Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
375	240.1	H	0	4	N	7 / 12 (2006.01.01)						

CROSS REFERENCE(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	05/29/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No. 20160529

GOOGLE EXHIBIT 1004 (part 3 of 3)

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

☒ **Claims renumbered in the same order as presented by applicant** ☐ **CPA** ☐ **T.D.** ☐ **R.1.47**

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	17												
2	2	18	18												
3	3	19	19												
4	4	20	20												
5	5	21	21												
6	6	22	22												
7	7	23	23												
8	8	24	24												
9	9	25	25												
10	10	26	26												
11	11	27	27												
12	12	28	28												
13	13	29	29												
14	14	30	30												
15	15														
16	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634 (Primary Examiner)	05/29/2016 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	01/23/2016	04/18/2016	05/29/2016						
1	1	✓	=	=						
2	2	✓	=	=						
3	3	✓	=	=						
4	4	✓	=	=						
5	5	✓	=	=						
6	6	✓	=	=						
7	7	✓	=	=						
8	8	✓	=	=						
9	9	✓	=	=						
10	10	✓	=	=						
11	11	✓	=	=						
12	12	✓	=	=						
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14	14	✓	=	=						
15	15	✓	=	=						
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25	25	✓	=	=						
26	26	✓	=	=						
27	27	✓	=	=						
28	28	✓	=	=						
29	29	✓	=	=						
30	30	✓	=	=						

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

CPC- SEARCHED

Symbol	Date	Examiner
((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((G06F15/7867)) | ((G06T1/60)) | ((H04N19/136).CPC.)	01/22/2016	TB
((H03M7/30)) | ((H03M7/3059)) | ((H03M7/3093)) | ((H04L69/04)) | ((H04N19/152)) | ((H04N9/8042).CPC.)	01/22/2016	TB
((H03M7/30 | H03M7/3059 | H03M7/3084 | H03M7/6094 | H03M7/3088 | H03M7/6023 | H03M7/6064 | H04N19/152 | G11B20/00007).CPC.)	01/23/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC.	04/17/2016	TB
CPC Updated	04/18/2016	TB
CPC Updated	05/29/2016	TB

CPC COMBINATION SETS - SEARCHED

Symbol	Date	Examiner

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
375	240, 240.01, 240.02	01/22/2016	TB
341	50, 51, 126	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search ALL ($8.ccls.)	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL	01/23/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL	04/17/2016 & 04/18/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL	05/29/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
WEST and Inventor's Name Searched	01/22/2016	TB
See Realted parent application 14/733,565 for further presecution History	01/22/2016	TB
WEST Search Updated	01/23/2016	TB
WEST Search Updated	04/17/2016	TB
WEST Search Updated	04/18/2016	TB
WEST Search Updated	05/29/2016	TB

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
375	240, 240.1	04/18/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	04/18/2016	TB
375	240, 240.1	05/29/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	05/29/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

PTO/SB/30 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	3403
Attorney Docket Number	3421.005000C

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

   a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

      i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

      ii. ☐ Other _____

   b. ☒ Enclosed

      i. ☐ Amendment/Reply

      ii. ☐ Affidavit(s)/ Declaration(s)

      iii. ☒ Information Disclosure Statement (IDS)

      iv. ☐ Other _____

2. Miscellaneous

   a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

   b. ☐ Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

   a. ☒ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 19-0036

      i. ☒ RCE fee required under 37 CFR 1.17(e)

      ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)

      iii. ☐ Other _____

   b. ☐ Check in the amount of $ _____ enclosed

   c. ☒ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	/Michael V. Messinger/	Date	July 27, 2016
Name (Print/Type)	Michael V. Messinger	Registration No.	37,575

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature			
Name (Print/Type)		Date	

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

2842694

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Data LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: 3403

Atty. Docket: 3421.005000C

Seventh Supplemental Information Disclosure Statement

Mail Stop RCE

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Notice of Intent to Issue Inter Partes Reexamination Certificate mailed 7/15/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be

provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **NPL40-NPL44**.

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00373	7,378,992	Institution Decision mailed June 27, 2016
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00374	8,643,513	Institution Decision mailed June 27, 2016
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00375	7,415,530	Institution denied July 1, 2016
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00376	7,415,530	Institution denied July 1, 2016
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00377	9,116,908	Institution denied July 1, 2016
SAP America Inc., et al. v. Realtime Data LLC d/b/a IXO, IPR2016-00783	6,597,812	Patent Owner Preliminary Response filed June 15, 2016
Dell Inc., et al. v. Realtime Data LLC, IPR2016-00878	7,415,530	Dismissed June 21, 2016
Dell Inc., et al. v. Realtime Data LLC, IPR2016-00972	7,415,530	Petition filed April 29, 2016
Riverbed Technology, Inc. et al. v. Realtime Data LLC, IPR2016-00978	8,643,513	Petition filed April 29, 2016
Riverbed Technology, Inc. et al. v. Realtime Data LLC, IPR2016-00980	7,378,992	Petition filed April 29, 2016
Dell Inc., et al. v. Realtime Data LLC IPR2016-01002	9,116,908	Petition filed May 5, 2016
Apple Inc. v. Realtime Data LLC, IPR2016-01365	7,181,608	Petition filed July 8, 2016
Apple Inc. v. Realtime Data LLC, IPR2016-01366	8,090,936	Petition filed July 8, 2016

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **US2**, **US4-US5** and **NPL45-NPL61**.

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014

3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed May 1, 2015
12	*Realtime Data LLC d/b/a IXO v. Actian Corporation*, et al., No. 6:15-cv-00463 (E.D. Texas)	Order Granting Motion to Supplement Claim Construction Record issued July 22, 2016
13	*Realtime Data LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed February 22, 2016
14	*Realtime Data LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12
15	*Realtime Data LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12
16	*Realtime Data LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated October 5, 2015
17	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22

18	*Realtime Data LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12; Joint Stipulation of Dismissal filed July 26, 2016
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 3:16-cv-01836 (N.D. Cal.) (formerly no. 6:15-cv-00470 (E.D. Texas))	Case dismissed May 18, 2016
20	*Realtime Data LLC d/b/a IXO v. Apple Inc.*, No. 3:16-cv-02595 (N.D. Cal.) (formerly Case No. 6:15-cv-00885 (E.D. Texas))	Transferred to the Northern District of California, May 11, 2016
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Answers to Defendants' Counterclaims filed June 23, 2016
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Plaintiff's Opening Claim Construction Brief filed July 25, 2016
23	*Realtime Data LLC d/b/a IXO v. Savvis Party Communications Corporation, et al.*, No. 6:16-cv-00087 (E.D. Texas)	Answer to Defendant's Counter-Claims filed July 8, 2016
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Answer to Amended Complaint filed June 23, 2016
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Amended Complaint filed May 17, 2016
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Complaint filed June 29, 2016
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Complaint filed July 21, 2016
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Complaint filed July 22, 2016

Court dockets for pending litigations are submitted herewith as documents **NPL62-NPL64**.

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

Copies of documents **NPL1-NPL64** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copies of the U.S. patents and patent application publication cited as documents **US1-US7** on the attached IDS Forms are submitted.

Applicant submits herewith Office Actions from the following co-pending U.S. Patent Application Nos.:

Document **NPL38** is a copy of a Non-Final Office Action mailed May 17, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/844,973.

Document **NPL39** is a copy of a Non-Final Office Action mailed June 7, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/727,309.

The identification of these Office Actions is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

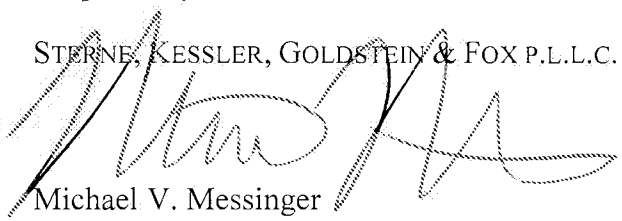
It is expected that the examiner will review the prosecution and cited art in the parent application nos. 14/733,565, filed June 8, 2015 (now pending); 14/577,286, filed December 19, 2014 (now abandoned); 14/134,933, filed December 19, 2013 (now U.S. Patent No. 8,929,442); 14/033,245, filed September 20, 2013 (now U.S. Patent No. 8,934,535); 13/154,239, filed June 6, 2011 (now U.S. Patent No. 8,553,759); 12/123,081, filed May 19, 2008 (now U.S. Patent No. 8,073,047); and 10/076,013, filed February 13, 2002 (now U.S. Patent No. 7,386,046), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: July 27, 2016

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

2842685_1.DOCX

Substitute for form 1449/PTO

SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	3403
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	5,524,272	06-04-1996	Podowski et al.	
	US2	5,860,083	01-12-1999	Sukegawa	
	US3	6,121,903	09-19-2000	Kalkstein	
	US4	6,158,000	12-05-2000	Collins	
	US5	6,374,353 B1	04-16-2002	Settsu et al.	
	US6	7,096,481 B1	08-22-2006	Forecast et al.	
	US7	2016/0162505 A1	06-09-2016	Fallon	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

2842679_1.DOCX

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				Complete if Known	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
				Examiner Name	3403
Sheet	1	of	7	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Amended Complaint for Patent Infringement Against Teradata Operations, Inc., filed in Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc., Case No. 2:16-cv-02743-AG-FFM (C.D. Cal.), filed May 17, 2016; 58 pages.	
	NPL2	Defendants Hewlett Packard Enterprise Co. and HP Enterprise Services, LLC's Answer to Plaintiff's Complaint for Patent Infringement and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al., Case No. 6:16-cv-00086-RWS-JDL (E.D. Tex.), filed May 20, 2016; 20 pages.	
	NPL3	Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-463-RWS-JDL (E.D. Texas), filed May 23, 2016; 37 pages.	
	NPL4	The Agreed and Disputed Constructions, as of May 23, 2016, Exhibit 12 to Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-463-RWS-JDL (E.D. Texas), filed May 23, 2016; 4 pages.	
	NPL5	Plaintiff Realtime Data LLC's Expert Declaration of Dr. Kenneth Zeger, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-463-RWS-JDL (E.D. Texas), filed May 23, 2016; 21 pages.	
	NPL6	Answer, Defenses, and Counterclaims to Plaintiff's Complaint for Patent Infringement, filed in Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al., Case No. 6:16-cv-00086 (E.D. Texas), filed June 3, 2016; 23 pages.	
	NPL7	Defendant Veritas Technologies LLC's Answer, Affirmative Defenses, and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Centurylink, Inc., et al., Case No. 6:16-cv-00087-RWS-JDL (E.D. Texas), filed June 6, 2016; 30 pages.	
	NPL8	Amended Complaint for Patent Infringement Against Dell Inc. and EMC Corporation, filed in Realtime Data LLC d/b/a IXO v. Dell Inc., et al., Case No. 6:16-cv-00089-RWS-JDL (E.D. Texas), filed June 9, 2016; 47 pages.	
	NPL9	Savvis Communications Corporations' Answer, Affirmative Defenses, and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Savvis Communications Corporation, et al., Case No. 6:16-cv-00087-RWS-JDL (E.D. Texas), filed June 13, 2016; 16 pages.	
	NPL10	Defendants' Responsive Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 39 pages.	

Examiner Signature		Date Considered	

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Substitute for form 1449/PTO

SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet | 2 | of | 7

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	3403
Attorney Docket Number	3421.005000C

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Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL11	Declaration of Dr. Charles D. Creusere in Support of Defendants' Motion for Partial Summary Judgment of Indefiniteness, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 10 pages.	
	NPL12	Excerpt from Modern Dictionary of Electronics, Seventh Edition, Boston: Newnes, 1999, Exhibit 1 to Defendants' Responsive Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 5 pages.	
	NPL13	Motion for Partial Summary Judgment of Indefiniteness By Defendants Dell Inc., Echostar Corporation, Hughes Network Systems LLC, Hewlett Packard Enterprise Co., HP Enterprise Services, LLC, Riverbed Technology, Inc., SAP America Inc., and Sybase, Inc., filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 15 pages.	
	NPL14	U.S. Provisional Patent Application No. 60/136,561, filed May 28, 1999, Exhibit C to Motion for Partial Summary Judgment of Indefiniteness By Defendants Dell Inc., Echostar Corporation, Hughes Network Systems LLC, Hewlett Packard Enterprise Co., HP Enterprise Services, LLC, Riverbed Technology, Inc., SAP America Inc., and Sybase, Inc., filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 24 pages.	
	NPL15	Declaration of James A. Storer, Ph.D., Exhibit 5 to Defendants' Responsive Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 37 pages.	
	NPL16	Dell Inc.'s Answer, Defenses, and Counterclaims to Plaintiff's Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc., et al., Case No. 6:16-cv-00089-RWS-JDL (E.D. Texas), filed June 23, 2016; 17 pages.	
	NPL17	Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 12 pages.	
	NPL18	Invalidity Chart for U.S. Patent No. 7,415,530 based on U.S. Patent No. 5,247,646 ("Osterlund"), filed as Exhibit A to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 19 pages.	
	NPL19	Invalidity Chart for U.S. Patent No. 7,415,530 based on U.S. Patent No. 5,479,638 ("Assar"), filed as Exhibit B to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 5 pages.	
	NPL20	Invalidity Chart for U.S. Patent No. 7,415,530 based on U.S. Patent No. 5,771,354 ("Crawford"), filed as Exhibit C to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 20 pages.	

Examiner Signature		Date Considered	

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SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
				Examiner Name	3403
Sheet	3	of	7	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL21	Invalidity Chart for U.S. Patent No. 7,415,530 based on U.S. Patent No. 5,319,682 ("Clark"), filed as Exhibit D to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 20 pages.	
	NPL22	513 v. PCT Publication No. WO 00/46688 to Wang et al., filed as Exhibit E to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 53 pages.	
	NPL23	Invalidity Chart for U.S. Patent No. 9,116,908 Based on U.S. Patent No. 5,247,646 ("Osterlund"), filed as Exhibit F to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 16 pages.	
	NPL24	Defendant Dell Inc.'s Preliminary Election of Prior Art, filed as Exhibit M to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 20 pages.	
	NPL25	Plaintiff Realtime Data LLC's Reply Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 27, 2016; 15 pages.	
	NPL26	Plaintiff Realtime Data LLC's Response to Moving Defendants' Motion for Partial Summary Judgment of Indefiniteness, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 27, 2016; 20 pages.	
	NPL27	Moving Defendants' Reply Brief in Support of Their Motion for Partial Summary Judgment of Indefiniteness, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 30, 2016; 9 pages.	
	NPL28	Joint Claim Construction Chart - Exhibit A, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 30, 2016; 3 pages.	
	NPL29	Joint Claim Construction Chart - Exhibit B, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 30, 2016; 18 pages.	
	NPL30	Plaintiff's Notice of Supplemental Facts, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed July 5, 2016; 3 pages.	

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				First Named Inventor	James J. FALLON
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Sheet	4	of	7	Attorney Docket Number	3421.005000C

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	NPL31	Defendants' Motion to Supplement the Claim Construction Record, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), and Realtime Data LLC d/b/a IXO v. Oracle America Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 11, 2016; 10 pages.	
	NPL32	Joint Claim Construction and Prehearing Statement, filed in Realtime Data LLC d/b/a IXO v. Oracle America Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 13, 2016; 5 pages.	
	NPL33	Exhibit A to Joint Claim Construction and Prehearing Statement, filed in Realtime Data LLC d/b/a IXO v. Oracle America Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 11, 2016; 5 pages.	
	NPL34	Plaintiff Realtime Data LLC's Response to Defendants' Motion to Supplement the Claim Construction Record, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), and Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:15-cv-00088-RWS-JDL (E.D. Texas), filed July 14, 2016; 14 pages.	
	NPL35	Complaint for Patent Infringement Against Rackspace US, Inc., Netapp, Inc., and Solidfire, Inc., filed in Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al., Case No. 6:16-cv-00961 (E.D. Texas), filed June 29, 2016; 216 pages.	
	NPL36	Complaint for Patent Infringement Against Fujitsu America, Inc. and Quantum Corporation, filed in Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al., No. 6:16-cv-01035 (E.D. Texas), filed July 21, 2016; 137 pages.	
	NPL37	Complaint for Patent Infringement Against Vembu Technologies, Inc., filed in Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc., No. 6:16-cv-01037 (E.D. Texas), filed July 22, 2016; 86 pages.	
	NPL38	Copy of Non-Final Office Action for U.S. Patent Appl. No. 14/844,973, mailed May 17, 2016; 18 pages.	
	NPL39	Copy of Non-Final Office Action for U.S. Patent Appl. No. 14/727,309, mailed June 7, 2016; 15 pages.	
	NPL40	Notice of Intent to Issue Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,777,651, Control No. 95/001,581, mailed June 2, 2016; 5 pages.	

Examiner Signature		Date Considered	

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				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
				Examiner Name	3403
Sheet	5	of	7	Attorney Docket Number	3421.005000C

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	NPL41	Notice of Intent to Issue Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,417,568, Control No. 95/001,533, mailed June 14, 2016; 6 pages.	
	NPL42	Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,777,651, Control No. 95/001,581, issued July 7, 2016; 2 pages.	
	NPL43	Notice of Intent to Issue Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,400,274, Control No. 95/001,544, mailed July 15, 2016; 5 pages.	
	NPL44	Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,417,568, Control No. 95/001,533, issued July 22, 2016; 2 pages.	
	NPL45	Institution Decision, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00373 (P.T.A.B.), mailed June 27, 2016; 32 pages.	
	NPL46	Institution Decision, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00374 (P.T.A.B.), mailed June 27, 2016; 28 pages.	
	NPL47	Decision Denying Institution, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00375 (P.T.A.B.), mailed July 1, 2016; 13 pages.	
	NPL48	Decision Denying Institution, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00376 (P.T.A.B.), mailed July 1, 2016; 18 pages.	
	NPL49	Decision Denying Institution, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00377 (P.T.A.B.), mailed July 1, 2016; 16 pages.	
	NPL50	Petition for Inter Partes Review of United States Patent No. 7,181,608 Pursuant to 35 U.S.C. 311-319, 37 C.F.R. 42, filed in Apple Inc. v. Realtime Data LLC, Case No. IPR2016-01365 (P.T.A.B.), filed July 8, 2016; 77 pages.	

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				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	3403
Sheet	6	of	7	Attorney Docket Number	3421.005000C

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	NPL51	File History of U.S. Patent No. 7,181,608, U.S. Patent Application No. 09/776,267, filed February 2, 2001; 507 pages.	
	NPL52	Declaration of Dr. Charles J. Neuhauser, filed in Apple Inc. v. Realtime Data LLC, Case No. IPR2016-01365 (P.T.A.B.), filed July 8, 2016; 174 pages.	
	NPL53	BURROWS, ET AL., "On-Line Data Compression in a Log-structured File System," Fifth International Conference on Architectural Support for Programming Languages and Operating Systems, October 12-15, 1992; 27 pages.	
	NPL54	Excerpts from HENNESSY, ET AL., Computer Architecture - A Quantitative Approach, San Mateo, CA: Morgan Kaufmann Publishers, 1990; p. 403-425, 535-538.	
	NPL55	PROSISE, J., "DOS 6: The Ultimate Software Bundle?", PC Magazine, Vol. 12, No. 7, April 13, 1993; 29 pages. (Submitted in 2 parts.)	
	NPL56	Excerpts from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; pp. 194-196.	
	NPL57	Exceprts from SHANLEY, ET AL., PCI System Architecture, Fourth Edition, New York: Addison Wesley, 1999; pp. 7-13.	
	NPL58	STORER, ET AL., "Data Compression via Textual Substitution," Journal of the Association for Computing Machinery, Vol. 29, No. 4, October 1982; 24 pages.	
	NPL59	Petition for Inter Partes Review of United States Patent No. 8,090,936 Pursuant to 35 U.S.C. 311-319, 37 C.F.R. 42, filed in Apple Inc. v. Realtime Data LLC, Case No. IPR2016-01366 (P.T.A.B.), filed July 8, 2016; 77 pages.	
	NPL60	File History of U.S. Patent No. 8,090,936, U.S. Patent Application No. 11/551,204, filed October 19, 2006; 970 pages.	

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				First Named Inventor	James J. FALLON
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(Use as many sheets as necessary)				Examiner Name	3403
Sheet	7	of	7	Attorney Docket Number	3421.005000C

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	NPL61	Declaration of Dr. Charles J. Neuhauser, filed in Apple Inc. v. Realtime Data LLC, Case No. IPR2016-01366 (P.T.A.B.), filed July 8, 2016; 157 pages.	
	NPL62	Court Docket History for Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al., No. 6:16-cv-00961 (E.D. Texas), downloaded June 30, 2016; 2 pages.	
	NPL63	Court Docket History for Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc., et al., No. 6:16-cv-01035 (E.D. Texas), downloaded July 27, 2016; 2 pages.	
	NPL64	Court Docket History for Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc., No. 6:16-cv-01037 (E.D. Texas), downloaded July 27, 2016; 2 pages.	

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Electronic Patent Application Fee Transmittal

Application Number:	14876276
Filing Date:	06-Oct-2015
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Filer:	Michael V. Messinger/Wilson Smith
Attorney Docket Number:	3421.005000C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2nd and Subsequent Request	1820	1	1700	1700
		Total in USD ($)		**1700**

Electronic Acknowledgement Receipt

EFS ID:	26475320
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger/William Flanigen
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	3421.005000C
Receipt Date:	27-JUL-2016
Filing Date:	06-OCT-2015
Time Stamp:	19:43:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$1700
RAM confirmation Number	5559
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	NPL60_IPR201601366_1002_936_FH.pdf	13216668 b332a914cfb4a045df52ba65b8d2bc51f640eec5	no	970
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2	Non Patent Literature	NPL61_IPR201601366_1003_Neuhauser_Decl_07082016.pdf	667532 4661322f0918871453717 7b74e2f3eebc88987e5	no	157
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6		3421005000C_7SIDS.pdf	2580251 23419f7a011fb0f3274317fa208e0fd0184df011	yes	19
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	

	Miscellaneous Incoming Letter		1		1
	Request for Continued Examination (RCE)		2		2
	Transmittal Letter		3		11
	Information Disclosure Statement (IDS) Form (SB08)		12		19
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7	Fee Worksheet (SB06)	fee-info.pdf	30296 e43767ddbb46e92be8db1081bca1d97fb0457755	no	2
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Information:					
		Total Files Size (in bytes):	16652201		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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ATTORNEYS AT LAW

July 27, 2016

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Confirmation No. 3403
Art Unit 2634
Attn: Mail Stop Amendment

Re: U.S. Utility Patent Application
Application No. 14/876,276; Filing Date: October 6, 2015
For: **Video Data Compression Systems**
Inventors: FALLON *et al.*
Our Ref: 3421.005000C

Commissioner:

Transmitted herewith for appropriate action are the following documents:

1. Online Credit Card Payment Authorization in the amount of $1,700.00 in payment of the fee under 37 C.F.R. § 1.17(e)(2);
2. Request for Continued Examination (PTO/SB/30);
3. Seventh Supplemental Information Disclosure Statement;
4. Form PTO/SB/08a (1 sheet) listing 7 documents (**US1-US7**);
5. Form PTO/SB/08b (7 sheets) listing 64 documents (**NPL1-NPL64**); and
6. Copies of cited documents (**NPL1-NPL64**).

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Fee The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

MVM/MRM/wcf
Enclosures

2842687_1.DOCX

US007417568C1

(12) **INTER PARTES REEXAMINATION CERTIFICATE** (1308th)

United States Patent

Fallon et al.

(10) **Number: US 7,417,568 C1**

(45) **Certificate Issued: Jul. 22, 2016**

(54) **SYSTEM AND METHOD FOR DATA FEED ACCELERATION AND ENCRYPTION**

(75) Inventors: **James J. Fallon**, Armonk, NY (US); **Paul F. Pickel**, Bethpage, NY (US); **Stephen J. McErlain**, New York, NY (US); **Carlton J. Melone**, Ridgewood, NJ (US)

(73) Assignee: **REALTIME DATA, LLC**, New York, NY (US)

Reexamination Request:
No. 95/001,533, Mar. 1, 2011

Reexamination Certificate for:

Patent No.:	**7,417,568**
Issued:	**Aug. 26, 2008**
Appl. No.:	**10/434,305**
Filed:	**May 7, 2003**

Certificate of Correction issued Jan. 6, 2009

Related U.S. Application Data

(63) Continuation-in-part of application No. 09/969,987, filed on Oct. 3, 2001, now Pat. No. 9,143,546.

(60) Provisional application No. 60/237,571, filed on Oct. 3, 2000, provisional application No. 60/378,517, filed on May 7, 2002.

(51) **Int. Cl.**

H03M 7/38	(2006.01)
G06Q 40/04	(2012.01)
G06Q 50/18	(2012.01)
H04L 12/18	(2006.01)
H04L 29/08	(2006.01)
H04L 29/06	(2006.01)

(52) **U.S. Cl.**

CPC ***G06Q 40/04*** (2013.01); ***G06Q 50/188*** (2013.01); ***H04L 12/1895*** (2013.01); ***H04L 29/06027*** (2013.01); ***H04L 65/607*** (2013.01); ***H04L 65/80*** (2013.01); ***H04L 67/26*** (2013.01); ***H04L 69/04*** (2013.01)

(58) **Field of Classification Search**

USPC 341/51

See application file for complete search history.

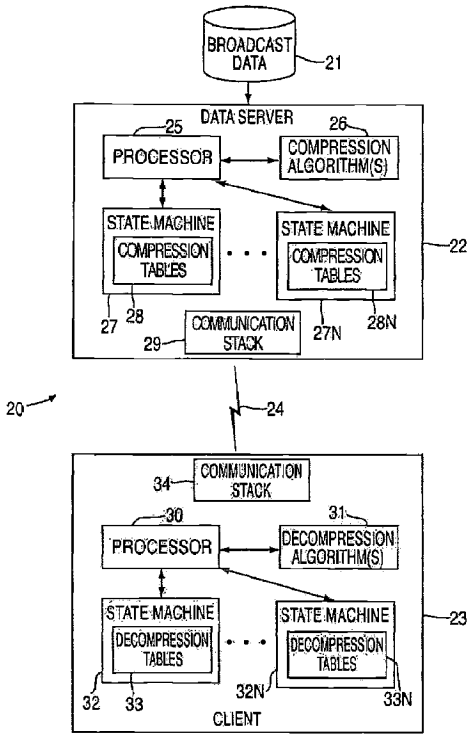
(56) **References Cited**

To view the complete listing of prior art documents cited during the proceeding for Reexamination Control Number 95/001,533, please refer to the USPTO's public Patent Application Information Retrieval (PAIR) system under the Display References tab.

Primary Examiner — Deandra Hughes

(57) **ABSTRACT**

Systems and methods for providing accelerated transmission of broadcast data, such as financial data and news feeds, over a communication channel using data compression and decompression to provide secure transmission and transparent multiplication of communication bandwidth, as well as reduce the latency associated with data transmission of conventional systems.



INTER PARTES REEXAMINATION CERTIFICATE

THE PATENT IS HEREBY AMENDED AS INDICATED BELOW.

AS A RESULT OF REEXAMINATION, IT HAS BEEN DETERMINED THAT:

Claims **1**-**41**, **45**-**62**, **67**, **69** and **70** are cancelled.

Claims **42**-44, **63**-**66** and **68** were not reexamined.

* * * * *

Electronic Acknowledgement Receipt

EFS ID:	26475067
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger/William Flanigen
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	3421.005000C
Receipt Date:	27-JUL-2016
Filing Date:	06-OCT-2015
Time Stamp:	19:45:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	NPL1_Teradata_Amended_Complaint_05172016.pdf	560550 1d54993756f1ce46f94d7f594e74d05a7666886b	no	58

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2	Non Patent Literature	NPL2_HP_Answer_05202016.pdf	69721 07c16abfe547425e159030866263f5a01508e8a9	no	20
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5	Non Patent Literature	NPL5_Zeger_Declaration_05232016.pdf	293212 0e812d9edcfcd9b6f3855ea30278376327d544b5	no	21
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13	Non Patent Literature	NPL13_Dell_Motion_Summary_Judgment_06132016.pdf	126631 ed2837ba385fcd33237c99be4e758f9d7ab7c3f6	no	15
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16	Non Patent Literature	NPL16_Dell_Answer_to_Amended_Complaint_06232016.pdf	52095 a37d3707dcd004aada3f2b1126189f396369c9d4	no	17
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19	Non Patent Literature	NPL19_Actian_Motion_Amend_Invalidity_Ex_B_06242016.pdf	53800 076ff3fce63663c67a39fb96ce8ea69d12a73208	no	5
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55	Non Patent Literature	NPL55_IPR201601365_1010_Part1of2_Prosise_1993.pdf	8488160 f3d6e281aa8143252c1b5dcbe250d664a0abb005	no	29
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56	Non Patent Literature	NPL55_IPR201601365_1010_Part2of2_Prosise_1993.pdf	1764954 9471292d5c403a2dd8f781098e258557333815c5	no	13
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57	Non Patent Literature	NPL56_IPR201601365_1013_Microsoft_Comp_Dict_1997.pdf	263628 2b91111185f5844530cf4481210bb64979a0f3e7	no	5
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58	Non Patent Literature	NPL57_IPR201601365_1014_PCI_System_Architecture_1999.pdf	537938 2becc04cf1dbd5e79d8928624dd3bfaaa82697a5	no	11
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/876,276	Filing Date 10/06/2015	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

		(Column 1)		(Column 2)	(Column 3)		
	07/27/2016	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	* 30	Minus	** 30	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $420 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)		
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/DEBRA SAVOY/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

26111 7590 08/12/2016

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER
BOCURE, TESFALDET

ART UNIT	PAPER NUMBER
2634	

DATE MAILED: 08/12/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: Video Data Compression Systems

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	11/14/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

26111 7590 08/12/2016
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: Video Data Compression Systems

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	11/14/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
BOCURE, TESFALDET	2634	375-240100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 (Part B) (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

26111 7590 08/12/2016

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER	
BOCURE, TESFALDET	

ART UNIT	PAPER NUMBER
2634	

DATE MAILED: 08/12/2016

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/876,276	Applicant(s) FALLON ET AL.	
	Examiner TESFALDET BOCURE	Art Unit 2634	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *IDS and RCE filed on 07/27/2016*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-30*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7/27/2016
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.

