

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5077742

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ARTHUR CARROLL CHOW	12/05/2016
PAUL MON-WAH CHAN	02/08/2017
PERRY AARON JONES HALDENBY	12/05/2016
RAKESH THOMAS JETHWA	02/08/2017
EDDIE CHEUK LONG LAW	12/05/2016
JOHN JONG SUK LEE	01/16/2017
STEPHEN JOHN MCCANN	12/05/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE TORONTO-DOMINION BANK
<b>Street Address:</b>	66 WELLINGTON STREET WEST
<b>Internal Address:</b>	TD TOWER, 12TH FLOOR
<b>City:</b>	TORONTO, ONTARIO
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	M5K 1A2
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15275657
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)379-9746
<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>	
<b>Phone:</b>	2027765252
<b>Email:</b>	jacooke@duanemorris.com
<b>Correspondent Name:</b>	JAMES A. COOKE, III
<b>Address Line 1:</b>	505 9TH STREET NW
<b>Address Line 2:</b>	SUITE 1000
<b>Address Line 4:</b>	WASHINGTON, D.C. 20004
<b>ATTORNEY DOCKET NUMBER:</b>	G4144-00103
<b>NAME OF SUBMITTER:</b>	JAMES A. COOKE, III
<b>SIGNATURE:</b>	/James A. Cooke, III/

PATENT

**DATE SIGNED:**

08/01/2018

**Total Attachments: 28**

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## ASSIGNMENT

Insert Name(s) of	Arthur Carroll CHOW
Inventor(s)	Paul Mon-Wah CHAN
	Perry Aaron Jones HALDENBY
	Rakesh Thomas JETHWA
	Eddie Cheuk Long LAW
	John Jong Suk LEE
	Stephen John McCANN

In consideration for good and valuable considerations, the receipt of which is acknowledged by each of the undersigned, the undersigned agree to assign, and hereby do assign, transfer and set over to

Insert name of Assignee	<u>The Toronto-Dominion Bank</u>
Insert address of Assignee	<u>66 Wellington Street West</u>
	<u>TD Tower, 12<sup>th</sup> Floor</u>
	<u>Toronto, Ontario, M5K 1A2</u>
	<u>Canada</u>

and its successors, legal representatives and assigns (hereinafter designated as the Assignee) the entire right, title and interest in the invention disclosed and/or claimed in the United States application identified below, as well as all applications for patent and any Letters Patent which may be granted therefore in the United States of America, Canada, and throughout the world, and in and to any and all divisions, continuations, continuations-in-part of said applications, or re-issues or extensions of said patents or Letters Patent, and all rights under the International Convention for the Protection of Industrial Property:

Insert Identification of	<u>Automatic Provisioning of Services to</u>
Application	<u>Network-Connected Devices</u>
Docket Number, or Foreign	Docket No. <u>G4144-00103</u>
Application Number	

Alternative identification  
for filed applications

Application Number: 15/275,657  
Filed: September 26, 2016

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The undersigned hereby grant to Mark C. Comtois, Reg. No. 46,285; D. Joseph English, Reg. No. 42,514; Patrick D. McPherson, Reg. No. 46,255, Patrick C. Muldoon, Reg. No. 47,343, and James A. Cooke, III, Reg. No. 69,338; and all others associated with Customer Nos. 39290, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

DEC 05 2016

Date \_\_\_\_\_

Signature of Inventor

  
Arthur Carroll CHOW

Witnessed by:

Name of Witness: Nicole Alvarez

Signature of Witness



DEC 05 2016

Date \_\_\_\_\_

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Paul Mon-Wah CHAN

Witnessed by:  
Name of Witness: \_\_\_\_\_

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

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Perry Aaron Jones HALDENBY

Witnessed by:  
Name of Witness: \_\_\_\_\_

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

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Rakesh Thomas JETHWA

Witnessed by:  
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Signature of Witness \_\_\_\_\_ Date \_\_\_\_\_

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Eddie Cheuk Long LAW

Witnessed by:  
Name of Witness: \_\_\_\_\_

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Signature of Inventor \_\_\_\_\_  
John Jong Suk LEE

Witnessed by:

Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_

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Stephen John McCANN

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Arthur Carroll CHOW

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Name of Witness: \_\_\_\_\_

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

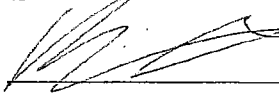


Date FEB 08 2017

Signature of Inventor   
Paul Mon-Wah CHAN

Witnessed by:  
Name of Witness: John S Lee

FEB 08 2017

Signature of Witness 

Date FEB 08 2017

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Perry Aaron Jones HALDENBY

Witnessed by:  
Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Rakesh Thomas JETHWA

Witnessed by:  
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John Jong Suk LEE

Witnessed by:

Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_

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Stephen John McCANN

Witnessed by:

Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_

Date \_\_\_\_\_

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Date \_\_\_\_\_

Signature of Inventor \_\_\_\_\_  
Arthur Carroll CHOW

Witnessed by:

Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_


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Paul Mon-Wah CHAN

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Name of Witness: \_\_\_\_\_

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

Date DEC 05 2016 Signature of Inventor   
Perry Aaron Jones HALDENBY

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Name of Witness: Nicole Alvarez

