PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	FIRST LIEN PATENT SECURITY AGREEMENT	

CONVEYING PARTY DATA

Name	Execution Date
QUEST SOFTWARE INC.	05/18/2018

RECEIVING PARTY DATA

Name:	CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT	
Street Address:	11 MADISON AVENUE	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10010	

PROPERTY NUMBERS Total: 484

504949844

Property Type	Number
Patent Number:	6871221
Patent Number:	6834290
Patent Number:	7805423
Patent Number:	7065538
Patent Number:	6928471
Patent Number:	6944798
Patent Number:	7657616
Patent Number:	7818565
Patent Number:	7707401
Patent Number:	7664822
Patent Number:	7428590
Patent Number:	7231391
Patent Number:	7469278
Patent Number:	7293087
Patent Number:	7353262
Patent Number:	7096392
Patent Number:	7565661
Patent Number:	7913043
Patent Number:	7680834
Patent Number:	7519870

<u>PATENT</u>

REEL: 046327 FRAME: 0347

Property Type	Number
Patent Number:	7979404
Patent Number:	7769004
Patent Number:	7836014
Patent Number:	7643484
Patent Number:	7814260
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Patent Number:	7979650
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Patent Number: 9736215 Patent Number: 9917979 Patent Number: 9838357 Patent Number: 9800417 Patent Number: 9787757 Patent Number: 9825921 Patent Number: 9690790 Patent Number: 9800598 Patent Number: 7287186 Patent Number: 9501576 Application Number: 11738952 Application Number: 12914767 Application Number: 13474339 Application Number: 13489276 Application Number: 13658724 Application Number: 14014637 Application Number: 14178158 Application Number: 14178158 Application Number: 14178165 Application Number: 14248215 Application Number: 14248215 Application Number: 14249147 Application Number: 14265973 Application Number: 14305249 Application Number: 14335205 Application Number:	Property Type	Number
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Application Number:	15944253
Application Number:	15445485

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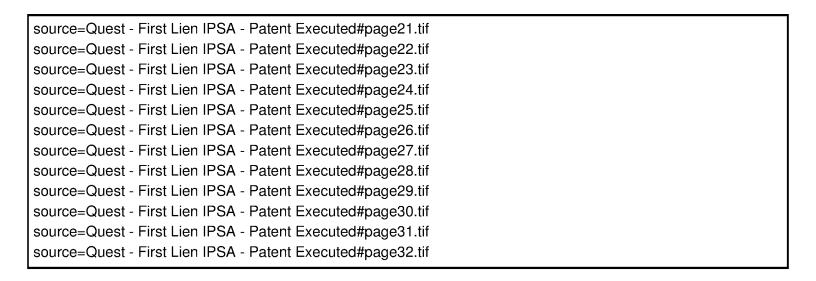
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Address Line 4: NEW YORK, NEW YORK 10022

ATTORNEY DOCKET NUMBER:	030786-0878
NAME OF SUBMITTER:	ANGELA M. AMARU
SIGNATURE:	/S/ Angela M. Amaru
DATE SIGNED:	06/07/2018

Total Attachments: 32

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FIRST LIEN PATENT SECURITY AGREEMENT

This FIRST LIEN PATENT SECURITY AGREEMENT, dated as of May 18, 2018 (this "Agreement"), is made by Quest Software Inc., a Delaware corporation ("Grantor"), in favor of CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, as the Collateral Agent (in such capacity, together with its successors and permitted assigns, herein called the "Collateral Agent") for the Secured Parties.

WHEREAS, the Grantor is party to a First Lien Security Agreement dated as of May 18, 2018 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Security Agreement"), by and among the Grantor, the other grantors party thereto and the Collateral Agent pursuant to which the Grantor granted a security interest to the Collateral Agent (for the benefit of the Secured Parties) in the Patent Collateral (as defined below); and

WHEREAS, pursuant to the Security Agreement, Grantor has agreed to execute and deliver this Agreement in order to record such security interest with the United States Patent and Trademark Office.

Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them (including by reference) in the Security Agreement.

NOW, THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, subject to the terms and conditions of the Security Agreement, to evidence further the security interest granted by Grantor to the Collateral Agent pursuant to the Security Agreement, Grantor hereby grants to the Collateral Agent (for the benefit of the Secured Parties) a security interest in all of Grantor's right, title and interest in and to the following, in each case whether now owned or existing or hereafter acquired, possessed or arising and wherever located (collectively, the "**Patent Collateral**"), other than Excluded Property:

- (i) all patents and patent applications and rights and interests in patents and patent applications under any domestic or foreign law (including, without limitation, the patents and patent applications set forth on <u>Schedule A</u> annexed hereto), all re-issues, divisions, continuations, renewals, extensions and continuations in-part thereof and all rights corresponding thereto;
- (ii) the right to sue or otherwise recover for any past, present and future infringement, or other violation or impairment of any of the foregoing; and
- (iii) all Proceeds of the foregoing, including all license fees, royalties, income, payments, claims, damages and proceeds of suit, now or hereafter due and/or payable with respect to any of the foregoing.

Grantor does hereby further acknowledge and affirm that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral granted hereby are more fully

set forth in the Security Agreement, the terms and conditions of which are hereby incorporated by reference as if fully set forth herein. In the event that any provision of this Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

THIS AGREEMENT SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAW OF THE STATE OF NEW YORK, WITHOUT REGARD TO CONFLICT OF LAWS PRINCIPLES THEREOF TO THE EXTENT SUCH PRINCIPLES WOULD CAUSE THE APPLICATION OF THE LAW OF ANOTHER STATE, EXCEPT TO THE EXTENT THAT THE UCC PROVIDES THAT THE PERFECTION OF THE SECURITY INTEREST HEREUNDER, OR REMEDIES HEREUNDER, IN RESPECT OF ANY PARTICULAR PATENT COLLATERAL ARE GOVERNED BY THE LAWS OF A JURISDICTION OTHER THAN THE STATE OF NEW YORK, IN WHICH CASE THE LAWS OF SUCH JURISDICTION SHALL GOVERN WITH RESPECT TO THE PERFECTION OF THE SECURITY INTEREST IN, OR THE REMEDIES WITH RESPECT TO, SUCH PARTICULAR PATENT COLLATERAL.

This Agreement may be executed in one or more counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument; signature pages may be detached from multiple separate counterparts and attached to a single counterpart so that all signature pages are physically attached to the same document. Delivery of an executed signature page to this Agreement by facsimile transmission or other electronic communication shall be as effective as delivery of a manually signed counterpart of this Agreement.

US-DOCS\101374029.5

IN WITNESS WHEREOF, each Grantor has caused this Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

QUEST SOFTWARE INC.,

a Delaware corporation,

as Grantor

Name: Carolyn McCarthy

Title: Treasurer

[Signature Page to Patent Security Agreement (First Lien)]

ACCEPTED AND AGREED:

CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH,

as Collateral Agent

Name: Mikhail Faybusovich

Title: Authorized Signatory

Ву:_____

Name: Andrew Griffin Title: Authorized Signatory

[Signature Page to Patent Security Agreement (First Lien)]

SCHEDULE A TO FIRST LIEN PATENT SECURITY AGREEMENT

U.S. Issued Patents:

Application	Patent	Filing Date	Title
Number	Number		
09489759	6871221	01/21/2000	METHOD AND APPARATUS TO MANAGE
			NETWORK CLIENT LOGON SCRIPTS USING A
			GRAPHICAL MANAGEMENT AND
			ADMINISTRATION TOOL
09712890	6834290	11/15/2000	SYSTEM AND METHOD FOR DEVELOPING A
			COST-EFFECTIVE REORGANIZATION PLAN
			FOR DATA REORGANIZATION
09713479	7805423	11/15/2000	SYSTEM AND METHOD FOR QUIESCING
			SELECT DATA MODIFICATION OPERATIONS
			AGAINST AN OBJECT OF A DATABASE
			DURING ONE OR MORE STRUCTURAL
			OPERATIONS
09782586	7065538	02/12/2001	SYSTEM AND METHOD FOR RECONCILING
			TRANSACTIONS BETWEEN A REPLICATION
			SYSTEM AND A RECOVERED DATABASE
09850877	6928471	05/07/2001	METHOD AND APPARATUS FOR
			MEASUREMENT, ANALYSIS, AND
			OPTIMIZATION OF CONTENT DELIVERY
09853371	6944798	05/11/2001	GRACEFUL DEGRADATION SYSTEM
10167229	7657616	06/10/2002	AUTOMATIC DISCOVERY OF USERS
			ASSOCIATED WITH SCREEN NAMES
10459111	7818565	06/10/2003	SYSTEMS AND METHODS FOR
			IMPLEMENTING PROTOCOL ENFORCEMENT
			RULES
10459408	7707401	06/10/2003	SYSTEMS AND METHODS FOR A PROTOCOL
			GATEWAY
10459421	7664822	06/10/2003	SYSTEMS AND METHODS FOR
			AUTHENTICATION OF TARGET PROTOCOL
			SCREEN NAMES
10459725	7428590	06/10/2003	SYSTEMS AND METHODS FOR REFLECTING
			MESSAGES ASSOCIATED WITH A TARGET
			PROTOCOL WITHIN A NETWORK
10661412	7231391	09/11/2003	LOOSELY COUPLED DATABASE CLUSTERS
10001112	,231351	05/11/2005	WITH CLIENT CONNECTION FAIL-OVER
10700615	7469278	11/04/2003	VALIDATION OF PORTABLE COMPUTER
10,00015	1,10,2,10	11,01,2003	TYPE PRIOR TO CONFIGURATION OF A
			LOCAL RUN-TIME ENVIRONMENT
10700616	7293087	11/04/2003	EVENT-BASED APPLICATION FOR
10700010	7273007	11/0-7/2003	PERFORMING CONFIGURATION CHANGES
			IN A NETWORKED ENVIRONMENT
			IN ANTALL WORKED BITTINGINIDITI

