

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE REEL 052115 / FRAME 0318	
CONVEYING PARTY DATA		
Name		Execution Date
KKR LOAN ADMINISTRATION SERVICES LLC		09/30/2022
RECEIVING PARTY DATA		
Name:	TIBCO SOFTWARE INC.	
Street Address:	3303 HILLVIEW AVENUE	
City:	PALO ALTO	
State/Country:	CALIFORNIA	
Postal Code:	94304	
PROPERTY NUMBERS Total: 130		
Property Type	Number	
Application Number:	11981137	
Application Number:	09583244	
Application Number:	10728732	
Application Number:	11395586	
Application Number:	11487130	
Application Number:	09443778	
Application Number:	11400070	
Application Number:	11784209	
Application Number:	13333993	
Application Number:	12433094	
Application Number:	13464814	
Application Number:	12433742	
Application Number:	12576186	
Application Number:	13225147	
Application Number:	13562047	
Application Number:	11623010	
Application Number:	13084288	
Application Number:	13225174	
Application Number:	12536444	
Application Number:	13536720	

PATENT

Property Type	Number
Application Number:	12522907
Application Number:	13225261
Application Number:	11866337
Application Number:	13668847
Application Number:	10992230
Application Number:	10898017
Application Number:	10432791
Application Number:	11644217
Application Number:	11644189
Application Number:	10305759
Application Number:	09746757
Application Number:	10687951
Application Number:	09518480
Application Number:	12906862
Application Number:	11675987
Application Number:	13098435
Application Number:	13298234
Application Number:	14300051
Application Number:	13837252
Application Number:	09784988
Application Number:	11458062
Application Number:	10611232
Application Number:	11734105
Application Number:	10278728
Application Number:	10058152
Application Number:	11180075
Application Number:	11468753
Application Number:	12762249
Application Number:	12840205
Application Number:	10063834
Application Number:	10271916
Application Number:	13104369
Application Number:	13117113
Application Number:	13117115
Application Number:	13116528
Application Number:	13173345
Application Number:	13077918
Application Number:	13298236

Property Type	Number
Application Number:	13298230
Application Number:	13298237
Application Number:	13594589
Application Number:	13298232
Application Number:	13452654
Application Number:	13685489
Application Number:	13842389
Application Number:	13842443
Application Number:	14479090
Application Number:	14336173
Application Number:	13975000
Application Number:	13946592
Application Number:	13782958
Application Number:	14012712
Application Number:	14188371
Application Number:	14925901
Application Number:	14925903
Application Number:	14666918
Application Number:	14976237
Application Number:	15067643
Application Number:	15662140
Application Number:	11173991
Application Number:	14665292
Application Number:	14540996
Application Number:	14702500
Application Number:	15647237
Application Number:	15942050
Application Number:	15274120
Application Number:	13357246
Application Number:	13357265
Application Number:	11824502
Application Number:	15186877
Application Number:	15908552
Application Number:	15582336
Application Number:	16706326
Application Number:	14690600
Application Number:	15941911
Application Number:	10439411

Property Type	Number
Application Number:	16104050
Application Number:	15344138
Application Number:	16385411
Application Number:	15139672
Application Number:	14826770
Application Number:	14919493
Application Number:	12011956
Application Number:	15076296
Application Number:	15831077
Application Number:	11824471
Application Number:	15994686
Application Number:	15674861
Application Number:	14951469
Application Number:	14952884
Application Number:	16141635
Application Number:	16168661
Application Number:	15417635
Application Number:	14718804
Application Number:	15214622
Application Number:	15237978
Application Number:	15427818
Application Number:	11361697
Application Number:	15357924
Application Number:	16691407
Application Number:	16738999
Application Number:	16352608
Application Number:	16596641
Application Number:	62858165
Application Number:	16116771
Application Number:	15812784
Application Number:	15406058
Application Number:	15382269
Application Number:	13957280
Application Number:	15217907

CORRESPONDENCE DATA

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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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NAME OF SUBMITTER:	JESSICA DIAS-JAYASINGHE
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SIGNATURE:	/Jessica Dias-Jayasinghe/
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DATE SIGNED:	10/03/2022
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Total Attachments: 33

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RELEASE OF SECURITY INTEREST IN PATENTS INTELLECTUAL PROPERTY

This RELEASE OF SECURITY INTEREST IN PATENTS INTELLECTUAL PROPERTY (this “Release”), dated as of September 30, 2022 (the “Effective Date”), is made by KKR Loan Administration Services LLC, in its capacity as collateral agent (the “Agent”), in favor of the grantor party identified on the signature page hereto (the “Grantor”).

