re-issues or extensions of the Patent Application or Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, and in and to any and all Letters Patent which may be granted for the inventions in any foreign country or countries including priority rights derived from any application for the inventions in any country;

AND WE, ASSIGNORS hereby agrees/agree to execute, upon request, any and all further papers without charge which may be necessary or desirable to enable the ASSIGNEE, its successors and assigns, to file and prosecute the Patent Application, and any and all substitutes,

Page 1 of 7

AND WE, ASSIGNORS hereby authorizes/authorize and requests/request the Patent Office to issue each and every Letters Patent to be granted upon the Patent Application for United States Letters Patent, and upon any and all substitutes, continuations, continuations-in-part, divisions, or extensions of the Patent Application, and each and every reissue of the 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;

Inventor 4:
EXECUTED at (City, Province) on one, this day of lee, 2017  John Jong-Suk LEE
STATEMENT BY WITNESS
I, whose full Post Office address is was personally present and did see the above named person, who is known to me, execute the above
Assignment.
(Signature of Witness)

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

Milos DUNJIC,
Perry Aaron Jones HALDENBY,
Arthur Carroll CHOW,
David Samuel TAX,
John Jong-Suk LEE, and
Arun Victor JAGGA,

have invented a certain new and useful invention entitled:

# REAL-TIME DELEGATED APPROVAL OF INITIATED DATA EXCHANGES BY NETWORK-CONNECTED DEVICES

for which a United States Patent application was filed on December 4, 2017, and accorded application serial number 15/831,149 (further identified by Attorney Docket No. G4144-00203 and TD Reference No. 17026-PMT-US-PAT, hereinafter the "Patent Application"), and

WHEREAS, The Toronto-Dominion Bank (hereinafter "Assignee"), a corporation organized under the laws of the Province of Ontario, CANADA, having a place of business at 66 Wellington Street West, TD Tower, 15<sup>th</sup> Floor, Toronto, Ontario, M5K 1A2, has acquired or is desirous of acquiring the entire and exclusive right, title and interest in and to the Patent Application inclusive of any and all priority rights derived therefrom and the inventions therein disclosed or claimed, and in and to all Letters Patent, in the United States of America, Canada, and throughout the world, which may be granted and issued therefore throughout the world;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned, WE, ASSIGNORS does/do hereby sell, assign, transfer, and set over to the ASSIGNEE, its successors and assigns, the entire and exclusive right, title and interest in and to the Patent Application for United States Letters Patent inclusive of any and all priority rights derived therefrom, and the inventions therein disclosed or claimed, and in and to all Letters Patent and issues thereof which may be granted upon the Patent Application and in and to all Letters Patent which may be issued upon any substitutes, continuations, continuations-in-part, divisions, re-issues or extensions of the Patent Application or Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, and in and to any and all Letters Patent which may be granted for the inventions in any foreign country or countries including priority rights derived from any application for the inventions in any country;

AND WE, ASSIGNORS hereby agrees/agree to execute, upon request, any and all further papers without charge which may be necessary or desirable to enable the ASSIGNEE, its

AND WE, ASSIGNORS hereby authorizes/authorize and requests/request the Patent Office to issue each and every Letters Patent to be granted upon the Patent Application for United States Letters Patent, and upon any and all substitutes, continuations, continuations-in-part, divisions, or extensions of the Patent Application, and each and every reissue of the 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;

Inv	ento	r 6:

EXECUTED at (City, Province) TOPM to DI , this day of May , 2018

Arun Victor JAGGA

STATEMENT BY WITNESS

I, Wicole Alvanes, whose full Post Office address is wellington St. W. 15th Floor Toronto, on Mok/AZ was

personally present and did see the above named person, who is known to me, execute the above Assignment.

(Signature of Witness)

Page 8 of 8

PATENT REEL: 052054 FRAME: 0992

**RECORDED: 03/09/2020**