Application Number	Patent Number	Filing Date	Title
10700617	7353262	11/04/2003	VALIDATION OF CONFIGURATION SETTINGS PRIOR TO CONFIGURATION OF
10841398	7096392	05/07/2004	LOCAL RUN-TIME ENVIRONMENT METHOD AND SYSTEM FOR AUTOMATED, NO DOWNTIME, REAL-TIME, CONTINUOUS DATA PROTECTION
10842286	7565661	05/10/2004	METHOD AND SYSTEM FOR REAL-TIME EVENT JOURNALING TO PROVIDE ENTERPRISE DATA SERVICES
10846609	7913043	05/14/2004	METHOD FOR BACKUP STORAGE DEVICE SELECTION
10862971	7680834	06/08/2004	METHOD AND SYSTEM FOR NO DOWNTIME RESYCHRONIZATION FOR REAL-TIME, CONTINUOUS DATA PROTECTION
10863117	7519870	06/08/2004	METHOD AND SYSTEM FOR NO DOWNTIME, INITIAL DATA UPLOAD FOR REAL-TIME, CONTINUOUS DATA PROTECTION
10888845	7617501	07/09/2004	APPARATUS, SYSTEM, AND METHOD FOR MANAGING POLICIES ON A COMPUTER HAVING A FOREIGN OPERATING SYSTEM
10943541	7979404	09/17/2004	EXTRACTING DATA CHANGES AND STORING DATA HISTORY TO ALLOW FOR INSTANTANEOUS ACCESS TO AND RECONSTRUCTION OF ANY POINT-IN-TIME DATA
10950355	7769004	09/24/2004	NETWORK ABSTRACTION AND ISOLATION LAYER FOR MASQUERADING MACHINE IDENTITY OF A COMPUTER
10980875	7836014	11/03/2004	HYBRID REAL-TIME DATA REPLICATION
11053770	7643484	02/09/2005	NETWORK ABSTRACTION AND ISOLATION LAYER RULES-BASED FEDERATION AND MASQUERADING
11076540	7814260	03/09/2005	TAPE IMAGE ON NON-TAPE STORAGE DEVICE
11123994	8108429	05/06/2005	SYSTEM FOR MOVING REAL-TIME DATA EVENTS ACROSS A PLURALITY OF DEVICES IN A NETWORK FOR SIMULTANEOUS DATA PROTECTION, REPLICATION, AND ACCESS SERVICES
11152351	7979650	06/13/2005	DISCOVERING DATA STORAGE FOR BACKUP
11185168	7689602	07/20/2005	METHOD OF CREATING HIERARCHICAL INDICES FOR A DISTRIBUTED OBJECT SYSTEM
11185313	7788521	07/20/2005	METHOD AND SYSTEM FOR VIRTUAL ON- DEMAND RECOVERY FOR REAL-TIME, CONTINUOUS DATA PROTECTION

Application Number	Patent Number	Filing Date	Title
11198019	7565336	08/04/2005	METHOD AND APPARATUS FOR
			MEASUREMENT, ANALYSIS, AND
			OPTIMIZATION OF CONTENT DELIVERY
11198061	7681104	08/05/2005	METHOD FOR ERASURE CODING DATA
			ACROSS A PLURALITY OF DATA STORES IN
			A NETWORK
11198062	7681105	08/05/2005	METHOD FOR LOCK-FREE CLUSTERED
			ERASURE CODING AND RECOVERY OF
			DATA ACROSS A PLURALITY OF DATA
			STORES IN A NETWORK
11198912	7539655	08/04/2005	METHOD AND APPARATUS FOR
			MEASUREMENT, ANALYSIS, AND
			OPTIMIZATION OF CONTENT DELIVERY
11217513	7185237	09/01/2005	SYSTEMS AND METHODS FOR PROVIDING
			FOR DEGRADATION OF A COMPUTER
			APPLICATION
11264110	7904913	11/01/2005	MANAGEMENT INTERFACE FOR A SYSTEM
			THAT PROVIDES AUTOMATED, REAL-TIME,
			CONTINUOUS DATA PROTECTION
11294739	7774832	12/06/2005	SYSTEMS AND METHODS FOR
			IMPLEMENTING PROTOCOL ENFORCEMENT
			RULES
11300097	7760640	12/13/2005	ELECTRONIC MESSAGE DELIVERY SYSTEM
			INCLUDING A NETWORK DEVICE
11311215	7904949	12/19/2005	APPARATUS, SYSTEMS AND METHODS TO
			PROVIDE AUTHENTICATION SERVICES TO A
			LEGACY APPLICATION
11352693	8087075	02/13/2006	DISCONNECTED CREDENTIAL VALIDATION
			USING PRE-FETCHED SERVICE TICKETS
11419958	7870354	05/23/2006	DATA REPLICATION FROM ONE-TO-ONE OR
			ONE-TO-MANY HETEROGENEOUS DEVICES
11424874	8429712	06/18/2006	CENTRALIZED USER AUTHENTICATION
			SYSTEM APPARATUS AND METHOD
11439073	7461103	05/23/2006	SYSTEM AND METHOD FOR RECONCILING
			TRANSACTIONS BETWEEN A REPLICATION
			SYSTEM AND A RECOVERED DATABASE
11457228	7814460	07/13/2006	HIERARCHICAL MODULAR SOFTWARE
			PACKAGES AND ASSOCIATED
			DEVELOPMENT TOOL
11471313	7512682	06/20/2006	DATABASE CLUSTER SYSTEMS AND
			METHODS FOR MAINTAINING CLIENT
			CONNECTIONS
11507257	7363549	08/21/2006	METHOD AND SYSTEM FOR AUTOMATED,
			NO DOWNTIME, REAL-TIME, CONTINUOUS
			DATA PROTECTION
11535317	7818801	09/26/2006	FILE SYSTEM EVENT TRACKING

Application Number	Patent Number	Filing Date	Title
11556470	7756981	11/03/2006	SYSTEMS AND METHODS FOR REMOTE ROGUE PROTOCOL ENFORCEMENT
11619396	7801975	01/03/2007	MANAGING CLIENT CONFIGURATION
11019390	7001973	01/03/2007	SETTINGS IN A NETWORK ENVIRONMENT
11690254	8078728	03/23/2007	CAPACITY POOLING FOR APPLICATION
1100025	0070720	03/23/2007	RESERVATION AND DELIVERY
11749559	7979245	05/16/2007	MODEL-BASED SYSTEMS AND METHODS
			FOR MONITORING COMPUTING RESOURCE
			PERFORMANCE
11754891	7606839	05/29/2007	SYSTEMS AND METHODS FOR PROVIDING
			CLIENT CONNECTION FAIL-OVER
11823108	7783510	06/25/2007	COMPUTER STORAGE CAPACITY
			FORECASTING SYSTEM USING CLUSTER-
			BASED SEASONALITY ANALYSIS
11823111	7788127	06/25/2007	FORECAST MODEL QUALITY INDEX FOR
11070761	0.504.70	00/07/2007	COMPUTER STORAGE CAPACITY PLANNING
11850561	8601539	09/05/2007	SYSTEMS AND METHODS FOR MANAGING
11060555	7002265	10/00/2007	USER PERMISSIONS
11869575	7882265	10/09/2007	SYSTEMS AND METHODS FOR MANAGING
1100(510	7905222	10/20/2007	MESSAGES IN AN ENTERPRISE NETWORK
11926512	7895332	10/29/2007	IDENTITY MIGRATION SYSTEM APPARATUS
11928887	8086710	10/30/2007	AND METHOD IDENTITY MIGRATION APPARATUS AND
11920007	0000/10	10/30/2007	METHOD
11934610	7979494	11/02/2007	SYSTEMS AND METHODS FOR MONITORING
1175 1010	///////	11/02/2007	MESSAGING SYSTEMS
11947695	8127316	11/29/2007	SYSTEM AND METHOD FOR INTERCEPTING
			PROCESS CREATION EVENTS
11951008	8234253	12/05/2007	SYSTEMS AND METHODS FOR PERFORMING
			RECOVERY OF DIRECTORY DATA
12023920	8001074	01/31/2008	FUZZY-LEARNING-BASED EXTRACTION OF
			TIME-SERIES BEHAVIOR
12059505	8131723	03/31/2008	RECOVERING A FILE SYSTEM TO ANY
			POINT-IN-TIME IN THE PAST WITH
			GUARANTEED STRUCTURE, CONTENT
12000025	0064640	0.4.10.0.12.0.0.0	CONSISTENCY AND INTEGRITY
12099837	8364648	04/09/2008	RECOVERING A DATABASE TO ANY POINT-
			IN-TIME IN THE PAST WITH GUARANTEED
10100264	9046550	07/20/2009	DATA CONSISTENCY SYSTEMS AND METHODS FOR PERFORMING
12182364	8046550	07/30/2008	BACKUP OPERATIONS OF VIRTUAL
			MACHINE FILES
12339053	8194674	12/19/2008	SYSTEM AND METHOD FOR AGGREGATING
12337033	017-07-	12/17/2000	COMMUNICATIONS AND FOR
			TRANSLATING BETWEEN OVERLAPPING
			INTERNAL NETWORK ADDRESSES AND
			UNIQUE EXTERNAL NETWORK ADDRESSES

Application Number	Patent Number	Filing Date	Title
12370399	8175863	02/12/2009	SYSTEMS AND METHODS FOR ANALYZING PERFORMANCE OF VIRTUAL ENVIRONMENTS
12395524	8903983	02/27/2009	METHOD, SYSTEM AND APPARATUS FOR MANAGING, MODELING, PREDICTING, ALLOCATING AND UTILIZING RESOURCES AND BOTTLENECKS IN A COMPUTER NETWORK
12400559	8935701	03/09/2009	UNIFIED MANAGEMENT PLATFORM IN A COMPUTER NETWORK
12474688	8015454	05/29/2009	COMPUTER SYSTEMS AND METHODS FOR PREDICTIVE PERFORMANCE MANAGEMENT OF DATA TRANSACTIONS
12475729	8108476	06/01/2009	HIGH PERFORMANCE ELECTRONIC MESSAGE DELIVERY ENGINE
12488657	8060889	06/22/2009	METHOD AND SYSTEM FOR REAL-TIME EVENT JOURNALING TO PROVIDE ENTERPRISE DATA SERVICES
12500109	7941385	07/09/2009	METHOD AND APPARATUS FOR MEASUREMENT, ANALYSIS, AND OPTIMIZATION OF CONTENT DELIVERY
12502035	8135930	07/13/2009	REPLICATION SYSTEMS AND METHODS FOR A VIRTUAL COMPUTING ENVIRONMENT
12502052	8060476	07/13/2009	BACKUP SYSTEMS AND METHODS FOR A VIRTUAL COMPUTING ENVIRONMENT
12511436	7970843	07/29/2009	E-MAIL MESSAGING SYSTEM AND METHOD FOR ENHANCED RICH MEDIA DELIVERY
12559156	8311985	09/14/2009	REMOTE BACKUP AND RESTORE SYSTEM AND METHOD
12566231	8429649	09/24/2009	SYSTEMS AND METHODS FOR DATA MANAGEMENT IN A VIRTUAL COMPUTING ENVIRONMENT
12567069	8452731	09/25/2009	REMOTE BACKUP AND RESTORE
12575342	8171201	10/07/2009	SYSTEMS AND METHODS FOR IMPROVING VIRTUAL MACHINE PERFORMANCE
12612569	8245242	11/04/2009	SYSTEMS AND METHODS FOR MANAGING POLICIES ON A COMPUTER
12691616	7979441	01/21/2010	METHOD OF CREATING HIERARCHICAL INDICES FOR A DISTRIBUTED OBJECT SYSTEM
12695385	8086937	01/28/2010	METHOD FOR ERASURE CODING DATA ACROSS A PLURALITY OF DATA STORES IN A NETWORK
12695407	8051361	01/28/2010	METHOD FOR LOCK-FREE CLUSTERED ERASURE CODING AND RECOVERY OF DATA ACROSS A PLURALITY OF DATA STORES IN A NETWORK

