504884460 04/25/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

on v1.1 EPAS ID: PAT4931201

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------------|----------------|
| RAGHUNATHAN KOTHANDARAMAN | 11/03/2017 |
| DEEP DIXIT | 11/03/2017 |
| GAURAV GUPTA | 11/06/2017 |
| SASANKA RAJARAM | 11/03/2017 |
| ANKIT KUMAR | 11/03/2017 |
| MARK ARAN AIKEN | 11/03/2017 |
| DHAVAL PARMAR | 11/03/2017 |

RECEIVING PARTY DATA

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|-----------------|---------------------------|--|
| Street Address: | P.O. BOX 81226 | |
| City: | SEATTLE | |
| State/Country: | WASHINGTON | |
| Postal Code: | 98108-1226 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15262744 |

CORRESPONDENCE DATA

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Address Line 2: SUITE 1600E

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| ATTORNEY DOCKET NUMBER: | 170117-1910 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | KENNETH A . KNOX |
| SIGNATURE: | /Kenneth A. Knox/ |
| DATE SIGNED: | 04/25/2018 |

504884460 REEL: 045629 FRAME: 0452

| | | This document serves as an Oath/Declaration (37 CFR 1.63). |
|-----------------------|---------------------|--|
| Total Attachments: 11 | | |
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| source=P33394-US17 | 70117-1910 <u> </u> | ssignment_and_Declaration#page2.tif |
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| source=P33394-US17 | 70117-1910 <u> </u> | ssignment_and_Declaration#page11.tif |

U.S. Patent Appln. No. <u>15/262,744</u> Attorney Docket No. <u>170117-1910</u>

Filing Date September 12, 2016 Client Docket No. P33394-US

PARTIES TO THE ASSIGNMENT

Assignor(s):

Raghunathan Kothandaraman 410 Terry Avenue North

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Gaurav Gupta

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Sasanka Rajaram

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Ankit Kumar

410 Terry Avenue North Seattle, WA 98109-5210

Mark Aran Aiken

410 Terry Avenue North Seattle, WA 98109-5210

Dhaval Parmar

410 Terry Avenue North Seattle, WA 98109-5210

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"FILTERS AND EVENT SCHEMA FOR CATEGORIZING AND PROCESSING STREAMING EVENT DATA"

(Invention) for which a non-provisional application for United States Letters Patent (Application):

| \boxtimes | was filed on September 12, 2016 and accorded U.S. Application No. 15/262,744; or |
|-------------|---|
| | will be filed concurrently with the submission of this executed PATENT ASSIGNMENT |
| | for recordation. |

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of

Page 1 of 11

U.S. Patent Appln. No. 15/262,744

Attorney Docket No. 170117-1910

Filing Date September 12, 2016

Client Docket No. P33394-US

Title of Invention: FILTERS AND EVENT SCHEMA FOR CATEGORIZING AND PROCESSING

STREAMING EVENT DATA

Inventors: Raghunathan Kothandaraman, Deep Dixit, Gauray Gupta, Sasanka Rajaram, Ankit

Kumar, Mark Aran Aiken, Dhaval Parmar

Thomas | Horstemeyer, LLP, associated with Customer No. 71247, to insert in the header above

and here in parentheses (U.S. Patent Application No. 15/262,744, filed September 12, 2016) this

application's U.S. application number and filing date, when known.

WHEREAS, ASSIGNEE, a corporation of the State of Nevada, is desirous of acquiring the

entire right, title and interest in and to the Invention and in and to any letters patent that may

be granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of

which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its

successors and assigns, the entire right, title and interest in and to said Invention and any

improvements thereto, said Application and any and all letters patent which may be granted for

said Invention in the United States of America and its territorial possessions and in any and all

foreign countries, and in any and all provisional, divisions, reissues, re-examinations and

continuations thereof, including the right to file foreign applications directly in the name of

ASSIGNEE and to claim priority rights deriving from said Application to which said foreign

applications are entitled by virtue of international convention, treaty or otherwise, said

Invention, Application and all letters patent on said Invention to be held and enjoyed by

ASSIGNEE and its successors and assigns for their use and benefit and of their successors and

assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had

this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request

the Commissioner of Patents and Trademarks, as well as all other applicable patent offices

Page 2 of 11

U.S. Patent Appln. No. 15/262,744

Attorney Docket No. 170117-1910

Filing Date September 12, 2016

Client Docket No. P33394-US

Title of Invention: FILTERS AND EVENT SCHEMA FOR CATEGORIZING AND PROCESSING

STREAMING EVENT DATA

Inventors: Raghunathan Kothandaraman, Deep Dixit, Gauray Gupta, Sasanka Rajaram, Ankit