WHEREAS, pursuant to that certain Second Lien Security Agreement, dated as of March 4, 2020, by and among the Agent, the Grantor and certain other parties thereto (as amended, amended and restated, or otherwise modified from time to time, the “Security Agreement”), the Grantor granted to the Agent, in its capacity as Collateral Agent, a security interest in and to certain collateral;

WHEREAS, pursuant to the Security Agreement, the Grantor executed and delivered a Patent Security Agreement, dated as of March 4, 2020 (the “Patent Security Agreement”), for recordal with the United States Patent and Trademark Office;

WHEREAS, the Patent Security Agreement was recorded with the United States Patent and Trademark Office on March 6, 2020 at Reel/Frame 052115/0318;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Agent hereby agrees as follows:

1. Defined Terms. All capitalized terms used, but not otherwise defined herein, shall have the respective meanings ascribed in or otherwise referenced in the Security Agreement or the Patent Security Agreement, as applicable.

2. Release. The Agent, without representation or warranty of any kind, hereby releases, discharges, terminates and cancels all of its security interest in and to the Patent Collateral, including the patents and patent applications set forth Schedule I attached hereto, arising under the Security Agreement and the Patent Security Agreement. If and to the extent that the Agent has acquired any right, title or interest in and to the Patent Collateral under the Patent Security Agreement, the Agent, without representation or warranty of any kind, hereby re-transfers, re-conveys and re-assigns such right, title or interest to the Grantor.

3. Termination. The Agent, without representation or warranty of any kind, terminates and cancels the Patent Security Agreement.

4. Further Assurances. The Agent agrees to take all further actions, and provide to the Grantor and its successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), reasonably requested by the Grantor, at the Grantor’s sole cost and expense, to more fully and effectively effectuate the purposes of this Release.

5. Governing Law. This Release shall be governed exclusively under the laws of the State of New York, without regard to conflicts of law or choice of law principles.

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IN WITNESS WHEREOF, the Agent has caused this Release to be executed by its duly authorized representative as of the Effective Date:

**KKR Loan Administration Services LLC,
acting in its capacity as collateral agent for the
Secured Parties**

By: John Knox

Name: John Knox

Title: CFO

GRANTORS:

TIBCO SOFTWARE INC.

SCHEDULE I

UNITED STATES PATENTS AND PATENT APPLICATIONS

United States Patent Applications and Patents:

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	11/981137	10/31/2007	CON - UTL	8195739	6/5/2012	ADAPTIVE POLLING	Lee, Peter; Bernardin, James; Lewis, James
USA	Granted	09/583244	5/31/2000	UTL	6757730	6/29/2004	METHOD, APPARATUS AND ARTICLES-OF-MANUFACTURE FOR NETWORK-BASED DISTRIBUTED COMPUTING	Lee, Peter; Bernardin, James
USA	Granted	10/728732	12/5/2003	CIP - UTL	7130891	10/31/2006	SCORE-BASED SCHEDULING OF SERVICE REQUESTS IN A GRID SERVICES COMPUTING PLATFORM	Lee, Peter; Bernardin, James

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	11/395586	3/30/2006	UTL	7870568	1/11/2011	ADAPTIVE SHARED COMPUTING INFRASTRUCTURE FOR APPLICATION SERVER-BASED DEPLOYMENTS	James Bernardin Alexander Iskold
USA	Granted	11/487130	7/14/2006	UTL	7584281	9/1/2009	METHOD FOR ALLOCATING SHARED COMPUTING INFRASTRUCTURE FOR APPLICATION SERVER-BASED DEPLOYMENTS	James Bernardin Alexander Iskold
USA	Granted	09/443778	11/19/1999	UTL	6532448	3/11/2003	CONTEST SERVER	Gary Todd Higginson, Charles J. Digate
USA	Granted	11/400070	4/7/2006	UTL	7739311	6/15/2010	Method and System for Handling Large Data Sets in a Statistical Language	David M. Smith, Michael J. Sannella, Charles B. Rosen, William W. Dunlap
USA	Granted	11/784209	4/4/2007	UTL	8087002	12/27/2011 1	Method and System for Providing a Visual Debugger for an Interpreted Statistical Language	Brian Fjeldstad, Michael J. Sannella, Charles B. Rosen

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	13/333993	12/21/2011	CON - UTL	8286142	10/9/2012	Method and System for Providing a Visual Debugger for an Interpreted Statistical Language	Brian Fieldstad, Michael J. Sannella, Charles B. Rosen
USA	Granted	12/433094	4/30/2009	UTL	8219852	7/10/2012	JAVA VIRTUAL MACHINE HAVING INTEGRATED TRANSACTION MANAGEMENT SYSTEM	Otto Lind, Jonathon C. Pile, Ramiro Sarmiento, Daniel J. Sifter, David Stone, Xiguang
USA	Granted	13/464814	5/4/2012	UTL	8438421	5/7/2013	JAVA VIRTUAL MACHINE HAVING INTEGRATED TRANSACTION MANAGEMENT SYSTEM	Jonathon C. Pile, Ramiro Sarmiento, Daniel J. Sifter, David Stone, Xiguang
USA	Granted	12/433742	4/30/2009	UTL	8606877	12/10/2013	JAVA VIRTUAL MACHINE HAVING INTEGRATED TRANSACTION MANAGEMENT SYSTEM	Otto Lind, Jonathon C. Pile, Ramiro Sarmiento, Daniel J. Sifter, David Stone, Xiguang Zang, Mark Phillips