Application Number	Patent Number	Filing Date	Title
12725191	8260750	03/16/2010	INTELLIGENT BACKUP ESCALATION SYSTEM
12762162	8996468	04/16/2010	BLOCK STATUS MAPPING SYSTEM FOR REDUCING VIRTUAL MACHINE BACKUP STORAGE
12770354	7912929	04/29/2010	MANAGING CLIENT CONFIGURATION SETTINGS IN A NETWORK ENVIRONMENT
12816460	8687490	06/16/2010	ELECTRONIC MESSAGE DELIVERY SYSTEM INCLUDING A NETWORK DEVICE
12838009	8331391	07/16/2010	NETWORK ABSTRACTION AND ISOLATION LAYER FOR MASQUERADING MACHINE IDENTITY OF A COMPUTER
12844297	8086782	07/27/2010	TAPE IMAGE ON NON-TAPE STORAGE DEVICE
12845215	8151140	07/28/2010	METHOD AND SYSTEM FOR VIRTUAL ON- DEMAND RECOVERY FOR REAL-TIME, CONTINUOUS DATA PROTECTION
12869138	7970748	08/26/2010	SYSTEMS AND METHODS FOR REORGANIZING A DATABASE OBJECT
12878609	8332942	09/09/2010	FILE SYSTEM EVENT TRACKING
12901824	8195628	10/11/2010	METHOD AND SYSTEM FOR DATA REDUCTION
12901888	8544023	10/11/2010	MANAGEMENT INTERFACE FOR A SYSTEM THAT PROVIDES AUTOMATED, REAL-TIME, CONTINUOUS DATA PROTECTION
12901925	8938419	10/11/2010	HYBRID REAL-TIME DATA REPLICATION
12906653	8229962	10/18/2010	LOCATION-AWARE TASK MANAGEMENT SYSTEMS AND METHODS
12939637	8499001	11/04/2010	SYSTEMS AND METHODS FOR INDEX SELECTION IN COLLECTIONS OF DATA
12959913	8438352	12/03/2010	DATA REPLICATION FROM ONE-TO-ONE OR ONE-TO-MANY HETEROGENEOUS DEVICES
13016899	8195833	01/28/2011	SYSTEMS AND METHODS FOR MANAGING MESSAGES IN AN ENTERPRISE NETWORK
13022858	8171247	02/08/2011	METHOD FOR BACKUP STORAGE DEVICE SELECTION
13092051	8639827	04/21/2011	SELF-SERVICE SYSTEMS AND METHODS FOR GRANTING ACCESS TO RESOURCES
13101863	8453145	05/05/2011	SYSTEMS AND METHODS FOR INSTANT PROVISIONING OF VIRTUAL MACHINE FILES
13114282	8156192	05/24/2011	E-MAIL MESSAGING SYSTEM AND METHOD FOR ENHANCED RICH MEDIA DELIVERY
13158204	9047574	11/06/2013	STORAGE CAPACITY PLANNING
13179356	8185598	07/08/2011	SYSTEMS AND METHODS FOR MONITORING MESSAGING SYSTEMS

Application Number	Patent Number	Filing Date	Title	
13179405	8175862	07/08/2011	MODEL-BASED SYSTEMS AND METHODS FOR MONITORING RESOURCES	
13179813	8145864	07/11/2011	DISCOVERING DATA STORAGE FOR BACKUP	
13179904	8200706	07/11/2011	METHOD OF CREATING HIERARCHICAL INDICES FOR A DISTRIBUTED OBJECT SYSTEM	
13209018	8332346	08/12/2011	FUZZY-LEARNING-BASED EXTRACTION OF TIME-SERIES BEHAVIOR	
13218362	8898114	08/25/2011	MULTITIER DEDUPLICATION SYSTEMS AND METHODS	
13225258	8347148	09/02/2011	COMPUTER SYSTEMS AND METHODS FOR PREDICTIVE PERFORMANCE MANAGEMENT OF DATA TRANSACTIONS	
13228351	9141442	9/8/2011	AUTOMATED CONNECTOR CREATION FOR PROVISIONING SYSTEMS	
13235254	8527543	09/16/2011	SYSTEM FOR CATEGORIZING DATABASE STATEMENTS FOR PERFORMANCE TUNING	
13241004	8205139	09/22/2011	METHOD FOR LOCK-FREE CLUSTERED ERASURE CODING AND RECOVERY OF DATA ACROSS A PLURALITY OF DATA STORES IN A NETWORK	
13242916	8352523	09/23/2011	RECOVERING A FILE SYSTEM TO ANY POINT-IN-TIME IN THE PAST WITH GUARANTEED STRUCTURE, CONTENT CONSISTENCY AND INTEGRITY	
13244167	8166265	09/23/2011	SYSTEMS AND METHODS FOR PERFORMING BACKUP OPERATIONS OF VIRTUAL MACHINE FILES	
13244187	8375003	09/23/2011	BACKUP SYSTEMS AND METHODS FOR A VIRTUAL COMPUTING ENVIRONMENT	
13324874	8346908	12/13/2011	IDENTITY MIGRATION APPARATUS AND METHOD	
13333650	8584218	12/21/2011	DISCONNECTED CREDENTIAL VALIDATION USING PRE-FETCHED SERVICE TICKETS	
13366166	8738972	02/03/2012	SYSTEMS AND METHODS FOR REAL-TIME MONITORING OF VIRTUALIZED ENVIRONMENTS	
13368240	9311375	02/07/2012	SYSTEMS AND METHODS FOR COMPACTING A VIRTUAL MACHINE FILE	
13406305	8650578	02/27/2012	SYSTEM AND METHOD FOR INTERCEPTING PROCESS CREATION EVENTS	
13416283	8312093	03/09/2012	E-MAIL MESSAGING SYSTEM AND METHOD FOR ENHANCED RICH MEDIA DELIVERY	
13425166	8271755	03/20/2012	DISCOVERING DATA STORAGE FOR BACKUP	

Application Number	Patent Number	Filing Date	Title
13436624	8375248	03/30/2012	METHOD AND SYSTEM FOR VIRTUAL ON-
13445130	8255654	04/12/2012	DEMAND RECOVERY METHOD FOR BACKUP STORAGE DEVICE
15445150	6233034	04/12/2012	SELECTION
13448010	8335902	04/16/2012	SYSTEMS AND METHODS FOR PERFORMING
			BACKUP OPERATIONS OF VIRTUAL
			MACHINE FILES
13448220	8332571	04/16/2012	SYSTEMS AND METHODS FOR IMPROVING
			VIRTUAL MACHINE PERFORMANCE
13451274	9215142	04/29/2012	COMMUNITY ANALYSIS OF COMPUTING
			PERFORMANCE
13455583	8266231	04/25/2012	SYSTEMS AND METHODS FOR MONITORING
			MESSAGING SYSTEMS
13464042	8364460	05/04/2012	SYSTEMS AND METHODS FOR ANALYZING
			PERFORMANCE OF VIRTUAL
			ENVIRONMENTS
13465708	8892415	05/07/2012	MODEL-BASED SYSTEMS AND METHODS
			FOR MONITORING RESOURCES
13486989	8650167	06/01/2012	METHOD AND SYSTEM FOR DATA
12122-71		0.510.512.012	REDUCTION
13489751	8429198	06/06/2012	METHOD OF CREATING HIERARCHICAL
			INDICES FOR A DISTRIBUTED OBJECT
12402220	0122627	06/00/2012	SYSTEM METHOD FOR LOCK FREE CLUCTERED
13492330	9122627	06/08/2012	METHOD FOR LOCK-FREE CLUSTERED
			ERASURE CODING AND RECOVERY OF
			DATA ACROSS A PLURALITY OF DATA
13534435	8365017	06/27/2012	STORES IN A NETWORK METHOD AND SYSTEM FOR VIRTUAL ON-
15554455	0303017	00/2//2012	DEMAND RECOVERY
13535031	8688644	06/27/2012	SYSTEMS AND METHODS FOR PERFORMING
15555051	00000	00/2//2012	RECOVERY OF DIRECTORY DATA
13546194	8700667	07/11/2012	LOCATION-AWARE TASK MANAGEMENT
133 1017 1	0700007	0771172012	SYSTEMS AND METHODS
13563490	8533744	07/31/2012	SYSTEMS AND METHODS FOR MANAGING
			POLICIES ON A COMPUTER
13658732	8838654	10/23/2012	DATA MODELING SYSTEM FOR RUNTIME
			SCHEMA EXTENSIBILITY
13670282	8640232	11/06/2012	FILE SYSTEM EVENT TRACKING
13686700	8966045	11/27/2012	IDENTITY MIGRATION APPARATUS AND
			METHOD
13713424	9098624	12/13/2012	DEEP TYPE PARSING
13714829	8972347	12/14/2012	RECOVERING A FILE SYSTEM TO ANY
			POINT-IN-TIME IN THE PAST WITH
			GUARANTEED STRUCTURE, CONTENT
			CONSISTENCY AND INTEGRITY
13721588	8639974	12/20/2012	METHOD AND SYSTEM FOR VIRTUAL ON-
			DEMAND RECOVERY

