505479305 05/16/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5526109

RC LC	corrective Assignment to correct the <assignor> FROM <edward cobert="" lounsbury=""> TO <edward lucas="" ounsbury="" robert=""> previously recorded on Reel 048857 Frame 0973. ssignor(s) hereby confirms the ASSIGNMENT.</edward></edward></assignor>

# **CONVEYING PARTY DATA**

Name	Execution Date
VIPUL KISHORE LALKA	02/08/2018
SARABJIT SINGH WALIA	10/25/2017
EDWARD ROBERT LUCAS LOUNSBURY	03/12/2018
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, 12TH FLOOR
City:	TORONTO
State/Country:	CANADA
Postal Code:	M5K 1A2

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15724473

# **CORRESPONDENCE DATA**

**Fax Number:** (877)769-7945

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.

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**Correspondent Name:** FISH & RICHARDSON P.C.

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Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	36302-0124001
NAME OF SUBMITTER:	C. JORDAN NEWELL
SIGNATURE:	/C. Jordan Newell/
DATE SIGNED:	05/16/2019

# Total Attachments: 9 source=36302-0124001\_Assignment Cover Sheet (Marked Up)#page1.tif source=36302-0124001\_Assignment Cover Sheet (Marked Up)#page2.tif source=36302-0124001\_Assignment Cover Sheet (Marked Up)#page3.tif source=36302-0124001\_Assignment Cover Sheet (Marked Up)#page4.tif source=36302-0124001\_Assignment Cover Sheet (Marked Up)#page5.tif source=36302-0124001\_Assignment Cover Sheet (Marked Up)#page6.tif source=36302-0124001\_Assignment Cover Sheet (Marked Up)#page7.tif source=36302-0124001\_Assignment Cover Sheet (Marked Up)#page8.tif source=36302-0124001\_Assignment Cover Sheet (Marked Up)#page9.tif



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APRIL 12, 2019

PTAS

FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022 505422602

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

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RECORDATION DATE: 04/11/2019 REEL/FRAME: 048857/0973

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 36302-0124001

ASSIGNOR:

LALKA, VIPUL KISHORE DOC DATE: 02/08/2018

ASSIGNOR:

WALIA, SARABJIT SINGH DOC DATE: 10/25/2017

ASSIGNOR:

"BOWNSBURY"""EDWARD""ROBERT" DOC DATE: 03/12/2018

Edward Robert Lucas Lounsbury

ASSIGNOR:

LEE, JOHN JONG-SUK DOC DATE: 12/01/2017

ASSIGNOR:

JAGGA, ARUN VICTOR DOC DATE: 03/08/2018

ASSIGNEE:

THE TORONTO-DOMINION BANK
66 WELLINGTON STREET WEST, 12TH
FLOOR
TORONTO, CANADA M5K 1A2

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV PATENT

**REEL: 049197 FRAME: 0770** 

APPLICATION NUMBER: 15724473 FILING DATE: 10/04/2017

PATENT NUMBER: ISSUE DATE:

TITLE: DYNAMIC NOTIFICATION ENGINE FOR NOTIFICATION THROTTLING BASED ON

CONTEXTUAL ANALYSES

ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

### 04/11/2019 505422602

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5469393

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
VIPUL KISHORE LALKA	02/08/2018
SARABJIT SINGH WALIA	10/25/2017
EDWARD-ROBERT-LOUNSBURY Edward Robert Lucas Lounsbury	03/12/2018
JOHN JONG-SUK LEE	12/01/2017
ARUN VICTOR JAGGA	03/08/2018

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Address Line 1: P.O. BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	36302-0124001	
NAME OF SUBMITTER:	C. JORDAN NEWELL	
SIGNATURE:	/C. Jordan Newell/	
DATE SIGNED:	04/11/2019	

**Total Attachments: 6** 

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Attorney Docket No.: 36302-0124001 / 17030-DCP-US-PAT

# **ASSIGNMENT**

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, <a href="VIPUL KISHORE LALKA">VIPUL KISHORE LALKA</a>, <a href="SARABJIT SINGH WALIA">SARABJIT SINGH WALIA</a>, <a href="EDWARD ROBERT LUCAS LOUNSBURY">EDWARD ROBERT LUCAS LOUNSBURY</a>, <a href="JOHN JONG-SUK LEE">JOHN JONG-SUK LEE</a>, and <a href="ARUN VICTOR JAGGA">ARUN VICTOR JAGGA</a>, each individually assign to <a href="THE TORONTO-DOMINION BANK">THE TORONTO-DOMINION BANK</a>, a corporation formed under the laws of <a href="Canada">Canada</a> and having a principal place of business at <a href="66 Wellington Street West">66 Wellington Street West</a>, <a href="12th 12th Floor">12th Floor</a>, Toronto, Ontario M5K <a href="1A2">1A2</a>, <a href="CANADA">CANADA</a>, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "<a href="DYNAMIC NOTIFICATION ENGINE FOR NOTIFICATION">DYNAMIC NOTIFICATION ENGINE FOR NOTIFICATION</a>
<a href="THROTTLING BASED ON CONTEXTUAL ANALYSES">THROTTLING BASED ON CONTEXTUAL ANALYSES</a>," and was filed in the United States Patent and Trademark Office on <a href="October 4">October 4</a>, <a href="2017">2017</a>, as application <a href="15/724,473">15/724,473</a> (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and

Vipul Kishore Lalka	Date: Feb 8, 2018
Sarabjit Singh Walia	Date:
Edward Robert Lucas Lounsbury	Date:
John Jong-Suk Lee	Date:
Arun Victor Jagga	Date:

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Vipul Kishore Lalka	Date:
Sarabjit Singh Walia	Date: 00+25/17
Edward Robert Lucas Lounsbury	Date:
John Jong-Suk Lee	Date:
Arun Victor Jagga	Date:

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Assignment Page 2 of 2

Vipul Kishore Lalka	Date:
Sarabjit Singh Walia	Date:
Shown Shy Edward Robert Lucas Lounsbury	Date: March 12, 2018
John Jong-Suk Lee	Date:
Arun Victor Jagga	Date:

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Assignment Page 2 of 2

Vipul Kishore Lalka	Date:
Sarabjit Singh Walia	Date:
Edward Robert Lucas Lounsbury	Date:
John Jong-Suk Lee	Date:
Arun Victor Jagga	Date:

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Vipul Kishore Lalka	Date:	
Sarabjit Singh Walia	Date:	_
Edward Robert Lucas Lounsbury	Date:	
John Jong-Suk Lee	Date:	_
Arun Victor Jagga	Date: MAR 0 8 2018	

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**RECORDED: 05/16/2019** 

Assignment Page 2 of 2