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	12/576186	10/8/2009	UTL	8407723	3/26/2013	JAVA VIRTUAL MACHINE HAVING INTEGRATED TRANSACTION MANAGEMENT SYSTEM AND FACILITY TO QUERY MANAGED OBJECTS	Otto Lind, Jonathon C. Pile, Ramiro Sarmiento, Daniel J. Sifter, David Stone, Xiguang Zang, Mark Phillips
USA	Granted	13/225147	9/2/2011	UTL	9191323	11/17/2015	ADAPTIVE DATA TRANSMISSION	Stephen Manley, Laurent Pautet, Prasanna Kumar Malaiyandi
USA	Granted	13/562047	7/30/2012	UTL	8903836	12/2/2014	SYSTEM AND METHOD FOR PARSING, SUMMARIZING AND REPORTING LOG DATA	Jason Michael Destefano, Thomas Hunt Schabo Grabowski
USA	Granted	11/623010	1/12/2007	UTL	7925678	4/12/2011	CUSTOMIZED REPORTING AND MINING OF EVENT DATA	Sherif Botros, Jian L. Zhen, Minjun Liu, Boris Galitsky
USA	Granted	13/084288	4/11/2011	UTL	8380752	2/19/2013	CUSTOMIZED REPORTING AND MINING OF EVENT DATA	Sherif Botros, Jian L. Zhen, Minjun Liu, Boris Galitsky

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	13/225174	9/2/2011	UTL	8484230	7/9/2013	DYNAMIC PARSING RULES	Tim Harnet, Achyutram Bhamidipaty, Abinas Tewari, Stephen Manley, Stephen Morgan, Peter Nicklin, Jean-Francois Roy
USA	Granted	12/536444	8/5/2009	UTL	8386498	2/26/2013	MESSAGE DESCRIPTIONS	Sanford Whitehouse
USA	Granted	13/536720	6/28/2012	UTL	9298691	3/29/2016	METHOD AND APPARATUS FOR RETRIEVING AND COMBINING SUMMARIZED LOG DATA IN A DISTRIBUTED LOG DATA PROCESSING SYSTEM	Jason Destefano, Tomasz Mojisa, Thomas Schabo Grabowski

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	12/522907	5/7/2010	UTL	8510467	8/13/2013	METHOD FOR MONITORING A MESSAGE ASSOCIATED WITH AN ACTION	Veronique Legrand, David Maciejak, Jacques Saraydaryan, Laurent Pautet, Christophe Briguet, Fatiha Benali
								Assignee: EPT Innovation
USA	Granted	13/225261	9/2/2011	UTL	8433823	4/30/2013	RANDOM ACCESS DATA COMPRESSION	Jean-Christophe Roger Hugly, Stephen Manley
USA	Granted	11/866337	10/2/2007	UTL	8306967	11/6/2012	SEARCHING FOR ASSOCIATED EVENTS IN LOG DATA	Boris Galitsky, Sherif Botros
USA	Granted	13/668847	11/5/2012	UTL-CON	9171037	10/27/2011	SEARCHING FOR ASSOCIATED EVENTS IN LOG DATA	Boris Galitsky, Sherif Botros
USA	Granted	10/992230	11/18/2004	UTL	8234256	7/31/2012	SYSTEM AND METHOD FOR PARSING, SUMMARIZING AND REPORTING LOG DATA	Jason Michael Destefano, Thomas Hunt Schabo Grabowski

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	10/898017	7/23/2004	UTL	7599939	10/6/2009	SYSTEM AND METHOD FOR STORING RAW LOG DATA	Jason Michael Destefano, Ralph D. Jenson
USA	Granted	10/432791	5/22/2003	UTL	7107263	9/12/2006	IMPROVED MULTISTAGE INTELLIGENT DATABASE SEARCH METHOD	Yianilos, Peter, N. Kanzelberger, Kirk, G
								Assignee: Netrics.com LLC
USA	Granted	11/644217	12/22/2006	UTL	8769485	7/1/2014	DATA PARALLELISM AND PARALLEL OPERATIONS IN STREAM PROCESSING	Jonathan Salz, Richard Tibbetts
USA	Granted	11/644189	12/22/2006	UTL	9038041	5/19/2015	STREAM PROCESSOR WITH COMPILED PROGRAMS	Jonathan Salz, Richard Tibbetts
USA	Granted	10/305759	11/27/2002	UTL	6970981	11/29/2005	METHOD AND APPARATUS TO MAINTAIN CONSISTENCY BETWEEN AN OBJECT STORE AND A PLURALITY OF CACHES UTILIZING TRANSACTIONAL UPDATES TO DATA	Michael John Kanaley