Application Number	Patent Number	Filing Date	Title	
13721769	9122718	12/20/2012	DYNAMIC DIRECTORY CONTROL EXECUTION	
13721811	9165027	12/20/2012	DYNAMIC DIRECTORY CONTROL REGISTRATION	
13725008	8887009	12/21/2012	COMPUTER SYSTEMS AND METHODS FOR PREDICTIVE PERFORMANCE MANAGEMENT OF DATA TRANSACTIONS	
13745677	9275172	1/18/2013	SYSTEMS AND METHODS FOR ANALYZING PERFORMANCE OF VIRTUAL ENVIRONMENTS	
13752020	8712970	01/28/2013	RECOVERING A DATABASE TO ANY POINT- IN-TIME IN THE PAST WITH GUARANTEED DATA CONSISTENCY	
13764011	9311318	02/11/2013	BACKUP SYSTEMS AND METHODS FOR A VIRTUAL COMPUTING ENVIRONMENT	
13789529	RE45327 <u>Reissue of</u> 7904949	03/07/2013	APPARATUS, SYSTEMS AND METHODS TO PROVIDE AUTHENTICATION SERVICES TO A LEGACY APPLICATION	
13826733	9338255	03/14/2013	SYSTEM AND METHOD FOR CORRELATING END-USER EXPERIENCE DATA AND BACKEND-PERFORMANCE DATA	
13836840	9372942	03/15/2013	SYSTEM AND METHOD FOR FACILITATING DATA VISUALIZATION VIA A MAP-REDUCE FRAMEWORK	
13837740	8966503	03/15/2013	SYSTEM AND METHOD FOR CORRELATING ANOMALOUS EVENTS	
13850164	8856790	03/25/2013	SYSTEMS AND METHODS FOR DATA MANAGEMENT IN A VIRTUAL COMPUTING ENVIRONMENT	
13864866	8978098	4/17/2013	CENTRALIZED USER AUTHENTICATION SYSTEM APPARATUS AND METHOD	
13869071	9405776	04/02/2013	REMOTE BACKUP AND RESTORE	
13869188	9032403	04/24/2013	SYSTEMS AND METHODS FOR INSTANT PROVISIONING OF VIRTUAL MACHINE FILES	
13906255	9390240	06/23/2014	SYSTEM AND METHOD FOR QUERYING DATA	
13906262	9164820	5/30/2013	SYSTEM AND METHOD FOR CORRECTING SCRAMBLED MESSAGES	
13934912	9047272	07/03/2013	SYSTEMS AND METHODS FOR INDEX SELECTION IN COLLECTIONS OF DATA	
14010314	8898136	08/26/2013	SYSTEM FOR CATEGORIZING DATABASE STATEMENTS FOR PERFORMANCE TUNING	
14014707	9245248	8/30/2013	DATA METRIC RESOLUTION PREDICTION SYSTEM AND METHOD	
14021852	8713583	09/09/2013	SYSTEMS AND METHODS FOR MANAGING POLICIES ON A COMPUTER	

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14047162	9317574	10/07/2013	SYSTEM AND METHOD FOR MANAGING AND IDENTIFYING SUBJECT MATTER EXPERTS
14073822	9183272	12/20/2012	SYSTEM AND METHOD FOR ACCESSING DIMENSIONAL DATABASES
14073823	9288060	11/06/2013	SYSTEM AND METHOD FOR DECENTRALIZED AUTHENTICATION OF SUPPLICANT DEVICES
14076913	9288201	11/11/2013	DISCONNECTED CREDENTIAL VALIDATION USING PRE-FETCHED SERVICE TICKETS
14082397	8938781	11/18/2013	SYSTEMS AND METHODS FOR MANAGING USER PERMISSIONS
14149658	9202043	01/30/2014	SELF-SERVICE SYSTEMS AND METHODS FOR GRANTING ACCESS TO RESOURCES
14153607	9195823	01/13/2014	SYSTEM AND METHOD FOR INTERCEPTING PROCESS CREATION EVENTS
14159593	9442818	01/21/2014	SYSTEM AND METHOD FOR DYNAMIC DATA COLLECTION
14263699	9130847	04/28/2014	SYSTEMS AND METHODS FOR MANAGING POLICIES ON A COMPUTER
14298095	9349016	06/06/2014	SYSTEM AND METHOD FOR USER- CONTEXT-BASED DATA LOSS PREVENTION
14472329	9405699	08/28/2014	SYSTEMS AND METHODS FOR OPTIMIZING COMPUTER PERFORMANCE
14607776	9274758	01/28/2015	SYSTEM AND METHOD FOR CREATING CUSTOMIZED PERFORMANCE-MONITORING APPLICATIONS
95001458	Reexamination Certificate issued 7617501	09/20/2010	APPARATUS, SYSTEM, AND METHOD FOR MANAGING POLICIES ON A COMPUTER HAVING A FOREIGN OPERATING SYSTEM
95001872	Reexamination Certificate issued	01/12/2012	APPARATUS, SYSTEMS AND METHODS TO PROVIDE AUTHENTICATION SERVICES TO A LEGACY APPLICATION
11774267	7961959	07/06/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE
11774272	7961960	07/06/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE
11774278	7881544	07/06/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE
11774297	7936932	07/06/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE

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11774310	7970216	07/06/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE	
11774319	7974478	07/06/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE	
11774333	7885988	07/06/2007	METHODS AND APPARATUS FOR REDUCING STORAGE SIZE	
12038219	8224831	02/27/2008	VIRTUALIZATION OF METADATA FOR FILE OPTIMIZATION	
12038223	8219534	02/27/2008	MULTIPLE FILE COMPACTION FOR NETWORK ATTACHED STORAGE	
12573690	8386443	10/05/2009	REPRESENTING AND STORING AN OPTIMIZED FILE SYSTEM USING A SYSTEM OF SYMLINKS, HARDLINKS AND FILE ARCHIVES	
12574580	8862559	10/06/2009	SCALABLE MECHANISM FOR DETECTION OF COMMONALITY IN A DEDUPLICATED DATA SET	
12574990	8694466	10/07/2009	OBJECT DEDUPLICATION AND APPLICATION AWARE SNAPSHOTS	
12624354	8423520	11/23/2009	METHODS AND APPARATUS FOR EFFICIENT COMPRESSION AND DEDUPLICATION	
12954348	8965852	11/24/2010	METHODS AND APPARATUS FOR NETWORK EFFICIENT DEDUPLICATION	
13041282	8849773	03/04/2011	METHODS AND APPARATUS FOR ACTIVE OPTIMIZATION OF DATA	
13081335	9323778	04/06/2011	VIRTUAL DISK UTILITY	
13158289	9400799	06/10/2011	DATA BLOCK MIGRATION	
13158292	9201890	06/10/2011	STORAGE OPTIMIZATION MANAGER	
13243965	9442951	09/23/2011	MAINTAINING DEDUPLICATION DATA IN NATIVE FILE FORMATS	
13243985	9449013	09/23/2011	APPLICATION TRANSPARENT DEDUPLICATION DATA	
13306878	9449014	11/29/2011	RESYNCHRONIZATION OF REPLICATED DATA	
13415324	9256609	03/08/2012	FIXED SIZE EXTENTS FOR VARIABLE SIZE DEDUPLICATION SEGMENTS	
13491679	8655898	06/08/2012	VIRTUALIZATION OF METADATA FOR FILE OPTIMIZATION	
13560762	9210044	07/27/2012	AUTOMATED REMEDIATION WITH AN APPLIANCE	
13678881	8965850	11/16/2012	METHOD OF AND SYSTEM FOR MERGING, STORING AND RETRIEVING INCREMENTAL BACKUP DATA	
13739731	9389879	01/11/2013	SYSTEM AND METHOD FOR MANIPULATING USER-INTERFACE DISPLAY ITEMS FOR WEB WIDGETS	

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13748743	9448948	01/24/2013	EFFICIENT REPLICA CLEANUP DURING RESYNCHRONIZATION	
13784575	9250819	03/04/2013	A LEARNING MACHINE TO OPTIMIZE RANDOM ACCESS IN A STORAGE SYSTEM	
13862911	9367558	04/15/2013	METHODS AND APPARATUS FOR EFFICIENT COMPRESSION AND DEDUPLICATION	
14010495	8892528	08/26/2013	ACCELERATED DEDUPLICATION	
14021852	8713583	09/09/2013	SYSTEMS AND METHODS FOR MANAGING POLICIES ON A COMPUTER	
14154961	9460178	01/14/2014	SYNCHRONIZED STORAGE SYSTEM OPERATION	
14245084	9251161	04/04/2014	OBJECT DEDUPLICATION AND APPLICATION AWARE SNAPSHOTS	
14498597	9311322	09/26/2014	HEAT INDICES FOR FILE SYSTEMS AND BLOCK STORAGE	
14507731	9262432	10/06/2014	SCALABLE MECHANISM FOR DETECTION OF COMMONALITY IN A DEDUPLICATED DATA SET	
12537831	9778946	08/07/2009	OPTIMIZED COPY OF VIRTUAL MACHINE STORAGE FILES	
12902930	9547562	10/12/2010	BOOT RESTORE SYSTEM FOR RAPIDLY RESTORING VIRTUAL MACHINE BACKUPS	
13098298	9886483	04/29/2011	SYSTEM FOR PROVIDING STRUCTURED QUERY LANGUAGE ACCESS TO NON- RELATIONAL DATA STORES	
13156199	9569446	06/08/2011	CATALOGING SYSTEM FOR IMAGE-BASED BACKUP	
13343924	9559859	01/05/2012	HOME HUB	
13555534	9563632	07/23/2012	GARBAGE COLLECTION AWARE DEDUPLICATION	
13594431	9495222	08/24/2012	SYSTEMS AND METHODS FOR PERFORMANCE INDEXING	
13658709	9557879	10/23/2012	SYSTEM FOR INFERRING DEPENDENCIES AMONG COMPUTING SYSTEMS	
13658747	9507820	10/23/2012	DATA MODELING SYSTEM FOR ENABLING RUNTIME SCHEMA EXTENSIBILITY	
13743191	9672078	01/16/2013	DEPLOYMENT AND MANAGEMENT OF VIRTUAL CONTAINERS	
13786781	9594643	03/06/2013	HANDLING RESTORES IN AN INCREMENTAL BACKUP STORAGE SYSTEM	
13804064	9948648	03/14/2013	SYSTEM AND METHOD FOR ENFORCING ACCESS CONTROLS TO PUBLICLY- ACCESSIBLE WEB APPLICATIONS	
13804476	9569287	03/14/2013	SYSTEM AND METHOD FOR INTERACTIVE TUTORIALS	
13906241	9779260	05/30/2013	SYSTEM AND METHOD FOR DATA AGGREGATION AND ANALYSIS	