2. This office action (Notice of Allowance) is in response to the IDS and RCE filed on 07/27/2016. The pending claims 1-30 are now allowed.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 07/27/2016 has been entered.

Information Disclosure Statement

4. The information disclosure statements (IDS) submitted on 07/27/2016 (two IDSs filed on the same date are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. Attached with this correspondence are the initialed copies of the IDSs.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TESFALDET BOCURE whose telephone number is (571)272-3015. The examiner can normally be reached on 8:30am-to-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel C. Washburn can be reached on 571-272-5551. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

/T. B./
Primary Examiner, Art Unit 2634

WEST Search History for Application 14876276

Creation Date: 2016080516:44

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((Fallen adj James).in. or (McErlain adj Stephen).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	47	OR	YES		08-05-2016
((Fallen).in. or (McErlain).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	181	OR	YES		08-05-2016
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		08-05-2016
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		08-05-2016
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and @ad<=20010213	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		08-05-2016
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2	PGPB, USPT, USOC,	37	OR	YES		08-05-2016

ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))	EPAB, JPAB, DWPI, TDBD					
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	OR	YES		08-05-2016
(selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	25	OR	YES		08-05-2016
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric $4near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6071	OR	YES		08-05-2016
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric$4 near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		08-05-2016
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same ((fast near4 slow) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		08-05-2016
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		08-05-2016

((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30))))) | (((((H03M7/3084))))) | (((((H03M7/6094))))) | (((((G06F15/7867))))) | (((((G06T1/60))))) | ((((((H04N19/136))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	OR	YES		08-05-2016
(((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30))))) | (((((H03M7/3059))))) | (((((H03M7/3093))))) | (((((H04L69/04))))) | (((((H04N19/152))))) | ((((((H04N9/8042))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	30	OR	YES		08-05-2016
("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		08-05-2016
(((((375/$8)))).ccls. or ((((370/$8)))).ccls. or ((((348/$8)))).ccls. or ((((341/$8)))).ccls. or ((((711/$8)))).ccls. or ((((701/$8)))).ccls. or ((((381/$8)))).ccls. or ((((375/382)))).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1260093	OR	YES		08-05-2016
(((((375/$8)))).ccls. or ((((370/$8)))).ccls. or ((((348/$8)))).ccls. or ((((341/$8)))).ccls. or ((((711/$8)))).ccls. or ((((701/$8)))).ccls. or ((((381/$8)))).ccls. or ((((375/382)))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		08-05-2016

same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))						
(((((375/240))))).ccls. or ((((375/240.01)))).ccls. or ((((375/240.02)))).ccls. or ((((341/50)))).ccls. or ((((341/51)))).ccls. or ((((341/126)))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		08-05-2016
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	26	OR	YES		08-05-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	88	OR	YES		08-05-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	50	OR	YES		08-05-2016

compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((375/240)))).ccls. or ((((375/240.01)))).ccls. or ((((375/240.02)))).ccls. or ((((341/50)))).ccls. or ((((341/51)))).ccls. or ((((341/126)))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	TDBD					
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((375/$8)))).ccls. or ((((370/$8)))).ccls. or ((((348/$8)))).ccls. or ((((341/$8)))).ccls. or ((((711/$8)))).ccls. or ((((701/$8)))).ccls. or ((((381/$8)))).ccls. or ((((375/382)))).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		08-05-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5	PGPB, USPT,	66	OR	YES		08-05-2016

encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((H03M7/30))) | (((H03M7/3059))) | (((H03M7/3084))) | (((H03M7/6094))) | (((H03M7/3088))) | (((H03M7/6023))) | (((H03M7/6064))) | (((H04N19/152))) | (((G11B20/00007)))).CPC.)	USOC, EPAB, JPAB, DWPI, TDBD					
("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	68	OR	YES		08-05-2016
(("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		08-05-2016

compression))))						
("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	74	OR	YES		08-05-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((H04N19/164)) | HO4N19/176 | ((H04N19/103))).CPC.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	60	OR	YES		08-05-2016
("20160127512" | "20160127513" | "5479638" | "5771354").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		08-05-2016
("20160162505" | "5524272" | "5860083" | "6121903" | "6185000" | "6374353" | "7096481").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	16	OR	YES		08-05-2016

((("20160127512" | "20160127513" | "5479638" | "5771354").PN.) or (("20160162505" | "5524272" | "5860083" | "6121903" | "6185000" | "6374353" | "7096481").PN.)) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		08-05-2016

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Data LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: 3403

Atty. Docket: 3421.005000C

Seventh Supplemental Information Disclosure Statement

Mail Stop RCE

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

/Tesfaldet Bocure/ 08/05/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Notice of Intent to Issue Inter Partes Reexamination Certificate mailed 7/15/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be

provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **NPL40-NPL44**.

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00373	7,378,992	Institution Decision mailed June 27, 2016
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00374	8,643,513	Institution Decision mailed June 27, 2016
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00375	7,415,530	Institution denied July 1, 2016
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00376	7,415,530	Institution denied July 1, 2016
Oracle America, Inc. v. Realtime Data LLC, IPR2016-00377	9,116,908	Institution denied July 1, 2016
SAP America Inc., et al. v. Realtime Data LLC d/b/a IXO, IPR2016-00783	6,597,812	Patent Owner Preliminary Response filed June 15, 2016
Dell Inc., et al. v. Realtime Data LLC, IPR2016-00878	7,415,530	Dismissed June 21, 2016
Dell Inc., et al. v. Realtime Data LLC, IPR2016-00972	7,415,530	Petition filed April 29, 2016
Riverbed Technology, Inc. et al. v. Realtime Data LLC, IPR2016-00978	8,643,513	Petition filed April 29, 2016
Riverbed Technology, Inc. et al. v. Realtime Data LLC, IPR2016-00980	7,378,992	Petition filed April 29, 2016
Dell Inc., et al. v. Realtime Data LLC IPR2016-01002	9,116,908	Petition filed May 5, 2016
Apple Inc. v. Realtime Data LLC, IPR2016-01365	7,181,608	Petition filed July 8, 2016
Apple Inc. v. Realtime Data LLC, IPR2016-01366	8,090,936	Petition filed July 8, 2016

/Tesfaldet Bocure/ 08/05/2016

Atty. Dkt. No. 3421.005000C

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **US2**, **US4-US5** and **NPL45-NPL61**.

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014

/Tesfaldet Bocure/ 08/05/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed May 1, 2015
12	*Realtime Data LLC d/b/a IXO v. Actian Corporation*, et al., No. 6:15-cv-00463 (E.D. Texas)	Order Granting Motion to Supplement Claim Construction Record issued July 22, 2016
13	*Realtime Data LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed February 22, 2016
14	*Realtime Data LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12
15	*Realtime Data LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12
16	*Realtime Data LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated October 5, 2015
17	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22

/Tesfaldet Bocure/ 08/05/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

18	*Realtime Data LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12; Joint Stipulation of Dismissal filed July 26, 2016
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 3:16-cv-01836 (N.D. Cal.) (formerly no. 6:15-cv-00470 (E.D. Texas))	Case dismissed May 18, 2016
20	*Realtime Data LLC d/b/a IXO v. Apple Inc.*, No. 3:16-cv-02595 (N.D. Cal.) (formerly Case No. 6:15-cv-00885 (E.D. Texas))	Transferred to the Northern District of California, May 11, 2016
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Answers to Defendants' Counterclaims filed June 23, 2016
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Plaintiff's Opening Claim Construction Brief filed July 25, 2016
23	*Realtime Data LLC d/b/a IXO v. Savvis Party Communications Corporation, et al.*, No. 6:16-cv-00087 (E.D. Texas)	Answer to Defendant's Counter-Claims filed July 8, 2016
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Answer to Amended Complaint filed June 23, 2016
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Amended Complaint filed May 17, 2016
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Complaint filed June 29, 2016
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Complaint filed July 21, 2016
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Complaint filed July 22, 2016

Court dockets for pending litigations are submitted herewith as documents **NPL62-NPL64**.

/Tesfaldet Bocure/ 08/05/2016

Atty. Dkt. No. 3421.005000C

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

Copies of documents **NPL1-NPL64** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copies of the U.S. patents and patent application publication cited as documents **US1-US7** on the attached IDS Forms are submitted.

/Tesfaldet Bocure/ 08/05/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Applicant submits herewith Office Actions from the following co-pending U.S. Patent Application Nos.:

Document **NPL38** is a copy of a Non-Final Office Action mailed May 17, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/844,973.

Document **NPL39** is a copy of a Non-Final Office Action mailed June 7, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/727,309.

The identification of these Office Actions is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

It is expected that the examiner will review the prosecution and cited art in the parent application nos. 14/733,565, filed June 8, 2015 (now pending); 14/577,286, filed December 19, 2014 (now abandoned); 14/134,933, filed December 19, 2013 (now U.S. Patent No. 8,929,442); 14/033,245, filed September 20, 2013 (now U.S. Patent No. 8,934,535); 13/154,239, filed June 6, 2011 (now U.S. Patent No. 8,553,759); 12/123,081, filed May 19, 2008 (now U.S. Patent No. 8,073,047); and 10/076,013, filed February 13, 2002 (now U.S. Patent No. 7,386,046), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

/Tesfaldet Bocure/ 08/05/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: July 27, 2016

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/Tesfaldet Bocure/ 08/05/2016

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Substitute for form 1449/PTO

SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	3403
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	5,524,272	06-04-1996	Podowski et al.	
	US2	5,860,083	01-12-1999	Sukegawa	
	US3	6,121,903	09-19-2000	Kalkstein	
	US4	6,158,000	12-05-2000	Collins	
	US5	6,374,353 B1	04-16-2002	Settsu et al.	
	US6	7,096,481 B1	08-22-2006	Forecast et al.	
	US7	2016/0162505 A1	06-09-2016	Fallon	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

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Examiner Signature	/Tesfaldet Bocure/	Date Considered	08/05/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Substitute for form 1449/PTO				Complete if Known	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
(Use as many sheets as necessary)				Examiner Name	3403
Sheet	1	of	7	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Amended Complaint for Patent Infringement Against Teradata Operations, Inc., filed in Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc., Case No. 2:16-cv-02743-AG-FFM (C.D. Cal.), filed May 17, 2016; 58 pages.	
	NPL2	Defendants Hewlett Packard Enterprise Co. and HP Enterprise Services, LLC's Answer to Plaintiff's Complaint for Patent Infringement and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al., Case No. 6:16-cv-00086-RWS-JDL (E.D. Tex.), filed May 20, 2016; 20 pages.	
	NPL3	Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-463-RWS-JDL (E.D. Texas), filed May 23, 2016; 37 pages.	
	NPL4	The Agreed and Disputed Constructions, as of May 23, 2016, Exhibit 12 to Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-463-RWS-JDL (E.D. Texas), filed May 23, 2016; 4 pages.	
	NPL5	Plaintiff Realtime Data LLC's Expert Declaration of Dr. Kenneth Zeger, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-463-RWS-JDL (E.D. Texas), filed May 23, 2016; 21 pages.	
	NPL6	Answer, Defenses, and Counterclaims to Plaintiff's Complaint for Patent Infringement, filed in Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al., Case No. 6:16-cv-00086 (E.D. Texas), filed June 3, 2016; 23 pages.	
	NPL7	Defendant Veritas Technologies LLC's Answer, Affirmative Defenses, and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Centurylink, Inc., et al., Case No. 6:16-cv-00087-RWS-JDL (E.D. Texas), filed June 6, 2016; 30 pages.	
	NPL8	Amended Complaint for Patent Infringement Against Dell Inc. and EMC Corporation, filed in Realtime Data LLC d/b/a IXO v. Dell Inc., et al., Case No. 6:16-cv-00089-RWS-JDL (E.D. Texas), filed June 9, 2016; 47 pages.	
	NPL9	Savvis Communications Corporations' Answer, Affirmative Defenses, and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Savvis Communications Corporation, et al., Case No. 6:16-cv-00087-RWS-JDL (E.D. Texas), filed June 13, 2016; 16 pages.	
	NPL10	Defendants' Responsive Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 39 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	08/05/2016

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO

SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 7

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	3403
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL11	Declaration of Dr. Charles D. Creusere in Support of Defendants' Motion for Partial Summary Judgment of Indefiniteness, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 10 pages.	
	NPL12	Excerpt from Modern Dictionary of Electronics, Seventh Edition, Boston: Newnes, 1999, Exhibit 1 to Defendants' Responsive Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 5 pages.	
	NPL13	Motion for Partial Summary Judgment of Indefiniteness By Defendants Dell Inc., Echostar Corporation, Hughes Network Systems LLC, Hewlett Packard Enterprise Co., HP Enterprise Services, LLC, Riverbed Technology, Inc., SAP America Inc., and Sybase, Inc., filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 15 pages.	
	NPL14	U.S. Provisional Patent Application No. 60/136,561, filed May 28, 1999, Exhibit C to Motion for Partial Summary Judgment of Indefiniteness By Defendants Dell Inc., Echostar Corporation, Hughes Network Systems LLC, Hewlett Packard Enterprise Co., HP Enterprise Services, LLC, Riverbed Technology, Inc., SAP America Inc., and Sybase, Inc., filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 24 pages.	
	NPL15	Declaration of James A. Storer, Ph.D., Exhibit 5 to Defendants' Responsive Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed June 13, 2016; 37 pages.	
	NPL16	Dell Inc.'s Answer, Defenses, and Counterclaims to Plaintiff's Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc., et al., Case No. 6:16-cv-00089-RWS-JDL (E.D. Texas), filed June 23, 2016; 17 pages.	
	NPL17	Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 12 pages.	
	NPL18	Invalidity Chart for U.S. Patent No. 7,415,530 based on U.S. Patent No. 5,247,646 ("Osterlund"), filed as Exhibit A to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 19 pages.	
	NPL19	Invalidity Chart for U.S. Patent No. 7,415,530 based on U.S. Patent No. 5,479,638 ("Assar"), filed as Exhibit B to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 5 pages.	
	NPL20	Invalidity Chart for U.S. Patent No. 7,415,530 based on U.S. Patent No. 5,771,354 ("Crawford"), filed as Exhibit C to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 20 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	08/05/2016

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO

SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3 of 7

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	3403
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL21	Invalidity Chart for U.S. Patent No. 7,415,530 based on U.S. Patent No. 5,319,682 ("Clark"), filed as Exhibit D to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 20 pages.	
	NPL22	513 v. PCT Publication No. WO 00/46688 to Wang et al., filed as Exhibit E to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 53 pages.	
	NPL23	Invalidity Chart for U.S. Patent No. 9,116,908 Based on U.S. Patent No. 5,247,646 ("Osterlund"), filed as Exhibit F to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 16 pages.	
	NPL24	Defendant Dell Inc.'s Preliminary Election of Prior Art, filed as Exhibit M to Defendants' Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 24, 2016; 20 pages.	
	NPL25	Plaintiff Realtime Data LLC's Reply Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 27, 2016; 15 pages.	
	NPL26	Plaintiff Realtime Data LLC's Response to Moving Defendants' Motion for Partial Summary Judgment of Indefiniteness, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 27, 2016; 20 pages.	
	NPL27	Moving Defendants' Reply Brief in Support of Their Motion for Partial Summary Judgment of Indefiniteness, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 30, 2016; 9 pages.	
	NPL28	Joint Claim Construction Chart - Exhibit A, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 30, 2016; 3 pages.	
	NPL29	Joint Claim Construction Chart - Exhibit B, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed June 30, 2016; 18 pages.	
	NPL30	Plaintiff's Notice of Supplemental Facts, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed July 5, 2016; 3 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	08/05/2016

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO				*Complete if Known*	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
				Examiner Name	3403
Sheet	4	of	7	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL31	Defendants' Motion to Supplement the Claim Construction Record, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), and Realtime Data LLC d/b/a IXO v. Oracle America Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 11, 2016; 10 pages.	
	NPL32	Joint Claim Construction and Prehearing Statement, filed in Realtime Data LLC d/b/a IXO v. Oracle America Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 13, 2016; 5 pages.	
	NPL33	Exhibit A to Joint Claim Construction and Prehearing Statement, filed in Realtime Data LLC d/b/a IXO v. Oracle America Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 11, 2016; 5 pages.	
	NPL34	Plaintiff Realtime Data LLC's Response to Defendants' Motion to Supplement the Claim Construction Record, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), and Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:15-cv-00088-RWS-JDL (E.D. Texas), filed July 14, 2016; 14 pages.	
	NPL35	Complaint for Patent Infringement Against Rackspace US, Inc., Netapp, Inc., and Solidfire, Inc., filed in Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al., Case No. 6:16-cv-00961 (E.D. Texas), filed June 29, 2016; 216 pages.	
	NPL36	Complaint for Patent Infringement Against Fujitsu America, Inc. and Quantum Corporation, filed in Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al., No. 6:16-cv-01035 (E.D. Texas), filed July 21, 2016; 137 pages.	
	NPL37	Complaint for Patent Infringement Against Vembu Technologies, Inc., filed in Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc., No. 6:16-cv-01037 (E.D. Texas), filed July 22, 2016; 86 pages.	
	NPL38	Copy of Non-Final Office Action for U.S. Patent Appl. No. 14/844,973, mailed May 17, 2016; 18 pages.	
	NPL39	Copy of Non-Final Office Action for U.S. Patent Appl. No. 14/727,309, mailed June 7, 2016; 15 pages.	
	NPL40	Notice of Intent to Issue Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,777,651, Control No. 95/001,581, mailed June 2, 2016; 5 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	08/05/2016

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SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
				Examiner Name	3403
Sheet	5	of	7	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL41	Notice of Intent to Issue Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,417,568, Control No. 95/001,533, mailed June 14, 2016; 6 pages.	
	NPL42	Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,777,651, Control No. 95/001,581, issued July 7, 2016; 2 pages.	
	NPL43	Notice of Intent to Issue Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,400,274, Control No. 95/001,544, mailed July 15, 2016; 5 pages.	
	NPL44	Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,417,568, Control No. 95/001,533, issued July 22, 2016; 2 pages.	
	NPL45	Institution Decision, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00373 (P.T.A.B.), mailed June 27, 2016; 32 pages.	
	NPL46	Institution Decision, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00374 (P.T.A.B.), mailed June 27, 2016; 28 pages.	
	NPL47	Decision Denying Institution, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00375 (P.T.A.B.), mailed July 1, 2016; 13 pages.	
	NPL48	Decision Denying Institution, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00376 (P.T.A.B.), mailed July 1, 2016; 18 pages.	
	NPL49	Decision Denying Institution, mailed in Oracle America, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-00377 (P.T.A.B.), mailed July 1, 2016; 16 pages.	
	NPL50	Petition for Inter Partes Review of United States Patent No. 7,181,608 Pursuant to 35 U.S.C. 311-319, 37 C.F.R. 42, filed in Apple Inc. v. Realtime Data LLC, Case No. IPR2016-01365 (P.T.A.B.), filed July 8, 2016; 77 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	08/05/2016

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				Filing Date	October 6, 2015
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(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	3403
Sheet	6	of	7	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
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	NPL51	File History of U.S. Patent No. 7,181,608, U.S. Patent Application No. 09/776,267, filed February 2, 2001; 507 pages.	
	NPL52	Declaration of Dr. Charles J. Neuhauser, filed in Apple Inc. v. Realtime Data LLC, Case No. IPR2016-01365 (P.T.A.B.), filed July 8, 2016; 174 pages.	
	NPL53	BURROWS, ET AL., "On-Line Data Compression in a Log-structured File System," Fifth International Conference on Architectural Support for Programming Languages and Operating Systems, October 12-15, 1992; 27 pages.	
	NPL54	Excerpts from HENNESSY, ET AL., Computer Architecture - A Quantitative Approach, San Mateo, CA: Morgan Kaufmann Publishers, 1990; p. 403-425, 535-538.	
	NPL55	PROSISE, J., "DOS 6: The Ultimate Software Bundle?", PC Magazine, Vol. 12, No. 7, April 13, 1993; 29 pages. (Submitted in 2 parts.)	
	NPL56	Excerpts from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; pp. 194-196.	
	NPL57	Exceprts from SHANLEY, ET AL., PCI System Architecture, Fourth Edition, New York: Addison Wesley, 1999; pp. 7-13.	
	NPL58	STORER, ET AL., "Data Compression via Textual Substitution," Journal of the Association for Computing Machinery, Vol. 29, No. 4, October 1982; 24 pages.	
	NPL59	Petition for Inter Partes Review of United States Patent No. 8,090,936 Pursuant to 35 U.S.C. 311-319, 37 C.F.R. 42, filed in Apple Inc. v. Realtime Data LLC, Case No. IPR2016-01366 (P.T.A.B.), filed July 8, 2016; 77 pages.	
	NPL60	File History of U.S. Patent No. 8,090,936, U.S. Patent Application No. 11/551,204, filed October 19, 2006; 970 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	08/05/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Substitute for form 1449/PTO

SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 7 of 7

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	3403
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL61	Declaration of Dr. Charles J. Neuhauser, filed in Apple Inc. v. Realtime Data LLC, Case No. IPR2016-01366 (P.T.A.B.), filed July 8, 2016; 157 pages.	
	NPL62	Court Docket History for Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al., No. 6:16-cv-00961 (E.D. Texas), downloaded June 30, 2016; 2 pages.	
	NPL63	Court Docket History for Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc., et al., No. 6:16-cv-01035 (E.D. Texas), downloaded July 27, 2016; 2 pages.	
	NPL64	Court Docket History for Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc., No. 6:16-cv-01037 (E.D. Texas), downloaded July 27, 2016; 2 pages.	

2842682_1.DOCX

Examiner Signature	/Tesfaldet Bocure/	Date Considered	08/05/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

CPC							
Symbol						**Type**	**Version**
H04N		19	/	103		F	2014-11-01
H04N		19	/	164		I	2014-11-01
H04N		19	/	176		I	2014-11-01
H03M		7	/	30		I	2013-01-01
H03M		7	/	3084		I	2013-01-01
H03M		7	/	6094		I	2013-01-01
			/				
			/				
			/				
			/				
			/				
			/				
			/				
			/				
			/				

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	08/05/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No. 20160805

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
375	240.1	H	0	4	N	7 / 12 (2006.01.01)						

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	08/05/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

☒ **Claims renumbered in the same order as presented by applicant** ☐ **CPA** ☐ **T.D.** ☐ **R.1.47**

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	17												
2	2	18	18												
3	3	19	19												
4	4	20	20												
5	5	21	21												
6	6	22	22												
7	7	23	23												
8	8	24	24												
9	9	25	25												
10	10	26	26												
11	11	27	27												
12	12	28	28												
13	13	29	29												
14	14	30	30												
15	15														
16	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634 (Primary Examiner)	08/05/2016 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	01/23/2016	04/18/2016	05/29/2016	08/05/2016					
1	1	✓	=	=	=					
2	2	✓	=	=	=					
3	3	✓	=	=	=					
4	4	✓	=	=	=					
5	5	✓	=	=	=					
6	6	✓	=	=	=					
7	7	✓	=	=	=					
8	8	✓	=	=	=					
9	9	✓	=	=	=					
10	10	✓	=	=	=					
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26	26	✓	=	=	=					
27	27	✓	=	=	=					
28	28	✓	=	=	=					
29	29	✓	=	=	=					
30	30	✓	=	=	=					

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

CPC- SEARCHED		
Symbol	Date	Examiner
((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((G06F15/7867)) | ((G06T1/60)) | ((H04N19/136).CPC.)	01/22/2016	TB
((H03M7/30)) | ((H03M7/3059)) | ((H03M7/3093)) | ((H04L69/04)) | ((H04N19/152)) | ((H04N9/8042).CPC.)	01/22/2016	TB
((H03M7/30 | H03M7/3059 | H03M7/3084 | H03M7/6094 | H03M7/3088 | H03M7/6023 | H03M7/6064 | H04N19/152 | G11B20/00007).CPC.)	01/23/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC.	04/17/2016	TB
CPC Updated	04/18/2016	TB
CPC Updated	05/29/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC. Updated	08/05/2016	TB

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
375	240, 240.01, 240.02	01/22/2016	TB
341	50, 51, 126	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search ALL ($8.ccls.), See WEST Search for terms used with the clases	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	01/23/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	04/17/2016 & 04/18/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

US CLASSIFICATION SEARCHED			
Class	**Subclass**	**Date**	**Examiner**
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	05/29/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated, See WEST Search	08/05/2016	TB

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
WEST and Inventor's Name Searched	01/22/2016	TB
See Realted parent application 14/733,565 for further presecution History	01/22/2016	TB
WEST Search Updated	01/23/2016	TB
WEST Search Updated	04/17/2016	TB
WEST Search Updated	04/18/2016	TB
WEST Search Updated	05/29/2016	TB
WEST Search Updated	08/05/2016	TB

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
375	240, 240.1	04/18/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	04/18/2016	TB
375	240, 240.1	05/29/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	05/29/2016	TB
375	240, 240.1	08/05/2016	TB
	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	08/05/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

PTO/SB/30 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

   a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

      i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

      ii. ☐ Other _____

   b. ☒ Enclosed

      i. ☐ Amendment/Reply

      ii. ☐ Affidavit(s)/ Declaration(s)

      iii. ☒ Information Disclosure Statement (IDS)

      iv. ☐ Other _____

2. Miscellaneous

   a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

   b. ☐ Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

   a. ☒ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 19-0036 .

      i. ☐ RCE fee required under 37 CFR 1.17(e)

      ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)

      iii. ☐ Other _____

   b. ☐ Check in the amount of $ _____ enclosed

   c. ☒ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature		Date	12/6/16
Name (Print/Type)	Michael V. Messinger	Registration No.	37,575

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature			
Name (Print/Type)		Date	

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Data LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Eighth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Inter Partes Reexamination Certificate issued 08/01/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not

already of record in this patent application are listed on the accompanying Form PTO/SB/08 as **NPL28.**

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00373	7,378,992	Patent Owner Response filed 9/15/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00374	8,643,513	Patent Owner Response filed 9/15/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00375	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00376	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00377	9,116,908	Institution Denied 7/1/2016
SAP America Inc., et al. v. Realtime Data, LLC d/b/a IXO, IPR2016-00783	6,597,812	Patent Owner Preliminary Response filed 7/1/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00878	7,415,530	Dismissed 6/21/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00972	7,415,530	Patent Owner Preliminary Response filed 8/3/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00978	8,643,513	Patent Owner Preliminary Response filed 8/3/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00980	7,378,992	Patent Owner Preliminary Response filed 8/3/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-01002	9,116,908	Patent Owner Preliminary Response filed 8/16/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01365	7,181,608	Filed 7/8/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01366	8,090,936	Filed 7/8/2016
Oracle America Inc. v. Realtime Data LLC, IPR2016-01671	7,415,530	Filed 9/6/2016
Oracle America Inc. v. Realtime Data LLC, IPR2016-01672	9,116,908	Filed 9/6/2016

Proceeding	Patent	Status
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01737	8,880,862	Filed 9/9/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01738	8,880,862	Filed 9/9/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01739	8,880,862	Filed 9/9/2016

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **NPL30-NPL64.**

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014

No.	Case	Status
3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed 5/1/2015
12	*Realtime Data, LLC d/b/a IXO v. Actian Corporation, et al.*, No. 6:15-cv-00463 (E.D. Texas)	Motion to Amend/Correct granted 8/12/2016
13	*Realtime Data, LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed 2/22/2016
14	*Realtime Data, LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12; Motion to Amend/Correct granted 8/12/2016
15	*Realtime Data, LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12; Motion to Amend/Correct granted 8/12/2016
16	*Realtime Data, LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated 10/5/ 2015
17	*Realtime Data, LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22
18	*Realtime Data, LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12; Motion to Amend/Correct granted 8/12/2016

No.	Case	Status
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 5:16-cv-01836 (N.D. Cal.) (formerly no. 6:15-cv-00470 (E.D. Texas))	Case dismissed 5/18/2016
20	*Realtime Data, LLC d/b/a IXO v. Apple Inc.*, No. 6:15-cv-00885 (E.D. Texas)	Transferred to the Northern District of California, 5/11/2016
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Answer to Amended Complaint filed 9/1/2016
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Claim Construction Order issued 7/28/2016
23	*Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al.*, No. 6:16-cv-00087 (E.D. Texas)	Answer to Amended Complaint filed 9/2/2016
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Answer to Amended Complaint filed 8/30/2016
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Answer to Amended Complaint filed 8/3/2016
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Answer to Amended Complaint filed 9/6/2016
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Complaint filed 7/21/2016
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Complaint filed 7/22/2016

Updated court dockets for pending litigation are submitted herewith as documents **NPL76-NPL85.**

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copy of U.S. patent application publication cited as document **US1** on the attached IDS Form is submitted.