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	09/746757	12/21/2000	UTL	7051118	5/23/2006	METHOD AND APPARATUS FOR ANONYMOUS SUBJECT-BASED ADDRESSING	Derek L. Collison
USA	Granted	10/687951	10/17/2003	UTL	8606859	12/10/2013	METHOD AND SYSTEM TO COMMUNICATE MESSAGES IN A COMPUTER NETWORK	Derek L. Collison
USA	Granted	09/518480	3/3/2000	UTL	7823066	10/26/2010	INTELLIGENT CONSOLE FOR CONTENT-BASED INTERACTIVITY	Don Yamato Kuramura
USA	Granted	12/906862	10/18/2010	UTL	8966368	2/24/2015	INTELLIGENT CONSOLE FOR CONTENT-BASED INTERACTIVITY (Continuation)	Don Yamato Kuramura
USA	Granted	11/675987	2/16/2007	UTL	8984280	3/17/2015	SYSTEMS AND METHODS FOR AUTOMATING CERTIFICATION AUTHORITY PRACTICES	Daniel J.G. Van Der Rijn

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	13/098435	4/30/2011	UTL	1027551 8	4/30/2019	INTEGRATED PHONETIC MATCHING METHODS AND SYSTEMS	Kirk G. Kanzelberger
USA	Granted	13/298234	11/16/2011	UTL	9049162	6/2/2015	COMPRESSION OF MESSAGE INFORMATION TRANSMITTED OVER A NETWORK	Russell Selph
USA	Granted	14/300051	6/9/2014	UTL	9137337	9/15/2015	HIERARCHICAL BITMASKS FOR INDICATING THE PRESENCE OR ABSENCE OF SERIALIZED DATA FIELDS	Dan Leshchiner
USA	Granted	13/837252	3/15/2013	UTL	9317808	4/19/2016	PREDICTIVE SYSTEM FOR DESIGNING ENTERPRISE APPLICATIONS	Najeeb Andrabi
USA	Granted	09/784988	2/15/2001	UTL	7039050	5/2/2006	INTRA-PROCESS MESSAGE SWITCH	Girish K. Mutreja

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	11/458062	7/17/2006	UTL	7530078	5/5/2009	CERTIFIED MESSAGE DELIVERY AND QUEUING IN MULTIPPOINT PUBLISH/SUBSCRIBE COMMUNICATIONS	Derek L. Collison Dan Leshchiner Dennis R. Page
USA	Granted	10/611232	6/30/2003	UTL	7225411	5/29/2007	EFFICIENT TRANSFORMATION OF INFORMATION BETWEEN A SOURCE SCHEMA AND A TARGET SCHEMA	Mike Stoner Neal Cruz
USA	Granted	11/734105	4/11/2007	UTL	8392356	3/5/2013	EFFICIENT TRANSFORMATION OF INFORMATION BETWEEN A SOURCE SCHEMA AND A TARGET SCHEMA (Divisional)	Mike Stoner Neal Cruz

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	10/278728	10/22/2002	UTL	8136109	3/13/2012	DELIVERY OF DATA AND FORMATTING INFORMATION TO ALLOW CLIENT-SIDE MANIPULATION	Lucas Birdeau Clifford Yeh Michael Peachey Kevin Hakman
USA	Granted	10/058152	1/25/2002	UTL	7107543	9/12/2006	SINGLE APPLET TO COMMUNICATE WITH MULTIPLE HTML ELEMENTS CONTAINED INSIDE OF MULTIPLE CATEGORIES ON A PAGE	David Berry Larry Neumann
USA	Granted	11/180075	7/12/2005	UTL	7472101	12/30/2008	INFERENTIAL STATE MACHINES	Puneet Aurora Suresh Subramani Nick Che Ken Leong
USA	Granted	11/468753	8/30/2006	UTL	7606836	10/20/2009	METHODS FOR EFFICIENT DATA VERSION VERIFICATION	Mark L. Lambert Michael John Kanaley
USA	Granted	12/762249	4/16/2010	UTL	9235623	1/12/2016	POLICY-BASED STORAGE STRUCTURE DISTRIBUTION	Jean-Noel Moyne Suresh Subramani Tom M. Kim

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	12/840205	7/20/2010	UTL	8996609	3/31/2015	CONNECTED INSTANCE GROUP OF DYNAMICALLY ADDRESSED HOSTS	Michael Wang Ken Leung
USA	Granted	10/063834	5/16/2002	UTL	7106891	9/12/2006	SYSTEM AND METHOD FOR DETERMINING CONVERGENCE OF IMAGE SET REGISTRATION	Bradley Wyman Lydia Ng
USA	Granted	10/271916	10/15/2002	UTL	7158692	1/2/2007	SYSTEM AND METHOD FOR MINING QUANTITATIVE INFORMATION FROM MEDICAL IMAGES	Vikram Chalana Stephen Fogarasi
USA	Granted	13/104369	5/10/2011	UTL	8789010	7/22/2014	MANAGING STATIC DATA STRUCTURES OF LEGACY SOFTWARE IN DYNAMIC CLASS LOADER ENVIRONMENTS	Mark L. Lambert Laurent Domenech

