

PATENT ASSIGNMENT COVER SHEET

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|---|---|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| PAUL MON-WAH CHAN | 02/08/2017 |
| PERRY AARON JONES HALDENBY | 12/05/2016 |
| JOHN JONG SUK LEE | 01/16/2017 |
| RECEIVING PARTY DATA | |
| Name: | THE TORONTO-DOMINION BANK |
| Street Address: | 66 WELLINGTON STREET WEST, TD TOWER, 12TH FLOOR |
| City: | TORONTO, ONTARIO |
| State/Country: | CANADA |
| Postal Code: | M5K 1A2 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15277540 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)776-7801 |
| <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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| Address Line 1: | 505 9TH STREET, NW, SUITE 1000 |
| Address Line 4: | WASHINGTON, D.C. 20004 |
| ATTORNEY DOCKET NUMBER: | G4144-00013 |
| NAME OF SUBMITTER: | JAMES A. COOKE, III |
| SIGNATURE: | /James A. Cooke, III/ |
| DATE SIGNED: | 08/26/2019 |
| Total Attachments: 9 | |
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ASSIGNMENT

Insert Names of
Inventors

Paul Mon-Wah CHAN
Perry Aaron Jones HALDENBY
John Jong Suk LEE

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, 12th 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 Processing Network Architecture With
Application Companion Database
Docket Number, or Foreign Docket No. G4144-00013
Application Number
Alternative identification Application Number: 15/277,540
for filed applications Filed: September 27, 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 No. 39,290, 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 dates opposite the undersigned names.

FEB 08 2017

Date _____

Signature of Inventor _____

Paul Mon-Wah CHAN

Witnessed by:

Name of Witness: _____

John S Lee

Signature of Witness _____

[Signature]

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 _____
John Jong Suk LEE

Witnessed by:

Name of Witness: _____

Signature of Witness _____ Date _____

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Date _____

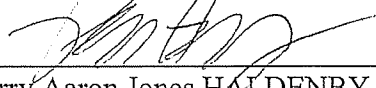
Signature of Inventor _____
Paul Mon-Wah CHAN

Witnessed by:

Name of Witness: _____

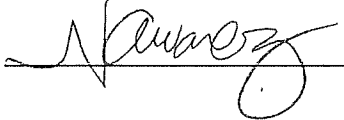
Signature of Witness _____

Date _____

Date DEC 05 2016 Signature of Inventor 
Perry Aaron Jones HALDENBY

Witnessed by:

Name of Witness: Nicole Alvarez

Signature of Witness 

Date DEC 05 2016

Date _____ Signature of Inventor _____
John Jong Suk LEE

Witnessed by:

Name of Witness: _____

Signature of Witness _____

Date _____

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Paul Mon-Wah CHAN

Witnessed by:

Name of Witness: _____

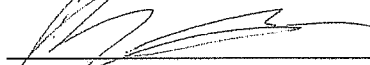
Signature of Witness _____ Date _____

Date _____ Signature of Inventor _____
Perry Aaron Jones HALDENBY

Witnessed by:

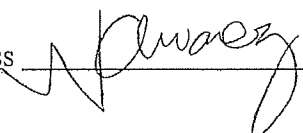
Name of Witness: _____

Signature of Witness _____ Date _____

Date JAN 16 2017 Signature of Inventor 
John Jong Suk LEE

Witnessed by:

Name of Witness: Nicole Alvarez

Signature of Witness  Date JAN 16 2017