Kumar, Mark Aran Aiken, Dhaval Parmar

throughout the world, to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S)

agree to execute all instruments and documents required for the making and prosecution of

applications for United States and foreign letters patent on said Invention, for litigation

regarding said letters patent, or for the purpose of protecting title to said Invention or letters

patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its

successors, legal representatives, and assigns all claims for damages and all remedies arising out

of any violation of the rights assigned hereby that may have accrued prior to the date of

assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue

for, collect, and retain damages for past infringements of said letters patent before or after

issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will

communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to

ASSIGNOR respecting the Invention or said Application, and testify in any legal proceeding, assist

in the preparation of any other patent property relating to the Application and the Invention or

any improvements made thereto, sign/execute all lawful papers, provide all requested

documents, execute and make all rightful oaths and/or declarations in connection with the

Application and the Invention including any improvements made thereto, any patent

applications filed therefrom, and any continuing application filed from any of the

aforementioned applications, and generally do everything possible to aid ASSIGNEE, its

Page 3 of 11

U.S. Patent Appln. No. <u>15/262,744</u>

Attorney Docket No. <u>170117-1910</u>

Filing Date September 12, 2016

Client Docket No. <u>P33394-US</u>

Title of Invention: <u>FILTERS AND EVENT SCHEMA FOR CATEGORIZING AND PROCESSING STREAMING EVENT DATA</u>

Inventors: Raghunathan Kothandaraman, Deep Dixit, Gaurav Gupta, Sasanka Rajaram, Ankit Kumar, Mark Aran Aiken, Dhaval Parmar

successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Invention in all countries. These provisions are binding upon ASSIGNOR's heirs, legal representatives, administrators, and assigns.

U.S. Patent Appln. No. 15/262,744 Attorney Docket No. 170117-1910 Filing Date September 12, 2016 Client Docket No. P33394-US Title of Invention: FILTERS AND EVENT SCHEMA FOR CATEGORIZING AND PROCESSING STREAMING EVENT DATA Inventors: Raghunathan Kothandaraman, Deep Dixit, Gaurav Gupta, Sasanka Rajaram, Ankit Kumar, Mark Aran Aiken, Dhaval Parmar **DECLARATION** As a below named inventor, I hereby declare that: This declaration is directed to: the attached application; or \square United States Patent Application number 15/262,744 filed on September 12, 2016; or PCT International Application number ______ filed on _____ The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application. I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. /Raghunathan kothandaraman/ -- 1F34B426C6044F6... Raghunathan Kothandaraman November 3, 2017 Date

U.S. Patent Appln. No. 15/262,744 Attorney Docket No. 170117-1910 Filing Date September 12, 2016 Client Docket No. P33394-US Title of Invention: FILTERS AND EVENT SCHEMA FOR CATEGORIZING AND PROCESSING STREAMING EVENT DATA Inventors: Raghunathan Kothandaraman, Deep Dixit, Gaurav Gupta, Sasanka Rajaram, Ankit Kumar, Mark Aran Aiken, Dhaval Parmar **DECLARATION** As a below named inventor, I hereby declare that: This declaration is directed to: the attached application; or \square United States Patent Application number 15/262,744 filed on September 12, 2016; or PCT International Application number ______ filed on _____ The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application. I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. Deep Dixit November 3, 2017 Date

U.S. Patent Appln. No. <u>15/262,744</u>

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

Attorney Docket No. <u>170117-1910</u>

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| Filing Date <u>September 12, 2016</u> | | Client Docket No. <u>P33394-US</u> |
| Title of Invention: <u>FILTERS AND EVENT SC</u> STREAMING EVENT DATA | HEMA FOR CATEGORIZI | NG AND PROCESSING |
| nventors: Raghunathan Kothandaramar Kumar, Mark Aran Aiken, Dhaval Parma | | Supta, Sasanka Rajaram, Ankit |
| DECLARATION | | |
| As a below named inventor, I hereby dec | lare that: | |
| This declaration is directed to: | | |
| the attached application; or | | |
| ☐ United States Patent Applicat | ion number <u>15/262,74</u> | <u>4</u> filed on <u>September 12, 2016</u> ; or |
| PCT International Application | number | filed on |
| The above-identified application was made believe that I am the original inventor outplication. | | |
| have reviewed and understand the cont acknowledge the duty to disclose to the | | |
| me to be material to the patentability as | | |
| the to be material to the pateritability as | defined in 57 cm 1.50 | • |
| hereby acknowledge that any willful falsunder 18 USC 1001 by fine or imprisonme | | · |
| Docusigned by: 1 Gaway Guptal | | |
| Gaurav Gupta | | |
| | | |
| November 6, 2017 | | |
| Date | | |
| | | |