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	13/117113	5/26/2011	UTL	8930941	1/6/2015	CAPABILITY MODEL FOR DEPLOYING COMPONENTIZED APPLICATIONS	Scott Vorthmann Daniel J.G. Van Der Rijn Mark L. Lambert Laurent Domenech Michael John Kanaley
USA	Granted	13/117115	5/26/2011	UTL	8930942	1/6/2015	CAPABILITY MODEL FOR DEPLOYING COMPONENTIZED APPLICATIONS	Scott Vorthmann Daniel J.G. Van Der Rijn Mark L. Lambert Laurent Domenech Michael John Kanaley
USA	Granted	13/116528	5/26/2011	UTL	8560895	10/15/2013	DISTILLATION AND RECONSTRUCTION OF PROVISIONING COMPONENTS	David Kemper
USA	Granted	13/173345	6/30/2011	UTL	8745061	6/3/2014	SUFFIX ARRAY CANDIDATE SELECTION AND INDEX DATA STRUCTURE	Patrick Austermann
USA	Granted	13/077918	3/31/2011	UTL	9607044	3/28/2017	RELATIONAL DATABASE JOINS FOR INEXACT MATCHING	Fletcher Foit Bruce Zuidema

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	13/298236	11/16/2011	UTL	8751671	6/10/2014	HIERARCHICAL BITMASKS FOR INDICATING THE PRESENCE OR ABSENCE OF SERIALIZED DATA FIELDS	Dan Leshchiner
USA	Granted	13/298230	11/16/2011	UTL	8694536	4/8/2014	FAST MATCHING FOR CONTENT-BASED ADDRESSING	Dan Leshchiner
USA	Granted	13/298237	11/16/2011	UTL	8898399	11/25/2014	LOCKING AND SIGNALING FOR IMPLEMENTING MESSAGING TRANSPORTS WITH SHARED MEMORY	Dan Leshchiner Balbhim Mahurka
USA	Granted	13/594589	8/24/2012	UTL	8892670	11/18/2014	COLLABORATIVE, CONTEXTUAL ENTERPRISE NETWORKING SYSTEMS AND METHODS	Sriram Chakravarthy, Gopala Janyanam, Madhav Vodalala, Chih-Ming Yi, Weiwen Weng,
USA	Granted	13/298232	11/16/2011	UTL	8732320	5/20/2014	FAST CONTENT-BASED ROUTING	Dan Leshchiner Balbhim Mahurka Russell Selph

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	13/452654	4/20/2012	UTL	8903797	12/2/2014	SYSTEM AND METHOD FOR LOADING OBJECTS FOR OBJECT-RELATIONAL MAPPING	Jonas Bo Lagerblad Asquith A. Bailey Arun L. Katkere
USA	Granted	13/685489	11/26/2012	UTL	8880511	11/4/2014	IMPROVED DATABASE QUERY OPTIMIZATION AND COST ESTIMATION	Tom M. Kim Firat Kart Suresh Subramani
USA	Granted	13/842389	3/15/2013	UTL	9418130	8/16/2016	DATA REPLICATION PROTOCOL WITH EFFICIENT UPDATE OF REPLICA MACHINES	Dan Leshchiner Mathias Hanel
USA	Granted	13/842443	3/15/2013	UTL	9081843	7/14/2015	DATA REPLICATION PROTOCOL WITH STEADY STATE DATA DISTRIBUTION AND QUORUM FORMATION	Dan Leshchiner Mathias Hanel

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	14/479090	9/5/2014	UTL	9141349	9/22/2015	VISUAL DEVELOPMENT ENVIRONMENT FOR IMPLEMENTING LOGIC MODULES	Sabin Iceleanu Thomas Hillman Yang Yang
USA	Granted	14/336173	7/21/2014	UTL	1096993 1	4/6/2021	DATA MAPPING SERVICE	Lucas Birdeau
USA	Granted	13/975000	8/23/2013	UTL	9519879	12/13/2016	JUST IN TIME COMPILATION (JIT) FOR BUSINESS PROCESS EXECUTION	Suresh Subramani, Pranab Dhar, Alan Amaya
USA	Granted	13/946592	7/19/2013	UTL	9336203	5/10/2016	SEMANTICS-ORIENTED ANALYSIS OF LOG MESSAGE CONTENT	Michael Perrone
USA	Granted	13/782958	3/1/2013	UTL	9444694	9/13/2016	VIRTUAL CLUSTERS TO PROVIDE FAULT CONTAINMENT	Steven Sweeting
USA	Granted	14/012712	8/28/2013	UTL	1005143 8	8/14/2018	MESSAGE MATCHING	Stephen Asbury, Russell Selph
USA	Granted	14/188371	2/24/2014	UTL	9323501	4/26/2016	MODULARIZED XML NAMESPACES	Sabin Ielceanu Joe Baysdon Tim Diekmann