Copies of the **NPL1-NPL85** documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 14/733,565, filed June 8, 2015 (now pending) which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is expected that the examiner will review the prosecution and cited art in the parent application nos. 14/733,565, filed June 8, 2015 (now pending); 14/577,286, filed December 19, 2014 (now abandoned); 14/134,933, filed December 19, 2013 (now U.S. Patent No. 8,929,442); 14/033,245, filed September 20, 2013 (now U.S. Patent No. 8,934,535); 13/154,239, filed June 6, 2011 (now U.S. Patent No. 8,553,759); 12/123,081, filed May 19, 2008 (now U.S. Patent No. 8,073,047); and 10/076,013, filed February 13, 2002 (now U.S. Patent No. 7,386,046), in

accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

In accordance with the Federal Circuit decision in Dayco Prods., Inc. v. Total Containment, Inc. 329 F.3d 1358 (Fed. Cir. 2003), Applicants submit herewith Office Actions from the following co-pending U.S. Patent Application Nos.:

Document **NPL25** is a copy of a Non-Final Office Action mailed August 10, 2016 in the prosecution of a co-pending, commonly-assigned U.S. Patent Application No. 14/794,201.

Document **NPL26** is a copy of a Non-Final Office Action mailed June 3, 2015 in the prosecution of a co-pending, commonly-assigned U.S. Patent Application No. 13/875,884.

Document **NPL27** is a copy of a Final Office Action mailed March 9, 2016 in the prosecution of a co-pending, commonly-assigned U.S. Patent Application No. 13/875,884.

The identification of these Office Actions is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
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Date: 9/26/16

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Substitute for form 1449/PTO

EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	2013/0297575 A1	11-07-2013	Fallon et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6

4791357v1

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				Complete if Known	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	1	of	9	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Memorandum Opinion and Order, issued in Realtime Data LLC v. Actian Corporation, et al., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), issued July 28, 2016; 40 pages.	
	NPL2	Defendants' Reply on Their Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed July 25, 2016; 9 pages.	
	NPL3	Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in Realtime Data d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 25, 2016; 12 pages.	
	NPL4	Expert Declaration of Dr. Kenneth Zeger, filed as Exhibit 1 to Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in Realtime Data d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 25, 2016; 30 pages.	
	NPL5	Report and Recommendation of United States Magistrate Judge, issued in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), issued July 28, 2016; 12 pages.	
	NPL6	Defendant Teradata Operations, Inc.'s Answer to Amended Complaint and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc., Case No. 2:16-cv-02743-AG-FFM (C.D. Cal.), filed August 3, 2016; 34 pages.	
	NPL7	Defendants Hewlett Packard Enterprise Co. and HP Enterprise Services, LLC's Objections to Report and Recommendation of Magistrate Judge, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 11, 2016; 6 pages.	
	NPL8	Defendants' Objections to Memorandum Opinion and Order on Claim Constructions and Motion to Reconsider, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed August 12, 2016; 10 pages.	
	NPL9	Defendants' Responsive Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc, Case No. 6:16-cv-088-RWS-JDL (E.D. Texas), filed August 12, 2016; 8 pages.	
	NPL10	Declaration of James A. Storer, Ph.D, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc, Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 12, 2016; 11 pages.	

Examiner Signature		Date Considered	

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EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL11	Plaintiff Realtime Data LLC's Reply Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Oracle America, et al., Case No. 6:16-cv-00088-RWs-JDL (E.D. Texas), filed August 19, 2016; 6 pages.	
	NPL12	Plantiff Realtime Data LLC's Joint Claim Construction Chart, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 26, 2016; 4 pages.	
	NPL13	Plantiff Realtime Data LLC's Exhibit A, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 26, 2016; 1 page.	
	NPL14	Plantiff Realtime Data LLC's Exhibit B, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 26, 2016; 4 pages.	
	NPL15	Defendant Dell, Inc.'s Answer and Defenses to Plaintiff's Second Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc., Case No. 6:16-cv-89 (E.D. Texas), filed August 30, 2016; 21 pages.	
	NPL16	Defendant EMC Corporation's Answer and Defenses to Plaintiff's Second Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc., Case No. 6:16-cv-89-RWS-JDL (E.D. Texas), filed August 30, 2016; 23 pages.	
	NPL17	Plaintiff Realtime Data LLC's Response in Opposition To Defendants' Objections to Memorandum Opinion and Order on Claim Construction and Motion to Reconsider, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-463-RWS-JDL (E.D. Texas), filed August 29, 2016; 8 pages.	
	NPL18	Dell Inc.'s Answer and Defenses to Plaintiff's Second Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc. and EMC Corporation, Case No. 6:16-cv-89-RWS-JDL (E.D. Texas), filed August 30, 2016; 21 pages.	
	NPL19	EMC Corporation's Answer and Defenses to Plaintiff's Second Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc. and EMC Corporation, Case No. 6:16-cv-89-RWS-JDL (E.D. Texas), filed August 30, 2016; 23 pages.	
	NPL20	Defendants Hewlett Packard Enterprise Co. and HP Enterprise Services, LLC's Answer to Plaintiff's Amended Complaint for Patent Infringement and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co. et al., Case No. 6:16-cv-00086-RWS-JDL (E.D. Texas), filed September 1, 2016; 26 pages.	

Examiner Signature		Date Considered	

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[1] Applicant's unique citation designation number (optional), [2] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				Complete if Known	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	3	of	9		3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL21	Answer, Defenses, and Counterclaims to Plaintiff's Amended Complaint for Patent Infringement, filed in Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co. et al., Case No. 6:16-cv-00086-RWS-JDL (E.D. Texas), filed September 1, 2016; 29 pages.	
	NPL22	Savvis Communications Corporation's Answer, Defenses, and Counterclaims to Realtime's Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Savvis Communications Corporation, and Veritas Technologies LLC, Case No. 6:16-cv-00087-RWS-JDL (E.D. Texas), filed September 2, 2016; 18 pages.	
	NPL23	Defendant Veritas Technologies LLC's Answer, Affirmative Defenses, and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Centurylink, Inc. and Veritas Technologies, Case No. 6:16-00087-RWS-JDL, filed September 2, 2016; 35 pages.	
	NPL24	NetApp, Inc.'s and Solidfire, LLC's Answer to Amended Complaint, filed in *Realtime Data d/b/a IXO v. Rackspace US, Inc. et al.*, Case No. 6:16-cv-961 (E.D. Texas), filed September 6, 2016; 61 pages.	
	NPL25	Copy of Non-Final Office Action for U.S. Patent Appl. No. 14/794,201, mailed August 10, 2016; 4 pages.	
	NPL26	Copy of Non-Final Office Action for U.S. Patent Application No. 13/875,884, mailed June 3, 2015; 10 pages.	
	NPL27	Copy of Final Office Action for U.S. Patent Application No. 13/875,884, mailed March 9, 2016; 8 pages.	
	NPL28	Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,400,274, Control No. 95/001,544, issued August 1, 2016; 2 pages.	
	NPL29	Defendant Oracle America's Exchange of Preliminary Claim Constructions and Extrinsic Evidence, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed March 21, 2016; 8 pages.	
	NPL30	ROSHAL, E., "User's Manual, RAR 2.50 32-bit Consol version (Unix and Windows)," 1999; 15 pages.	

Examiner Signature		Date Considered	

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EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL31	ARAMVITH, et al., "MPEG-1 and MPEG-2 Video Standards," Academic Press, 1999; 25 pages.	
	NPL32	Vrc 5074 System Controller Data Sheet, Revision 1.0, NEC, June 1998; 3 pages.	
	NPL33	NEC VRC5074 System Controller Data Sheet, Revision 1.0, June 1998; 3 pages.	
	NPL34	Petition for Inter Partes Review of U.S. Patent No. 7,415,530, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2016-01671 (P.T.A.B.), filed September 6, 2016; 67 pages.	
	NPL35	Petition for Inter Partes Review of U.S. Patent No. 9,116,908, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2016-01672 (P.T.A.B.), filed September 6, 2016; 69 pages.	
	NPL36	Petition for *Inter Partes* Review of U.S. Patent No. 8,880,862, filed in *Apple, Inc. v. Realtime Data LLC*, Case No. IPR2016-01737 (P.T.A.B.), filed September 9, 2016; 83 pages.	
	NPL37	Declaration of Dr. Charles J. Neuhauser, filed in *Apple Inc. v. Realtime Data LLC,* Case No. IPR2016-01737 (P.T.A.B.), filed September 9, 2016; 347 pages.	
	NPL38	Excerpt from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 384.	
	NPL39	Excerpt from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 148.	
	NPL40	Excerpt from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 395.	

Examiner Signature		Date Considered	

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EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 5 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL41	Excerpt from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 137.	
	NPL42	Excerpts from LOUDON, K., Mastering Algorithms with C, Sebastopol, CA: O'Reilley Media, Inc., 1999; pp. 365-421.	
	NPL43	Excerpts from BARR, M., Programming Embedded Systems in C and C++, Sebastol, CA: O'Reilley & Associates, Inc., 1999; pp. 57-83.	
	NPL44	Excerpts from PEARCE, E., Windows NT in a Nutshell, Sebastol, CA: O'Reilley & Associates, Inc., 1997; pp. 8-9, 52-55, 317-327.	
	NPL45	Excerpts from O'REILLEY, et al., Windows 98 in a Nutshell, Sebastol, CA: O'Reilley & Associates, Inc., 1999; pp. 109-112.	
	NPL46	Excerpts from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 72, 27-28, 341, 384-386.	
	NPL47	Petition for *Inter Partes* Review of U.S. Patent No. 8,880,862, filed in *Apple, Inc. v. Realtime Data LLC*, Case No. IPR2016-01738 (P.T.A.B.), filed September 9, 2016; 82 pages.	
	NPL48	Declaration of Dr. Charles J. Neuhauser, filed in *Apple Inc. v. Realtime Data LLC*, Case No. IPR2016-01738 (P.T.A.B.), filed September 9, 2016; 347 pages.	
	NPL49	Petition for Inter Partes Review of U.S. Patent No. 8,880,862, filed in Apple, Inc. v. Realtime Data LLC, Case No. IPR2016-01739 (P.T.A.B.), filed September 9, 2016; 77 pages.	
	NPL50	Patent Owner Response, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2016-00374 (P.T.A.B.), filed September 15, 2016; 71 pages.	

Examiner Signature		Date Considered	

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EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 6 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

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Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL51	Declaration of Kenneth A. Zeger, Ph.D., filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2016-00374 (P.T.A.B.), filed September 15, 2016; 115 pages.	
	NPL52	Excerpt from IBM Dictionary of Computing, International Business Machines Corporation, 1994; p. 27.	
	NPL53	STORER, A., "An Introduction to Data Structures and Algorithms," Waltham, MA: Springer Science & Business Media, LLC, 2012; pp. 1-27, 76-80, 91, 164.	
	NPL54	FREEDMAN, A., "The Computer Glossary: The Complete Illustrated Dictionary, Ninth Edition," New York, NY: AMACOM, 2001; pp. 140, 147.	
	NPL55	IEEE 100: The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition, New York, NY: Institute of Electrical and Electronics Engineers, Inc., 2000; pp. 455, 860, 861.	
	NPL56	Excerpts from Microsoft Computer Dictionary, Fifth Edition, Redmond, WA, Microsoft Corporation: 2002; pp. 30, 417.	
	NPL57	Deposition of James A. Storer, Ph.D., filed in *Oracle America, Inc. v. Realtime Data LLC,* Case Nos. IPR2016-00373 and IPR2016-00374 (P.T.A.B.), filed September 15, 2016; 63 pages.	
	NPL58	Excerpts from PFAFFENBERGER, B., "Webster's New World Dictionary of Computer Terms, Sixth Edition," New York, NY: Simon & Schuster, Inc., 1997; pp. 29, 186, 195, 411.	
	NPL59	Internet Archive version of the web page www.nist.gov/dads/HTML/prefix.html, dated June 20, 2001, available at https://web.archive.org/web/20090130084909/http://nist.gov/dads/HTML/prefix.html; 1 page.	
	NPL60	Internet Archive version of the web page www.nist.gov/dads/, dated February 3, 2009, available at https://web.archive.org/web/20090130084909/http://nist.gov/dads/; 26 pages.	

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EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 7 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL61	Excerpt from Webster's New World College Dictionary, Fourth Edition, Foster City, CA: IDG Books Worldwide, Inc., 2001; p. 1133.	
	NPL62	Excerpt from Webster's II New College Dictionary, Boston, MA: Houghton Mifflin Company, 1995; p. 871.	
	NPL63	Patent Owner Response, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2016-00373 (P.T.A.B.), filed September 15, 2016; 69 pages.	
	NPL64	Declaration of Kenneth A. Zeger, Ph.D., filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2016-00373 (P.T.A.B.), filed September 15, 2016; 99 pages.	
	NPL65	Absolute Astronomy, "Hard Disk," Absoluteastronomy.com, accessed at http://www.absoluteastronomy.com/topics/Hard_disk on May 23, 2013; 13 pages.	
	NPL66	Fitchard, Kevin, "The Future of Mobile Networks: Beyond 4G," Businessweek.com, accessed at http://www.businessweek.com/articles/2012-12-19/the-future-of-mobile-networks-beyond-4g on May 23, 2013; 6 pages.	
	NPL67	Quick Turn Flash, "USB Flash Drive Facts," Quickturnflash.com, accessed at http://quickturnflash.com/Flash-Drive-Resources/usb-flash-drive-facts.html on May 23, 2013; 4 pages.	
	NPL68	Wikibooks, "Communication Networks/History of Networking," Wikibooks.org, accessed at http://en.wikibooks.org/wiki/Communication-Networks/History_of_Networking on May 23, 2013; 2 pages.	
	NPL69	Wikipedia, "4G," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/4G on May 23, 2013; 17 pages.	
	NPL70	Wikipedia, "Central Processing Unit," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Central_processing_unit on May 23, 2013; 14 pages.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO

EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 8 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL71	Wikipedia, "Computer Data Storage," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Computer_data_storage on May 23, 2013; 14 pages.	
	NPL72	Wikipedia, "Database," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Database_System on May 23, 2013; 19 pages.	
	NPL73	Wikipedia, "Orthogonal Frequency-Division Multiplexing," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Orthogonal_frequency-dividsion_multiplexing on May 23, 2013; 13 pages.	
	NPL74	Wikipedia, "Removable Media," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Removable_media on May 23, 2013; 2 pages.	
	NPL75	Wikipedia, "USB Flash Drive," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/USB_flash_drive on May 23, 2013; 17 pages.	
	NPL76	Update Court Docket History for Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463 (E.D. Texas), downloaded September 22, 2016, 41 pages.	
	NPL77	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Apple, Inc., Case No. 6:15-cv-00885 (E.D. Texas), downloaded September 22, 2016, 4 pages.	
	NPL78	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al., No. 6:16-cv-00086 (E.D. Texas), downloaded September 22, 2016, 7 pages.	
	NPL79	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Oracle America, Inc., No. 6:16-cv-00088 (E.D. Texas), downloaded September 22, 2016; 7 pages.	
	NPL80	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al., No. 6:16-cv-00087 (E.D. Texas), downloaded September 22, 2016; 8 pages.	

Examiner Signature		Date Considered	

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO

EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 9 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL81	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Dell, Inc., et al., No. 6:16-cv-00089 (E.D. Texas), downloaded September 22, 2016; 9 pages.	
	NPL82	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc., Case No. 2:16-cv-02743 (C.D. Cal), downloaded September 22, 2016; 5 pages.	
	NPL83	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al., No. 6:16-cv-00961 (E.D. Texas), downloaded September 22, 2016; 4 pages.	
	NPL84	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc., et al., No. 6:16-cv-01035 (E.D. Texas), downloaded September 22, 2016; 3 pages.	
	NPL85	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc., No. 6:16-cv-01037 (E.D. Texas), downloaded September 22, 2016; 2 pages.	

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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Electronic Patent Application Fee Transmittal

Application Number:	14876276
Filing Date:	06-Oct-2015
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Filer:	Michael V. Messinger/Casey Berger
Attorney Docket Number:	3421.005000C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1700	1700
		Total in USD ($)		**1700**

Electronic Acknowledgement Receipt

EFS ID:	27035750
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger/Casey Berger
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	3421.005000C
Receipt Date:	26-SEP-2016
Filing Date:	06-OCT-2015
Time Stamp:	17:27:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1700
RAM confirmation Number	092716INTEFSW17281101
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		3421005000c.pdf	2951516 4af96eb27670e5d32fc22984a5f2b48165d16216	yes	21

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Miscellaneous Incoming Letter	1	1
Request for Continued Examination (RCE)	2	2
Transmittal Letter	3	11
Information Disclosure Statement (IDS) Form (SB08)	12	21

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30224 4ef2257412da4c9e68485417c79ea1af58a1701c	no	2

Warnings:

Information:

Total Files Size (in bytes):	2981740

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

MICHAEL V. MESSINGER
DIRECTOR
(202) 772-8667
MIKEM@SKGF.COM

Sterne Kessler Goldstein Fox
ATTORNEYS AT LAW

September 26, 2016

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Confirmation No. 3403
Art Unit 2634
Attn: Mail Stop Amendment

Re: U.S. Utility Patent Application
Application No. 14/876,276; Filing Date: October 6, 2015
For: **Video Data Compression Systems**
Inventors: FALLON *et al.*
Our Ref: 3421.005000C

Commissioner:

Transmitted herewith for appropriate action are the following documents:

1. Online Credit Card Payment Authorization in the amount of **$1,700.00** in payment of the RCE fee required by 37 C.F.R. 1.103(c);
2. Request for Continued Examination Form PTO/SB/30;
3. Eighth Supplemental Information Disclosure Statement;
4. Form PTO/SB/08a (1 sheet) listing 1 documents (**US1**); and
5. Form PTO/SB/08b (9 sheets) listing 85 documents (**NPL1-NPL85**).

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Fee payment is provided through online credit card payment. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

MVM/MRM/cmb
Enclosures

4791374v1

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

26111 7590 10/20/2016

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER
BOCURE, TESFALDET

ART UNIT	PAPER NUMBER
2634	

DATE MAILED: 10/20/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: Video Data Compression Systems

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	01/20/2017

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

26111 7590 10/20/2016
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: Video Data Compression Systems

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	01/20/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
BOCURE, TESFALDET	2634	375-240100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 (Part B) (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

26111 7590 10/20/2016

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER	
BOCURE, TESFALDET	

ART UNIT	PAPER NUMBER
2634	

DATE MAILED: 10/20/2016

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/876,276	Applicant(s) FALLON ET AL.	
	Examiner TESFALDET BOCURE	Art Unit 2634	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *RCE and IDS filed on 09/26/2016*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-30*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/26/2016
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.

2. This office action (Notice of Allowance) is in response to the IDS and RCE filed on 09/26/2016. The pending claims 1-30 are now allowed.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 09/26/2016 has been entered.

Information Disclosure Statement

4. The information disclosure statements (IDS) submitted on 09/26/2016 (two IDSs filed on the same date are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. Attached with this correspondence are the initialed copies of the IDSs.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TESFALDET BOCURE whose telephone number is (571)272-3015. The examiner can normally be reached on 8:30am-to-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel C. Washburn can be reached on 571-272-5551. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

/T. B./
Primary Examiner, Art Unit 2634

Substitute for form 1449/PTO

EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	2013/0297575 A1	11-07-2013	Fallon et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

4791357v1

Examiner Signature	/Tesfaldet Bocure/	Date Considered	10/15/2016

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Substitute for form 1449/PTO				Complete if Known	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/876,276
				Filing Date	October 6, 2015
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				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	1	of	9	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Memorandum Opinion and Order, issued in Realtime Data LLC v. Actian Corporation, et al., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), issued July 28, 2016; 40 pages.	
	NPL2	Defendants' Reply on Their Motion for Leave to Supplement Their Invalidity Contentions, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed July 25, 2016; 9 pages.	
	NPL3	Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in Realtime Data d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 25, 2016; 12 pages.	
	NPL4	Expert Declaration of Dr. Kenneth Zeger, filed as Exhibit 1 to Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in Realtime Data d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed July 25, 2016; 30 pages.	
	NPL5	Report and Recommendation of United States Magistrate Judge, issued in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), issued July 28, 2016; 12 pages.	
	NPL6	Defendant Teradata Operations, Inc.'s Answer to Amended Complaint and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc., Case No. 2:16-cv-02743-AG-FFM (C.D. Cal.), filed August 3, 2016; 34 pages.	
	NPL7	Defendants Hewlett Packard Enterprise Co. and HP Enterprise Services, LLC's Objections to Report and Recommendation of Magistrate Judge, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 11, 2016; 6 pages.	
	NPL8	Defendants' Objections to Memorandum Opinion and Order on Claim Constructions and Motion to Reconsider, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed August 12, 2016; 10 pages.	
	NPL9	Defendants' Responsive Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc, Case No. 6:16-cv-088-RWS-JDL (E.D. Texas), filed August 12, 2016; 8 pages.	
	NPL10	Declaration of James A. Storer, Ph.D, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc, Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 12, 2016; 11 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	10/15/2016

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EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 9

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NON PATENT LITERATURE DOCUMENTS

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	NPL11	Plaintiff Realtime Data LLC's Reply Claim Construction Brief, filed in Realtime Data LLC d/b/a IXO v. Oracle America, et al., Case No. 6:16-cv-00088-RWs-JDL (E.D. Texas), filed August 19, 2016; 6 pages.	
	NPL12	Plantiff Realtime Data LLC's Joint Claim Construction Chart, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 26, 2016; 4 pages.	
	NPL13	Plantiff Realtime Data LLC's Exhibit A, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 26, 2016; 1 page.	
	NPL14	Plantiff Realtime Data LLC's Exhibit B, filed in Realtime Data LLC d/b/a IXO v. Oracle America, Inc., Case No. 6:16-cv-00088-RWS-JDL (E.D. Texas), filed August 26, 2016; 4 pages.	
	NPL15	Defendant Dell, Inc.'s Answer and Defenses to Plaintiff's Second Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc., Case No. 6:16-cv-89 (E.D. Texas), filed August 30, 2016; 21 pages.	
	NPL16	Defendant EMC Corporation's Answer and Defenses to Plaintiff's Second Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc., Case No. 6:16-cv-89-RWS-JDL (E.D. Texas), filed August 30, 2016; 23 pages.	
	NPL17	Plaintiff Realtime Data LLC's Response in Opposition To Defendants' Objections to Memorandum Opinion and Order on Claim Construction and Motion to Reconsider, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-463-RWS-JDL (E.D. Texas), filed August 29, 2016; 8 pages.	
	NPL18	Dell Inc.'s Answer and Defenses to Plaintiff's Second Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc. and EMC Corporation, Case No. 6:16-cv-89-RWS-JDL (E.D. Texas), filed August 30, 2016; 21 pages.	
	NPL19	EMC Corporation's Answer and Defenses to Plaintiff's Second Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Dell Inc. and EMC Corporation, Case No. 6:16-cv-89-RWS-JDL (E.D. Texas), filed August 30, 2016; 23 pages.	
	NPL20	Defendants Hewlett Packard Enterprise Co. and HP Enterprise Services, LLC's Answer to Plaintiff's Amended Complaint for Patent Infringement and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co. et al., Case No. 6:16-cv-00086-RWS-JDL (E.D. Texas), filed September 1, 2016; 26 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	10/15/2016

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EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 9

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Application Number	14/876,276
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First Named Inventor	James J. FALLON
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Examiner Name	BOCURE, Tesfaldet
	3421.005000C

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	NPL21	Answer, Defenses, and Counterclaims to Plaintiff's Amended Complaint for Patent Infringement, filed in Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co. et al., Case No. 6:16-cv-00086-RWS-JDL (E.D. Texas), filed September 1, 2016; 29 pages.	
	NPL22	Savvis Communications Corporation's Answer, Defenses, and Counterclaims to Realtime's Amended Complaint, filed in Realtime Data LLC d/b/a IXO v. Savvis Communications Corporation, and Veritas Technologies LLC, Case No. 6:16-cv-00087-RWS-JDL (E.D. Texas), filed September 2, 2016; 18 pages.	
	NPL23	Defendant Veritas Technologies LLC's Answer, Affirmative Defenses, and Counterclaims, filed in Realtime Data LLC d/b/a IXO v. Centurylink, Inc. and Veritas Technologies, Case No. 6:16-00087-RWS-JDL, filed September 2, 2016; 35 pages.	
	NPL24	NetApp, Inc.'s and Solidfire, LLC's Answer to Amended Complaint, filed in *Realtime Data d/b/a IXO v. Rackspace US, Inc. et al.*, Case No. 6:16-cv-961 (E.D. Texas), filed September 6, 2016; 61 pages.	
	NPL25	Copy of Non-Final Office Action for U.S. Patent Appl. No. 14/794,201, mailed August 10, 2016; 4 pages.	
	NPL26	Copy of Non-Final Office Action for U.S. Patent Application No. 13/875,884, mailed June 3, 2015; 10 pages.	
	NPL27	Copy of Final Office Action for U.S. Patent Application No. 13/875,884, mailed March 9, 2016; 8 pages.	
	NPL28	Inter Partes Reexamination Certificate, in Inter Partes Reexamination of U.S. Patent No. 7,400,274, Control No. 95/001,544, issued August 1, 2016; 2 pages.	
	NPL29	Defendant Oracle America's Exchange of Preliminary Claim Constructions and Extrinsic Evidence, filed in Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463-RWS-JDL (E.D. Texas), filed March 21, 2016; 8 pages.	
	NPL30	ROSHAL, E., "User's Manual, RAR 2.50 32-bit Consol version (Unix and Windows)," 1999; 15 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	10/15/2016

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Sheet 4 of 9

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First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL31	ARAMVITH, et al., "MPEG-1 and MPEG-2 Video Standards," Academic Press, 1999; 25 pages.	
	NPL32	Vrc 5074 System Controller Data Sheet, Revision 1.0, NEC, June 1998; 3 pages.	
	NPL33	NEC VRC5074 System Controller Data Sheet, Revision 1.0, June 1998; 3 pages.	
	NPL34	Petition for Inter Partes Review of U.S. Patent No. 7,415,530, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2016-01671 (P.T.A.B.), filed September 6, 2016; 67 pages.	
	NPL35	Petition for Inter Partes Review of U.S. Patent No. 9,116,908, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2016-01672 (P.T.A.B.), filed September 6, 2016; 69 pages.	
	NPL36	Petition for *Inter Partes* Review of U.S. Patent No. 8,880,862, filed in *Apple, Inc. v. Realtime Data LLC*, Case No. IPR2016-01737 (P.T.A.B.), filed September 9, 2016; 83 pages.	
	NPL37	Declaration of Dr. Charles J. Neuhauser, filed in *Apple Inc. v. Realtime Data LLC,* Case No. IPR2016-01737 (P.T.A.B.), filed September 9, 2016; 347 pages.	
	NPL38	Excerpt from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 384.	
	NPL39	Excerpt from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 148.	
	NPL40	Excerpt from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 395.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	10/15/2016

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Sheet 5 of 9

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	NPL41	Excerpt from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 137.	
	NPL42	Excerpts from LOUDON, K., Mastering Algorithms with C, Sebastopol, CA: O'Reilley Media, Inc., 1999; pp. 365-421.	
	NPL43	Excerpts from BARR, M., Programming Embedded Systems in C and C++, Sebastol, CA: O'Reilley & Associates, Inc., 1999; pp. 57-83.	
	NPL44	Excerpts from PEARCE, E., Windows NT in a Nutshell, Sebastol, CA: O'Reilley & Associates, Inc., 1997; pp. 8-9, 52-55, 317-327.	
	NPL45	Excerpts from O'REILLEY, et al., Windows 98 in a Nutshell, Sebastol, CA: O'Reilley & Associates, Inc., 1999; pp. 109-112.	
	NPL46	Excerpts from Microsoft Press Computer Dictionary, Third Edition, Redmond, WA: Microsoft Press, 1997; p. 72, 27-28, 341, 384-386.	
	NPL47	Petition for *Inter Partes* Review of U.S. Patent No. 8,880,862, filed in *Apple, Inc. v. Realtime Data LLC*, Case No. IPR2016-01738 (P.T.A.B.), filed September 9, 2016; 82 pages.	
	NPL48	Declaration of Dr. Charles J. Neuhauser, filed in *Apple Inc. v. Realtime Data LLC*, Case No. IPR2016-01738 (P.T.A.B.), filed September 9, 2016; 347 pages.	
	NPL49	Petition for Inter Partes Review of U.S. Patent No. 8,880,862, filed in Apple, Inc. v. Realtime Data LLC, Case No. IPR2016-01739 (P.T.A.B.), filed September 9, 2016; 77 pages.	
	NPL50	Patent Owner Response, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2016-00374 (P.T.A.B.), filed September 15, 2016; 71 pages.	