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13906246	9501744	05/30/2013	SYSTEM AND METHOD FOR CLASSIFYING DATA	
13935075	9571348	06/03/2013	SYSTEM AND METHOD FOR INFERRING AND ADAPTING A NETWORK TOPOLOGY	
13937150	9753937	07/08/2013	FILE AWARE BLOCK LEVEL DEDUPLICATION	
14089427	9578060	11/25/2013	SYSTEM AND METHOD FOR DATA LOSS PREVENTION ACROSS HETEROGENEOUS COMMUNICATIONS PLATFORMS	
14191648	9760713	02/27/2014	SYSTEM AND METHOD FOR CONTENT- INDEPENDENT DETERMINATION OF FILE- SYSTEM-OBJECT RISK OF EXPOSURE	
14193194	9906419	02/28/2014	DISCOVERING SITE OWNERS AND ENABLING COLLABORATION BETWEEN THEM IN A SHAREPOINT (OR SIMILAR) CORPORATE NETWORK	
14264889	9558246	04/29/2014	A METHOD FOR IDENTIFYING GROUPINGS OF USER ACTIVITY USING THE K-MEANS CLUSTERING ALGORITHM APPLIED TO TEMPORAL ACTIVITY DATA	
14292135	9479414	05/30/2014	CORRELATING PERFORMANCE ISSUES AND ERRORS TO FIND CORRELATION ACROSS FACTORS	
14311485	9600490	06/23/2014	INTELLIGENT DEDUPLICATION DATA PREFETCHING	
14453121	9917894	08/06/2014	ACCELERATING TRANSFER PROTOCOLS	
14518063	9569456	10/20/2014	ACCELERATED DEDUPLICATION	
14521035	9698825	10/22/2014	FAST UPDATE OF DATA PACKET CHECKSUMS	
14541791	9881159	11/14/2014	METHOD FOR SECURELY DESCRIBING AND NEGOTIATING SECURITY REQUIREMENTS FOR WORKLOADS	
14556157	9917882	11/30/2014	TRANSPARENT DEFERRED SPOOLING STORE AND FORWARD BASED ON STANDARD NETWORK SYSTEM AND CLIENT INTERFACE	
14568386	9910868	10/12/2014	IDENTIFICATION AND RESOLUTION OF DUPLICATE INDEXES IN RELATIONAL DATABASE MANAGEMENT SYSTEMS	
14588181	9805040	12/31/2014	EMAIL AND IDENTITY MIGRATION BASED ON RELATIONSHIP INFORMATION	
14589760	9477490	01/05/2015	MILESTONE BASED DYNAMIC MULTIPLE WATCHDOG TIMEOUTS AND EARLY FAILURE DETECTION	
14596186	9678974	01/13/2015	METHODS AND APPARATUS FOR NETWORK EFFICIENT DEDUPLICATION	
14603197	9838366	01/22/2015	SECURE SHELL PUBLIC KEY AUDIT SYSTEM	

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14619853	9690576	02/11/2015	SELECTIVE DATA COLLECTION USING A
			MANAGEMENT SYSTEM
14666180	9608959	03/23/2015	NON RFC COMPLIANT PROTOCOL
			CLASSIFICATION BASED ON REAL USE
14672675	9465642	03/30/2015	HOST SOFTWARE BASED OPTIMIZED
			INSTANT CLONES
14672791	9904707	03/30/2015	METHOD AND SYSTEM TO IMPROVE THE
			LOOKUP OF ESTIMATES OF INFORMATION
			USING PATTERN BASED HEURISTICS
14683441	9842220	04/10/2015	SYSTEMS AND METHODS OF SECURE SELF-
			SERVICE ACCESS TO CONTENT
14683453	9842218	04/10/2015	SYSTEMS AND METHODS OF SECURE SELF-
			SERVICE ACCESS TO CONTENT
14683462	9563782	04/10/2015	SYSTEMS AND METHODS OF SECURE SELF-
			SERVICE ACCESS TO CONTENT
14683465	9641555	04/10/2015	SYSTEMS AND METHODS OF TRACKING
			CONTENT-EXPOSURE EVENTS
14683513	9569626	04/10/2015	SYSTEMS AND METHODS OF REPORTING
			CONTENT-EXPOSURE EVENTS
14687732	9819630	04/15/2015	ENHANCED MANAGEMENT OF MIGRATION
			AND ARCHIVING OPERATIONS
14694634	9635045	04/23/2015	DETECTING UNAUTHORIZED, RISKY, OR
			INEFFICIENT USAGE OF PRIVILEGED
			CREDENTIALS THROUGH ANALYSIS OF
			REMOTE SHELL PROTOCOL BANDWIDTH
14694647	9596249	04/23/2015	DETECTING SHARED OR COMPROMISED
			CREDENTIALS THROUGH ANALYSIS OF
			SIMULTANEOUS ACTIONS
14700502	9813422	04/30/2015	DETECTING UNAUTHORIZED RISKY OR
			INEFFICIENT USAGE OF PRIVILEGED
			CREDENTIALS THROUGH ANALYSIS OF
			TASK COMPLETION TIMING
14702858	9934278	05/04/2015	METHOD OF OPTIMIZING COMPLEX SQL
			STATEMENTS USING A REGION DIVIDED
			PREFERENTIAL SQL REWRITE OPERATION
14705878	9769026	05/06/2015	DEVICE ASSET TRACKING AND SERVICE
			DESK USING AN EXTERNAL MANAGEMENT
			SYSTEM AS A DATA SOURCE
14722854	9813248	05/27/2015	CONTENT-BASED ENCRYPTION KEYS
14726971	9640177	06/02/2015	METHOD AND APPARATUS TO
			EXTRAPOLATE SARCASM AND IRONY
			USING MULTI-DIMENSIONAL MACHINE
			LEARNING BASED LINGUISTIC ANALYSIS
14731252	9847941	06/04/2015	SELECTIVELY SUPPRESS OR THROTTLE
			MIGRATION OF DATA ACROSS WAN
			CONNECTIONS

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14797010	9871814	07/10/2015	SYSTEM AND METHOD FOR IMPROVING SECURITY INTELLIGENCE THROUGH	
			INVENTORY DISCOVERY	
14806072	9875466	07/22/2015	PROBABILITY BASED WHITELIST	
14812823	9792169	07/29/2015	MANAGING ALERT PROFILES	
14815866	9888011	07/31/2015	SOCIAL MEDIA LOGIN AND INTERACTION MANAGEMENT	
14840739	9917853	08/31/2015	CORRELATING EVENT LOGS TO IDENTIFY A POTENTIAL SECURITY BREACH	
14845050	9641534	09/03/2015	PROVIDING CONTROLLED ACCESS TO ADMIN CREDENTIALS DURING A MIGRATION	
14845467	9792102	09/04/2015	IDENTIFYING ISSUES PRIOR TO DEPLOYING SOFTWARE	
14858299	9904536	09/18/2015	RISK ANALYSIS AND EFFICIENT UPDATE FOR LARGE SCALE SHAREPOINT CONTENT CHANGES	
14869072	9495437	09/29/2015	SYSTEM AND METHOD FOR ACCESSING DIMENSIONAL DATABASES	
14872525	9830213	10/01/2015	COLLECTING AND TRANSMITTING DIAGNOSTICS INFORMATION FROM PROBLEMATIC DEVICES	
14874587	9923853	10/05/2015	FOLDERS THAT EMPLOY DYNAMIC USER TRAINING RULES TO ORGANIZE CONTENT	
14937776	9723027	11/10/2015	FIREWALL INFORMED BY WEB SERVER SECURITY POLICY IDENTIFYING AUTHORIZED RESOURCES AND HOSTS	
14964502	9503425	12/09/2015	A METHOD TO ENABLE DEEP PACKET INSPECTION (DPI) IN OPENFLOW-BASED SOFTWARE DEFINED NETWORK (SDN)	
14968455	9723171	12/14/2015	PRINTED DOCUMENT CONTROL WITH VERIFIED UNIQUE WATERMARKS	
14976652	9843651	12/21/2015	A CENTRALIZED LANGUAGE MANAGEMENT SYSTEM TOOL FOR DISTRIBUTED SYSTEM	
14996608	9613043	01/15/2016	OBJECT DEDUPLICATION AND APPLICATION AWARE SNAPSHOTS	
15005840	9922352	01/25/2016	MULTIDIMENSIONAL SYNOPSIS GENERATION	
15018059	9923856	02/08/2016	DEPUTIZING AGENTS TO REDUCE A VOLUME OF EVENT LOGS SENT TO A COORDINATOR	
15018809	9753648	02/08/2016	FIXED SIZE EXTENTS FOR VARIABLE SIZE DEDUPLICATION SEGMENTS	
15055210	9881172	02/26/2016	SYSTEM AND METHOD FOR APPLYING DOCUMENT VERSIONING ACROSS AN ENTIRE ENTERPRISE	

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Number	Number		
15067976	9600488	03/11/2016	HEAT INDICES FOR FILE SYSTEMS AND
			BLOCK STORAGE
15077891	9736048	03/22/2016	VIRTUAL PRIVATE NETWORK DEAD PEER
			DETECTION
15094257	9800994	04/08/2016	SYSTEMS AND METHODS FOR CLOUD-
			BASED DEVICE CONFIGURATION
			MANAGEMENT OF HETEROGENEOUS
			DEVICES
15149750	9736215	05/09/2016	SYSTEM AND METHOD FOR CORRELATING
			END-USER EXPERIENCE DATA AND BACK-
			END PERFORMANCE DATA
15631946	9917979	06/23/2017	PRINTED DOCUMENT CONTROL WITH
			VERIFIED UNIQUE WATERMARKS
15434603	9838357	02/16/2017	NON RFC-COMPLIANT PROTOCOL
			CLASSIFICATION BASED ON REAL USE
15397573	9800417	01/03/2017	SECURE NEIGHBOR DISCOVERY (SEND)
			USING PRE-SHARED KEY
15358872	9787757	11/22/2016	IDENTIFICATION OF CONTENT BY
			METADATA
15340449	9825921	11/01/2016	SECURING INTERNET OF THINGS
			COMMUNICATIONS ACROSS MULTIPLE
			VENDORS
12034300	9690790	02/20/2008	METHOD AND APPARATUS FOR
			EFFICIENTLY MERGING, STORING AND
			RETRIEVING INCREMENTAL DATA
15418958	9800598	01/30/2017	DETECTING SHARED OR COMPROMISED
			CREDENTIALS THROUGH ANALYSIS OF
			SIMULTANEOUS ACTIONS
10858295	7287186	06/01/2004	SHARED NOTHING VIRTUAL CLUSTER
14987698	9501576	12/14/2015	FAST IDENTIFICATION OF CONTENT