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	14/925,901	10/28/2015	UTL	11030552	6/8/2021	CONTEXT AWARE RECOMMENDATION OF ANALYTIC COMPONENTS	Thomas Jörgen Gustafsson Gustav Sebastian Karlberg Per Erik Vilhelm Brandin Magnus Niklas Amberitsson Nils Magnus Rylander Jonas Mikael Svensson Anders Erik Jakob Gavare Lars Martin Sjögren Knut Tobias Lethipalo Anders Fougstedt Johanna Altenstedt Maria Redström
USA	Granted	14/925,903	10/28/2015	UTL	11164090	11/2/2021	TIME-BASED AGGREGATION TO FEED A RETE ENGINE	Laurent Pautet

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	14/666918	3/24/2015	UTL	10007681	6/26/2018	ADAPTIVE SAMPLING VIA ADAPTIVE OPTIMAL EXPERIMENTAL DESIGNS TO EXTRACT MAXIMUM INFORMATION FROM LARGE DATA REPOSITORIES	Hill, Thomas; Lewicki, Pawel
USA	Granted	14/976237	12/21/2015	UTL	9983774	5/29/2018	AUTHORING AND CONSUMING OFFLINE AND INTERACTIVE DATA ANALYSIS DOCUMENT	Ahlberg, Kim Petter Ake; Bernhard, William J; Disdero, Christopher
USA	Granted	15/067643	3/11/2016	UTL	10671603	6/2/2020	AUTO QUERY CONSTRUCTION FOR IN-DATABASE PREDICTIVE ANALYTICS	Butler, George R; Hill, Thomas; Rastunkov, Vladimir S

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	15/662140	7/27/2017	UTL	1107406 7	7/27/2021	AUTO-GENERATION OF APPLICATION PROGRAMMING INTERFACE (API) DOCUMENTATION VIA IMPLEMENTATION-NEUTRAL ANALYSIS OF API TRAFFIC	Pollock, Jeremy
USA	Granted	11/173991	6/30/2005	UTL	8296654	10/23/2012	AUTOMATIC GUIDE FOR DATA ANALYSIS	Ahlberg, Christopher; Altenstedt, Johanna; Bauerle, Lars; Edgren, Rikard; Jernberg, Stefan; Lehtipalo, Tobias; Lundberg, Anna
USA	Granted	14/665292	3/23/2015	UTL	1048191 9	11/19/2019	AUTOMATIC OPTIMIZATION OF CONTINUOUS PROCESSES	Hill, Thomas; Lewicki, Pawel
USA	Granted	14/540996	11/13/2014	UTL-CON	9497263	11/15/2016	COLLABORATIVE, CONTEXTUAL ENTERPRISE NETWORKING SYSTEMS AND METHODS	Chakravarthy, Sriram; Janjanam, Gopala; Vodnala, Madhav; Weng, Weiwen; Yi, Chih-Ming

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	14/702500	5/1/2015	UTL	9736097	8/15/2017	COMPRESSION OF MESSAGE INFORMATION TRANSMITTED OVER A NETWORK	Selph, Russell
USA	Granted	15/647237	7/11/2017	UTL	1009748 7	10/9/2018	COMPRESSION OF MESSAGE INFORMATION TRANSMITTED OVER A NETWORK	Selph, Russell
USA	Granted	15/942050	3/30/2018	UTL-CON	1056040 6	2/11/2020	COMPRESSION OF MESSAGE INFORMATION TRANSMITTED OVER A NETWORK	Selph, Russell
USA	Granted	15/274120	9/23/2016	UTL	1021649 8	2/26/2019	CUSTOM-BUILT PROCESS ENGINE WITH MINIMAL MEMORY AND DISK RESOURCE CONSUMPTION	Kozhikkattuthodi, Rajeev; Martinez, Francisco
USA	Granted	13/357246	1/24/2012	UTL	9043337	5/26/2015	DATA MINING AND MODEL GENERATION USING AN IN-DATABASE ANALYTIC FLOW GENERATOR	Chen, Yi-Ling; Wong, Anderson

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	13/357265	1/24/2012	UTL	9043344	5/26/2015	DATA MINING AND MODEL GENERATION USING AN IN-DATABASE ANALYTIC FLOW GENERATOR	Chen, Yi-Ling; Wong, Anderson
USA	Granted	11/824502	6/29/2007	UTL	8566334	10/22/2013	DATA VISUALIZATION SYSTEM WITH AXIS BINDING	Fortes, Tommy; Lehtipalo, Tobias; Thoresson, Johan; Vulcan, Daniel; Wallerstedt, Mattias
USA	Granted	15/186877	6/20/2016	UTL	10839024	11/17/2020	DETECTING IMPORTANT VARIABLES AND THEIR INTERACTIONS IN BIG DATA	Hill, Thomas; Rastunkov, Vladimir S; Scott, Daniel W
USA	Pending	15/908552	2/28/2018	UTL	—	—	DISTRIBUTED PROCESSING OF A LARGE MATRIX DATA SET	Chakraborty, Sayan