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Sheet 6 of 9

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	NPL51	Declaration of Kenneth A. Zeger, Ph.D., filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2016-00374 (P.T.A.B.), filed September 15, 2016; 115 pages.	
	NPL52	Excerpt from IBM Dictionary of Computing, International Business Machines Corporation, 1994; p. 27.	
	NPL53	STORER, A., "An Introduction to Data Structures and Algorithms," Waltham, MA: Springer Science & Business Media, LLC, 2012; pp. 1-27, 76-80, 91, 164.	
	NPL54	FREEDMAN, A., "The Computer Glossary: The Complete Illustrated Dictionary, Ninth Edition," New York, NY: AMACOM, 2001; pp. 140, 147.	
	NPL55	IEEE 100: The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition, New York, NY: Institute of Electrical and Electronics Engineers, Inc., 2000; pp. 455, 860, 861.	
	NPL56	Excerpts from Microsoft Computer Dictionary, Fifth Edition, Redmond, WA, Microsoft Corporation: 2002; pp. 30, 417.	
	NPL57	Deposition of James A. Storer, Ph.D., filed in *Oracle America, Inc. v. Realtime Data LLC,* Case Nos. IPR2016-00373 and IPR2016-00374 (P.T.A.B.), filed September 15, 2016; 63 pages.	
	NPL58	Excerpts from PFAFFENBERGER, B., "Webster's New World Dictionary of Computer Terms, Sixth Edition," New York, NY: Simon & Schuster, Inc., 1997; pp. 29, 186, 195, 411.	
	NPL59	Internet Archive version of the web page www.nist.gov/dads/HTML/prefix.html, dated June 20, 2001, available at https://web.archive.org/web/20090130084909/http://nist.gov/dads/HTML/prefix.html; 1 page.	
	NPL60	Internet Archive version of the web page www.nist.gov/dads/, dated February 3, 2009, available at https://web.archive.org/web/20090130084909/http://nist.gov/dads/; 26 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	10/15/2016

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Sheet 7 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL61	Excerpt from Webster's New World College Dictionary, Fourth Edition, Foster City, CA: IDG Books Worldwide, Inc., 2001; p. 1133.	
	NPL62	Excerpt from Webster's II New College Dictionary, Boston, MA: Houghton Mifflin Company, 1995; p. 871.	
	NPL63	Patent Owner Response, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2016-00373 (P.T.A.B.), filed September 15, 2016; 69 pages.	
	NPL64	Declaration of Kenneth A. Zeger, Ph.D., filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2016-00373 (P.T.A.B.), filed September 15, 2016; 99 pages.	
	NPL65	Absolute Astronomy, "Hard Disk," Absoluteastronomy.com, accessed at http://www.absoluteastronomy.com/topics/Hard_disk on May 23, 2013; 13 pages.	
	NPL66	Fitchard, Kevin, "The Future of Mobile Networks: Beyond 4G," Businessweek.com, accessed at http://www.businessweek.com/articles/2012-12-19/the-future-of-mobile-networks-beyond-4g on May 23, 2013; 6 pages.	
	NPL67	Quick Turn Flash, "USB Flash Drive Facts," Quickturnflash.com, accessed at http://quickturnflash.com/Flash-Drive-Resources/usb-flash-drive-facts.html on May 23, 2013; 4 pages.	
	NPL68	Wikibooks, "Communication Networks/History of Networking," Wikibooks.org, accessed at http://en.wikibooks.org/wiki/Communication-Networks/History_of_Networking on May 23, 2013; 2 pages.	
	NPL69	Wikipedia, "4G," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/4G on May 23, 2013; 17 pages.	
	NPL70	Wikipedia, "Central Processing Unit," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Central_processing_unit on May 23, 2013; 14 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	10/15/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Substitute for form 1449/PTO

EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 8 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL71	Wikipedia, "Computer Data Storage," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Computer_data_storage on May 23, 2013; 14 pages.	
	NPL72	Wikipedia, "Database," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Database_System on May 23, 2013; 19 pages.	
	NPL73	Wikipedia, "Orthogonal Frequency-Division Multiplexing," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Orthogonal_frequency-dividsion_multiplexing on May 23, 2013; 13 pages.	
	NPL74	Wikipedia, "Removable Media," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/Removable_media on May 23, 2013; 2 pages.	
	NPL75	Wikipedia, "USB Flash Drive," Wikipedia.org, accessed at http://en.wikipedia.org/wiki/USB_flash_drive on May 23, 2013; 17 pages.	
	NPL76	Update Court Docket History for Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463 (E.D. Texas), downloaded September 22, 2016, 41 pages.	
	NPL77	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Apple, Inc., Case No. 6:15-cv-00885 (E.D. Texas), downloaded September 22, 2016, 4 pages.	
	NPL78	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al., No. 6:16-cv-00086 (E.D. Texas), downloaded September 22, 2016, 7 pages.	
	NPL79	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Oracle America, Inc., No. 6:16-cv-00088 (E.D. Texas), downloaded September 22, 2016; 7 pages.	
	NPL80	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al., No. 6:16-cv-00087 (E.D. Texas), downloaded September 22, 2016; 8 pages.	

Examiner Signature	/Tesfaldet Bocure/	Date Considered	10/15/2016

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Substitute for form 1449/PTO

EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 9 of 9

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL81	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Dell, Inc., et al., No. 6:16-cv-00089 (E.D. Texas), downloaded September 22, 2016; 9 pages.	
	NPL82	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc., Case No. 2:16-cv-02743 (C.D. Cal), downloaded September 22, 2016; 5 pages.	
	NPL83	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al., No. 6:16-cv-00961 (E.D. Texas), downloaded September 22, 2016; 4 pages.	
	NPL84	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc., et al., No. 6:16-cv-01035 (E.D. Texas), downloaded September 22, 2016; 3 pages.	
	NPL85	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc., No. 6:16-cv-01037 (E.D. Texas), downloaded September 22, 2016; 2 pages.	

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Examiner Signature	/Tesfaldet Bocure/	Date Considered	10/15/2016

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

CPC- SEARCHED

Symbol	Date	Examiner
((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((G06F15/7867)) | ((G06T1/60)) | ((H04N19/136).CPC.)	01/22/2016	TB
((H03M7/30)) | ((H03M7/3059)) | ((H03M7/3093)) | ((H04L69/04)) | ((H04N19/152)) | ((H04N9/8042).CPC.)	01/22/2016	TB
((H03M7/30 | H03M7/3059 | H03M7/3084 | H03M7/6094 | H03M7/3088 | H03M7/6023 | H03M7/6064 | H04N19/152 | G11B20/00007).CPC.)	01/23/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC.	04/17/2016	TB
CPC Updated, see WEST search result for search strategy.	04/18/2016	TB
CPC Updated, see WEST search result for search strategy.	05/29/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC. Updated	08/05/2016	TB
CPC Updated, see WEST search result for search strategy.	10/16/2016	TB

CPC COMBINATION SETS - SEARCHED

Symbol	Date	Examiner

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
375	240, 240.01, 240.02	01/22/2016	TB
341	50, 51, 126	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search ALL ($8.ccls.), See WEST Search for terms used with the clases	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	01/23/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	04/17/2016 & 04/18/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	05/29/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated, See WEST Search	08/05/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	10/16/2016	TB

SEARCH NOTES

Search Notes	Date	Examiner
WEST and Inventor's Name Searched	01/22/2016	TB
See Realted parent application 14/733,565 for further presecution History	01/22/2016	TB
WEST Search Updated	01/23/2016	TB
WEST Search Updated	04/17/2016	TB
WEST Search Updated	04/18/2016	TB
WEST Search Updated	05/29/2016	TB
WEST Search Updated	08/05/2016	TB
WEST Search Updated	10/16/2016	TB

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
375	240, 240.1	04/18/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	04/18/2016	TB
375	240, 240.1	05/29/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	05/29/2016	TB
375	240, 240.1	08/05/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	08/05/2016	TB
375	240, 240.1	10/16/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	10/16/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*	Confirmation No.: 3403
Applicant: Realtime Data LLC	Art Unit: 2634
Application No.: 14/876,276	Examiner: BOCURE, Tesfaldet
Filing Date: October 6, 2015	Atty. Docket: 3421.005000C

Title: **Video Data Compression Systems**

Eighth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

/Tesfaldet Bocure/ 10/15/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Inter Partes Reexamination Certificate issued 08/01/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not

/Tesfaldet Bocure/ 10/15/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

already of record in this patent application are listed on the accompanying Form PTO/SB/08 as **NPL28.**

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00373	7,378,992	Patent Owner Response filed 9/15/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00374	8,643,513	Patent Owner Response filed 9/15/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00375	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00376	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00377	9,116,908	Institution Denied 7/1/2016
SAP America Inc., et al. v. Realtime Data, LLC d/b/a IXO, IPR2016-00783	6,597,812	Patent Owner Preliminary Response filed 7/1/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00878	7,415,530	Dismissed 6/21/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00972	7,415,530	Patent Owner Preliminary Response filed 8/3/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00978	8,643,513	Patent Owner Preliminary Response filed 8/3/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00980	7,378,992	Patent Owner Preliminary Response filed 8/3/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-01002	9,116,908	Patent Owner Preliminary Response filed 8/16/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01365	7,181,608	Filed 7/8/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01366	8,090,936	Filed 7/8/2016
Oracle America Inc. v. Realtime Data LLC, IPR2016-01671	7,415,530	Filed 9/6/2016
Oracle America Inc. v. Realtime Data LLC, IPR2016-01672	9,116,908	Filed 9/6/2016

/Tesfaldet Bocure/ 10/15/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Proceeding	Patent	Status
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01737	8,880,862	Filed 9/9/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01738	8,880,862	Filed 9/9/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01739	8,880,862	Filed 9/9/2016

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **NPL30-NPL64.**

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014

/Tesfaldet Bocure/ 10/15/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

No.	Case	Status
3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed 5/1/2015
12	*Realtime Data, LLC d/b/a IXO v. Actian Corporation, et al.*, No. 6:15-cv-00463 (E.D. Texas)	Motion to Amend/Correct granted 8/12/2016
13	*Realtime Data, LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed 2/22/2016
14	*Realtime Data, LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12; Motion to Amend/Correct granted 8/12/2016
15	*Realtime Data, LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12; Motion to Amend/Correct granted 8/12/2016
16	*Realtime Data, LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated 10/5/ 2015
17	*Realtime Data, LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22
18	*Realtime Data, LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12; Motion to Amend/Correct granted 8/12/2016

/Tesfaldet Bocure/ 10/15/2016

Atty. Dkt. No. 3421.005000C

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

No.	Case	Status
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 5:16-cv-01836 (N.D. Cal.) (formerly no. 6:15-cv-00470 (E.D. Texas))	Case dismissed 5/18/2016
20	*Realtime Data, LLC d/b/a IXO v. Apple Inc.*, No. 6:15-cv-00885 (E.D. Texas)	Transferred to the Northern District of California, 5/11/2016
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Answer to Amended Complaint filed 9/1/2016
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Claim Construction Order issued 7/28/2016
23	*Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al.*, No. 6:16-cv-00087 (E.D. Texas)	Answer to Amended Complaint filed 9/2/2016
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Answer to Amended Complaint filed 8/30/2016
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Answer to Amended Complaint filed 8/3/2016
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Answer to Amended Complaint filed 9/6/2016
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Complaint filed 7/21/2016
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Complaint filed 7/22/2016

Updated court dockets for pending litigation are submitted herewith as documents **NPL76-NPL85.**

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copy of U.S. patent application publication cited as document **US1** on the attached IDS Form is submitted.

Copies of the **NPL1-NPL85** documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 14/733,565, filed June 8, 2015 (now pending) which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is expected that the examiner will review the prosecution and cited art in the parent application nos. 14/733,565, filed June 8, 2015 (now pending); 14/577,286, filed December 19, 2014 (now abandoned); 14/134,933, filed December 19, 2013 (now U.S. Patent No. 8,929,442); 14/033,245, filed September 20, 2013 (now U.S. Patent No. 8,934,535); 13/154,239, filed June 6, 2011 (now U.S. Patent No. 8,553,759); 12/123,081, filed May 19, 2008 (now U.S. Patent No. 8,073,047); and 10/076,013, filed February 13, 2002 (now U.S. Patent No. 7,386,046), in

/Tesfaldet Bocure/ 10/15/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

In accordance with the Federal Circuit decision in Dayco Prods., Inc. v. Total Containment, Inc. 329 F.3d 1358 (Fed. Cir. 2003), Applicants submit herewith Office Actions from the following co-pending U.S. Patent Application Nos.:

Document **NPL25** is a copy of a Non-Final Office Action mailed August 10, 2016 in the prosecution of a co-pending, commonly-assigned U.S. Patent Application No. 14/794,201.

Document **NPL26** is a copy of a Non-Final Office Action mailed June 3, 2015 in the prosecution of a co-pending, commonly-assigned U.S. Patent Application No. 13/875,884.

Document **NPL27** is a copy of a Final Office Action mailed March 9, 2016 in the prosecution of a co-pending, commonly-assigned U.S. Patent Application No. 13/875,884.

The identification of these Office Actions is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

/Tesfaldet Bocure/ 10/15/2016

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./
Page 1334 of 1785

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: 9/26/16

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600
4791356v1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B./

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	01/23/2016	04/18/2016	05/29/2016	08/05/2016	10/17/2016				
1	1	✓	=	=	=	=				
2	2	✓	=	=	=	=				
3	3	✓	=	=	=	=				
4	4	✓	=	=	=	=				
5	5	✓	=	=	=	=				
6	6	✓	=	=	=	=				
7	7	✓	=	=	=	=				
8	8	✓	=	=	=	=				
9	9	✓	=	=	=	=				
10	10	✓	=	=	=	=				
11	11	✓	=	=	=	=				
12	12	✓	=	=	=	=				
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28	28	✓	=	=	=	=				
29	29	✓	=	=	=	=				
30	30	✓	=	=	=	=				

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

CPC								
Symbol							**Type**	**Version**
H04N		19	/	103			F	2014-11-01
H04N		19	/	164			I	2014-11-01
H04N		19	/	176			I	2014-11-01
H03M		7	/	30			I	2013-01-01
H03M		7	/	3084			I	2013-01-01
H03M		7	/	6094			I	2013-01-01
			/					
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			/					

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	10/17/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
375	240.1	H	0	4	N	7 / 12 (2006.01.01)						

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	10/17/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

☒ **Claims renumbered in the same order as presented by applicant** ☐ **CPA** ☐ **T.D.** ☐ **R.1.47**

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	17												
2	2	18	18												
3	3	19	19												
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5	5	21	21												
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8	8	24	24												
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13	13	29	29												
14	14	30	30												
15	15														
16	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634 (Primary Examiner)	10/17/2016 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

WEST Search History for Application 14876276

Creation Date: 2016101709:11

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((Fallen adj James).in. or (McErlain adj Stephen).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	47	OR	YES		10-17-2016
((Fallen).in. or (McErlain).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	181	OR	YES		10-17-2016
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		10-17-2016
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	75	OR	YES		10-17-2016
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and @ad<=20010213	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		10-17-2016
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2	PGPB, USPT, USOC,	37	OR	YES		10-17-2016

ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))	EPAB, JPAB, DWPI, TDBD					
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	OR	YES		10-17-2016
(selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	25	OR	YES		10-17-2016
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric $4near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6179	OR	YES		10-17-2016
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric$4 near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		10-17-2016
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same ((fast near4 slow) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		10-17-2016
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	32	OR	YES		10-17-2016

((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30))))) | (((((H03M7/3084))))) | (((((H03M7/6094))))) | (((((G06F15/7867))))) | (((((G06T1/60))))) | ((((((H04N19/136))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	OR	YES		10-17-2016
(((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30))))) | (((((H03M7/3059))))) | (((((H03M7/3093))))) | (((((H04L69/04))))) | (((((H04N19/152))))) | ((((((H04N9/8042))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		10-17-2016
("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		10-17-2016
(((((375/$8)))).ccls. or ((((370/$8)))).ccls. or ((((348/$8)))).ccls. or ((((341/$8)))).ccls. or ((((711/$8)))).ccls. or ((((701/$8)))).ccls. or ((((381/$8)))).ccls. or ((((375/382)))).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1265263	OR	YES		10-17-2016
(((((375/$8)))).ccls. or ((((370/$8)))).ccls. or ((((348/$8)))).ccls. or ((((341/$8)))).ccls. or ((((711/$8)))).ccls. or ((((701/$8)))).ccls. or ((((381/$8)))).ccls. or ((((375/382)))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		10-17-2016

same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))						
(((((375/240))))).ccls. or ((((375/240.01)))).ccls. or ((((375/240.02)))).ccls. or ((((341/50)))).ccls. or ((((341/51)))).ccls. or ((((341/126)))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		10-17-2016
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		10-17-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	89	OR	YES		10-17-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	50	OR	YES		10-17-2016

compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((375/240)))).ccls. or ((((375/240.01)))).ccls. or ((((375/240.02)))).ccls. or ((((341/50)))).ccls. or ((((341/51)))).ccls. or ((((341/126)))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	TDBD					
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((375/$8)))).ccls. or ((((370/$8)))).ccls. or ((((348/$8)))).ccls. or ((((341/$8)))).ccls. or ((((711/$8)))).ccls. or ((((701/$8)))).ccls. or ((((381/$8)))).ccls. or ((((375/382)))).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		10-17-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5	PGPB, USPT,	67	OR	YES		10-17-2016

encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((H03M7/30))) | (((H03M7/3059))) | (((H03M7/3084))) | (((H03M7/6094))) | (((H03M7/3088))) | (((H03M7/6023))) | (((H03M7/6064))) | (((H04N19/152))) | (((G11B20/00007)))).CPC.)	USOC, EPAB, JPAB, DWPI, TDBD					
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(("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		10-17-2016

compression))))						
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(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((H04N19/164)) | HO4N19/176 | ((H04N19/103))).CPC.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	61	OR	YES		10-17-2016
("20160127512" | "20160127513" | "5479638" | "5771354").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		10-17-2016
20130297575	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		10-17-2016

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax **(571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

26111 7590 10/20/2016
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: Video Data Compression Systems

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	01/20/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
BOCURE, TESFALDET	2634	375-240100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 Sterne, Kessler,
2 Goldstein & Fox
3 PLLC

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Realtime Data LLC
(B) RESIDENCE: (CITY and STATE OR COUNTRY): Armonk, NY

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
☒ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
☐ A check is enclosed.
☒ Payment by credit card. Form PTO-2038 is attached.
☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 19-0036 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
☐ Applicant certifying micro entity status. See 37 CFR 1.29
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
☐ Applicant asserting small entity status. See 37 CFR 1.27
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
☐ Applicant changing to regular undiscounted fee status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date Nov. 23, 2016
Typed or printed name Michael V. Messinger Registration No. 37,575

PTOL-85 Part B (10-13) Approved for use through 10/31/2013 OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Data LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Amendment Under 37 C.F.R. § 1.312

Mail Stop Issue Fee

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Submitted herein is an Amendment Under 37 C.F.R. § 1.312. As payment of the issue fee has not yet been made or is filed herewith, Applicant respectfully submits that filing under 37 C.F.R. § 1.312 is proper. (M.P.E.P. § 714.16.)

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks and Arguments begin on page 9 of this paper.

It is not believed that extensions of time are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Previously Presented) A system, comprising:

a plurality of different asymmetric data compression algorithms, wherein a first asymmetric data compression algorithm of the plurality of different asymmetric data compression algorithms is configured to compress data at a higher data compression rate than a second asymmetric data compression algorithm of the plurality of different asymmetric data compression algorithms, wherein compression rate is measured in bits per second; and

one or more processors configured to:

determine one or more data parameters from one or more data blocks containing video data, at least one of the one or more data parameters relating to a throughput of a communications channel; and

select one or more asymmetric data compression algorithms from among the plurality of different asymmetric data compression algorithms based upon, at least in part, the determined one or more data parameters.

2. (Currently Amended) The system of claim 1, wherein at least one of the plurality of different asymmetric data compression algorithms is an arithmetic algorithm.

3. (Original) The system of claim 1, wherein the throughput of the communications channel comprises:

an actual throughput of the communications channel.

4. (Original) The system of claim 1, wherein the throughput of the communications channel comprises:

an estimated throughput of the communications channel.

5. (Original) The system of claim 1, wherein the throughput of the communications channel comprises:

an expected throughput of the communications channel.

6. (Currently Amended) The system of claim 1, wherein the selected one or more ~~different~~ asymmetric data compression algorithms are configured to compress the one or more data blocks containing video data for different data transmission rates to produce a plurality of compressed data blocks.

7. (Previously Presented) The system of claim 1, wherein at least one of the plurality of different asymmetric data compression algorithms comprises:

a lossless data compression algorithm.

8. (Original) The system of claim 1, wherein at least one of the one or more data parameters comprises:

a resolution of the one or more data blocks containing video data.

9. (Original) The system of claim 1, wherein at least one of the one or more data parameters comprises:

a data transmission rate of the one or more data blocks containing video data.

10. (Original) The system of claim 1, wherein at least one of the one or more data parameters comprises:

an attribute or a value related to a format or a syntax of video data contained in the one or more data blocks containing video data.

11. (Previously Presented) The system of claim 1, wherein the selected one or more asymmetric data compression algorithms comprise:

a content-dependent data compression algorithm.

12. (Previously Presented) The system of claim 11, wherein the content-dependent data compression algorithm comprises:

an arithmetic algorithm.

13. (Previously Presented) The system of claim 1, wherein the selected one or more asymmetric data compression algorithms are configured to perform compression in real-time or substantially real-time.

14. (Original) The system of claim 1, wherein the communications channel comprises:

a distributed network.

15. (Original) The system of claim 14, wherein the distributed network comprises:

the Internet.

16. (Previously Presented) The system of claim 1, wherein the selected one or more asymmetric data compression algorithms are utilized to compress the one or more data blocks containing video data to create one or more compressed data blocks, and

wherein a descriptor is associated with the one or more compressed data blocks that indicates the selected one or more asymmetric data compression algorithms.

17. (Previously Presented) The system of claim 1, wherein the selected one or more asymmetric data compression algorithms are utilized to compress the one or more data blocks containing video data to create one or more compressed data blocks, and

wherein a descriptor indicating the selected one or more asymmetric data compression algorithms is included with the one or more compressed data blocks.

18. (Original) The system of claim 1, wherein at least one of the one or more data parameters comprises:

a video data profile.

19. (Previously Presented) A system, comprising:

a plurality of data compression algorithms;

wherein at least one of the plurality of data compression algorithms comprises an asymmetric data compression algorithm, and

wherein at least one of the plurality of data compression algorithms comprises an arithmetic data compression algorithm,

wherein a first data compression algorithm of the plurality of data compression algorithms is configured to compress more bits per second of data than a second data compression algorithm of the plurality of data compression algorithms; and

one or more processors configured to:

determine one or more data parameters from one or more data blocks containing video data, at least one of the one or more data parameters relating to a throughput of a communications channel; and

select one or more data compression algorithms from among the plurality of data compression algorithms based upon, at least in part, the determined one or more data parameters.

20. (Original) The system of claim 19, wherein the throughput of the communications channel comprises:

an actual throughput of the communications channel.

21. (Original) The system of claim 19, wherein the throughput of the

communications channel comprises:

an estimated or expected throughput of the communications channel.

22. (Previously Presented) The system of claim 19, wherein the selected one or more data compression algorithms are configured to compress the one or more data blocks containing video data for different data transmission rates to produce a plurality of compressed data blocks.

23. (Previously Presented) The system of claim 19, wherein at least one of the plurality of data compression algorithms comprises:

a lossless data compression algorithm.

24. (Original) The system of claim 19, wherein at least one of the one or more data parameters are related to a resolution of the one or more data blocks containing video data.

25. (Original) The system of claim 19, wherein at least one of the one or more data parameters comprises:

a data transmission rate of the one or more data blocks containing video data.

26. (Original) The system of claim 19, wherein at least one of the one or more data parameters comprises:

an attribute or a value related to a format or a syntax of video data contained in the one or

more data blocks containing video data.

27. (Previously Presented) The system of claim 19, wherein the selected one or more data compression algorithms perform data compression in real-time or substantially real-time.

28. (Original) The system of claim 19, wherein the communications channel comprises:

a distributed network or the Internet.

29. (Currently Amended) The system of claim 19, wherein the one or more data blocks are compressed with the selected ~~the one or more selected~~ one or more data compression algorithms to create one or more compressed data blocks, and

wherein a descriptor is associated with the one or more compressed data blocks that indicates the selected data compression algorithm.

30. (Original) The system of claim 19, wherein at least one of the one or more data parameters comprises:

a video data profile.

Remarks

Upon entry of the foregoing amendment, claims 1-30 are pending in the application, with claims 1 and 19 being the independent claims. Claims 2, 6, and 29 are sought to be amended. These amendments correct formal matters without changing the scope of the claims. Applicant respectfully requests that this Amendment be entered.

Reconsideration of this application and entry of the above Amendments are respectfully requested.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

/Michael Messinger/

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: November 23, 2016

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Data LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Ninth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Inter Partes Reexamination Certificate issued 08/01/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be provided to the Examiner upon request.

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00373	7,378,992	Patent Owner Response filed 9/15/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00374	8,643,513	Patent Owner Response filed 9/15/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00375	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00376	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00377	9,116,908	Institution Denied 7/1/2016
SAP America Inc., et al. v. Realtime Data, LLC d/b/a IXO, IPR2016-00783	6,597,812	Institution Decision filed 10/5/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00878	7,415,530	Dismissed 6/21/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00972	7,415,530	Instituted 11/02/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00978	8,643,513	Instituted 11/02/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00980	7,378,992	Instituted 11/02/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-01002	9,116,908	Instituted 11/02/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01365	7,181,608	Patent Owner Preliminary Response filed 10/20/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01366	8,090,936	Patent Owner Preliminary Response filed 10/13/2016
Oracle America Inc. v. Realtime Data LLC, IPR2016-01671	7,415,530	Filed 9/6/2016
Oracle America Inc. v. Realtime Data LLC, IPR2016-01672	9,116,908	Filed 9/6/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01737	8,880,862	Filed 9/9/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01738	8,880,862	Filed 9/9/2016

Proceeding	Patent	Status
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01739	8,880,862	Filed 9/9/2016
Oracle America Inc. v. Realtime Data LLC, IPR2017-00108	9,054,728	Filed 10/24/2016
Oracle America Inc. v. Realtime Data LLC, IPR2017-00167	6,597,812	Filed 11/2/2016
Oracle America Inc. v. Realtime Data LLC, IPR2017-00168	6,597,812	Filed 11/2/2016
Dell Inc., et al v. Realtime Data LLC, IPR2017-00176	7,161,506	Filed 11/14/2016
Dell Inc., et al v. Realtime Data LLC, IPR2017-00179	9,054,728	Filed 11/14/2016

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **NPL3-NPL12.**

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.,* No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed 5/1/2015
12	*Realtime Data, LLC d/b/a IXO v. Actian Corporation, et al.*, No. 6:15-cv-00463 (E.D. Texas)	Order Overruling Objections to Memorandum Opinion 11/1/2016
13	*Realtime Data, LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed 2/22/2016
14	*Realtime Data, LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12
15	*Realtime Data, LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12
16	*Realtime Data, LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated 10/5/ 2015
17	*Realtime Data, LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22

No.	Case	Status
18	*Realtime Data, LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 5:16-cv-01836 (N.D. Cal.) (formerly no. 6:15-cv-00470 (E.D. Texas))	Case dismissed 5/18/2016
20	*Realtime Data, LLC d/b/a IXO v. Apple Inc.*, No. 6:15-cv-00885 (E.D. Texas)	Transferred to the Northern District of California, 5/11/2016
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Answer to Amended Complaint filed 9/1/2016
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Order Overruling Objections to Memorandum Opinion 11/1/2016
23	*Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al.*, No. 6:16-cv-00087 (E.D. Texas)	Answer to Amended Complaint filed 9/2/2016
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Order denying Motion to Dismiss 9/1/2016
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Discovery Order 9/29/2016
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Amended Complaint filed 10/11/2016
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Consolidated with Case No. 26
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Consolidated with Case No. 26

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but on or before payment of the Issue Fee. The required fee is provided through online credit card payment authorization in the amount of **$180.00** in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

Copies of documents **NPL1-NPL12** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copy of U.S. patent application publication cited as document **US1** on the attached IDS Form is submitted.