| U.S. Patent Appln. No. <u>15/262,744</u> | Attorney Docket No. <u>170117-1910</u> |
|---|--|
| Filing Date <u>September 12, 2016</u> | Client Docket No. <u>P33394-US</u> |
| Title of Invention: <u>FILTERS AND EVENT SCHEMA</u> <u>STREAMING EVENT DATA</u> | FOR CATEGORIZING AND PROCESSING |
| Inventors: Raghunathan Kothandaraman, Deep Kumar, Mark Aran Aiken, Dhaval Parmar | o Dixit, Gaurav Gupta, Sasanka Rajaram, Ankit |
| <u>DECLARATION</u> | |
| As a below named inventor, I hereby declare th | at: |
| This declaration is directed to: | |
| the attached application; or | |
| United States Patent Application nu | mber <u>15/262,744</u> filed on <u>September 12, 2016</u> ; or |
| PCT International Application numb | er filed on |
| The above-identified application was made or a | uthorized to be made by me. |
| I believe that I am the original inventor or an or application. | iginal joint inventor of a claimed Invention in the |
| I have reviewed and understand the contents o | f the above-identified application, and |
| acknowledge the duty to disclose to the US Pate | ent & Trademark Office all information known to |
| me to be material to the patentability as define | d in 37 CFR 1.56. |
| I hereby acknowledge that any willful false state under 18 USC 1001 by fine or imprisonment of | |
| DocuSigned by: /Sasauka Kajaram/ 7E9C3BD9CDB54A5 | |
| Sasanka Rajaram | |
| November 3, 2017 | |
| Date | |

| U.S. Patent Appln. No. <u>15/262,744</u> | Attorney Docket No. <u>170117-1910</u> |
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| Filing Date <u>September 12, 2016</u> | Client Docket No. <u>P33394-US</u> |
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| Inventors: Raghunathan Kothandaraman, Deel Kumar, Mark Aran Aiken, Dhaval Parmar | o Dixit, Gaurav Gupta, Sasanka Rajaram, Ankit |
| <u>DECLARATION</u> | |
| As a below named inventor, I hereby declare the | at: |
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| acknowledge the duty to disclose to the US Pat | ent & Trademark Office all information known to |
| me to be material to the patentability as define | d in 37 CFR 1.56. |
| I hereby acknowledge that any willful false statunder 18 USC 1001 by fine or imprisonment of | |
| Docusigned by: // / Lukit tumar/ | |
| November 3, 2017 | |
| Date | |

U.S. Patent Appln. No. 15/262,744 Attorney Docket No. 170117-1910 Filing Date September 12, 2016 Client Docket No. P33394-US Title of Invention: FILTERS AND EVENT SCHEMA FOR CATEGORIZING AND PROCESSING STREAMING EVENT DATA Inventors: Raghunathan Kothandaraman, Deep Dixit, Gaurav Gupta, Sasanka Rajaram, Ankit Kumar, Mark Aran Aiken, Dhaval Parmar **DECLARATION** As a below named inventor, I hereby declare that: This declaration is directed to: the attached application; or \square United States Patent Application number 15/262,744 filed on September 12, 2016; or PCT International Application number ______ filed on _____ The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application. I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. Mark dran diken/ -- A73338EACFB24CC... Mark Aran Aiken November 3, 2017 Date

| U.S. Patent Appln. No. <u>15/262,744</u> | Attorney Docket No. <u>170117-1910</u> | |
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| Filing Date <u>September 12, 2016</u> | Client Docket No. <u>P33394-US</u> | |
| Title of Invention: <u>FILTERS AND EVENT SCHEN</u> <u>STREAMING EVENT DATA</u> | 1A FOR CATEGORIZING AND PROCESSING | |
| Inventors: Raghunathan Kothandaraman, De Kumar, Mark Aran Aiken, Dhaval Parmar | eep Dixit, Gaurav Gupta, Sasanka Rajaram, Ankit | |
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| | | |
| The above-identified application was made of | or authorized to be made by me. | |
| I believe that I am the original inventor or an | original joint inventor of a claimed Invention in the | |
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| I have reviewed and understand the content | s of the above-identified application, and | |
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| acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56. | | |
| The to be material to the pateritability as der | med iii 37 CFR 1.30. | |
| I hereby acknowledge that any willful false s | tatement made in this declaration is punishable | |
| under 18 USC 1001 by fine or imprisonment | of not more than five (5) years, or both. | |
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| DocuSigned by: | | |
| Dhaval Parmar/ | | |
| OABC767B6A9E464 Dhaval Parmar | | |
| Dilavai Fallilai | | |
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| November 3, 2017 | | |
| Date | | |

Page 11 of 11