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	15/582336	4/28/2017	UTL	1052839 1	1/7/2020	EXECUTION MANAGER FOR BINARY OBJECTS OPERATING ACROSS PRIVATE ADDRESS SPACES	Driver, John; Fatemi, Reza
USA	Granted	16/706326	12/6/2019	UTL-CIP	1121637 2	1/4/2022	EXECUTION MANAGER FOR BINARY OBJECTS OPERATING ACROSS PRIVATE ADDRESS SPACES	Reza Fatemi John Driver
USA	Granted	14/690600	4/20/2015	UTL	9952577	4/24/2018	GRAPH THEORY AND NETWORK ANALYTICS AND DIAGNOSTICS FOR PROCESS OPTIMIZATION IN MANUFACTURING	Hill, Thomas; Lewicki, Pawel

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	15/941911	3/30/2018	UTL	10248110	4/2/2019	GRAPH THEORY AND NETWORK ANALYTICS AND DIAGNOSTICS FOR PROCESS OPTIMIZATION IN MANUFACTURING	Hill, Thomas; Lewicki, Pawel
USA	Granted	10/439411	5/15/2003	UTL	7805437	9/28/2010	INTERACTIVE SAR TABLE	Andersson, Tomas A Ke; Blom, Leif Fredrik; Ladd, William M
USA	Granted	16/104050	8/16/2018	UTL	10891114	1/12/2021	INTERPRETER FOR INTERPRETING A DATA MODEL ALGORITHM AND CREATING A DATA SHEMA	Langdon, Andrew
USA	Granted	15/344138	11/4/2016	UTL	10311392	6/4/2019	JUST IN TIME COMPILATION (JIT) FOR BUSINESS PROCESS EXECUTION	Amaya, Alan; Dhar, Pranab K; Subramani, Suresh
USA	Granted	16/385411	4/16/2019	UTL	10657476	5/19/2020	JUST IN TIME COMPIATION (JIT) FOR BUSINESS PROCESS EXECUTION	Amaya, Alan; Dhar, Pranab K; Subramani, Suresh

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	15/139672	4/27/2016	UTL	1046722 6	11/5/2019	METHOD FOR IN-DATABASE FEATURE SELECTION FOR HIGH-DIMENSIONAL INPUTS	Butler, George R; Hill, Thomas; Rastunkov, Vladimir S
USA	Granted	14/826770	8/14/2015	UTL	1064997 3	5/12/2020	METHOD FOR PERFORMING IN-DATABASE DISTRIBUTED ADVANCED PREDICTIVE ANALYTICS MODELING VIA COMMON QUERIES	Butler, George R; Hill, Thomas; Rastunkov, Vladimir S
USA	Granted	14/919493	10/21/2015	UTL	1025556 8	4/9/2019	METHODS AND SYSTEMS FOR SELECTING A DATA TRANSMISSION PATH FOR NAVIGATING A DYNAMIC DATA STRUCTURE	Sutton, Nathan D

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	12/011956	1/29/2008	UTL	9027039	5/5/2015	METHODS FOR ANALYZING, LIMITING, AND ENHANCING ACCESS TO AN INTERNET API, WEB SERVICE, AND DATA	Loveless, Clay; Michels, Oren
USA	Granted	15/076296	3/21/2016	UTL	9864581	1/9/2018	MODULARIZED XML NAMESPACES	Baysdon, Joseph T; Diekmann, Tim R; Jelceanu, Sabin S
USA	Granted	15/831077	12/4/2017	UTL	10095483	10/9/2018	MODULARIZED XML NAMESPACES	Baysdon, Joseph T; Diekmann, Tim R; Jelceanu, Sabin S
USA	Granted	11/824471	6/29/2007	UTL	8190619	5/29/2012	MULTI-SOURCE DATA VISUALIZATION SYSTEM	Fortes, Tommy; Lehtipalo, Tobias; Thoresson, Johan; Vulcan, Daniel
USA	Granted	15/994686	5/31/2018	UTL	11449470	9/20/2022	PATCHING JSON DOCUMENTS THAT CONTAIN ARRAYS UNDERGOING CONCURRENT MODIFICATION	Augustine, Joshy Mannacherry; Morgan, Simon Alexander; Phillips, Howard Spencer

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	15/674861	8/11/2017	UTL	1054015 5	1/21/2020	PLATFORM-AGNOSTIC PREDICTIVE MODELS BASED ON DATABASE MANAGEMENT SYSTEM INSTRUCTIONS	Hillion, Steven; Spracklen, Lawrence; Thyen, Michael
USA	Granted	14/951469	11/24/2015	UTL	1092940 1	2/23/2021	POLICY-BASED STORAGE STRUCTURE DISTRIBUTION	Kart, Firat; Kim, Tom M; Moyne, Jean-Noel; Subramani, Suresh
USA	Granted	14/952884	11/25/2015	UTL	9367600	6/14/2016	POLICY-BASED STORAGE STRUCTURE DISTRIBUTION	Kim, Tom M; Moyne, Jean-Noel; Subramani, Suresh
USA	Granted	16/141635	9/25/2018	UTL	1109384 8	8/17/2021	PREDICTIVE ENGINE FOR GENERATING MULTIVARIATE PREDICTIVE RESPONSES	Chakraborty, Sayan; Scott, Daniel
USA	Pending	16/168661	10/23/2018	UTL	—	—	PREDICTIVE ENGINE FOR MULTISTAGE PATTERN DISCOVERY AND VISUAL ANALYTICS RECOMMENDATIONS	Berridge, Andrew J; O'connell, Michael; Paolini, Gaia Valeria; Rajdev, Divyayoti Pitambertal; Rope, Daniel J