It is expected that the examiner will review the prosecution and cited art in the parent application nos. 14/733,565, filed June 8, 2015 (now pending); 14/577,286, filed December 19,

2014 (now abandoned); 14/134,933, filed December 19, 2013 (now U.S. Patent No. 8,929,442); 14/033,245, filed September 20, 2013 (now U.S. Patent No. 8,934,535); 13/154,239, filed June 6, 2011 (now U.S. Patent No. 8,553,759); 12/123,081, filed May 19, 2008 (now U.S. Patent No. 8,073,047); and 10/076,013, filed February 13, 2002 (now U.S. Patent No. 7,386,046), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

/Michael Messinger/

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: November 23, 2016

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4878481_1.docx

Substitute for form 1449/PTO

NINTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, TESFALDET
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	2016/0261278 A1	09-08-2016	Fallon	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

4878439_1.docx

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				*Complete if Known*	
NINTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, TESFALDET
Sheet	1	of	2	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Rackspace US Inc.'s Answer to Amended Complaint, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.,* Case No. 6:16-cv-961 (E.D. Texas), filed October 25, 2016; 39 pages.	
	NPL2	NetApp, Inc.'s and Solidfire, LLC's Answer to Amended Complaint, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.,* Case No. 6:16-cv-961 (E.D. Texas), filed October 28, 2016; 66 pages.	
	NPL3	Petition for *Inter Partes* Review of U.S. Patent No. 8,880,862, filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2017-00108 (P.T.A.B.), filed October 24, 2016; 72 pages.	
	NPL4	Declaration of Dr. James A. Storer, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2017-00108 (P.T.A.B.), filed October 24, 2016; 107 pages.	
	NPL5	Decision Granting Institution of *Inter Partes* Review, filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed November 1, 2016; 21 pages.	
	NPL6	Decision Institution of *Inter Partes* Review, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC*, Case No. IPR2016-00978 (P.T.A.B.), filed November 1, 2016; 31 pages.	
	NPL7	Decision Institution of *Inter Partes* Review, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC*, Case No. IPR2016-00980 (P.T.A.B.), filed November 1, 2016; 29 pages.	
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	NPL9	Declaration of Professor James A. Storer, Ph.D, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2017-00167 (P.T.A.B.), filed November 2, 2016; 93 pages.	
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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

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				Examiner Name	BOCURE, TESFALDET
Sheet	2	of	2	Attorney Docket Number	3421.005000C

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	NPL10	Petition for Inter Partes Review of U.S. Patent No. 6,597,812 to Fallon, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2017-00168 (P.T.A.B.), filed November 2, 2016; 84 pages.	
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Electronic Patent Application Fee Transmittal

Application Number:	14876276
Filing Date:	06-Oct-2015
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Filer:	Michael V. Messinger/Amy Kominko
Attorney Docket Number:	3421.005000C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**1140**

Electronic Acknowledgement Receipt

EFS ID:	27604834
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger/Amy Kominko
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	3421.005000C
Receipt Date:	23-NOV-2016
Filing Date:	06-OCT-2015
Time Stamp:	15:08:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1140
RAM confirmation Number	112516INTEFSW15090100
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		3421005000C_Filing.pdf	5552585 efce61dfbf29bc6b64459b1fe3f358ab3b5efd40	yes	23

Multipart Description/PDF files in .zip description

Document Description	Start	End
Transmittal Letter	1	2
Issue Fee Payment (PTO-85B)	3	3
Amendment after Notice of Allowance (Rule 312)	4	4
Claims	5	11
Applicant Arguments/Remarks Made in an Amendment	12	12
Transmittal Letter	13	20
Information Disclosure Statement (IDS) Form (SB08)	21	21
Information Disclosure Statement (IDS) Form (SB08)	22	23

Warnings:

Information:

2	Non Patent Literature	NPL1_RackspaceAnswertoAmendedComplaint_616cv961_10252016.pdf	197609 8fe7e54e98fde5c5812688bb525297424801fbcd	no	39

Warnings:

Information:

3	Non Patent Literature	NPL2_NetAppAnswertoAmendedComplaint_616cv961_10282016_.pdf	260514 f31f6fadef71b0a57c0c507b0be9a6036da4ae68	no	66

Warnings:

Information:

4	Non Patent Literature	NPL3_IPR2017-00108_Petition_10242016.pdf	467101 9b717072b869922ed3967320883268499 15b0f1b	no	72
Warnings:					
Information:					
5	Non Patent Literature	NPL4_IPR2017-00108_StorerDec_10242016.pdf	1830196 d192062298a507c1bcd699da33e2800ff41 5e2f6	no	107
Warnings:					
Information:					
6	Non Patent Literature	NPL5_InstitutionDecision_IPR201600972_11012016_.pdf	326212 d87cd2aa1e97c606ddf56873bf78697e61e 29044	no	21
Warnings:					
Information:					
7	Non Patent Literature	NPL6_InstitutionDecision_IPR201600978_11012016_.pdf	538175 6fd3c704c61c87d6cafdee1e2ad72539a22c e7f3	no	31
Warnings:					
Information:					
8	Non Patent Literature	NPL7_InstitutionDecision_IPR201600980_11012016_.pdf	534588 d5aea7bf07a1dffa8e336f88367b28044d2a b9e1	no	29
Warnings:					
Information:					
9	Non Patent Literature	NPL8_Petition_IPR201700167_11022016.pdf	797767 24415a7ea9d22e46a1d2294125784f98182 2c3eb	no	65
Warnings:					
Information:					
10	Non Patent Literature	NPL9_StorerDec_IPR201700167_11022016.pdf	21617313 5cf544781463d5d11a72199d1b893a16f71 e8208	no	93
Warnings:					
Information:					

11	Non Patent Literature	NPL10_Petition_IPR201700168_11022016.pdf	854149 b4fcfcef3131ff134024df4804f67615f71d6a63	no	84
Warnings:					
Information:					
12	Non Patent Literature	NPL11_StorerDec_IPR201700168_11022016.pdf	24228776 e738852fb486b2f843bed04f136f70613446 75c3	no	111
Warnings:					
Information:					
13	Non Patent Literature	NPL12_InstitutionDecision_IPR201601002_11042016_.pdf	366784 c53f00f9fcd85482583fc9f5e918c2670499d e9b	no	19
Warnings:					
Information:					
14	Fee Worksheet (SB06)	fee-info.pdf	32174 a1f55492e367e18d974cac40fabe0f9cc9e3 7ad4	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	57603943	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

MICHAEL V. MESSINGER
DIRECTOR
(202) 772-8667
MIKEM@SKGF.COM

Sterne Kessler Goldstein Fox
ATTORNEYS AT LAW

November 23, 2016

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Confirmation No. 3403
Mail Stop Issue Fee

Re: Allowed U.S. Utility Patent Application
Appl. No. 14/876,276; Filed: October 6, 2015
For: **Video Data Compression Systems**
Inventors: FALLON *et al.*
Our Ref: 3421.005000C

Commissioner:

In response to the **Notice of Allowance and Fee(s) Due** dated October 20, 2016, the following documents are transmitted for appropriate action by the U.S. Patent and Trademark Office:

1. Issue Fee Transmittal (Form PTOL-85);
2. Online Credit Card Payment Authorization for $1,140.00 to cover:
   $960.00 Issue Fee; and
   $180.00 IDS Fee;
3. Amendment Under 37 C.F.R. § 1.312;
4. Ninth Supplemental Information Disclosure Statement;
5. Form PTO/SB/08a (1 sheet) listing 1 document (**US1**); and
6. Form PTO/SB/08b (2 sheets) listing 12 documents (**NPL1-NPL12**); and
7. Copies of cited documents (**NPL1-NPL12**).

The above-listed documents are filed electronically.

Fee payment is provided through online credit card payment. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

/Michael Messinger/

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

MVM/smh
Enclosure(s)

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

26111 7590 12/15/2016

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER
BOCURE, TESFALDET

ART UNIT	PAPER NUMBER
2634	

MAIL DATE	DELIVERY MODE
12/15/2016	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Supplemental Notice of Allowability	Application No. 14/876,276	Applicant(s) FALLON ET AL.	
	Examiner TESFALDET BOCURE	Art Unit 2634	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *QPIDS filed on 11/23/2016*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-30*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/23/2016
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.

2. This office action (Corrected/Supplemental Notice of Allowance) is in response to the QPIDS filed on 11/23/2016; the pending claims 1-30 are allowed.

Information Disclosure Statement

3. In response to the Information Disclosure statement (IDS) ***after Allowance and before the payment of issue fee***[1] received on 11/23/2016, the following action has been taken:

THE PRESECUTION OF THIS CASE IS CLOSED AS OF THE DATE THE NOTICE OF ALLOWANCE WAS MAILED ON 10/20/2016.

The information disclosure statement (IDS) submitted on 11/23/2016 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. Attached with this correspondence is the initialed copy of the IDS.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TESFALDET BOCURE whose telephone number is

[1] Note that the issue fee was paid at the same date the QPIDS was filed.

(571)272-3015. The examiner can normally be reached on Mon-Th, 8:30-6:00 and 8:30-5:00 2nd Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DANIEL C. WASHBURN can be reached on (571)272-5551. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

/T. B./
Primary Examiner, Art Unit 2634

Substitute for form 1449/PTO

NINTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, TESFALDET
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/T.B/	US1	2016/0261278 A1	09-08-2016	Fallon	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

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Examiner Signature	/TESFALDET BOCURE/	Date Considered	12/05/2016

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				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, TESFALDET
Sheet	1	of	2	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Rackspace US Inc.'s Answer to Amended Complaint, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.,* Case No. 6:16-cv-961 (E.D. Texas), filed October 25, 2016; 39 pages.	
	NPL2	NetApp, Inc.'s and Solidfire, LLC's Answer to Amended Complaint, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.,* Case No. 6:16-cv-961 (E.D. Texas), filed October 28, 2016; 66 pages.	
	NPL3	Petition for *Inter Partes* Review of U.S. Patent No. 8,880,862, filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2017-00108 (P.T.A.B.), filed October 24, 2016; 72 pages.	
	NPL4	Declaration of Dr. James A. Storer, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2017-00108 (P.T.A.B.), filed October 24, 2016; 107 pages.	
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	NPL9	Declaration of Professor James A. Storer, Ph.D, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2017-00167 (P.T.A.B.), filed November 2, 2016; 93 pages.	
NON PATENT LITERATURE DOCUMENTS			

Examiner Signature	/TESFALDET BOCURE/	Date Considered	12/05/2016

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

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				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
(Use as many sheets as necessary)				Examiner Name	BOCURE, TESFALDET
Sheet	2	of	2	Attorney Docket Number	3421.005000C

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL10	Petition for Inter Partes Review of U.S. Patent No. 6,597,812 to Fallon, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2017-00168 (P.T.A.B.), filed November 2, 2016; 84 pages.	
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Examiner Signature	/TESFALDET BOCURE/	Date Considered	12/05/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

WEST Search History for Application 14876276

Creation Date: 2016120819:03

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((Fallen adj James).in. or (McErlain adj Stephen).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	47	OR	YES		12-08-2016
((Fallen).in. or (McErlain).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	181	OR	YES		12-08-2016
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		12-08-2016
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	75	OR	YES		12-08-2016
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and @ad<=20010213	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		12-08-2016
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2	PGPB, USPT, USOC,	37	OR	YES		12-08-2016

ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))	EPAB, JPAB, DWPI, TDBD					
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	OR	YES		12-08-2016
(selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	25	OR	YES		12-08-2016
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric $4near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6266	OR	YES		12-08-2016
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric$4 near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		12-08-2016
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same ((fast near4 slow) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		12-08-2016
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	32	OR	YES		12-08-2016

((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30)))))) | ((((((H03M7/3084)))))) | ((((((H03M7/6094)))))) | ((((((G06F15/7867)))))) | ((((((G06T1/60)))))) | ((((((H04N19/136))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	OR	YES		12-08-2016
(((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30)))))) | ((((((H03M7/3059)))))) | ((((((H03M7/3093)))))) | ((((((H04L69/04)))))) | ((((((H04N19/152)))))) | ((((((H04N9/8042))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		12-08-2016
("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		12-08-2016
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1269607	OR	YES		12-08-2016
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		12-08-2016

same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))						
((((((375/240))))).ccls. or ((((((375/240.01))))).ccls. or ((((((375/240.02))))).ccls. or ((((((341/50))))).ccls. or ((((((341/51))))).ccls. or ((((((341/126))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		12-08-2016
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		12-08-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	89	OR	YES		12-08-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing)	PGPB, USPT, USOC, EPAB, JPAB,	50	OR	YES		12-08-2016

near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/240))))).ccls. or (((((375/240.01))))).ccls. or (((((375/240.02))))).ccls. or (((((341/50))))).ccls. or (((((341/51))))).ccls. or (((((341/126))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	DWPI, TDBD					
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		12-08-2016

(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((H03M7/30)))) | ((((H03M7/3059)))) | ((((H03M7/3084)))) | ((((H03M7/6094)))) | ((((H03M7/3088)))) | ((((H03M7/6023)))) | ((((H03M7/6064)))) | ((((H04N19/152)))) | ((((G11B20/00007))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	67	OR	YES		12-08-2016
("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	68	OR	YES		12-08-2016
(("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		12-08-2016

or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))						
("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	75	OR	YES		12-08-2016
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((H03M7/30))) | (((H03M7/3084))) | (((H03M7/6094))) | (((H04N19/164))) | HO4N19/176 | (((H04N19/103))))).CPC.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	61	OR	YES		12-08-2016
("20160127512" | "20160127513" | "5479638" | "5771354").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		12-08-2016
20130297575	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	2	OR	YES		12-08-2016

	TDBD					
20160261278	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		12-08-2016

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BIB DATA SHEET

CONFIRMATION NO. 3403

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/876,276	10/06/2015	375	2634	3421.005000C

APPLICANTS

Realtime Data, LLC, Armonk, NY;

INVENTORS

James J. FALLON, Armonk, NY;
Stephen J. MCERLAIN, Astoria, NY;

**** CONTINUING DATA ***************************

This application is a CON of 14/733,565 06/08/2015
which is a CON of 14/577,286 12/19/2014 ABN
which is a CON of 14/134,933 12/19/2013 PAT 8929442
which is a CON of 14/033,245 09/20/2013 PAT 8934535
which is a CON of 13/154,239 06/06/2011 PAT 8553759
which is a CON of 12/123,081 05/19/2008 PAT 8073047
which is a CON of 10/076,013 02/13/2002 PAT 7386046
which claims benefit of 60/268,394 02/13/2001

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

10/20/2015

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /TESFALDET BOCURE/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		NY	4	30	2

ADDRESS

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005
UNITED STATES

TITLE

Video Data Compression Systems

FILING FEE RECEIVED		
2400	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07).

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

CPC								
Symbol							**Type**	**Version**
H04N		19	/	103			F	2014-11-01
H04N		19	/	164			I	2014-11-01
H04N		19	/	176			I	2014-11-01
H03M		7	/	30			I	2013-01-01
H03M		7	/	3084			I	2013-01-01
H03M		7	/	6094			I	2013-01-01
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CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	12/08/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No. 20161208

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
375	240.1	H	0	4	N	7 / 12 (2006.01.01)						

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	12/08/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

☒ **Claims renumbered in the same order as presented by applicant** ☐ **CPA** ☐ **T.D.** ☐ **R.1.47**

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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2	2	18	18												
3	3	19	19												
4	4	20	20												
5	5	21	21												
6	6	22	22												
7	7	23	23												
8	8	24	24												
9	9	25	25												
10	10	26	26												
11	11	27	27												
12	12	28	28												
13	13	29	29												
14	14	30	30												
15	15														
16	16														

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	12/08/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	01/23/2016	04/18/2016	05/29/2016	08/05/2016	10/17/2016	12/08/2016			
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3	3	✓	=	=	=	=	=			
4	4	✓	=	=	=	=	=			
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6	6	✓	=	=	=	=	=			
7	7	✓	=	=	=	=	=			
8	8	✓	=	=	=	=	=			
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26	26	✓	=	=	=	=	=			
27	27	✓	=	=	=	=	=			
28	28	✓	=	=	=	=	=			
29	29	✓	=	=	=	=	=			
30	30	✓	=	=	=	=	=			

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

CPC- SEARCHED

Symbol	Date	Examiner
((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((G06F15/7867)) | ((G06T1/60)) | ((H04N19/136).CPC.)	01/22/2016	TB
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((H03M7/30 | H03M7/3059 | H03M7/3084 | H03M7/6094 | H03M7/3088 | H03M7/6023 | H03M7/6064 | H04N19/152 | G11B20/00007).CPC.)	01/23/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC.	04/17/2016	TB
CPC Updated, see WEST search result for search strategy.	04/18/2016	TB
CPC Updated, see WEST search result for search strategy.	05/29/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC. Updated	08/05/2016	TB
CPC Updated, see WEST search result for search strategy.	10/16/2016	TB
CPC Updated, see WEST search result for search strategy.	12/08/2016	TB

CPC COMBINATION SETS - SEARCHED

Symbol	Date	Examiner

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
375	240, 240.01, 240.02	01/22/2016	TB
341	50, 51, 126	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search ALL ($8.ccls.), See WEST Search for terms used with the clases	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	01/23/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	04/17/2016 & 04/18/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	05/29/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated, See WEST Search	08/05/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	10/16/2016	TB
375, 370, 348, 341, 711, 701, 381		12/08/2016	TB

SEARCH NOTES

Search Notes	Date	Examiner
WEST and Inventor's Name Searched	01/22/2016	TB
See Realted parent application 14/733,565 for further presecution History	01/22/2016	TB
WEST Search Updated	01/23/2016	TB
WEST Search Updated	04/17/2016	TB
WEST Search Updated	04/18/2016	TB
WEST Search Updated	05/29/2016	TB
WEST Search Updated	08/05/2016	TB
WEST Search Updated	10/16/2016	TB
WEST Search Updated	12/08/2016	TB

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
375	240, 240.1	04/18/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	04/18/2016	TB
375	240, 240.1	05/29/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	05/29/2016	TB
375	240, 240.1	08/05/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	08/05/2016	TB
375	240, 240.1	10/16/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	10/16/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
375	240, 240.1	12/08/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	12/08/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	14/876,276	Filing Date	2015-10-06	Docket Number (if applicable)	3421.005000C	Art Unit	2634
First Named Inventor	FALLON, James J.			Examiner Name	BOCURE, Tesfaldet		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☐ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 190036

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

X Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Michael Messinger/	Date (YYYY-MM-DD)	2017-02-07
Name	Michael V. Messinger	Registration Number	37575

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

MICHAEL V. MESSINGER
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Sterne Kessler Goldstein Fox
ATTORNEYS AT LAW

February 7, 2017

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Confirmation No. 3403
Art Unit 2634
Attn: Mail Stop RCE

Re: U.S. Utility Patent Application
Appl. No. 14/876,276; Filing Date: October 6, 2015
For: **Video Data Compression Systems**
Inventors: FALLON *et al.*
Our Ref: 3421.005000C

Commissioner:

Transmitted herewith for appropriate action are the following documents:

1. Online Credit Card Payment Authorization in the amount of **$1,840.00** to cover:

   $1,700.00 – Request for Continued Examination Fee;
   $140.00 - Petition to Withdraw from Issue Fee (under 37 C.F.R. § 1.313(c)(2));

2. e-Petition to Withdraw from Issue Under 37 C.F.R. § 1.313(c)(2) for consideration of a Request for Continued Examination;

3. Request for Continued Examination (RCE) Transmittal (PTO/SB/30EFS);

4. Tenth Supplemental Information Disclosure Statement;

5. Form PTO/SB/08a (1 sheet) listing 3 documents (**US1** and **FP1-FP2**);

6. Form PTO/SB/08b (3 sheets) listing 26 documents (**NPL1-NPL26**); and

7. A copy of cited documents (**FP2**, **NPL10-NPL13** and **NPL26**).

The above-listed documents are filed electronically.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Fee payment is provided through online credit card payment. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net

addition of claims or forwarding to appeal) or credit any overpayment to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

MVM/afe
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Data LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Tenth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Inter Partes Reexamination Certificate issued 08/01/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be provided to the Examiner upon request.

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00373	7,378,992	Petitioner Reply filed 2/2/2017
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00374	8,643,513	Petitioner Reply filed 2/2/2017
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00375	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00376	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00377	9,116,908	Institution Denied 7/1/2016
SAP America Inc., et al. v. Realtime Data, LLC d/b/a IXO, IPR2016-00783	6,597,812	Patent Owner Response filed 1/5/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00878	7,415,530	Dismissed 6/21/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00972	7,415,530	Instituted 11/2/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00978	8,643,513	Instituted 11/2/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00980	7,378,992	Instituted 11/2/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-01002	9,116,908	Instituted 11/2/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01365	7,181,608	Instituted 01/18/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01366	8,090,936	Instituted 01/12/2017
Oracle America Inc. v. Realtime Data LLC, IPR2016-01671	7,415,530	Filed 9/6/2016
Oracle America Inc. v. Realtime Data LLC, IPR2016-01672	9,116,908	Filed 9/6/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01737	8,880,862	Patent Owner's Preliminary Response filed 12/16/2016

Proceeding	Patent	Status
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01738	8,880,862	Patent Owner's Preliminary Response filed 12/22/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01739	8,880,862	Patent Owner's Preliminary Response filed 12/16/2016
Oracle America Inc. v. Realtime Data LLC, IPR2017-00108	9,054,728	Filed 10/24/2016
Oracle America Inc. v. Realtime Data LLC, IPR2017-00167	6,597,812	Filed 11/2/2016
Oracle America Inc. v. Realtime Data LLC, IPR2017-00168	6,597,812	Filed 11/2/2016
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00176	7,161,506	Filed 11/14/2016
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00179	9,054,728	Filed 11/14/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00364	9,116,908	Filed 11/30/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00365	7,415,530	Filed 11/30/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00366	8,643,513	Filed 11/30/2016
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00557	7,358,867	Filed 12/30/2016
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00806	7,161,506	Filed 1/30/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00808	9,054,728	Filed 1/30/2017

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **FP1,** and **NPL14-NPL25.**

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3

No.	Case	Status
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed 5/1/2015
12	*Realtime Data, LLC d/b/a IXO v. Actian Corporation, et al.*, No. 6:15-cv-00463 (E.D. Texas)	Order denying Motion to Stay 11/29/2016
13	*Realtime Data, LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed 2/22/2016
14	*Realtime Data, LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12
15	*Realtime Data, LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12
16	*Realtime Data, LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated 10/5/ 2015
17	*Realtime Data, LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22
18	*Realtime Data, LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 5:16-cv-01836 (N.D. Cal.) (formerly no. 6:15-cv-00470 (E.D. Texas))	Case dismissed 5/18/2016
20	*Realtime Data, LLC d/b/a IXO v. Apple Inc.*, No. 6:15-cv-00885 (E.D. Texas)	Transferred to the Northern District of California, 5/11/2016
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Order granting Motion to Construe terms 1/11/2017
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Order denying Motion to Supplement Infringement Contentions 12/14/2016
23	*Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al.*, No. 6:16-cv-00087 (E.D. Texas)	Order granting Motion to Construe terms 1/11/2017
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Order granting Motion to Construe terms 1/11/2017
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Order modifying Markman Procedure 12/7/2016
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Notice by Quantum Co. of Compliance 1/18/2017
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Consolidated with Case No. 26

No.	Case	Status
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Consolidated with Case No. 26

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action

on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

A concise explanation of the relevance of the non-English language document(s) appears below in accordance with 37 C.F.R. § 1.98(a)(3).

Document **NPL26** is submitted herewith as an English-translation of **FP2** (JP 05088793 A).

Copies of documents **FP2, NPL10-NPL13** and **NPL26** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copy of U.S. patent cited as document **US1** on the attached IDS Form is submitted.

Copies of the **FP1, NPL1-NPL9, NPL14-NPL25** documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 14/733,565, filed June 8, 2015 (now pending), which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is expected that the examiner will review the prosecution and cited art in the parent application nos. 14/733,565, filed June 8, 2015 (now pending); 14/577,286, filed December 19, 2014 (now abandoned); 14/134,933, filed December 19, 2013 (now U.S. Patent No. 8,929,442); 14/033,245, filed September 20, 2013 (now U.S. Patent No. 8,934,535); 13/154,239, filed June 6, 2011 (now U.S. Patent No. 8,553,759); 12/123,081, filed May 19, 2008 (now U.S. Patent No. 8,073,047); and 10/076,013, filed February 13, 2002 (now U.S. Patent No. 7,386,046), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

In accordance with the Federal Circuit decision in *Dayco Prods., Inc. v. Total Containment, Inc.* 329 F.3d 1358 (Fed. Cir. 2003), Applicants submit herewith Office Actions from the following co-pending U.S. Patent Application Nos.:

Document **NPL10** is a copy of a Non-Final Office Action mailed December 22, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/530,974.

Document **NPL11** is a copy of a Notice of Allowance mailed November 16, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/727,309.

Document **NPL12** is a copy of a Non-Final Office Action mailed January 19, 2017in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/936,312.

Document **NPL13** is a copy of a Non-Final Office Action mailed November 10, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 13/875,884.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

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Date: February 7, 2017

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Substitute for form 1449/PTO

TENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	6,868,500 B1	03-15-2005	Kutz et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP1	WO 2008/087466 A1	07-24-2008	Stefanov		
	FP2	JP 05088793 A	04-09-1993	Toshiba Corp.		T

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Substitute for form 1449/PTO				*Complete if Known*	
TENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	1	of	3	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Joint Claim Construction and Prehearing Statement, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 16-cv-02595-JD (N.D. California), filed January 6, 2017; 6 pages.	
	NPL2	Joint Claim Construction and Prehearing Statement Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 16-cv-02595-JD (N.D. California), filed January 6, 2017; 27 pages.	
	NPL3	Joint Claim Construction and Prehearing Statement Exhibit B, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 16-cv-02595-JD (N.D. California), filed January 6, 2017; 17 pages.	
	NPL4	Joint Claim Construction and Prehearing Statement Exhibit C, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 16-cv-02595-JD (N.D. California), filed January 6, 2017; 28 pages.	
	NPL5	Joint Claim Construction and Prehearing Statement, filed in *Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, Case No. 2:16-cv-02743-AG-FFM (C.D. California), filed January 24, 2017; 56 pages.	
	NPL6	Joint Claim Construction and Prehearing Statement with attached Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Hwelett Packard Enterprise Co. et al.*, Case No. 6:16-cv-00086-RWS-JDL (E.D. Texas), filed January 17, 2017; 46 pages.	
	NPL7	Joint Claim Construction and Prehearing Statement with attached Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Hwelett Packard Enterprise Co. et al.*, Case No. 6:16-cv-00087-RWS-JDL (E.D. Texas), filed January 17, 2017; 46 pages.	
	NPL8	Joint Claim Construction and Prehearing Statement with attached Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Hwelett Packard Enterprise Co. et al.*, Case No. 6:16-cv-00089-RWS-JDL (E.D. Texas), filed January 17, 2017; 46 pages.	
	NPL9	Complaint for Patent Infringement Against Oracle America, Inc., filed in Realtime Data d/b/a IXO v. Oracle America, Inc., Case No. 6:17-cv-00046 (E.D. Texas), filed January 23, 2017; 58 pages.	
	NPL10	Copy of Non-Final Office Action for U.S. Patent Application No. 14/530,974 mailed December 22, 2016; 20 pages.	

Examiner Signature		Date Considered	

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

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				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	2	of	3	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL11	Copy of Notice of Allowance for U.S. Patent Application No. 14/727,309, mailed November 16, 2016; 9 pages.	
	NPL12	Copy of Non-Final Office Action for U.S. Patent Application No. 14/936,312 mailed January 19, 2017; 13 pages.	
	NPL13	Copy of Non-Final Office Action for U.S. Patent Application No. 13/875,884 mailed November 10, 2016; 7 pages.	
	NPL14	Defendants' Technology Tutorial Reference Book, filed in *Realtime Data LLC d/b/a IXO v. Actian Corporation, et al.*, Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed May 19 2016; 85 pages.	
	NPL15	Decision Granting Institution of *Inter Partes* Review, filed in *Apple, Inc. v. Realtime Data LLC*, Case No. IPR2016-01366 (P.T.A.B.), filed January 12, 2017; 17 pages.	
	NPL16	Internet Archive version of the web page http://www.faqs.org/faqs/compression-faq/part1/section-7.html, dated November 28, 1999, available at https://web.archive.org/web/19991128233045/http://www.faqs.org/faqs/compression-faq/part1/section-7.html; 14 pages.	
	NPL17	Declaration of Leonard Laub, filed in *Hewlett-Packard Enterprise Company et al. v. Realtime Data LLC d/b/a IXO*, Case No. IPR2016-00783 (P.T.A.B.), filed January 5, 2017; 96 pages.	
	NPL18	Petition for *Inter Partes* Review of U.S. Patent No. 7,358,867, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00557 (P.T.A.B.), filed December 30, 2016; 76 pages.	
	NPL19	Declaration of Charles D. Creusere, Ph.D., filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00557 (P.T.A.B.), filed December 30, 2016; 137 pages.	
	NPL20	Excerpt from McGraw-Hill Dictionary of Scientific and Technical Terms, Fifth Edition, McGraw-Hill 1994; p. 616.	