<u>U.S. Patent Applications</u>:

Application	Publication	Filing	Title
Number	Number	Date	
11738952	20080263644	04/23/2007	FEDERATED AUTHORIZATION FOR
			DISTRIBUTED COMPUTING
12036167	20080221974	02/22/2008	LAZY EVALUATION OF BULK
			FORECASTS
12914767		10/28/2010	SYSTEMS AND METHODS FOR
		(allowed)	CONTROLLING ACCESS TO
			COMPUTER APPLICATIONS OR DATA
13474339			SYSTEMS AND METHODS FOR
			RESERVING CAPACITY FOR FUTURE
			VIRTUAL MACHINE DEPLOYMENTS
13489276	20120246646	06/05/2012	METHOD, SYSTEM AND APPARATUS
			FOR CALCULATING CHARGEBACK

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Application Number	Publication Number	Filing Date	Title
			FOR VIRTUALIZED COMPUTING
			RESOURCES
13658724			SYSTEM FOR INFERRING
			DEPENDENCIES AMONG COMPUTING
14014637	20140095243	08/30/2013	SYSTEMS DATA METRIC RESOLUTION RANKING
14014037	20140093243	08/30/2013	SYSTEM AND METHOD
14153218			SYSTEM AND METHOD FOR
14133216			PROACTIVE SCALING
14178158			SYSTEM AND METHOD FOR
11170130			MANAGING A CLUSTERED RADIO
			NETWORK
14178165			SYSTEM AND METHOD FOR
			COLLECTING DATA FROM LOW-
			AVAILABILITY DEVICES
14248215			SYSTEM AND METHOD TO STORE
			SHARED SESSIONS WITH ENCRYPTION
14248234			RICH FORM GENERATOR FOR
			RESTFUL SERVICE
14249147			INTUITIVE REPRESENTATION OF END-
			TO-END PERFORMANCE DIAGNOSTIC
			MONITORING BASED ON
14265973			DIFFERENTIAL ANALYSIS ENTERPRISE MEETING / CONFERENCE
14203973			RESOURCE ANALYTICS
14297944			METHOD FOR VARIABLE SECURITY /
1429/944			POLICY SETTINGS BASED ON USER
			CONTEXT
14305249			WEB SITE CERTIFICATE BYPASS
			ANALYSIS AND REPORTING
14319136	20150281281	06/30/2014	IDENTIFICATION OF UNAUTHORIZED
			APPLICATION DATA IN A CORPORATE
			NETWORK
14325074			SYSTEM AND METHOD TO INJECT
			ADDITIONAL PRIVILEGES WITHOUT
			CHANGING USER IDENTITY TO
			ENABLE USER WORKSPACE
14225205			MANAGEMENT TRACKING GLASSIEVING AND
14335205			TRACKING, CLASSIFYING AND REPORTING OF COMMUNICATION
			AND CONTENT EVENTS TO
			EMPLOYEES' PERFORMANCE
			OBJECTIVES AND GOALS
14536062	20160134571	11/07/2014	AUTOMATED LARGE ATTACHMENT
			PROCESSING DURING MIGRATION

Application Number	Publication Number	Filing Date	Title
14562453			THIS BINARY PACKING PROTOCOL
			MINIMIZES BYTES ACROSS THE
			NETWORK.
14562474			COMBINING RESPONSE TIME
			ANALYTICS, TOPOLOGY, AND
			MACHINE LEARNING BASED ON
			DIFFERENTIAL DIAGNOSTICS
14562502			TRANSIENT STORAGE OF TRACE
			DATA IN TIME-BOXED ARCHIVERS TO
			HANDLE PEAK LOAD
14605229	20160219008	01/26/2015	DYNAMICALLY PARTITIONING A
			MAILING LIST BASED ON A-PRIORI
			CATEGORIES AND CONTEXTUAL
			ANALYSIS
14607907			SYSTEM TO GENERATE DEPENDENCY
			TOPOLOGY MAP FOR CLOUD
			INFRASTRUCTURE
14610259	20160224556	01/30/2015	LOGICAL LEVEL PREDICTIVE
			CACHING FOR RELATIONAL
			DATABASES
14613917			HYBRID APPROACH TO STORAGE OF
			IT PERFORMANCE DATA IN AND
			INTEGRATED SOLUTION
			ENVIRONMENT
14619897			VISUAL FILTERING OF CODE CALL
			TREE DATA
14629583	20160246808	02/24/2015	FILE AND MOVE DATA TO SHRINK
			DATAFILES
14631826			SYSTEMS AND METHODS FOR EVENT-
			BASED AUTHENTICATION
14633826			VISUAL TRANSFORM AND CLEANSE
			BASED ITERATIVE QUERY BUILDER
14640706	20160259825	03/06/2015	
			PROBLEMATIC EXECUTION PLANS IN
			A BIND-SENSITIVE SQL STATEMENT
14645129	20160269329	03/11/2015	AUTOMATED LARGE FILE
			PROCESSING WITH EMBEDDED
			VISUAL CUES
14645393	20160267284	03/11/2015	METHOD AND SYSTEM FOR
			DESTROYING SENSITIVE ENTERPRISE
			DATA ON PORTABLE DEVICES
14657904	20160267612	03/13/2015	CENTRALLY MANAGED LICENSING IN
			A GLOBAL VPN INFRASTRUCTURE
14660697			SYSTEMS AND METHODS OF
			PATTERNIZING LOGGED USER-
			INITIATED EVENTS FOR SCHEDULING
			FUNCTIONS

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14665315	20160285824	03/23/2015	FIREWALL MULTI LEVEL SECURITY DYNAMIC HOST BASED SANDBOX GENERATION FOR EMBEDDED URL LINKS
14666410			SYSTEMS AND METHODS FOR FACILITATING PORTABLE USER SESSIONS
14672715	(allowed)	03/03/2015	SYSTEM AND METHODS OF SECURING NETWORK-ACCESSIBLE PERIPHERAL DEVICES
14674270			SYSTEMS AND METHODS OF AUTOMATIC TRAINING INITIATION BASED ON AN ANALYSIS OF USER- INITIATED COMMUNICATION EVENTS
14683416	20160299946	04/10/2015	USAGE AND SYMPTOM ORIENTED SQL OPTIMIZATION
14692169	20160314170	04/21/2015	SQL JOIN PLAN REPRESENTATION
14695681	20160314147	04/24/2015	PARTITIONING TARGET DATA TO IMPROVE DATA REPLICATION PERFORMANCE
14700444	20160323381	04/30/2015	ACCESS TO DISPARATE CLOUD SERVICES
14706060	20160330138	05/07/2015	SELECTING A CLOUD FROM A PLURALITY OF CLOUDS FOR A WORKLOAD
14719121	20160342677	05/21/2015	METHOD FOR DETERMINING PREDICTIVE RESPONSE TIME ACROSS ENTERPRISE COMMUNICATION SYSTEMS
14719121	20160344672	05/21/2015	PROCESSING UNKNOWN OR UNEXPECTED PROPERTIES ENCOUNTERED DURING MIGRATION OR ARCHIVING OPERATIONS
14722055	20160344672	05/21/2015	REDUCING TRANSMISSION PATHWAY LENGTHS WITHIN A DISTRIBUTED NETWORK
14722125	20160352578	05/26/2015	SYSTEM AND METHOD FOR ADAPTIVE PATHS LOCATOR FOR VIRTUAL NETWORK FUNCTION LINKS
14722914	20160350301	05/27/2015	DATA FINGERPRINT STRENGTHENING
14725778			MODEL BASED SYSTEM AND METHODS TO GENERATE END-TO-END DEPENDENCY GRAPH IN MULTI- LAYER NETWORK FUNCTION VIRTUALIZATION MONITORING SYSTEMS

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14731271	20160359953	06/04/2015	MIGRATION ENHANCED BY PRESENCE, INSTANT MESSAGING, AND LAST LOG-ON TIME
14731278	20160357438	06/04/2015	MIGRATE NICKNAME CACHE FOR EMAIL SYSTEMS AND DEVICES
14731283	20160357735	06/04/2015	DETERMINE CONFIDENCE OF MAIL ARCHIVE OWNERSHIP FROM SENDERS IN "SENT ITEMS" FOLDER
14738087	20160364423	06/12/2015	DYNAMICALLY OPTIMIZING DATA ACCESS PATTERNS USING PREDICTIVE CROWDSOURCING
14741021	20160371071	06/16/2015	A SYSTEM FOR ENABLING INDIVIDUAL TENANTS IN A MULTI- TENANT SAAS ENVIRONMENT TO CONTROL THEIR OWN UPGRADE TIMELINES ON AN ACCOUNT-BY- ACCOUNT BASIS.
14815221	20170034031	07/31/2015	AUTOMATIC DETERMINATION OF OPTIMAL TIME WINDOW FOR MIGRATION, BACKUP OR OTHER PROCESSES
14819233			SYSTEMS AND METHODS FOR TUNING CROSS-PLATFORM DATA COLLECTION
14821635	20170041431	08/07/2015	READ-AHEAD ON SIGNED CONNECTIONS WITH UNSIGNING INLINE TRANSPARENT PROXIES
14835530	20170063764	08/25/2015 (allowed)	DURING AN EMAIL MIGRATION, CONVERTING DISTRIBUTION LIST MESSAGES INTO SINGLE-INSTANCED CONTENT WITHIN A COLLABORATION PLATFORM GROUP
14842693	20170060957	09/01/2015	OPTIMIZED AND CONSISTENT REPLICATION OF FILE OVERWRITES
14844951	20170070464	09/03/2015	AUTOMATICALLY APPLYING DATA LOSS PREVENTION RULES DURING MIGRATION
14845756	20170070536	09/04/2015	GOVERNANCE POLICY FRAMEWORK FOR CLOUD RESOURCES
14858341			MODEL-BASED VDI MONITORING AND REMOTE DISPLAY SESSION LATENCY DIAGNOSTIC
14861608	20170083643	09/22/2015	SYSTEM AND METHOD FOR DUPLICATING CUSTOMER DEPLOYMENTS USING SANITIZED TOPOLOGIES