Signature of Witness  Date DEC 05 2016

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Rakesh Thomas JETHWA

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Eddie Cheuk Long LAW

Witnessed by:

Name of Witness: \_\_\_\_\_

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

Date \_\_\_\_\_

Signature of Inventor \_\_\_\_\_  
John Jong Suk LEE

Witnessed by:

Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_

Date \_\_\_\_\_

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Stephen John McCANN

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Signature of Inventor \_\_\_\_\_  
Arthur Carroll CHOW

Witnessed by:

Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_

Date \_\_\_\_\_



Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Paul Mon-Wah CHAN

Witnessed by:  
Name of Witness: \_\_\_\_\_

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Perry Aaron Jones HALDENBY

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Date FEB 08 2017 Signature of Inventor \_\_\_\_\_  
Rakesh Thomas JETHWA

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Signature of Witness [Signature] Date FEB 08 2017

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John Jong Suk LEE

Witnessed by:

Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_

Date \_\_\_\_\_

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Stephen John McCANN

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Arthur Carroll CHOW

Witnessed by:

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Paul Mon-Wah CHAN

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

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Rakesh Thomas JETHWA

Witnessed by:  
Name of Witness: \_\_\_\_\_

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

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Eddie Cheuk Long LAW

Witnessed by:  
Name of Witness: \_\_\_\_\_

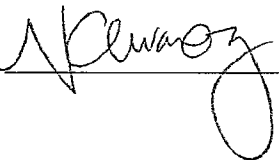
Signature of Witness \_\_\_\_\_ Date \_\_\_\_\_

Date JAN 16 2017

Signature of Inventor   
John Jong Suk LEE

Witnessed by:

Name of Witness: NICOLE A WAREZ

Signature of Witness 

Date JAN 16 2017

Date \_\_\_\_\_

Signature of Inventor \_\_\_\_\_  
Stephen John McCANN

Witnessed by:

Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_

Date \_\_\_\_\_

## ASSIGNMENT

Insert Name(s) of  
Inventor(s)

Arthur Carroll CHOW  
Paul Mon-Wah CHAN  
Perry Aaron Jones HALDENBY  
Rakesh Thomas JETHWA  
Eddie Cheuk Long LAW  
John Jong Suk LEE  
Stephen John McCANN

In consideration for good and valuable considerations, the receipt of which is acknowledged by each of the undersigned, the undersigned agree to assign, and hereby do assign, transfer and set over to

Insert name of Assignee The Toronto-Dominion Bank  
Insert address of Assignee 66 Wellington Street West  
TD Tower, 12<sup>th</sup> Floor  
Toronto, Ontario, M5K 1A2  
Canada

and its successors, legal representatives and assigns (hereinafter designated as the Assignee) the entire right, title and interest in the invention disclosed and/or claimed in the United States application identified below, as well as all applications for patent and any Letters Patent which may be granted therefore in the United States of America, Canada, and throughout the world, and in and to any and all divisions, continuations, continuations-in-part of said applications, or re-issues or extensions of said patents or Letters Patent, and all rights under the International Convention for the Protection of Industrial Property:

Insert Identification of  
Application Automatic Provisioning of Services to  
Network-Connected Devices  
Docket Number, or Foreign  
Application Number Docket No. G4144-00103

Alternative identification  
for filed applications

Application Number: 15/275,657  
Filed: September 26, 2016

The undersigned further agree to cooperate with the Assignee in every way possible and to do all affirmative acts, and to execute all papers which counsel for Assignee shall advise are necessary and/or desirable without charge to Assignee in connection with said applications including, without limitation, the execution of separate assignments or Oaths/Declarations in connection with such applications, claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to said Assignee, as Assignee of the entire interest, and hereby covenants that they have full right to convey the entire interest herein assigned, and that they have not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant to Mark C. Comtois, Reg. No. 46,285; D. Joseph English, Reg. No. 42,514; Patrick D. McPherson, Reg. No. 46,255, Patrick C. Muldoon, Reg. No. 47,343, and James A. Cooke, III, Reg. No. 69,338; and all others associated with Customer Nos. 39290, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date \_\_\_\_\_

Signature of Inventor \_\_\_\_\_  
Arthur Carroll CHOW

Witnessed by:

Name of Witness: \_\_\_\_\_

Signature of Witness \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Paul Mon-Wah CHAN

Witnessed by:  
Name of Witness: \_\_\_\_\_

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

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Perry Aaron Jones HALDENBY

Witnessed by:  
Name of Witness: \_\_\_\_\_

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

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Rakesh Thomas JETHWA

Witnessed by:  
Name of Witness: \_\_\_\_\_

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

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
Eddie Cheuk Long LAW

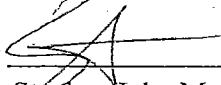
Witnessed by:  
Name of Witness: \_\_\_\_\_

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

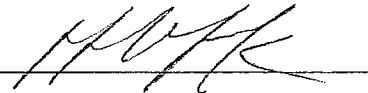
Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_  
John Jong Suk LEE

Witnessed by:  
Name of Witness: \_\_\_\_\_

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

Date Dec 5/2016 Signature of Inventor  \_\_\_\_\_  
Stephen John McCANN

Witnessed by:  
Name of Witness: MICHAEL VAN EESBEEK

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