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

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TENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
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(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	3	of	3	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL21	Excerpts from Microsoft Press Computer Dictionary, Third Edition, Microsoft Corporation 1997; pp. 71, 162, 485.	
	NPL22	Declaration of Scott Bennett, Ph.D., filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO*, Case No. IPR2017-00557 (P.T.A.B.), filed December 30, 2016; 9 pages.	
	NPL23	Underwood, "Extensions of the UNIX File Command and Magic File for File Type Identification," Georgia Tech Research Institute 2009; 25 pages.	
	NPL24	AT&T UNIX System V User's Manual Volume I, AT&T 1986; 269 pages (submitted in three parts).	
	NPL25	FreeBSDGeneral Commands Manual, FreeBSD Man Pages 2000; 7 pages.	
	NPL26	English Translation copy of JP 05088793 A.	

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Examiner Signature		Date Considered	

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

(19)日本国特許庁（ＪＰ）　(12) **公開特許公報（Ａ）**　(11)特許出願公開番号

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審査請求　未請求　請求項の数２(全　４　頁)

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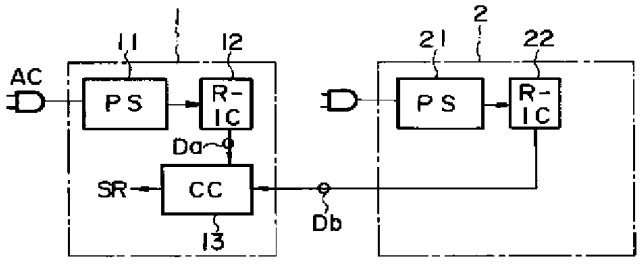
(54)【発明の名称】　拡張システム

(57)【要約】

【目的】本発明は、インテリジェントパワーサプライを備えていない電子機器と機能拡張装置が互いに独立した電源をもつ拡張システムに於いて、機能拡張装置の電源に異常が発生した際に、機能拡張装置に接続された電子機器側でその異常を認識し内部にリセットをかける回路を付加して、電子機器と機能拡張装置に簡単なハードウェアを付加するのみで、機能拡張装置の電源異常に伴う電子機器側の誤動作を防止することを特徴とする。

【構成】機能拡張装置２に設けられ、自電源の電源監視信号Ｄb をＰＣ本体１に送出するリセットＩＣ２２と、ＰＣ本体１に設けられ、自電源の電源監視信号Ｄa を出力するリセットＩＣ１２と、上記各電源監視信号Ｄa，Ｄb を受け、少なくともいずれか一方の信号が電源異常状態を示したとき、内部にリセットをかけるリセット制御回路１３とを備えてなることを特徴とする。



【特許請求の範囲】
【請求項１】　商用交流電源を一次電源とする特定のデータ処理機能をもつ小型電子機器と、同電子機器の接続口を有し、同接続口に接続された電子機器の機能を拡張する機能拡張装置とでなる、それぞれが独立した電源装置をもつ拡張システムに於いて、
上記機能拡張装置には、自電源の状態を監視する第１の電源監視回路と、同監視回路の出力信号を上記接続口を介して上記電子機器に送出する回路とを具備し、
上記電子機器には、自電源の状態を監視する第２の電源監視回路と、同第２の電源監視回路の出力信号と上記接続口より受けた第１の電源監視回路の出力信号とを受けて、上記第１，第２の電源監視回路の少なくともいずれかの出力信号が電源異常状態を示したとき、内部動作を停止制御する回路とを具備してなることを特徴とする拡張システム。
【請求項２】　電子機器には、接続口より受けた第１の電源監視回路の出力信号が電源異常状態を示したとき、特定状態となり、同状態を第２の電源監視回路の出力信号が変化するまで、又は自機器内で特定の信号が出力されるまで保持する保持回路を有して、同保持回路の特定状態時の出力信号により内部動作を停止制御する請求項１記載の拡張システム。
【発明の詳細な説明】
【０００１】
【産業上の利用分野】本発明は、特定の機能をもつ小型電子機器と、同電子機器の接続口を有し、同接続口に接続された電子機器の機能を拡張する機能拡張装置とでなる拡張システムに係り、特に、商用交流電源（ＡＣ電源）を一次電源とする特定のデータ処理機能をもつ電子機器と機能拡張装置とが互いに独立した電源を持つ拡張システムに於いて、機能拡張装置の電源異常に伴う電子機器側の誤動作を回避した拡張システムに関する。
【０００２】
【従来の技術】近年、搬送の容易な小型電子機器として、ラップトップタイプ、ブックタイプ等のポータブルコンピュータが広く普及している。
【０００３】この種のポータブルコンピュータは、可搬性を重視することから、コンピュータ本体の機能を必要最小限にとどめ、同コンピュータ本体を別に用意された機能拡張装置に接続することよって機能を拡張できるようにしたシステム構成が採られる。
【０００４】このように、コンピュータ本体と機能拡張装置が互いに独立した電源をもつ拡張システムに於いては、従来、誤操作あるいは故障等で機能拡張装置側の電源に異常が発生すると、コンピュータ本体がその状態を認識できず、誤動作を招いたり、ハングアップしてしまうという不都合が生じる。
【０００５】特に、商用交流電源（例えばAC100v）を一次電源とするパーソナルコンピュータ等の小型電子機器に於いては、比較的安定した単一の一次電源をから二次電源を得ることから、高度の電源監視機能を必要とせず、一般に、マイクロプロセッサを用いたインテリジェントパワーサプライを備えていない。従って電源監視機能としては、リセットＩＣを用いた、電源の状態監視機能が備わっている程度である。
【０００６】このようなコンピュータ本体を別電源で動作する機能拡張装置に接続したとき、機能拡張装置側の電源に異常が発生すると、その電源異常に伴って、コンピュータ本体が誤動作を招き、極端な場合はハングアップ状態に陥るという不都合が生じる。
【０００７】
【発明が解決しようとする課題】上述したように従来では、インテリジェントパワーサプライを備えていないコンピュータ本体と機能拡張装置が互いに独立した電源をもつ拡張システムに於いて、機能拡張装置側の電源に異常が発生すると、その電源異常に伴って、コンピュータ本体が誤動作を招き、極端な場合はハングアップ状態に陥るという不都合が生じていた。
【０００８】本発明は上記実情に鑑みなされたもので、インテリジェントパワーサプライを備えていない電子機器と機能拡張装置が互いに独立した電源をもつ拡張システムに於いて、電子機器と機能拡張装置に簡単なハードウェアを付加するのみで、機能拡張装置の電源異常に伴う電子機器の誤動作を防止することのできる拡張システムを提供することを目的とする。
【０００９】
【課題を解決するための手段】本発明は、商用交流電源を一次電源とする特定のデータ処理機能をもつ小型電子機器と、同電子機器の接続口を有し、同接続口に接続された電子機器の機能を拡張する機能拡張装置とでなる、それぞれが独立した電源装置をもつ拡張システムに於いて、上記機能拡張装置に、自電源の状態を監視する例えばリセットＩＣを用いた第１の電源監視回路と、同監視回路の出力信号を上記接続口を介して上記電子機器に送出する回路とを具備し、上記電子機器に、自電源の状態を監視する例えばリセットＩＣを用いた第２の電源監視回路と、同第２の電源監視回路の出力信号と上記接続口より受けた第１の電源監視回路の出力信号とを受けて、上記各電源監視回路の少なくともいずれかの出力信号が電源異常状態を示したとき、内部にリセットをかけるリセット制御回路とを備えてなることを特徴とする。
【００１０】
【作用】機能拡張装置の電源に異常が発生すると、第１の電源監視回路より出力される電源異常を示す監視状態信号が、接続口を介して電子機器のリセット制御回路に入力される。電子機器のリセット制御回路は上記第１の電源監視回路より電源異常を示す監視状態信号を受けると、内部に強制リセットをかけて処理動作を停止する。これにより、機能拡張装置の電源異常に伴う電子機器の

誤動作を防止することができる。

【００１１】

【実施例】以下図面を参照して本発明の一実施例を説明する。図１は本発明の実施例の構成を示すブロック図である。

【００１２】図に於いて、１は機能拡張の対象となる特定の機能をもつ小型電子機器であり、ここでは、商用交流電源（例えばAC100v）を一次電源とするパーソナルコンピュータ（以下ＰＣ本体と称す）を例に挙げる。

【００１３】２は上記ＰＣ本体１を接続可能とする接続口をもち、接続されたＰＣ本体１をホストマシンとして、図示しない実装拡張機器類による機能拡張を実現する機能拡張装置（機能拡張ユニット）である。

【００１４】１１乃至１３はそれぞれＰＣ本体１の構成要素をなすもので、１１はＰＣ本体１の電源部（ＰＳ）であり、外部の商用交流電源（例えばAC100v）を一次電源として、内部動作用の各種二次電源を生成し各種のシステムコンポーネントに供給する。

【００１５】１２は自装置内の電源状態を監視する電源監視回路であり、ここでは既存のリセットＩＣ（Ｒ－ＩＣ）を用い、電源部（ＰＳ）１１の二次電源電圧となる、Ｖcc電圧（＋５ｖ）の状態に従う電源監視信号Daを出力する。具体的には、Ｖcc電圧が所定の電圧（例えば＋４．５ｖ）以上になると、“High”（“１”）レベルとなり、４．５ｖ以下になると、“Low ”（“０”）レベルとなる。

【００１６】１３は自装置（ＰＣ本体１）内のリセットＩＣ（Ｒ－ＩＣ）１２から出力される電源監視信号Daと、機能拡張装置２内のリセットＩＣ（Ｒ－ＩＣ）２２から出力される電源監視信号Db とを受けて、内部リセット制御信号ＳＲを生成するリセット制御回路（ＣＣ）であり、その内部の回路構成は図２に示される。

【００１７】２１、及び２２はそれぞれ機能拡張装置２の構成要素をなすもので、２１は機能拡張装置２の電源部（ＰＳ）であり、外部の商用交流電源（例えばAC100v）を一次電源として、内部動作用の各種二次電源を生成し、同電源を拡張スロットを含む各のコンポーネントに供給する。

【００１８】２２は機能拡張装置２内の電源状態を監視する電源監視回路であり、既存のリセットＩＣ（Ｒ－ＩＣ）を用い、電源部（ＰＳ）２１の所定の二次電源電圧に従う電源監視信号Db を出力するもので、ここでは上記したＰＣ本体１内のリセットＩＣ（Ｒ－ＩＣ）１２と同様に、内部回路動作用電圧（定格＋５ｖ）が＋４．５ｖ以上になると、“High”（“１”）レベルとなり、＋４．５ｖ以下になると、“Low ”（“０”）レベルとなるものとする。この電源監視信号Db はＰＣ本体１の接続口となるコネクタを介して、ＰＣ本体１内のリセット制御回路（ＣＣ）１３に供給される。

【００１９】図２は上記リセット制御回路（ＣＣ）１３の回路構成を示す図であり、ここではフリップフロップ３０を主構成要素として実現される。上記フリップフロップ３０は、機能拡張装置２内のリセットＩＣ（Ｒ－ＩＣ）２２から出力される電源監視信号Db が、電源正常状態を示す“High”（“１”）レベルから、電源異常状態を示す“Low ”（“０”）レベルに変化すると、その状態を保持して、“Low ”（“０”）レベルのリセット制御信号ＳＲを出力し、同信号（ＳＲ＝“０”）を有意リセット信号として内部の所定回路がリセットされ、ＰＣ本体１の処理動作が停止する。

【００２０】このフリップフロップ３０の状態は、ＰＣ本体１の電源遮断時に、自装置内のリセットＩＣ（Ｒ－ＩＣ）１２から出力される電源監視信号Da が、“High”（“１”）レベルから、“Low ”（“０”）レベルに変化するまで、保持され、その間に機能拡張装置２内のリセットＩＣ（Ｒ－ＩＣ）２２から電源正常を示す“High”（“１”）レベルに復帰しても上記フリップフロップ３０の状態（ＳＲ＝“０”）は変化しない。ここで上記各図を参照して本発明の一実施例に於ける動作を説明する。

【００２１】機能拡張装置２が電源オン状態にあるとき、機能拡張装置２の電源部（ＰＳ）２１は、外部の商用交流電源（AC100v）を一次電源として、内部動作用の各種二次電源を生成し、拡張スロットを含めた機能拡張装置２内の各部に必要な電源を供給する。

【００２２】機能拡張装置２内のリセットＩＣ（Ｒ－ＩＣ）２２は、上記電源部（ＰＳ）２１より出力される内部回路動作用電圧（定格＋５ｖ）を監視し、同電圧が＋４．５ｖ以上になると、“High”（“１”）レベルの電源監視信号Db をコネクタを介して、ＰＣ本体１のリセット制御回路（ＣＣ）１３に出力する。又、上記内部回路動作用電圧が＋４．５ｖ以下になると、“Low ”（“０”）レベルの電源監視信号Db をコネクタを介して、ＰＣ本体１のリセット制御回路（ＣＣ）１３に出力する。

【００２３】一方、ＰＣ本体１の電源部（ＰＳ）１１は、電源オン状態にあるとき、外部の商用交流電源（AC100v）を一次電源として、内部動作用の各種二次電源を生成し各種のシステムコンポーネントに供給する。

【００２４】ＰＣ本体１内のリセットＩＣ（Ｒ－ＩＣ）１２は、上記電源部（ＰＳ）１１より出力されるＶcc電圧（＋５ｖ）を監視し、同電圧が＋４．５ｖ以上になると、“High”（“１”）レベルの電源監視信号Da を自装置内のリセット制御回路（ＣＣ）１３に出力する。又、＋４．５ｖ以下になると、“Low ”（“０”）レベルの電源監視信号Db を同じくリセット制御回路（ＣＣ）１３に出力する。

【００２５】リセット制御回路（ＣＣ）１３は、上記各リセットＩＣ（Ｒ－ＩＣ）１２，２２の各電源監視信号Da ，Db のうち、少なくともいずれか一方の信号が

電源異常を示す“Low ”（“０”）レベルになると、“Low ”（“０”）レベルの内部リセット制御信号ＳＲを出力し、同信号（ＳＲ＝“０”）を有意リセット信号として内部の所定回路がリセット制御される。

【００２６】即ち、リセット制御回路（ＣＣ）１３のフリップフロップ３０は、機能拡張装置２内のリセットＩＣ（Ｒ－ＩＣ）２２から出力される電源監視信号Ｄｂが、電源正常を示す“High”（“１”）レベルから、電源異常を示す“Low ”（“０”）レベルに変化すると、その状態を保持して、“Low ”（“０”）レベルのリセット制御信号ＳＲを出力し、同信号（ＳＲ＝“０”）によって内部の所定回路にリセットをかけ、ＰＣ本体１の処理動作を停止する。

【００２７】このフリップフロップ３０の状態は、ＰＣ本体１の電源が遮断されて、自装置内のリセットＩＣ（Ｒ－ＩＣ）１２から出力される電源監視信号Ｄａが、“High”（“１”）レベルから、“Low ”（“０”）レベルに変化するまで保持され、その間に機能拡張装置２内のリセットＩＣ（Ｒ－ＩＣ）２２から電源正常を示す“High”（“１”）レベルに復帰しても上記フリップフロップ３０の状態は変化しない。

【００２８】このように、機能拡張装置２側の電源に異常が発生すると、ＰＣ本体１内のリセット制御回路（ＣＣ）１３よりリセット信号（ＳＲ＝“０”）が出力されて、装置内部にリセットがかけられ、ＰＣ本体１の処理動作が停止することから、その電源異常に伴って、ＰＣ本体１が誤動作を招く不都合を回避できる。尚、上記実施例では、機能拡張の対象機器としてパーソナルコンピュータを例にとったが、他の電気・電子機器を対象とした拡張システムにも適用できる。

【００２９】

【発明の効果】以上詳記したように本発明によれば、商用交流電源を一次電源とする特定のデータ処理機能をもつ小型電子機器と、同電子機器の接続口を有し、同接続口に接続された電子機器の機能を拡張する機能拡張装置とでなる、それぞれが独立した電源装置をもつ拡張システムに於いて、上記機能拡張装置に、自電源の状態を監視する第１の電源監視回路と、同監視回路の出力信号を上記接続口を介して上記電子機器に送出する回路とを具備し、上記電子機器に、自電源の状態を監視する第２の電源監視回路と、同第２の電源監視回路の出力信号と上記接続口より受けた第１の電源監視回路の出力信号とを受けて、上記各電源監視回路の少なくともいずれかの出力信号が電源異常状態を示したとき、内部にリセットをかけるリセット制御回路とを備えてなる構成としたことにより、簡単な回路を付加するのみで機能拡張装置の電源異常に伴う電子機器の誤動作を防止することができる。

【図面の簡単な説明】

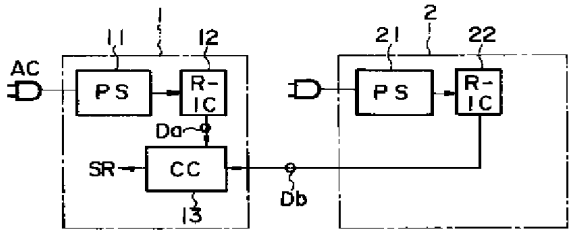
【図１】本発明の一実施例の構成を示すブロック図。

【図２】上記実施例に於けるリセット制御回路の構成を示すブロック図。

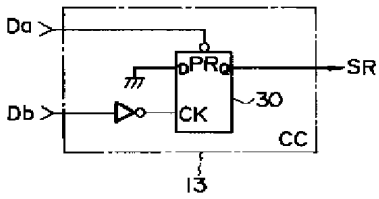
【符号の説明】

１…小型電子機器（ＰＣ本体）、２…機能拡張装置（機能拡張ユニット）、１１，２１…電源部（ＰＳ）、１２，２２…リセットＩＣ（Ｒ－ＩＣ）、１３…リセット制御回路（ＣＣ）、３０…フリップフロップ、Ｄａ，Ｄｂ…電源監視信号、ＳＲ…内部リセット制御信号。

【図１】



【図２】



Electronic Patent Application Fee Transmittal

Application Number:	14876276
Filing Date:	06-Oct-2015
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Filer:	Michael V. Messinger/Ann-Marie Edelin
Attorney Docket Number:	3421.005000C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
PETITION FEE- 37 CFR 1.17(H) (GROUP III)	1464	1	140	140
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1700	1700
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1840**

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Decision Date : February 7, 2017

In re Application of :

James FALLON

DECISION ON PETITION

UNDER CFR 1.313(c)(2)

Application No : 14876276

Filed : 06-Oct-2015

Attorney Docket No : 3421.005000C

This is an electronic decision on the petition under 37 CFR 1.313(c)(2), filed February 7, 2017 , to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED.**

The above-identified application is withdrawn from issue for consideration of a submission under 37 CFR 1.114 (request for continued examination). See 37 CFR 1.313(c)(2).

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

This application file is being referred to Technology Center AU 2634 for processing of the request for continuing examination under 37 CFR 1.114 .

Office of Petitions

Electronic Acknowledgement Receipt

EFS ID:	28282567
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger/Ann-Marie Edelin
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	3421.005000C
Receipt Date:	07-FEB-2017
Filing Date:	06-OCT-2015
Time Stamp:	15:43:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1840
RAM confirmation Number	020817INTEFSW15434100
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition automatically granted by EFS	petition-request.pdf	31433 5ceb0bf1a1e06f35aac09feb8ca255d13f521658	no	2
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	3421005000CRCE.pdf	697801 d23e92234ec32b40caab47c4dbb8e259f10e731e	no	3
Warnings:					
Information:					
3		3421005000CWithdraw.pdf	9397463 1950771afbed14a29813a7126e046fc220b53695	yes	16

Multipart Description/PDF files in .zip description

Document Description	Start	End
Transmittal Letter	1	2
Transmittal Letter	3	12
Information Disclosure Statement (IDS) Form (SB08)	13	16

Warnings:					
Information:					
4	Foreign Reference	FP2_JP05088793A.PDF	399807 e7f6dd8a2166190e6cda013b4aa4396c75363c2b	no	4
Warnings:					
Information:					
5	Non Patent Literature	NPL10_NFOA14530974_12222016.PDF	640360 64b27572633700517f11c4b4bb5863553c902039	no	20

Warnings:					
Information:					
6	Non Patent Literature	NPL11_NOA14727309_11162016.PDF	476900 db440b106ee5b977de751c9012e7109310c2897f	no	9
Warnings:					
Information:					
7	Non Patent Literature	NPL12_NFOA14936312_01192017.PDF	458460 2352d8fdb42bfcc15addd7cabed3a88548e929e0	no	13
Warnings:					
Information:					
8	Non Patent Literature	NPL13_NFOA13875884_11102016.PDF	276813 47f68fefa343a173f26a3768338a01612be4df97	no	7
Warnings:					
Information:					
9	Non Patent Literature	NPL26_EngTranslationofJP05088793.PDF	311358 e604eba1c9284895bc9cd582b73cdaeeb36fb5f8	no	7
Warnings:					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	32230 af1ab4b6f0ce6694dfbf70954c45807062f75fa3	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	12722625	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: PET.AUTO Document Description: Petition automatically granted by EFS-Web	PTO/SB/140 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)**
Application Number	14876276
Filing Date	06-Oct-2015
First Named Inventor	James FALLON
Art Unit	2634
Examiner Name	TESFALDET BOCURE
Attorney Docket Number	3421.005000C
Title	Video Data Compression Systems

An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary.

APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c).

A grantable petition requires the following items:
(1) Petition fee; and
(2) One of the following reasons:
(a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable;
(b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or
(c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).

Petition Fee

- ○ Small Entity
- ○ Micro Entity
- ◉ Regular Undiscounted

Reason for withdrawal from issue

◯ One or more claims are unpatentable ◉ Consideration of a request for continued examination (RCE) (List of Required Documents and Fees) ◯ Applicant hereby expressly abandons the instant application (any attorney/agent signing for this reason must have power of attorney pursuant to 37 CFR 1.32(b)).
RCE request,submission, and fee. ☐ I certify, in accordance with 37 CFR 1.4(d)(4) that : The RCE request ,submission, and fee have already been filed in the above-identified application on ☒ Are attached.
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ◉ An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application. ◯ An attorney or agent registered to practice before the Patent and Trademark Office, acting in a representative capacity. ◯ A sole inventor ◯ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ◯ A joint inventor; all of whom are signing this e-petition

Signature	/Michael Messinger/
Name	Michael V. Messinger
Registration Number	37575

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

CPC- SEARCHED

Symbol	Date	Examiner
((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((G06F15/7867)) | ((G06T1/60)) | ((H04N19/136).CPC.)	01/22/2016	TB
((H03M7/30)) | ((H03M7/3059)) | ((H03M7/3093)) | ((H04L69/04)) | ((H04N19/152)) | ((H04N9/8042).CPC.)	01/22/2016	TB
((H03M7/30 | H03M7/3059 | H03M7/3084 | H03M7/6094 | H03M7/3088 | H03M7/6023 | H03M7/6064 | H04N19/152 | G11B20/00007).CPC.)	01/23/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC.	04/17/2016	TB
CPC Updated, see WEST search result for search strategy.	04/18/2016	TB
CPC Updated, see WEST search result for search strategy.	05/29/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC. Updated	08/05/2016	TB
CPC Updated, see WEST search result for search strategy.	10/16/2016	TB
CPC Updated, see WEST search result for search strategy.	12/08/2016	TB
CPC Updated, see WEST search result for search strategy.	01/31/2017	TB

CPC COMBINATION SETS - SEARCHED

Symbol	Date	Examiner

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
375	240, 240.01, 240.02	01/22/2016	TB
341	50, 51, 126	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search ALL ($8.ccls.), See WEST Search for terms used with the clases	01/22/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	01/23/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	04/17/2016 & 04/18/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	05/29/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated, See WEST Search	08/05/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	10/16/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	12/08/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	01/31/2017	TB

SEARCH NOTES

Search Notes	Date	Examiner
WEST and Inventor's Name Searched	01/22/2016	TB
See Realted parent application 14/733,565 for further presecution History	01/22/2016	TB
WEST Search Updated	01/23/2016	TB
WEST Search Updated	04/17/2016	TB
WEST Search Updated	04/18/2016	TB
WEST Search Updated	05/29/2016	TB
WEST Search Updated	08/05/2016	TB
WEST Search Updated	10/16/2016	TB
WEST Search Updated	12/08/2016	TB
WEST Search Updated	01/31/2017	TB

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
375	240, 240.1	04/18/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	04/18/2016	TB
375	240, 240.1	05/29/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	05/29/2016	TB
375	240, 240.1	08/05/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	08/05/2016	TB
375	240, 240.1	10/16/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	10/16/2016	TB
375	240, 240.1	12/08/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	12/08/2016	TB
375	240, 240.1	01/31/2017	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	01/31/2017	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

CPC								
Symbol							**Type**	**Version**
H04N		19	/	103			F	2014-11-01
H04N		19	/	164			I	2014-11-01
H04N		19	/	176			I	2014-11-01
H03M		7	/	30			I	2013-01-01
H03M		7	/	3084			I	2013-01-01
H03M		7	/	6094			I	2013-01-01
			/					
			/					
			/					
			/					
			/					
			/					
			/					
			/					
			/					

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	01/31/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No. 20170131

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
375	240.1	H	0	4	N	7 / 12 (2006.01.01)						

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	01/31/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

☒ **Claims renumbered in the same order as presented by applicant** ☐ **CPA** ☐ **T.D.** ☐ **R.1.47**

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	17												
2	2	18	18												
3	3	19	19												
4	4	20	20												
5	5	21	21												
6	6	22	22												
7	7	23	23												
8	8	24	24												
9	9	25	25												
10	10	26	26												
11	11	27	27												
12	12	28	28												
13	13	29	29												
14	14	30	30												
15	15														
16	16														

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	01/31/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	01/23/2016	04/18/2016	05/29/2016	08/05/2016	10/17/2016	12/08/2016	01/31/2017		
1	1	✓	=	=	=	=	=	=		
2	2	✓	=	=	=	=	=	=		
3	3	✓	=	=	=	=	=	=		
4	4	✓	=	=	=	=	=	=		
5	5	✓	=	=	=	=	=	=		
6	6	✓	=	=	=	=	=	=		
7	7	✓	=	=	=	=	=	=		
8	8	✓	=	=	=	=	=	=		
9	9	✓	=	=	=	=	=	=		
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11	11	✓	=	=	=	=	=	=		
12	12	✓	=	=	=	=	=	=		
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25	25	✓	=	=	=	=	=	=		
26	26	✓	=	=	=	=	=	=		
27	27	✓	=	=	=	=	=	=		
28	28	✓	=	=	=	=	=	=		
29	29	✓	=	=	=	=	=	=		
30	30	✓	=	=	=	=	=	=		

OK TO ENTER: /T.B/
/T.B/ (01/31/2017)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*
Applicant: Realtime Data LLC
Application No.: 14/876,276
Filing Date: October 6, 2015
Title: **Video Data Compression Systems**

Confirmation No.: 3403
Art Unit: 2634
Examiner: BOCURE, Tesfaldet
Atty. Docket: 3421.005000C

Amendment Under 37 C.F.R. § 1.312

Mail Stop Issue Fee

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Submitted herein is an Amendment Under 37 C.F.R. § 1.312. As payment of the issue fee has not yet been made or is filed herewith, Applicant respectfully submits that filing under 37 C.F.R. § 1.312 is proper. (M.P.E.P. § 714.16.)

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks and Arguments begin on page 9 of this paper.

It is not believed that extensions of time are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

26111 7590 02/08/2017

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER
BOCURE, TESFALDET

ART UNIT	PAPER NUMBER
2634	

MAIL DATE	DELIVERY MODE
02/08/2017	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Supplemental Notice of Allowability	Application No. 14/876,276	Applicant(s) FALLON ET AL.	
	Examiner TESFALDET BOCURE	Art Unit 2634	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *QPIDS and Amendment after Allowance received 11/23/2016*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-30*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☒ Other *A.NE Under 312 Amendment*.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.

2. This office action (Corrected/Supplemental Notice of Allowance) is in response to the QPIDS and the amendment after allowance received on 11/23/2016 and the pending claims 1-30 are allowed.

Information Disclosure Statement

3. In response to the Information Disclosure statements (IDSs) ***after Allowance and before the payment of issue fee***[1] received on 11/23/2016 (two IDSs received on the same date), the following action has been taken:

THE PRESECUTION OF THIS CASE IS CLOSED AS OF THE DATE THE NOTICE OF ALLOWANCE WAS MAILED ON 10/20/2016.

The information disclosure statements (IDSs) submitted on 11/23/2016 complies with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. Attached with this correspondence is the initialed copy of the IDS.