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	15/417635	1/27/2017	UTL	10635160	4/28/2020	STEPBACK MECHANISM TO DEVELOP AND DIAGNOSE PROCESS APPLICATIONS	Kozhikkattuthodi, Rajeev; Martinez, Francisco; Register, Michael
USA	Granted	14/718804	5/21/2015	UTL	10162878	12/25/2018	SYSTEM AND METHOD FOR AGGLOMERATIVE CLUSTERING	Nuchia, Stephen; Scott, Daniel
USA	Pending	15/214622	7/20/2016	UTL			SYSTEM FOR MANAGING EFFECTIVE SELF-SERVICE ANALYTIC WORKFLOWS	Butler, George R; Hill, Thomas; Rastunkov, Vladimir S
USA	Granted	15/237978	8/16/2016	UTL	10386822	8/20/2019	SYSTEM FOR RAPID IDENTIFICATION OF SOURCES OF VARIATION IN COMPLEX MANUFACTURING PROCESSES	Hill, Thomas; Rastunkov, Vladimir S; Scott, Daniel W
USA	Granted	15/427818	2/8/2017	UTL-CON	10496648	12/3/2019	SYSTEMS AND METHODS FOR SEARCHING MULTIPLE RELATED TABLES	Foti, Fletcher; Zuidema, Bruce

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Granted	11/361697	2/24/2006	UTL	9043266	5/26/2015	UNIFIED INTERACTIVE DATA ANALYSIS SYSTEM	Bauerle, Lars; Fortes, Tommy; Hergens, Johan; Lehtipalo, Tobias; Thorsell, Magnus
USA	Granted	15/357924	11/21/2016	UTL	10579680	3/3/2020	USING A B-TREE TO STORE GRAPH INFORMATION IN A DATABASE	Chung, Vincent; Subramani, Suresh
USA	Allowed	16/691407	11/21/2019	UTL-CON	—	—	USING A B-TREE TO STORE GRAPH INFORMATION IN A DATABASE	Chung, Vincent; Subramani, Suresh
USA	Granted	16/738999	1/9/2020	UTL	11429623	8/30/2022	A SYSTEM FOR RAPID INTERACTIVE EXPLORATION OF BIG DATA	Thomas Hill David Katz Michael O'Connell Jags Ramnarayan Dan Rope
USA	Pending	16/352608	3/13/2019	UTL	—	—	PROCESS CONTROL TOOL FOR PROCESSING BIG AND WIDE DATA	Thomas Hill David Katz Piotr Smolinski Siva Ramalingam Steven Hillion

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Filed	16/596641	10/8/2019	UTL-CIP	—	—	SYSTEM FOR EFFICIENT INFORMATION EXTRACTION FROM STREAMING DATA VIA EXPERIMENTAL DESIGNS	Thomas Hill Michael O'Connell Dan Rope
USA	Expired Provisional	62/858165	6/6/2019	PRV	—	—	MULTI-METHOD SYSTEM FOR OPTIMAL PREDICTIVE MODEL SELECTION	Venkata Jagannath Yellapragada Thomas Hill Daniel Rope Michael O'Connell Gaia Paolini Eric Hsu
USA	Granted	16/116771	8/29/2018	UTL	11169846	11/9/2021	SYSTEM AND METHOD FOR MANAGING TASKS AND TASK WORKLOAD ITEMS BETWEEN ADDRESS SPACES AND LOGICAL PARTITIONS	Reza Fatemi John Driver
USA	Granted	15/812784	11/14/2017	UTL	10691614	6/23/2020	ADAPTIVE PAGE REPLACEMENT	Suresh Subramani

Country	Status	App. No.	App. Date	Appl. Type	Patent No.	Grant Date	Title	Inventors
USA	Filed	15/406058	1/13/2017	UTL-CON	—	—	PROCESS MODIFICATION	Suresh Subramani, Pranab Dhar, Alan Amaya
USA	Filed	15/382269	12/16/2016	UTL-CON	—	—	VIRTUAL WORKING MEMORY	Suresh Subramani, Pranab Dhar, Alan Amaya
USA	Filed	13/957280	8/1/2013	UTL	—	—	SYSTEMS AND METHODS FOR ANALYSIS OF DATA AT DISPARATE DATA SOURCES	Steven Hillion Yi-Ling Chen Zhe Dong Yong-Sheng Yu Yong Zhao
USA	Filed	15/217907	07/22/2016	UTL	—	—	Parameter driven execution of advanced analytic workflows	Assignee: TIBCO Software Inc.

PATENT

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