

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT7367609

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DEAN TSERETOPOULOS	02/22/2018
GREGORY R. HARPER	02/07/2018
SARABJIT S. WALIA	10/25/2017
JOHN JONG-SUK LEE	12/01/2017
MICHAEL W. VAN EESPEEK	02/05/2018
ARUN VICTOR JAGGA	02/13/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE TORONTO-DOMINION BANK
<b>Street Address:</b>	66 WELLINGTON STREET WEST, 12TH FLOOR
<b>City:</b>	TORONTO
<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:	17805612
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<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>	2142924009
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	FISH & RICHARDSON P.C.
<b>Address Line 1:</b>	P.O. BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	36302-0123002
<b>NAME OF SUBMITTER:</b>	C. JORDAN NEWELL
<b>SIGNATURE:</b>	/C. Jordan Newell/
<b>DATE SIGNED:</b>	06/06/2022
<b>Total Attachments: 8</b>	

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**WORLDWIDE ASSIGNMENT**

WHEREAS, I/WE, (hereinafter referred to as the “ASSIGNOR(S)”):

DEAN TSERETOPOULOS  
GREGORY R. HARPER  
SARABJIT S. WALIA  
JOHN JONG-SUK LEE  
MICHAEL W. VAN EESBEEK  
ARUN VICTOR JAGGA

has/have invented a certain new and useful invention entitled:

**CONTEXTUALLY-AWARE RECOMMENDATION AND TRANSLATION ENGINE**

for which a United States Patent application was filed on July 13, 2017 and accorded application serial number 15/649,355 (further identified by Attorney Docket No. 36302-0123001 and TD Reference No. 17016-DCP-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, I/WE, ASSIGNOR(S) 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 I/WE, ASSIGNOR(S) 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,

continuations, continuations-in-part, divisions, or extensions thereof, and any and all reissues of the Letters Patent granted upon the Patent Application, and any and all applications for foreign Letters Patent on the inventions; and ASSIGNOR(S) further agrees/agree to execute any and all further papers without charge which may be necessary or desirable to vest or perfect the title of

ASSIGNEE, its successors and assigns, in and to the Patent Application and the inventions therein disclosed or claimed, and in and to any and all Letters Patent and reissues thereof, in the United States of America, Canada, and foreign countries, which may be granted upon the Patent Application, and any substitutes, continuations, continuations-in-part, divisions, re-issues or extensions thereof, and upon any foreign applications;

AND I/WE, ASSIGNOR(S) 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;

AND I/WE, ASSIGNOR(S) each individually hereby represent and warrant that I have read and fully understand the terms and provisions hereof, have had an opportunity to obtain independent legal advice, and have executed this assignment based upon my own judgment and advice of independent legal counsel (if sought), or alternatively, have waived the right to obtain independent legal counsel.

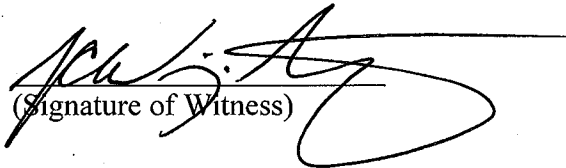
**Inventor 1:**

EXECUTED at (City, Province) TORONTO, ONTARIO, this 22 day of FEBRUARY, 2018

  
\_\_\_\_\_  
DEAN TSERETOPOULOS

STATEMENT BY WITNESS

I, JEREMY W. JETUNGE, whose full Post Office address is  
66 WELLINGTON ST. W. 15<sup>th</sup> FLOOR, TORONTO, ON M5K 1A2 was  
personally present and did see the above named person, who is known to me, execute the above  
Assignment.

  
\_\_\_\_\_  
(Signature of Witness)

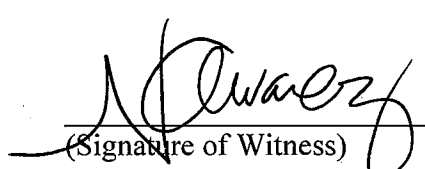
**Inventor 2:**

EXECUTED at (City, Province) Toronto, ON, this 7 day of February, 2018

  
\_\_\_\_\_  
GREGORY R. HARPER

**STATEMENT BY WITNESS**

I, Nicole Alvarez, whose full Post Office address is  
60 Wellington St. W. 15th Floor, Toronto, ON M5K 1A2 was  
personally present and did see the above named person, who is known to me, execute the above  
Assignment.

  
\_\_\_\_\_  
(Signature of Witness)

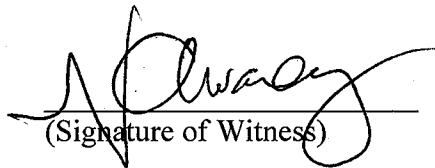
**Inventor 3:**

EXECUTED at (City, Province) TORONTO, ON, this 25 day of OCT, 2017

  
SARABJIT S. WALIA

**STATEMENT BY WITNESS**

I, Nicole Alvarez, whose full Post Office address is  
606 Wellington St. W. 15<sup>th</sup> Flr. Toronto, ON M5K 1A2 was  
personally present and did see the above named person, who is known to me, execute the above  
Assignment.

  
(Signature of Witness)

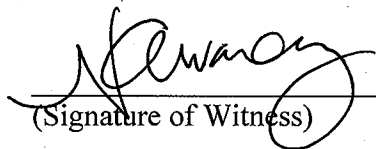
**Inventor 4:**

EXECUTED at (City, Province) Boston, this 1 day of Dec, 2017

  
JOHN JONG-SUK LEE

**STATEMENT BY WITNESS**

I, Nicole Alvarez, whose full Post Office address is  
66 Wellington St. W. 15th Floor, Toronto, ON M5K 1A2 was  
personally present and did see the above named person, who is known to me, execute the above  
Assignment.

  
(Signature of Witness)



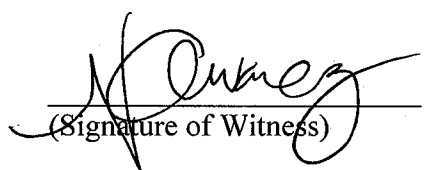
**Inventor 5:**

EXECUTED at (City, Province) Toronto, ON, this 5<sup>th</sup> day of February, 2018

  
MICHAEL W. VAN ESBEK

**STATEMENT BY WITNESS**

I, Nicole Alvarez, whose full Post Office address is  
66 Wellington Street, 15<sup>th</sup> Floor, Toronto, ON, M5K 1A2 was  
personally present and did see the above named person, who is known to me, execute the above  
Assignment.

  
(Signature of Witness)

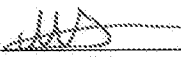
Inventor 6:

EXECUTED at (City, Province) Toronto, ON, this 13 day of February, 2019

  
ARUN VICTOR JAGGA

STATEMENT BY WITNESS

I, Madalina Minnear, whose full Post Office address is  
66 Wellington St. W., 15<sup>th</sup> Floor, Toronto, ON M5K 1A2 was  
personally present and did see the above named person, who is known to me, execute the above  
Assignment.

  
(Signature of Witness)