[1] Note that the issue fee was paid at the same date the QPIDS was filed and is considered as before issue fee is paid.
For some reason Examiner is unaware of, the case has been brought to his attention that the IDSs of 11/23/2016 and Amendment after final not considered. Therefore, Examiner is resubmitting for the second time the considered IDSs of 11/23/2016 and after allowance amendment under Rule 312.

Response to Amendment under Rule 312

4. The amendment after allowance under rule 312 received on 01/23/2017 to correct minor informalities in claims 2, 6 and 29 has been entered.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TESFALDET BOCURE whose telephone number is (571)272-3015. The examiner can normally be reached on Mon-Th, 8:30-6:00 and 8:30-5:00 2nd Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DANIEL C. WASHBURN can be reached on (571)272-5551. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

/T. B./
Primary Examiner, Art Unit 2634

WEST Search History for Application 14876276

Creation Date: 2017013112:33

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((Fallen adj James).in. or (McErlain adj Stephen).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	48	OR	YES		01-31-2017
((Fallen).in. or (McErlain).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	182	OR	YES		01-31-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		01-31-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	77	OR	YES		01-31-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and @ad<=20010213	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		01-31-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2	PGPB, USPT, USOC,	38	OR	YES		01-31-2017

ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))	EPAB, JPAB, DWPI, TDBD					
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	37	OR	YES		01-31-2017
(selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	26	OR	YES		01-31-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric $4near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6326	OR	YES		01-31-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric$4 near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		01-31-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same ((fast near4 slow) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		01-31-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	32	OR	YES		01-31-2017

((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30)))))) | ((((((H03M7/3084)))))) | ((((((H03M7/6094)))))) | ((((((G06F15/7867)))))) | ((((((G06T1/60)))))) | ((((((H04N19/136))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	22	OR	YES		01-31-2017
(((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30)))))) | ((((((H03M7/3059)))))) | ((((((H03M7/3093)))))) | ((((((H04L69/04)))))) | ((((((H04N19/152)))))) | ((((((H04N9/8042))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		01-31-2017
("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		01-31-2017
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1274163	OR	YES		01-31-2017
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		01-31-2017

same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))						
((((((375/240))))).ccls. or ((((((375/240.01))))).ccls. or ((((((375/240.02))))).ccls. or ((((((341/50))))).ccls. or ((((((341/51))))).ccls. or ((((((341/126))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		01-31-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		01-31-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	91	OR	YES		01-31-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing)	PGPB, USPT, USOC, EPAB, JPAB,	50	OR	YES		01-31-2017

near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/240))))).ccls. or (((((375/240.01))))).ccls. or (((((375/240.02))))).ccls. or (((((341/50))))).ccls. or (((((341/51))))).ccls. or (((((341/126))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	DWPI, TDBD					
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		01-31-2017

(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((H03M7/30)))) | ((((H03M7/3059)))) | ((((H03M7/3084)))) | ((((H03M7/6094)))) | ((((H03M7/3088)))) | ((((H03M7/6023)))) | ((((H03M7/6064)))) | ((((H04N19/152)))) | ((((G11B20/00007))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	69	OR	YES		01-31-2017
("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	68	OR	YES		01-31-2017
(("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		01-31-2017

or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))						
("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	75	OR	YES		01-31-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((H03M7/30))) | (((H03M7/3084))) | (((H03M7/6094))) | (((H04N19/164))) | HO4N19/176 | (((H04N19/103))))).CPC.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	63	OR	YES		01-31-2017
("20160127512" | "20160127513" | "5479638" | "5771354").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		01-31-2017
20130297575	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	2	OR	YES		01-31-2017

	TDBD					
20160261278	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		01-31-2017

Substitute for form 1449/PTO

NINTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, TESFALDET
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/T.B/	US1	2016/0261278 A1	09-08-2016	Fallon	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

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Examiner Signature	/TESFALDET BOCURE/	Date Considered	01/31/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				Complete if Known	
NINTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, TESFALDET
Sheet	1	of	2	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Rackspace US Inc.'s Answer to Amended Complaint, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.,* Case No. 6:16-cv-961 (E.D. Texas), filed October 25, 2016; 39 pages.	
	NPL2	NetApp, Inc.'s and Solidfire, LLC's Answer to Amended Complaint, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.,* Case No. 6:16-cv-961 (E.D. Texas), filed October 28, 2016; 66 pages.	
	NPL3	Petition for *Inter Partes* Review of U.S. Patent No. 8,880,862, filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2017-00108 (P.T.A.B.), filed October 24, 2016; 72 pages.	
	NPL4	Declaration of Dr. James A. Storer, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2017-00108 (P.T.A.B.), filed October 24, 2016; 107 pages.	
	NPL5	Decision Granting Institution of *Inter Partes* Review, filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed November 1, 2016; 21 pages.	
	NPL6	Decision Institution of *Inter Partes* Review, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC*, Case No. IPR2016-00978 (P.T.A.B.), filed November 1, 2016; 31 pages.	
	NPL7	Decision Institution of *Inter Partes* Review, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC*, Case No. IPR2016-00980 (P.T.A.B.), filed November 1, 2016; 29 pages.	
	NPL8	Petition for Inter Partes Review of U.S. Patent No. 6,597,812 to Fallon, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2017-00167 (P.T.A.B.), filed November 2, 2016; 65 pages.	
	NPL9	Declaration of Professor James A. Storer, Ph.D, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2017-00167 (P.T.A.B.), filed November 2, 2016; 93 pages.	
NON PATENT LITERATURE DOCUMENTS			

Examiner Signature	/TESFALDET BOCURE/	Date Considered	01/31/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Substitute for form 1449/PTO				*Complete if Known*	
NINTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, TESFALDET
Sheet	2	of	2	Attorney Docket Number	3421.005000C

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL10	Petition for Inter Partes Review of U.S. Patent No. 6,597,812 to Fallon, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2017-00168 (P.T.A.B.), filed November 2, 2016; 84 pages.	
	NPL11	Declaration of Professor James A. Storer, Ph.D, filed in Oracle America, Inc. v. Realtime Data LLC, Case No. IPR2017-00168 (P.T.A.B.), filed November 2, 2016; 111 pages.	
	NPL12	Decision Institution of Inter Partes Review, filed in Dell, Inc. et al. v. Realtime Data LLC, Case No. IPR2016-01002 (P.T.A.B.), filed November 4, 2016; 19 pages.	

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Examiner Signature	/TESFALDET BOCURE/	Date Considered	01/31/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

26111 7590 02/23/2017

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER
BOCURE, TESFALDET

ART UNIT	PAPER NUMBER
2634	

DATE MAILED: 02/23/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: Video Data Compression Systems

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$960	$960	05/23/2017

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

26111 7590 02/23/2017
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: Video Data Compression Systems

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$960	$960	05/23/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
BOCURE, TESFALDET	2634	375-240100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 (Part B) (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

26111 7590 02/23/2017

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER	
BOCURE, TESFALDET	

ART UNIT	PAPER NUMBER
2634	

DATE MAILED: 02/23/2017

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/876,276	Applicant(s) FALLON ET AL.	
	Examiner TESFALDET BOCURE	Art Unit 2634	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *IDS and RCE filed on 02/07/2017*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-30*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.

2. This office action (Notice of Allowance) is in response to the IDS and RCE filed on 02/07/2017. The pending claims 1-30 are now allowed.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 02/07/2017has been entered.

Information Disclosure Statement

4. The information disclosure statements (IDS) submitted on 02/07/2017 (two IDSs filed on the same date are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. Attached with this correspondence are the initialed copies of the IDSs.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TESFALDET BOCURE whose telephone number is (571)272-3015. The examiner can normally be reached on 8:30am-to-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel C. Washburn can be reached on 571-272-5551. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

/T. B./
Primary Examiner, Art Unit 2634

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*	Confirmation No.: 3403
Applicant: Realtime Data LLC	Art Unit: 2634
Application No.: 14/876,276	Examiner: BOCURE, Tesfaldet
Filing Date: October 6, 2015	Atty. Docket: 3421.005000C

Title: **Video Data Compression Systems**

Tenth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

/TESFALDET BOCURE/ 02/18/2017

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Inter Partes Reexamination Certificate issued 08/01/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be provided to the Examiner upon request.

/TESFALDET BOCURE/ 02/18/2017

Atty. Dkt. No. 3421.005000C

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00373	7,378,992	Petitioner Reply filed 2/2/2017
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00374	8,643,513	Petitioner Reply filed 2/2/2017
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00375	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00376	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00377	9,116,908	Institution Denied 7/1/2016
SAP America Inc., et al. v. Realtime Data, LLC d/b/a IXO, IPR2016-00783	6,597,812	Patent Owner Response filed 1/5/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00878	7,415,530	Dismissed 6/21/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00972	7,415,530	Instituted 11/2/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00978	8,643,513	Instituted 11/2/2016
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00980	7,378,992	Instituted 11/2/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-01002	9,116,908	Instituted 11/2/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01365	7,181,608	Instituted 01/18/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01366	8,090,936	Instituted 01/12/2017
Oracle America Inc. v. Realtime Data LLC, IPR2016-01671	7,415,530	Filed 9/6/2016
Oracle America Inc. v. Realtime Data LLC, IPR2016-01672	9,116,908	Filed 9/6/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01737	8,880,862	Patent Owner's Preliminary Response filed 12/16/2016

/TESFALDET BOCURE/ 02/18/2017

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Proceeding	Patent	Status
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01738	8,880,862	Patent Owner's Preliminary Response filed 12/22/2016
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01739	8,880,862	Patent Owner's Preliminary Response filed 12/16/2016
Oracle America Inc. v. Realtime Data LLC, IPR2017-00108	9,054,728	Filed 10/24/2016
Oracle America Inc. v. Realtime Data LLC, IPR2017-00167	6,597,812	Filed 11/2/2016
Oracle America Inc. v. Realtime Data LLC, IPR2017-00168	6,597,812	Filed 11/2/2016
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00176	7,161,506	Filed 11/14/2016
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00179	9,054,728	Filed 11/14/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00364	9,116,908	Filed 11/30/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00365	7,415,530	Filed 11/30/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00366	8,643,513	Filed 11/30/2016
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00557	7,358,867	Filed 12/30/2016
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00806	7,161,506	Filed 1/30/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00808	9,054,728	Filed 1/30/2017

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **FP1,** and **NPL14-NPL25.**

Notice of Related Litigation

/TESFALDET BOCURE/ 02/18/2017

Atty. Dkt. No. 3421.005000C

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3

/TESFALDET BOCURE/

02/18/2017
Atty. Dkt. No. 3421.005000C

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

No.	Case	Status
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed 5/1/2015
12	*Realtime Data, LLC d/b/a IXO v. Actian Corporation, et al.*, No. 6:15-cv-00463 (E.D. Texas)	Order denying Motion to Stay 11/29/2016
13	*Realtime Data, LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed 2/22/2016
14	*Realtime Data, LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12
15	*Realtime Data, LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12
16	*Realtime Data, LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated 10/5/ 2015
17	*Realtime Data, LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22
18	*Realtime Data, LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 5:16-cv-01836 (N.D. Cal.) (formerly no. 6:15-cv-00470 (E.D. Texas))	Case dismissed 5/18/2016
20	*Realtime Data, LLC d/b/a IXO v. Apple Inc.*, No. 6:15-cv-00885 (E.D. Texas)	Transferred to the Northern District of California, 5/11/2016
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Order granting Motion to Construe terms 1/11/2017
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Order denying Motion to Supplement Infringement Contentions 12/14/2016
23	*Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al.*, No. 6:16-cv-00087 (E.D. Texas)	Order granting Motion to Construe terms 1/11/2017
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Order granting Motion to Construe terms 1/11/2017
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Order modifying Markman Procedure 12/7/2016
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Notice by Quantum Co. of Compliance 1/18/2017
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Consolidated with Case No. 26

/TESFALDET BOCURE/

02/18/2017

Atty. Dkt. No. 3421.005000C

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

No.	Case	Status
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Consolidated with Case No. 26

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action

/TESFALDET BOCURE/ 02/18/2017

 L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

A concise explanation of the relevance of the non-English language document(s) appears below in accordance with 37 C.F.R. § 1.98(a)(3).

Document **NPL26** is submitted herewith as an English-translation of **FP2** (JP 05088793 A).

Copies of documents **FP2, NPL10-NPL13** and **NPL26** are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copy of U.S. patent cited as document **US1** on the attached IDS Form is submitted.

Copies of the **FP1, NPL1-NPL9, NPL14-NPL25** documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 14/733,565, filed June 8, 2015 (now pending), which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is expected that the examiner will review the prosecution and cited art in the parent application nos. 14/733,565, filed June 8, 2015 (now pending); 14/577,286, filed December 19, 2014 (now abandoned); 14/134,933, filed December 19, 2013 (now U.S. Patent No. 8,929,442); 14/033,245, filed September 20, 2013 (now U.S. Patent No. 8,934,535); 13/154,239, filed June 6, 2011 (now U.S. Patent No. 8,553,759); 12/123,081, filed May 19, 2008 (now U.S. Patent No. 8,073,047); and 10/076,013, filed February 13, 2002 (now U.S. Patent No. 7,386,046), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

/TESFALDET BOCURE/ 02/18/2017

Atty. Dkt. No. 3421.005000C

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

In accordance with the Federal Circuit decision in *Dayco Prods., Inc. v. Total Containment, Inc.* 329 F.3d 1358 (Fed. Cir. 2003), Applicants submit herewith Office Actions from the following co-pending U.S. Patent Application Nos.:

Document **NPL10** is a copy of a Non-Final Office Action mailed December 22, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/530,974.

Document **NPL11** is a copy of a Notice of Allowance mailed November 16, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/727,309.

Document **NPL12** is a copy of a Non-Final Office Action mailed January 19, 2017in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 14/936,312.

Document **NPL13** is a copy of a Non-Final Office Action mailed November 10, 2016 in the prosecution of co-pending, commonly-assigned U.S. Patent Application No. 13/875,884.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

/TESFALDET BOCURE/ 02/18/2017

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: February 7, 2017

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

 L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Substitute for form 1449/PTO

TENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	6,868,500 B1	03-15-2005	Kutz et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP1	WO 2008/087466 A1	07-24-2008	Stefanov		
	FP2	JP 05088793 A	04-09-1993	Toshiba Corp.		T

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Examiner Signature	/TESFALDET BOCURE/	Date Considered	02/18/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must preeede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Substitute for form 1449/PTO				Complete if Known	
TENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	1	of	3	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Joint Claim Construction and Prehearing Statement, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 16-cv-02595-JD (N.D. California), filed January 6, 2017; 6 pages.	
	NPL2	Joint Claim Construction and Prehearing Statement Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 16-cv-02595-JD (N.D. California), filed January 6, 2017; 27 pages.	
	NPL3	Joint Claim Construction and Prehearing Statement Exhibit B, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 16-cv-02595-JD (N.D. California), filed January 6, 2017; 17 pages.	
	NPL4	Joint Claim Construction and Prehearing Statement Exhibit C, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 16-cv-02595-JD (N.D. California), filed January 6, 2017; 28 pages.	
	NPL5	Joint Claim Construction and Prehearing Statement, filed in *Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, Case No. 2:16-cv-02743-AG-FFM (C.D. California), filed January 24, 2017; 56 pages.	
	NPL6	Joint Claim Construction and Prehearing Statement with attached Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Hwelett Packard Enterprise Co. et al.*, Case No. 6:16-cv-00086-RWS-JDL (E.D. Texas), filed January 17, 2017; 46 pages.	
	NPL7	Joint Claim Construction and Prehearing Statement with attached Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Hwelett Packard Enterprise Co. et al.*, Case No. 6:16-cv-00087-RWS-JDL (E.D. Texas), filed January 17, 2017; 46 pages.	
	NPL8	Joint Claim Construction and Prehearing Statement with attached Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Hwelett Packard Enterprise Co. et al.*, Case No. 6:16-cv-00089-RWS-JDL (E.D. Texas), filed January 17, 2017; 46 pages.	
	NPL9	Complaint for Patent Infringement Against Oracle America, Inc., filed in Realtime Data d/b/a IXO v. Oracle America, Inc., Case No. 6:17-cv-00046 (E.D. Texas), filed January 23, 2017; 58 pages.	
	NPL10	Copy of Non-Final Office Action for U.S. Patent Application No. 14/530,974 mailed December 22, 2016; 20 pages.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	02/18/2017

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Substitute for form 1449/PTO				Complete if Known	
TENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	2	of	3	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL11	Copy of Notice of Allowance for U.S. Patent Application No. 14/727,309, mailed November 16, 2016; 9 pages.	
	NPL12	Copy of Non-Final Office Action for U.S. Patent Application No. 14/936,312 mailed January 19, 2017; 13 pages.	
	NPL13	Copy of Non-Final Office Action for U.S. Patent Application No. 13/875,884 mailed November 10, 2016; 7 pages.	
	NPL14	Defendants' Technology Tutorial Reference Book, filed in *Realtime Data LLC d/b/a IXO v. Actian Corporation, et al.*, Case No. 6:16-cv-00463-RWS-JDL (E.D. Texas), filed May 19 2016; 85 pages.	
	NPL15	Decision Granting Institution of *Inter Partes* Review, filed in *Apple, Inc. v. Realtime Data LLC*, Case No. IPR2016-01366 (P.T.A.B.), filed January 12, 2017; 17 pages.	
	NPL16	Internet Archive version of the web page http://www.faqs.org/faqs/compression-faq/part1/section-7.html, dated November 28, 1999, available at https://web.archive.org/web/19991128233045/http://www.faqs.org/faqs/compression-faq/part1/section-7.html; 14 pages.	
	NPL17	Declaration of Leonard Laub, filed in *Hewlett-Packard Enterprise Company et al. v. Realtime Data LLC d/b/a IXO*, Case No. IPR2016-00783 (P.T.A.B.), filed January 5, 2017; 96 pages.	
	NPL18	Petition for *Inter Partes* Review of U.S. Patent No. 7,358,867, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00557 (P.T.A.B.), filed December 30, 2016; 76 pages.	
	NPL19	Declaration of Charles D. Creusere, Ph.D., filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00557 (P.T.A.B.), filed December 30, 2016; 137 pages.	
	NPL20	Excerpt from McGraw-Hill Dictionary of Scientific and Technical Terms, Fifth Edition, McGraw-Hill 1994; p. 616.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	02/18/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

NPL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Substitute for form 1449/PTO				Complete if Known	
TENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	3	of	3	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL21	Excerpts from Microsoft Press Computer Dictionary, Third Edition, Microsoft Corporation 1997; pp. 71, 162, 485.	
	NPL22	Declaration of Scott Bennett, Ph.D., filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00557 (P.T.A.B.), filed December 30, 2016; 9 pages.	
	NPL23	Underwood, "Extensions of the UNIX File Command and Magic File for File Type Identification," Georgia Tech Research Institute 2009; 25 pages.	
	NPL24	AT&T UNIX System V User's Manual Volume I, AT&T 1986; 269 pages (submitted in three parts).	
	NPL25	FreeBSDGeneral Commands Manual, FreeBSD Man Pages 2000; 7 pages.	
	NPL26	English Translation copy of JP 05088793 A.	

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Examiner Signature	/TESFALDET BOCURE/	Date Considered	02/18/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

WEST Search History for Application 14876276

Creation Date: 2017022019:39

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((Fallen adj James).in. or (McErlain adj Stephen).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	47	OR	YES		02-20-2017
((Fallen).in. or (McErlain).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	181	OR	YES		02-20-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		02-20-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	77	OR	YES		02-20-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and @ad<=20010213	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		02-20-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2	PGPB, USPT, USOC,	37	OR	YES		02-20-2017

ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))	EPAB, JPAB, DWPI, TDBD					
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	OR	YES		02-20-2017
(selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	25	OR	YES		02-20-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric $4near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6344	OR	YES		02-20-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric$4 near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		02-20-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same ((fast near4 slow) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		02-20-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	33	OR	YES		02-20-2017

((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30))))))) | ((((((H03M7/3084)))))) | ((((((H03M7/6094)))))) | ((((((G06F15/7867)))))) | ((((((G06T1/60)))))) | ((((((H04N19/136))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	OR	YES		02-20-2017
(((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30))))))) | ((((((H03M7/3059)))))) | ((((((H03M7/3093)))))) | ((((((H04L69/04)))))) | ((((((H04N19/152)))))) | ((((((H04N9/8042))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	32	OR	YES		02-20-2017
("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		02-20-2017
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1276163	OR	YES		02-20-2017
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		02-20-2017

same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))						
((((((375/240))))).ccls. or (((((375/240.01))))).ccls. or (((((375/240.02))))).ccls. or (((((341/50))))).ccls. or (((((341/51))))).ccls. or (((((341/126))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		02-20-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	28	OR	YES		02-20-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	91	OR	YES		02-20-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing)	PGPB, USPT, USOC, EPAB, JPAB,	50	OR	YES		02-20-2017

near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/240))))).ccls. or (((((375/240.01))))).ccls. or (((((375/240.02))))).ccls. or (((((341/50))))).ccls. or (((((341/51))))).ccls. or (((((341/126))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	DWPI, TDBD					
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		02-20-2017

(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((H03M7/30)))) | ((((H03M7/3059)))) | ((((H03M7/3084)))) | ((((H03M7/6094)))) | ((((H03M7/3088)))) | ((((H03M7/6023)))) | ((((H03M7/6064)))) | ((((H04N19/152)))) | ((((G11B20/00007))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	69	OR	YES		02-20-2017
("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	68	OR	YES		02-20-2017
(("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		02-20-2017

or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))						
("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	75	OR	YES		02-20-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((H03M7/30))) | (((H03M7/3084))) | (((H03M7/6094))) | (((H04N19/164))) | HO4N19/176 | (((H04N19/103))))).CPC.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	63	OR	YES		02-20-2017
("20160127512" | "20160127513" | "5479638" | "5771354").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		02-20-2017
20130297575	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	2	OR	YES		02-20-2017

	TDBD					
("6868500").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		02-20-2017

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

CPC								
Symbol							**Type**	**Version**
H04N		19	/	103			F	2014-11-01
H04N		19	/	164			I	2014-11-01
H04N		19	/	176			I	2014-11-01
H03M		7	/	30			I	2013-01-01
H03M		7	/	3084			I	2013-01-01
H03M		7	/	6094			I	2013-01-01
			/					
			/					
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			/					
			/					

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	02/20/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No. 20170220

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
375	240.1	H	0	4	N	7 / 12 (2006.01.01)						

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	02/20/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

☒ **Claims renumbered in the same order as presented by applicant** ☐ **CPA** ☐ **T.D.** ☐ **R.1.47**

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	17												
2	2	18	18												
3	3	19	19												
4	4	20	20												
5	5	21	21												
6	6	22	22												
7	7	23	23												
8	8	24	24												
9	9	25	25												
10	10	26	26												
11	11	27	27												
12	12	28	28												
13	13	29	29												
14	14	30	30												
15	15														
16	16														

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	30	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	02/20/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	01/23/2016	04/18/2016	05/29/2016	08/05/2016	10/17/2016	12/08/2016	01/31/2017	02/20/2017	
1	1	✓	=	=	=	=	=	=	=	
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3	3	✓	=	=	=	=	=	=	=	
4	4	✓	=	=	=	=	=	=	=	
5	5	✓	=	=	=	=	=	=	=	
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29	29	✓	=	=	=	=	=	=	=	
30	30	✓	=	=	=	=	=	=	=	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

CPC- SEARCHED

Symbol	Date	Examiner
((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((G06F15/7867)) | ((G06T1/60)) | ((H04N19/136).CPC.)	01/22/2016	TB
((H03M7/30)) | ((H03M7/3059)) | ((H03M7/3093)) | ((H04L69/04)) | ((H04N19/152)) | ((H04N9/8042).CPC.)	01/22/2016	TB
((H03M7/30 | H03M7/3059 | H03M7/3084 | H03M7/6094 | H03M7/3088 | H03M7/6023 | H03M7/6064 | H04N19/152 | G11B20/00007).CPC.)	01/23/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC.	04/17/2016	TB
CPC Updated, see WEST search result for search strategy.	04/18/2016	TB
CPC Updated, see WEST search result for search strategy.	05/29/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC. Updated	08/05/2016	TB
CPC Updated, see WEST search result for search strategy.	10/16/2016	TB
CPC Updated, see WEST search result for search strategy.	12/08/2016	TB
CPC Updated, see WEST search result for search strategy.	01/31/2017	TB
CPC Updated, see WEST search result for search strategy.	02/18/2017 & 02/20/2017	TB

CPC COMBINATION SETS - SEARCHED

Symbol	Date	Examiner

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
375	240, 240.01, 240.02	01/22/2016	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
341	50, 51, 126	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search ALL ($8.ccls.), See WEST Search for terms used with the clases	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	01/23/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	04/17/2016 & 04/18/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	05/29/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated, See WEST Search	08/05/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	10/16/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	12/08/2016	TB
375, 370, 348, 341, 711, 701, 381	See WEST search result	01/31/2017	TB
375, 370, 348, 341, 711, 701, 381	See WEST search result	02/18/2017 & 02/20/2017	TB

SEARCH NOTES

Search Notes	Date	Examiner
WEST and Inventor's Name Searched	01/22/2016	TB
See Realted parent application 14/733,565 for further presecution History	01/22/2016	TB
WEST Search Updated	01/23/2016	TB
WEST Search Updated	04/17/2016	TB
WEST Search Updated	04/18/2016	TB
WEST Search Updated	05/29/2016	TB
WEST Search Updated	08/05/2016	TB
WEST Search Updated	10/16/2016	TB
WEST Search Updated	12/08/2016	TB
WEST Search Updated	01/31/2017	TB
WEST search updated	02/18/2017 & 02/20/2017	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
375	240, 240.1	04/18/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	04/18/2016	TB
375	240, 240.1	05/29/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	05/29/2016	TB
375	240, 240.1	08/05/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	08/05/2016	TB
375	240, 240.1	10/16/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	10/16/2016	TB
375	240, 240.1	12/08/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	12/08/2016	TB
375	240, 240.1	01/31/2017	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	01/31/2017	TB
375	240, 240.1	02/20/2017	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO 4N19/176|H04N19/103).CPC.	02/20/2017	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

PTO/SB/30 (07-14)
Approved for use through 07/31/2016 OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not compy with the requirements of 35 U.S.C 371, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO on page 2.)

1. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

   a. [ ] Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

      i. [ ] Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

      ii. [ ] Other _____

   b. [X] Enclosed

      i. [X] Amendment/Reply

      ii. [ ] Affidavit(s)/ Declaration(s)

      iii. [ ] Information Disclosure Statement (IDS)

      iv. [X] Other See 1 in Addendum

2. Miscellaneous

   a. [ ] Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

   b. [ ] Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

   a. [X] The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 19-0036.

      i. [X] RCE fee required under 37 CFR 1.17(e)

      ii. [ ] Extension of time fee (37 CFR 1.136 and 1.17)

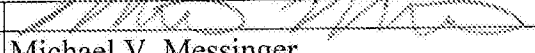
      iii. [X] Other Certification and Request for Prioritzed Examination under 37 CFR 1.102(e)

   b. [ ] Check in the amount of $ _____ enclosed

   c. [X] Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature		Date	May 10, 2016
Name (Print/Type)	Michael V. Messinger	Registration No.	37,575

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature			
Name (Print/Type)		Date	

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Addendum

1. Certification and Request for Prioritzed Examination under 37 CFR 1.102(e)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Data, LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, TESFALDET

Atty. Docket: 3421.005000C

Submission Under 37 C.F.R. § 1.114(c) and Preliminary Amendment Under 37 C.F.R. § 1.115

Mail Stop RCE

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Filed concurrently herewith this Application is a Request for Continued Examination (RCE.) Prior to examination of the RCE on the merits, Applicant respectfully requests this Application to be further amended as directed herein. Applicant submits the following Amendment and Remarks in reply to the Notice of Allowance dated February 23, 2017.

It is not believed that extensions of time are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this Application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this Application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in this Application.

1. (Currently Amended) A system, comprising:

a plurality of different asymmetric data compression ~~algorithms~~ encoders,

wherein each asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to utilize one or more data compression algorithms, and

wherein a first asymmetric data compression ~~algorithm~~ encoder of the plurality of different asymmetric data compression ~~algorithms~~ encoders is configured to compress data blocks containing video or image data at a higher data compression rate than a second asymmetric data compression ~~algorithm~~ encoder of the plurality of different asymmetric data compression encoders ~~algorithms, wherein compression rate is measured in bits per second~~; and

one or more processors configured to:

determine one or more data parameters ~~from one or more data blocks containing video data~~, at least one of the one or more data parameters relating to a throughput of a communications channel measured in bits per second; and

select one or more asymmetric data compression ~~algorithms~~ encoders from among the plurality of different asymmetric data compression ~~algorithms~~ encoders based upon, at least in part, the determined one or more data parameters.

2. (Currently Amended) The system of claim 1, wherein at least one of the plurality of different asymmetric data compression ~~algorithms is~~ encoders is configured to utilize an arithmetic algorithm.