Application Number	Publication Number	Filing Date	Title
14867615	20170093782	09/28/2015	ELECTRONIC-MESSAGING SYSTEM
			INTERCEPTOR FORWARDING CLIENT
			NOTIFICATIONS
14869758	20170031715	09/29/2015	SIZING OF ONE OR MORE JOBS
			WITHIN ONE OR MORE TIME
			WINDOWS
14870470	20170093863	09/30/2015	COMBINING A SET OF RISK FACTORS
		(allowed)	TO PRODUCE A TOTAL RISK SCORE
			WITHIN A RISK ENGINE
14875120			PREDICTING QUALITY OF
			EXPERIENCE FOR VOIP CONFERENCES
			BASED ON CORRELATES OF
			SCHEDULING AND NATIVE QOE DATA
14875136			COMPRESSED METRIC FORMAT FOR
1.4077201	20150101501	10/07/2017	MULTI-CORE CPU UTILIZATION
14877391	20170104761	10/07/2015	IDENTITY AUTHENTICATION USING
1.4050655	20150102020	10/00/2015	MULTIPLE DEVICES
14879657	20170102938	10/09/2015	IDENTIFYING A POTENTIAL MENTOR
			FOR A COMPUTER-ADMINISTERED
1.400.600.4			TEST
14886884			DYNAMIC PROFILE-BASED TIME
14010020	20170116205	10/22/2015	SERIES COMPRESSION METHOD
14919930	20170116205	10/22/2015	EMAIL AND IDENTITY MIGRATION
			BASED ON MULTIFACTOR
			RELATIONSHIP DATA PROVIDED BY
14929460			USERS AND SYSTEMS AUGMENTED CONTENT-BASED
14929400			CLASSIFICATION THROUGH
			COMMUNICATION THROUGH COMMUNICATION USAGE TEXT
			ENRICHMENT TECHNIQUE
14929482			CONTEXT BASED LOG DIMENSIONS
14727402			ANALYSIS (RE-SUBMISSION FOR
			104091 - LOG EVENT AND
			PERFORMANCE METRICS
			CORRELATION)
14931454			AGENT MANAGED CONTAINER
14934720	20170132366	11/06/2015	PLATFORM FOR ADMINISTRATION OF
			PERSONAL HEALTH INFORMATION
14938580	20170132222	11/11/2015	DOCUMENT LINK MIGRATION
14942776	20170140338	11/16/2015	METHOD TO AUTOMATICALLY
			CREATE OFFICE 365 GROUPS USING
			MULTIFACTOR RELATIONSHIP DATA
			PROVIDED BY USERS AND SYSTEMS.
14948133	20170149690	11/20/2015	RESOURCE AWARE CLASSIFICATION
			SYSTEM
14956298	20170155622	12/01/2015	INTERNET OF THINGS DYNAMIC
			DATA LOSS PREVENTION

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14956464	20170161503	12/02/2015	DETERMINING A RISK INDICATOR
			BASED ON CLASSIFYING DOCUMENTS
14960043	20170161327	12/04/2015	USING A CLASSIFIER DISTRIBUTED DATABASE DRIVER
14700043	20170101327	12/04/2013	MIDDLEWARE
14962211	20170163650	12/08/2015	USAGE-BASED MODIFICATION OF
			USER PRIVILEGES
14964027	20170171831	12/09/2015	REGISTERING NETWORK DEVICES
			USING KNOWN HOST DEVICES
14965859	20170171227	12/10/2015	AUTOMATIC TUNNELS ROUTING
			LOOP ATTACK DEFENSE
14975625	20170180230	12/18/2015	TCP TRAFFIC PRIORITY CONTROL
			BASED ON TCP WINDOW
			ADJUSTMENT IN BANDWIDTH
14000000	20170107752	12/20/2017	MANAGEMENT
14980009	20170187753	12/28/2015	CONTEXT-AWARE DELEGATION ENGINE
14981299	20170185798	12/28/2015	CONTROLLING CONTENT
14901299	201/0163/96	12/28/2013	MODIFICATIONS BY ENFORCING ONE
			OR MORE CONSTRAINT LINKS
14989654	20170192854	01/06/2016	EMAIL RECOVERY VIA EMULATION
14909054	20170192834	01/00/2010	AND INDEXING
14989657	20170193079	01/06/2016	SMART EXCHANGE DATABASE INDEX
14991567	20170104687	01/08/2016	MANAGING PERSISTENT COOKIES ON
,,			A CORPORATE WEB PORTAL
14994328	20170201879	01/13/2016	TEMPORARY DISPOSABLE PORTABLE
			IDENTIFIER
14996133	20170207989	01/14/2016	DYNAMIC DNS DESTINATION
			SELECTION
15000867	20170206247	01/19/2016	DELAYING ONE OR MORE SEARCHES
			TO CAUSE MULTIPLE SEARCHES TO
			LOAD AND EVALUATE SEGMENTS
			TOGETHER
15005846	20170214759	01/25/2016	OPTIMIZER MODULE IN HIGH LOAD
15006075			CLIENT/SERVER SYSTEMS
15006875			PRIVACY ENABLED MOBILE DEVICE IDENTIFICATION FOR BYOD POLICIES.
15006891			IDENTIFICATION FOR BYOD POLICIES. IDENTIFYING COMMON
13000031			CONFIGURATIONS IN DISTRIBUTED
			ENVIRONMENTS WITH MEMORABLE
			HASH NAMES
15008081			RECOVERING A SPECIFIED SET OF
			DOCUMENTS FROM A DATABASE
			BACKUP
15009617	20170220593	01/28/2016	READ-ONLY FILE SYSTEM FOR
			TESTING DE-DUPLICATION

Application Number	Publication Number	Filing Date	Title
15010960			RISK AND VALUE BASED INFORMATION CLASSIFICATION SYSTEM.
15017107	20170228558	02/05/2016	CONTEXT-AWARE DELEGATION RISK SYSTEM
15019756	20170230458	02/09/2016 (allowed)	PROVIDING A SINGLE INTERFACE FOR ACCESSING RESOURCES THAT ARE DISTRIBUTED AMONG MULTIPLE PLATFORMS
15040793	20170228673	02/10/2016	NETWORK CHANGE AUDITING SYSTEM
15048563	20170242638	02/19/2016	SYSTEM AND METHOD FOR CONTROL OF PRINTED DOCUMENTS BASED ON CLASSIFICATION
15055901	20170249402	02/29/2016	GENERATING SIMULATION DATA USING A LINEAR CURVE SIMPLIFICATION AND REVERSE SIMPLIFICATION METHOD
15061209			CONTAINER SECURITY ENHANCEMENTS USING SIGNATURES, ENCRYPTION AND ADDITIONAL ACCESS CONTROL/GOVERNANCE
15061241			DYNAMIC CONTAINER MANIFEST CREATION
15061260			CONTAINER EXECUTION PROTOCOL
15062905	20170255506	03/07/2016	MONITORING, ANALYZING, AND MAPPING OF COMPUTING RESOURCES
15072715	20170272336	03/17/2016	DETERMINING DATA THAT IS COLLECTED WHEN AN EMPLOYEE USES CORPORATE RESOURCES
15072987	20170270437	03/17/2016	OBTAINING EMPLOYEE PERMISSION TO COLLECT DATA ASSOCIATED WITH EMPLOYEE USE OF CORPORATE RESOURCES
15073154	20170270457	03/17/2016	PROVIDING AN EMPLOYEE A PERK TO COLLECT DATA OF EMPLOYEE USAGE OF CORPORATE RESOURCES
15081014	20160212079	03/25/2016	MESSAGE CHALLENGE RESPONSE
15081104			SYSTEMS AND METHODS FOR DIAGNOSTIC ANALYSIS OF MEDIA- STREAM COMBINATIONS
15084677			METHOD AND SYSTEM FOR DYNAMIC DISCOVERY OF CONTAINER BASED MICRO SERVICES AND APPLICATIONS
15085180	20170289837	03/30/2016	NETWORK OPTIMIZATION AND CLIENT STEERING BASED ON

OF MIXED CLIENT DEVICES 15132120 20170300702 04/18/2016 PRESERVING DATA PROTECTION AL ENABLING SECURE CONTENT AWARENESS IN QUERY SERVICES 15136464 20170220664 04/22/2016 APPARATUS FOR EVENT CATEGORIZATION AND PUBLISHING STRUCTURED QUERY DIALECT TO ACCESS DOCUMENT DATABASES A MERGING WITH OTHER SOURCES 15136586 20170310625 04/22/2016 PRIORITIZED MESSAGING SYSTEM HARMONIZED QUERIES 15142351 20170316080 04/29/2016 AUTOMATICALLY GENERATED EMPLOYEE PROFILES 15150592 20170329972 05/10/2016 DETERMINING A THREAT SEVERITY ASSOCIATED WITH AN EVENT 15154062 20170331777 05/13/2016 ELECTRONIC MAIL (EMAIL) MESSAL LIFECYCLE MANAGEMENT 15155243 20170331712 05/16/2016 PERFORMANCE TRACKING OF AN APPLICATION DURING A SINGLE US SESSION 15158826 20170339031 05/19/2016 DISPATCHER FOR ADAPTIVE DATA COLLECTION 62321655 GLOBAL TRAFFIC OPTIMIZER OPTIMAL PROVIDER SELECTION REVERSE PROXY USING DNS NAME DEMULTIPLEXES RESOURCE ACCES 13664658 20140122817 10/31/2012 SYSTEM AND METHOD FOR AN OPTIMIZED DISTRIBUTED STORAGE SYSTEM 13786759 20140258244 03/06/2013 STORAGE SYSTEM DEDUPLICATION 13780759 20140258244 03/06/2013 STORAGE SYSTEM DEDUP	Application Number	Publication Number	Filing Date	Title
15132120				WIRELESS DATA RATE CAPABILITIES
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15136464				ENABLING SECURE CONTENT
CATEGORIZATION AND PUBLISHING				AWARENESS IN QUERY SERVICES
15136505	15136464	20170220664	04/22/2016	APPARATUS FOR EVENT
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15150592				EMPLOYEE PROFILES
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15154062				ASSOCIATED WITH AN EVENT
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15155243 20170331712 05/16/2016 PERFORMANCE TRACKING OF AN APPLICATION DURING A SINGLE US SESSION 15158826 20170339031 05/19/2016 DISPATCHER FOR ADAPTIVE DATA COLLECTION 62321655 SINGLE TIER ROUTING GLOBAL TRAFFIC OPTIMIZER OPTIMAL PROVIDER SELECTION REVERSE PROXY USING DNS NAME DEMULTIPLEXES RESOURCE ACCES 13664658 20140122817 10/31/2012 SYSTEM AND METHOD FOR AN OPTIMIZED DISTRIBUTED STORAGE SYSTEM 13786759 20140258244 03/06/2013 STORAGE SYSTEM DEDUPLICATION STORAGE SYSTEM DEDUPLICATION 1515000 1515000 1515000 1515000 1515000 1515000 1515000 1515000 1515000 1515000 151500 15150000 15150000 15150000 15150000 15150000 15150000 15150000 15150000 15150000 1				` ′
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SINGLE TIER ROUTING	15158826	20170339031	05/19/2016	DISPATCHER FOR ADAPTIVE DATA
SINGLE TIER ROUTING				COLLECTION
62321658 GLOBAL TRAFFIC OPTIMIZER OPTIMAL PROVIDER SELECTION REVERSE PROXY USING DNS NAME DEMULTIPLEXES RESOURCE ACCES 13664658 20140122817 10/31/2012 SYSTEM AND METHOD FOR AN OPTIMIZED DISTRIBUTED STORAGE SYSTEM 13786759 20140258244 03/06/2013 STORAGE SYSTEM DEDUPLICATION	62321655			SINGLE TIER ROUTING
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13786759 20140258244 03/06/2013 STORAGE SYSTEM DEDUPLICATION				SYSTEM
	13786759	20140258244	03/06/2013	
				WITH SERVICE LEVEL AGREEMENTS
13952062 20150032978 07/26/2013 TRANSFERRING DIFFERENCES	13952062	20150032978	07/26/2013	TRANSFERRING DIFFERENCES
BETWEEN CHUNKS DURING				BETWEEN CHUNKS DURING
REPLICATION				
	14319136	20150281281	06/30/2014	IDENTIFICATION OF UNAUTHORIZED
APPLICATION DATA IN A CORPORA				APPLICATION DATA IN A CORPORATE
NETWORK				
14327006 20160011891 07/09/2014 ENGINE FOR VIRTUAL MACHINE	14327006	20160011891	07/09/2014	
RESOURCES				
14453150 20160044077 08/06/2014 POLICY USE IN A DATA MOVER	14453150	20160044077	08/06/2014	
EMPLOYING DIFFERENT CHANNEL				EMPLOYING DIFFERENT CHANNEL
PROTOCOLS				PROTOCOLS

Application Number	Publication Number	Filing Date	Title
14453158	20160041777	08/06/2014	CLIENT-SIDE DEDUPLICATION WITH
			LOCAL CHUNK CACHING
14453165	20160041970	08/06/2014	CHUNK COMPRESSION IN A
			DEDUPLICATION AWARE CLIENT
			ENVIRONMENT
14453173	20160042008	08/6/2014	TECHNIQUE SELECTION IN A
			DEDUPLICATION AWARE CLIENT
			ENVIRONMENT
14850096	20160259544	09/10/2015	SYSTEMS AND METHODS FOR
			VIRTUAL PERIPHERY INTERACTION
14884583	20170109268	10/15/2015	DYNAMIC ADJUSTMENT OF
			INSTRUMENTATION SCOPE
15017079	20160154816	02/05/2016	SCALABLE MECHANISM FOR
			DETECTION OF COMMONALITY IN A
			DEDUPLICATED DATA SET
15075526	20160203162	03/21/2016	VIRTUAL DISK UTILITY
14688511	20160307208	04/16/2015	METHOD AND SYSTEM TO ENHANCE
			SOCIAL ENGAGEMENT ACCURACY BY
			DEVELOPING A VIRTUAL HIERARCHY
			OF TARGET ORGANIZATION
14710083	20160335542	05/12/2015	METHOD AND APPARATUS TO
			PERFORM NATIVE DISTRIBUTED
			ANALYTICS USING METADATA
			ENCODED DECISION ENGINE IN REAL
1.1510001	20170212250	05/01/0015	TIME
14719224	20160342350	05/21/2015	PROCESSING UNKNOWN OR
			UNEXPECTED PROPERTIES
			ENCOUNTERED DURING MIGRATION
15060012	20170255002	02/04/2016	OR ARCHIVING OPERATIONS
15060913	20170255903	03/04/2016	DETERMINING DELIVERY DATES FOR MULTIPLE PRODUCT TYPES
15171330	20170353935	06/02/2016	METHOD FOR EFFECTIVE PMTU
131/1330	20170333933	00/02/2010	DISCOVERY IN VPN ENVIRONMENT
15171408	20170351721	06/02/2016	PREDICTING INDEX FRAGMENTATION
131/1400	20170331721	00/02/2010	CAUSED BY DATABASE STATEMENTS
15206805	20180013730	07/11/2016	BLIND CLOUD DATA LEAK
13200003	20100013730	07/11/2010	PROTECTION
15217794	20170295086	07/22/2016	SINGLE TIER ROUTING
15217794	20170293080	07/22/2016	OPTIMAL SERVICE PROVIDER
13217001	20170293077	0772272010	SELECTION SELECTION
15217809	20170295131	07/22/2016	RESOURCE IDENTIFICATION
1341/009	201/0293131	0112212010	THROUGH DYNAMIC DOMAIN NAME
			SYSTEM (DNS) LABELS
15220018	20170031598	07/26/2016	DATA BLOCK MIGRATION
15226747	20170031398	08/02/2016	ALTERING SEARCH SEQUENCE TO
13220141	20100039070	00/02/2010	CAUSE MULTIPLE SEARCHES TO
			CAUSE MULTIFLE SEARCHES TO

Application Number	Publication Number	Filing Date	Title
			LOAD AND EVALUATE SEGMENTS TOGETHER
15248275	20180060388	08/26/2016	PRE-APPLYING A REDUCED VERSION OF A SEARCH QUERY TO LIMIT THE SEARCH SCOPE
15256449	20180067658	09/02/2016	SYSTEM AND METHOD FOR DYNAMIC RE-SERIALIZATION OF VTL DEVICES AND CARTRIDGES
15256853	20180069748	09/06/2016	DISTRIBUTED DATA COLLECTION IN AN ENTERPRISE NETWORK
15260200	20180067653	09/08/2016	DE-DUPLICATING MULTI-DEVICE PLUGIN
15289769	20180101449	10/10/2016	VIRTUALIZING A SECURE ACTIVE DIRECTORY ENVIRONMENT
15291886	20180103033	10/12/2016	PROVIDING A SECURE COMMUNICATION CHANNEL DURING ACTIVE DIRECTORY DISASTER RECOVERY
15602483	20170257374	05/23/2017	SOCIAL MEDIA LOGIN AND INTERACTION MANAGEMENT
15633458	20170295079	06/26/2017	VIRTUAL PRIVATE NETWORK DEAD PEER DETECTION
15636148	20170302628	06/28/2017	FIREWALL INFORMED BY WEB SERVER SECURITY POLICY IDENTIFYING AUTHORIZED RESOURCES AND HOSTS
15690642	20170366651	08/30/2017	REDUCING TRANSMISSION PATHWAY LENGTHS WITHIN A DISTRIBUTED NETWORK
15695979	20180088824	09/05/2017	FIXED SIZE EXTENTS FOR VARIABLE SIZE DEDUPLICATION SEGMENTS
15709242	20180069762	09/19/2017	DEVICE ASSET TRACKING AND SERVICE DESK USING AN EXTERNAL NETWORK MANAGEMENT SYSTEM AS A DATA SOURCE
15852428		12/22/2017	SYSTEM FOR PROVIDING STRUCTURED QUERY LANGUAGE ACCESS TO NON-RELATIONAL DATA STORES
15664849		07/31/2017	SYSTEM AND METHOD FOR DATA AGGREGATION AND ANALYSIS
15691347		08/30/2017	SYSTEMS AND METHODS OF SECURE SELF-SERVICE ACCESS TO CONTENT
15080755		03/25/2016	SYSTEMS AND METHODS FOR MULTI- STREAM PERFORMANCE PATTERNIZATION AND INTERVAL- BASED PREDICTION

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15198739		06/30/2016	SYSTEM AND METHODS FOR OPTIMIZED DATABASE SAMPLING
15201655		07/05/2016	SYSTEMS AND METHODS FOR SIMULATING VIRTUAL DESKTOP INFRASTRUCTURE SYSTEMS
15201657		07/05/2016	SYSTEMS AND METHODS FOR INTEGRATED MODELING AND PERFORMANCE MEASUREMENTS OF MONITORED VIRTUAL DESKTOP INFRASTRUCTURE SYSTEMS
12605193		10/23/2009	INSTRUMENTATION OF PROGRAM CODE FOR DYNAMIC ANALYSIS
15365812		11/30/2016	MULTI-TIERED DATA STORAGE IN A DEDUPLICATION SYSTEM
15403368		01/11/2017	GARBAGE COLLECTION AWARE DEDUPLICATION
15696062		09/05/2017	FILE AWARE BLOCK LEVEL DEDUPLICATION
15792528		10/24/2017	CLOUD-BASED DEVICE CONFIGURATION MANAGEMENT OF HETEROGENEOUS DEVICES
15799257		10/31/2017	EMAIL AND IDENTITY MIGRATION BASED ON RELATIONSHIP INFORMATION
15806198		11/07/2017	CONTENT-BASED ENCRYPTION KEYS
15812908		11/14/2017	ENHANCED MANAGEMENT OF MIGRATION AND ARCHIVING OPERATIONS
15824888		11/28/2017	COLLECTING AND TRANSMITTING DIAGNOSTICS INFORMATION FROM PROBLEMATIC DEVICES
PCT/US2017/064050		11/30/2017	MULTI-TIERED DATA STORAGE IN A DEDUPLICATION SYSTEM
15832563		12/05/2017	SECURE SHELL PUBLIC KEY AUDIT SYSTEM
15846908		12/19/2017	SELECTIVELY SUPPRESS OR THROTTLE MIGRATION OF DATA ACROSS WAN CONNECTIONS
15920346		03/13/2018	ACCELERATING TRANSFER PROTOCOLS
15926915		03/20/2018	DEPUTIZIING AGENTS TO REDUCE A VOLUME OF EVENT LOGS SENT TO A COORDINATOR
15944253		04/03/2018	METHOD OF OPTIMIZING COMPLEX SQL STATEMENTS USING A REGION DIVIDED PREFERENTIAL SQL REWRITE OPERATION

Application	Publication	Filing	Title
Number	Number	Date	
15445485	20170171162	02/28/2017	PROXY AUTHENTICATION FOR A
			MULTIPLE CORE NETWORK DEVICE

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RECORDED: 06/07/2018