3. (Canceled)

4. (Original) The system of claim 1, wherein the throughput of the communications channel comprises:

an estimated throughput of the communications channel.

5. (Original) The system of claim 1, wherein the throughput of the communications channel comprises:

an expected throughput of the communications channel.

6. (Currently Amended) The system of claim 1, wherein the selected one or more asymmetric data compression ~~algorithms~~ encoders are configured to compress the ~~one or more~~ data blocks containing video or image data for output at different data transmission rates measured in bits per second to produce a plurality of compressed data blocks.

7. (Currently Amended) The system of claim 1, wherein at least one of the plurality of different asymmetric data compression ~~algorithms~~ encoders ~~comprises: a lossless~~ is configured to utilize a standardized data compression algorithm capable of compressing video data.

8. (Currently Amended) The system of claim 1, wherein at least one of the one or more data parameters comprises:

a resolution of the ~~one or more~~ data blocks containing video or image data.

9. (Currently Amended) The system of claim 1, wherein at least one of the one or more data parameters comprises:

a data transmission rate of the ~~one or more~~ data blocks containing video or image data.

10. (Currently Amended) The system of claim 1, wherein at least one of the one or more data parameters comprises:

an attribute or a value related to a format or a syntax of video or image data contained in the ~~one or more~~ data blocks containing video or image data.

11. (Currently Amended) The system of claim 1, wherein the selected one or more asymmetric data compression ~~algorithms~~ encoders ~~comprise:~~ are configured to utilize a content-dependent data compression algorithm.

12. (Previously Presented) The system of claim 11, wherein the content-dependent data compression algorithm comprises:

an arithmetic algorithm.

13. (Currently Amended) The system of claim 1, wherein the selected one or more asymmetric data compression ~~algorithms~~ encoders are configured to perform compression in real-time or substantially real-time.

14. (Original) The system of claim 1, wherein the communications channel comprises:

a distributed network.

15. (Original) The system of claim 14, wherein the distributed network comprises:

the Internet.

16. (Currently Amended) The system of claim 1, wherein the selected one or more asymmetric data compression ~~algorithms~~ encoders are utilized to compress the ~~one or more~~ data blocks containing video or image data to create one or more compressed data blocks, and

wherein a descriptor is associated with the one or more compressed data blocks that indicates the selected one or more asymmetric data compression ~~algorithms~~ encoders.

17. (Currently Amended) The system of claim 1, wherein the selected one or more asymmetric data compression ~~algorithms~~ encoders are utilized to compress the ~~one or more~~ data blocks containing video or image data to create one or more compressed data blocks, and

wherein a descriptor indicating the selected one or more asymmetric data compression ~~algorithms~~ encoders is included with the one or more compressed data blocks.

18. (Currently Amended) The system of claim 1, wherein at least one of the one or more data parameters comprises:

a video or image data profile.

19. (Currently Amended) A system, comprising:

a plurality of video data compression ~~algorithms~~ encoders;

wherein at least one of the plurality of video data compression ~~algorithms~~ encoders is configured to utilize ~~comprises~~ an asymmetric data compression algorithm, and

wherein at least one of the plurality of video data compression ~~algorithms~~ encoders is configured to utilize ~~comprises~~ an arithmetic data compression algorithm,

wherein a first video data compression ~~algorithm~~ encoder of the plurality of video data compression ~~algorithms~~ encoders is configured to compress ~~more bits per second of data~~ at a higher compression ratio than a second data compression ~~algorithm~~ encoder of the plurality of data compression ~~algorithms~~ encoders; and

one or more processors configured to:

determine one or more data parameters ~~from one or more data blocks containing video data~~, at least one of the one or more data parameters relating to a throughput of a communications channel; and

select one or more video data compression ~~algorithms~~ encoders from among the plurality of video data compression ~~algorithms~~ encoders based upon, at least in part, the determined one or more data parameters.

20. (Canceled)

21. (Original) The system of claim 19, wherein the throughput of the communications channel comprises:

an estimated or expected throughput of the communications channel.

22. (Currently Amended) The system of claim 19, wherein the selected one or more video data compression ~~algorithms~~ encoders are configured to compress [[the]] one or more data blocks containing video data for different data transmission rates measured in bits per second to produce a plurality of compressed data blocks.

23. (Canceled)

24. (Currently Amended) The system of claim 19, wherein at least one of the one or more data parameters are related to a resolution of [[the]] one or more data blocks containing video data.

25. (Currently Amended) The system of claim 19, wherein at least one of the one or more data parameters comprises:

a data transmission rate of [[the]] one or more data blocks containing video data.

26. (Currently Amended) The system of claim 19, wherein at least one of the one or more data parameters comprises:

an attribute or a value related to a format or a syntax of video data contained in [[the]] one or more data blocks containing video data.

27. (Currently Amended) The system of claim 19, wherein the selected one or more video data compression ~~algorithms~~ encoders are configured to perform data compression in real-time or substantially real-time.

28. (Currently Amended) The system of claim 19, wherein the communications channel comprises:

a distributed network or the Internet.

29. (Currently Amended) The system of claim 19, wherein [[the]] one or more data blocks containing video data are compressed with the selected one or more video data compression ~~algorithms~~ encoders to create one or more compressed data blocks, and

wherein a descriptor is associated with the one or more compressed data blocks that indicates the selected one or more video data compression ~~algorithm~~ encoders.

30. (Canceled)

31. (New) The system of claim 1, wherein the one or more processors are further configured to encode each of the data blocks containing video or image data with a plurality of the selected one or more asymmetric data compression encoders to create compressed data blocks.

32. (New) The system of claim 31, further comprising:

a memory for storing the compressed data blocks.

33. (New) The system of claim 19, wherein the one or more processors are configured to encode each of one or more data blocks with a plurality of the selected one or more asymmetric data compression encoders to create compressed data blocks.

Remarks

Reconsideration of this Application is respectfully requested.

Upon entry of the foregoing amendment, claims 1, 2, 4-19, 21, 22, 24-29, and 31-33 are pending in this Application, with claims 1 and 19 being the independent claims. Claims 1, 2, 6-11, 13, 16-19, 22, and 24-29 are sought to be amended. Claims 3, 20, 23, and 30 are sought to be cancelled without prejudice to or disclaimer of the subject matter therein. Applicants reserve the right to prosecute similar or broader claims, with respect to the cancelled and/or amended claims, in the future. New claims 31-33 are sought to be added.

Conclusion

Prompt and favorable consideration of this Submission and Preliminary Amendment is respectfully requested.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: May 15, 2017

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

5096585_5.docx

Electronic Patent Application Fee Transmittal

Application Number:	14876276
Filing Date:	06-Oct-2015
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Filer:	Michael V. Messinger/Renee Bennett
Attorney Docket Number:	3421.005000C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4000	4000
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
PETITION FEE- 37 CFR 1.17(H) (GROUP III)	1464	1	140	140
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1700	1700
		Total in USD ($)		**5840**

Electronic Acknowledgement Receipt

EFS ID:	29211926
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger/Renee Bennett
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	3421.005000C
Receipt Date:	15-MAY-2017
Filing Date:	06-OCT-2015
Time Stamp:	16:47:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$5840
RAM confirmation Number	051617INTEFSW16480200
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		3421005000C_RCE_TRACK1REQUEST.PDF	3060749 9cf19ef53486605216083e71f11144252aea715a	yes	15

Multipart Description/PDF files in .zip description

Document Description	Start	End
Miscellaneous Incoming Letter	1	2
TrackOne Request	3	3
Request for Continued Examination (RCE)	4	5
Amendment Submitted/Entered with Filing of CPA/RCE	6	6
Claims	7	14
Applicant Arguments/Remarks Made in an Amendment	15	15

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	34053 f4897be2e7c7c458e5b8fb3c74b9738cacfec4bf	no	2

Warnings:

Information:

Total Files Size (in bytes):	3094802

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

MICHAEL V. MESSINGER
DIRECTOR
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MIKEM@SKGF.COM

Sterne Kessler Goldstein Fox
ATTORNEYS AT LAW

May 15, 2017

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Confirmation No. 3403
Art Unit 2634
Attn: Mail Stop RCE

Re: U.S. Utility Patent Application
Appl. No. 14/876,276; Filing Date: October 6, 2015
For: **Video Data Compression Systems**
Inventors: FALLON *et al.*
Our Ref: 3421.005000C

Commissioner:

Transmitted herewith for appropriate action are the following documents:

1. Online Credit Card Payment Authorization in the amount of **$5,840.00** to cover:

   $4,000.00 – Request for prioritized Examination (Track 1);
   $140.00 – Processing Fee, except in provisional applications;
   $1,700.00 – Request for Continued Examination Fee;

2. Certification and Request for Prioritized Examination Under 37 CFR 1.102(e);

3. Request for Continued Examination (RCE) Transmittal; and

4. Submission Under 37 C.F.R. § 1.114(c) and Preliminary Amendment Under 37 C.F.R. § 1.115.

The above-listed documents are filed electronically.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Fee payment is provided through online credit card payment. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) or credit any overpayment to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

MVM/afe
Enclosures

5300458_1.docx

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (04-14)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	James J. FALLON	Nonprovisional Application Number (if known):	14/876,276
Title of Invention:	Video Data Compression Systems		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☐ **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☒ **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature	Date May 15, 2017
Name (Print/Typed) Michael V. Messinger	Practitioner Registration Number 37,575

Note: *This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.**

☒ *Total of 1 forms are submitted.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/876,276	Filing Date 10/06/2015	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	05/15/2017	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 29	Minus	** 30	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $420 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
MARQUITA JONES

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449/PTO

ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	5,034,914	07-23-1991	Osterlund	
	US2	5,602,764	02-11-1997	Eskandari-Gharnin et al.	
	US3	5,990,810	11-23-1999	Williams	
	US4	6,065,094	05-16-2000	Akiyama	
	US5	6,078,541	06-20-2000	Kitagawa et al.	
	US6	2002/0196166 A1	12-26-2002	Satoh et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP1	WO 01/050325	07-12-2001	Efeckta Technologies Corp.		

5305138_1

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				*Complete if Known*	
ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	1	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Defendant Teradata Operations, Inc.'s Opening Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 40 pages.	
	NPL2	Exhibit D Accompanying Declaration of Jamie R. Lynn, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 43 pages.	
	NPL3	Exhibit E Accompanying Declaration of Jamie R. Lynn, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 46 pages.	
	NPL4	Exhibit H Accompanying Declaration of Jamie R. Lynn, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 15 pages.	
	NPL5	Exhibit U Accompanying Declaration of Jamie R. Lynn, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 7 pages.	
	NPL6	Exhibit 10 Accompanying Declaration of Kenneth Zeger, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 12 pages.	
	NPL7	Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. Cal.), filed February 10, 2017; 36 pages.	
	NPL8	Expert Declaration of Kenneth Zeger, filed in *Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. Cal.), filed February 10, 2017; 49 pages.	
	NPL9	Complaint for Patent Infringement, filed in *Realtime Data LLC d/b/a IXO v. Echostar Corporation et al.*, Case No. 6:17-cv-00084 (E.D. Texas), filed February 14, 2017; 39 pages.	
	NPL10	Realtime's Opening Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 3:16-cv-02595 (N.D. California), filed February 21, 2017; 26 pages.	

Examiner Signature		Date Considered	

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO

ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 11

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL11	Complaint for Patent Infringement Against Arconis, Inc., filed in *Realtime Data LLC d/b/a IXO v. Acronis, Inc.*,Case No. 6:17-cv-00118 (E.D. Texas), filed February 27, 2017; 26 pages.	
	NPL12	Complaint for Patent Infringement Against Array Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Array Networks Inc.*,Case No. 6:17-cv-00119 (E.D. Texas), filed February 27, 2017; 33 pages.	
	NPL13	Complaint for Patent Infringement Against Barracuda Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Barracuda Networks Inc.*,Case No. 6:17-cv-00120 (E.D. Texas), filed February 27, 2017; 99 pages.	
	NPL14	Complaint for Patent Infringement Against Carbonite Networks Inc. and Evault Inc., filed in *Realtime Data LLC d/b/a IXO v. Carbonite, Inc. et al.*,Case No. 6:17-cv-00121 (E.D. Texas), filed February 27, 2017; 45 pages.	
	NPL15	Complaint for Patent Infringement Against Circadence Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Circadence Corporation*,Case No. 6:17-cv-00122 (E.D. Texas), filed February 27, 2017; 33 pages.	
	NPL16	Complaint for Patent Infringement Against Commvault Systems, Inc. and Spectra Logic Corporation, filed in *Realtime Data LLC d/b/a IXO v. CommVault Systems, Inc. et al.*,Case No. 6:17-cv-00123 (E.D. Texas), filed February 27, 2017; 58 pages.	
	NPL17	Complaint for Patent Infringement Against Exinda Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Exinda Inc.*,Case No. 6:17-cv-00124 (E.D. Texas), filed February 27, 2017; 26 pages.	
	NPL18	Complaint for Patent Infringement Against Netgear, Inc., filed in *Realtime Data LLC d/b/a IXO v. NETGEAR, Inc.*,Case No. 6:17-cv-00125 (E.D. Texas), filed February 27, 2017; 33 pages.	
	NPL19	Complaint for Patent Infringement Against Synacor, Inc., filed in *Realtime Data LLC d/b/a IXO v. Synacor Inc.*,Case No. 6:17-cv-00126 (E.D. Texas), filed February 27, 2017; 23 pages.	
	NPL20	Joint Claim Constuction and Prehearing Statement and attached Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Rackspace USA, Inc. et al.*, Case No. 6:16-cv-00961 (E.D. Texas), filed March 7, 2017; 42 pages.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				Complete if Known	
ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	3	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL21	Defendant Apple Inc.'s Responsive Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 3:16-cv-02595 (N.D. California), filed March 10, 2017; 25 pages.	
	NPL22	Declaration of Craig Wills, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 3:16-cv-02595 (N.D. California), filed March 10, 2017; 10 pages.	
	NPL23	Realtime's Reply Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 3:16-cv-02595 (N.D. California), filed March 17, 2017; 12 pages.	
	NPL24	Proposed Joint Pretrial Order, filed in *Realtime Data LLC v. Actian Corporation et al.*, Case No. 6:15-cv-00463 (E.D. Texas), filed March 30, 2017; 103 pages.	
	NPL25	Realtime's Opening Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.*, Case No. 6:16-cv-00961 (E.D. Texas), filed March 31, 2017; 32 pages.	
	NPL26	Exhibit 10 to Realtime's Opening Claim Construction Brief: Expert Declaration of Dr. Kenneth Zeger, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.*, Case No. 6:16-cv-00961 (E.D. Texas), filed March 31, 2017; 47 pages.	
	NPL27	Exhibit 14 to Realtime's Opening Claim Construction Brief: Excerpt from The Hutchinson Dictionary of Computing Multimedia and the Internet, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.*, Case No. 6:16-cv-00961 (E.D. Texas), filed March 31, 2017; 4 pages.	
	NPL28	Complaint for Patent Infringement, filed in *Realtime Data LLC d/b/a IXO v. Riverbed Technology, Inc.*, Case No. 6:17-cv-00198 (E.D. Texas), filed April 3, 2017; 19 pages.	
	NPL29	Copy of Final Office Action for U.S. Patent Application No. 14/844,973, mailed February 14, 2017; 22 pages.	
	NPL30	Copy of Notice of Allowance for U.S. Patent Application No. 14/727,309, mailed February 27, 2017; 6 pages.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				*Complete if Known*	
ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	4	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL31	Copy of Non-Final Office Action for U.S. Patent Application No. 15/391,240, mailed February 17, 2017; 12 pages.	
	NPL32	Copy of Non-Final Office Action for U.S. Patent Application No. 14/305,692, mailed February 10, 2017; 10 pages.	
	NPL33	Copy of Notice of Allowance for U.S. Patent Application No. 14/733,565, mailed February 14, 2017; 7 pages.	
	NPL34	Copy of Notice of Allowance for U.S. Patent Application No. 14/853,581 , mailed March 30, 2017; 5 pages.	
	NPL35	Copy of Non-Final Office Action for U.S. Patent Application No. 14/936,312, mailed April 26, 2017; 11 pages.	
	NPL36	Petition for *Inter Partes* Review of U.S. Patent No. 7,161,506, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00806 (P.T.A.B.), filed January 30, 2016; 57 pages.	
	NPL37	Declaration of Charles D. Creusere, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00806 (P.T.A.B.), filed January 30, 2016; 102 pages.	
	NPL38	Realtime's Appeal Brief Under 37 C.F.R. § 41.67, filed in Inter Partes Reexamination of U.S. Patent No. 7,161,506, Control No. 95/000,479, mailed April 21, 2011; 53 pages.	
	NPL39	Excerpts from Microsoft Press Computer Dictionary, Third Edition, Microsoft Corporation 1997; pp. 71, 162, 307, 383, 485.	
	NPL40	Verdict Form, filed in *Realtime Data LLC d/b/a IXO v. T-Mobile U.S.A., Inc.,* Case No. 6:10-cv-00493-RC-JDL, filed February 11, 2013; 9 pages.	

Examiner Signature		Date Considered	

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ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 5 of 11

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First Named Inventor	James J. FALLON
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Attorney Docket Number	3421.005000C

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	NPL41	Jury Instructions, filed in *Realtime Data LLC d/b/a IXO v. T-Mobile U.S.A., Inc.,* Case No. 6:10-cv-00493-RC-JDL, filed February 11, 2013; 34 pages.	
	NPL42	Transcript of Jury Trial for *Realtime Data LLC d/b/a IXO v. T-Mobile U.S.A., Inc.,* Case No. 6:10-cv-00493-RC-JDL, dated February 8, 2013; 319 pages.	
	NPL43	Order Granting in part Plaintiff's Motion for Judgement as a Matter of Law as to Invalidity, filed in *Realtime Data LLC d/b/a IXO v. T-Mobile U.S.A., Inc.,* Case No. 6:10-cv-00493-RC-JDL, filed March 4, 2013; 17 pages.	
	NPL44	Declaration of Scott Bennett, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00806 (P.T.A.B.), filed January 30, 2016; 158 pages.	
	NPL45	Petition for *Inter Partes* Review of U.S. Patent No. 9,054,728, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00808 (P.T.A.B.), filed January 30, 2016; 66 pages.	
	NPL46	Declaration of Charles D. Creusere, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00808 (P.T.A.B.), filed January 30, 2016; 114 pages.	
	NPL47	Excerpts from Merriam-Webster's Collegiate Dictionary, Tenth Edition, Merriam-Webster Inc. 2000; pp. 12, 53, 56, 913, 918.	
	NPL48	Excerpts from Merriam-Webster's Collegiate Dictionary, Deluxe Edition, Merriam-Webster Inc. 1998; pp. 19, 81, 86, 1436, 1444.	
	NPL49	Oracle's Reply to Patent Owner's Response to the Petition, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2016-00373 (P.T.A.B.), filed February 2, 2017; 28 pages.	
	NPL50	Transcript of Markman Hearing in *Realtime Data LLC v. CME Group Inc., et al.,* Case No. 1.11-cv-06697-KBF (S.D. New York), filed May 14, 2012; 200 pages.	

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ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 6 of 11

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL51	Deposition of Kenneth A. Zeger, Ph.D., filed in *Oracle America v. Realtime Data LLC.*, Case No. IPR2016-00373 (P.T.A.B.), filed February 2, 2017; 94 pages.	
	NPL52	Oracle's Reply to Patent Owner's Response to the Petition, filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2016-00374 (P.T.A.B.), filed February 2, 2017; 34 pages.	
	NPL53	Supplemental Declaration of Professor James A. Storer, Ph.D., filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2016-00374 (P.T.A.B.), filed February 2, 2017; 3 pages.	
	NPL54	Patent Owner's Response, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed February 8, 2017; 51 pages.	
	NPL55	Declaration of Kenneth A. Zeger, Ph.D., filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed February 8, 2017; 59 pages.	
	NPL56	Sachs, "Using Curves and Histograms," Digital Light and Color 1996; 19 pages.	
	NPL57	Oral Deposition of Charles D. Creusere, Ph.D., filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed February 8, 2017; 110 pages.	
	NPL58	Patent Owner's Response, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00978 (P.T.A.B.), filed February 8, 2017; 58 pages.	
	NPL59	Declaration of Kenneth A. Zeger, Ph.D., filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00978 (P.T.A.B.), filed February 8, 2017; 72 pages.	
	NPL60	Excerpt from The American Heritage Dictionary of the English Language, Third Edition, Houghton Mifflin Company 1992; p. 1782.	

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ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
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(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	7	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
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	NPL61	Excerpt from Webster's New World College Dictionary, Fourth Edition, Macmillian USA 1999; p. 1421.	
	NPL62	Excerpts from Microsoft Computer Dictionary, Fourth Edition, Microsoft Corporation 1999; pp. 126.	
	NPL63	Corrected Patent Owner's Response, filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed February 14, 2017; 60 pages.	
	NPL64	Oral Deposition of Charles D. Creusere, Ph.D., filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed February 8, 2017; 65 pages.	
	NPL65	Excerpts from Newton's Telecom Dictionary, Eleventh Edition, Harry Newton 1996; pp. 423 and 682.	
	NPL66	Declaration of Kenneth A. Zeger, Ph.D., filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed February 8, 2017; 156 pages.	
	NPL67	Corrected Patent Owner's Response, filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-01002 (P.T.A.B.), filed February 14, 2017; 55 pages.	
	NPL68	Declaration of Kenneth A. Zeger, Ph.D., filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-01002 (P.T.A.B.), filed February 14, 2017; 135 pages.	
	NPL69	Decision Institution of *Inter Partes* Review, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2016-01671 (P.T.A.B.), filed March 8, 2017; 11 pages.	
	NPL70	Petition for *Inter Partes* Review of U.S. Patent No. 7,415,530 under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42.100 *et seq.*, filed in *NetApp Inc. v. Realtime Data LLC,* Case No. IPR2017-01195 (P.T.A.B.), filed March 30, 2017; 74 pages.	

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				Art Unit	2634
(Use as many sheets as necessary)				Examiner Name	BOCURE, Tesfaldet
Sheet	8	of	11	Attorney Docket Number	3421.005000C

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	NPL71	Declaration of Daniel Hirschberg, filed in *NetApp Inc. v. Realtime Data LLC*, Case No. IPR2017-01195 (P.T.A.B.), filed March 30, 2017; 63 pages.	
	NPL72	Lelewer et al., "Data Compression," ACM Computing Surveys, Vol. 19, No. 3, September 1987; 36 pages.	
	NPL73	Petition for *Inter Partes* Review of U.S. Patent No. 9,116,908 under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42.100 *et seq.*, filed in *NetApp Inc. v. Realtime Data LLC,* Case No. IPR2017-01196 (P.T.A.B.), filed March 30, 2017; 75 pages.	
	NPL74	Declaration of Daniel Hirschberg, filed in *NetApp Inc. v. Realtime Data LLC*, Case No. IPR2017-01196 (P.T.A.B.), filed March 30, 2017; 60 pages.	
	NPL75	HPE, HPES, and Teradata's Reply to Patent Owner's Response to the Petition, filed in *HPE et al. v. Realtime Data LLC,* Case No. IPR2016-00783 (P.T.A.B.), filed April 5, 2017; 35 pages.	
	NPL76	Supplemental Declaration of Charles D. Creusere in Support of HPE, HPES, and Teradata's Reply to Patent Owner's Response to the Petition, filed in *HPE et al. v. Realtime Data LLC,* Case No. IPR2016-00783 (P.T.A.B.), filed April 5, 2017; 5 pages.	
	NPL77	Transcript of February 23, 2017 Deposition of Leonard Laub, filed in *HPE et al. v. Realtime Data LLC,* Case No. IPR2016-00783 (P.T.A.B.), filed April 5, 2017; 151 pages.	
	NPL78	Patent Owner Realtime Data, LLC d/b/a IXO's Response, filed in *Apple, Inc. v. Realtime Data, LLC d/b/a IXO,* Case No. IPR2016-01366, filed April 6, 2017; 58 pages.	
	NPL79	Expert Declaration of Dr. Godmar Back in Support of the Patent Owner's Response, filed in *Apple, Inc. v. Realtime Data, LLC d/b/a IXO,* Case No. IPR2016-01366, filed April 6, 2017; 53 pages.	
	NPL80	Excerpt from The American Heritage Dictionary, Second College Edition, Boston, MA, Houghton Mifflin Company: 1982; p. 499.	

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ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 9 of 11

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Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

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	NPL81	Excerpts from Dictionary of Computer and Internet Words: An A to Z Guide to Hardware, Software, and Cyberspace, Boston, MA, Houghton Mifflin Company: 2001; pp. 161, 259.	
	NPL82	Excerpts from IEEE Standard Computer Dictionary: A Compilation of IEEE Standard Computer Glossaries," The Institute of Electrical and Electronics Engineers: 1990; pp. 87, 122, 192.	
	NPL83	Excerpt from IEEE Standard Glossary of Computer Hardware Terminology," The Institute of Electrical and Electronics Engineers: 1994; p. 71	
	NPL84	Excerpt from IEEE Standard Glossary of Software Engineering Terminology," The Institute of Electrical and Electronics Engineers: 1990; pp. 33, 44, 71.	
	NPL85	Excerpts from Microsoft Computer Dictionary, Fifth Edition, Redmond, WA, Microsoft Corporation: 2002; pp. 210, 315, 499.	
	NPL86	Excerpts from Oxford Dictionary of Computing, Oxford University Press, Market House Books Ltd.: 2004; pp. 262-263.	
	NPL87	Excerpt from McKusick et al., "The Design and Implementation of the 4.4BSD Operating System," Addison-Wesley Longman, Inc.: 1996; p. 535.	
	NPL88	Petition for *Inter Partes* Review of U.S. Patent No. 9,054,728, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01354 (P.T.A.B.), filed May 2, 2017; 69 pages.	
	NPL89	Declaration of Daniel Hirschberg, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01354 (P.T.A.B.), filed May 2, 2017; 59 pages.	
	NPL90	Reply to Office Action in Inter Partes Reexamination of U.S. Pat. No. 7,161,506, Control No. 95/000,479, filed March 15, 2010, 23 pgs.	

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	NPL91	Extension of Time Period for Response Declined in Inter Partes Reexamination of U.S. Pat. No. 7,161,506, Control No. 95/000,479, filed September 28, 2010, 7 pages.	
	NPL92	Unix Command Webpage, retrieved from http://web-beta.archive.org/web/web/20010810082609/; 14 pages.	
	NPL93	Petitioners' Reply, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed May 10, 2017; 22 pages.	
	NPL94	Deposition Transcript of Kenneth A. Zeger held April 19, 2017, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed May 10, 2017; 102 pages.	
	NPL95	Petitioners' Reply, filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-01002 (P.T.A.B.), filed May 10, 2017; 31 pages.	
	NPL96	Deposition Transcript of Kenneth A. Zeger held April 10, 2017, filed in *Dell, Inc. et al. v. Realtime Data LLC,*Case No. IPR2016-01002 (P.T.A.B.), filed May 10, 2017; 216 pages.	
	NPL97	Exhibit 1 to the April 10, 2017 Deposition of Kenneth A. Zeger, filed in *Dell, Inc. et al. v. Realtime Data LLC*, Case No. IPR2016-01002 (P.T.A.B.), filed May 10, 2017; 1 page.	
	NPL98	Exhibit 2 to the April 10, 2017 Deposition of Kenneth A. Zeger, filed in *Dell, Inc. et al. v. Realtime Data LLC*, Case No. IPR2016-01002 (P.T.A.B.), filed May 10, 2017; 1 page.	
	NPL99	Petitioners' Reply, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00978 (P.T.A.B.), filed May 10, 2017; 34 pages.	
	NPL100	Excerpt from Newton's Telecom Dictionary, Eleventh Edition, Harry Newton 1996; p. 145.	

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	NPL101	Petitioners' Reply, filed in *Dell Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed May 10, 2017; 35 pages.	
	NPL102	Update Court Docket History for Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463 (E.D. Texas), downloaded April 3, 2017, 50 pages.	
	NPL103	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al., No. 6:16-cv-00086 (E.D. Texas), downloaded April 3, 2017, 11 pages.	
	NPL104	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Oracle America, Inc., No. 6:16-cv-00088 (E.D. Texas), downloaded April 3, 2017; 15 pages.	
	NPL105	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al., No. 6:16-cv-00087 (E.D. Texas), downloaded April 3, 2017; 11 pages.	
	NPL106	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Dell, Inc., et al., No. 6:16-cv-00089 (E.D. Texas), downloaded April 3, 2017; 12 pages.	
	NPL107	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc., Case No. 2:16-cv-02743 (C.D. Cal), downloaded April 3, 2017; 7 pages.	
	NPL108	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al., No. 6:16-cv-00961 (E.D. Texas), downloaded April 3, 2017; 13 pages.	
	NPL109	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc., et al., No. 6:16-cv-01035 (E.D. Texas), downloaded April 3, 2017; 6 pages.	
	NPL110	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc., No. 6:16-cv-01037 (E.D. Texas), downloaded April 3, 2017; 4 pages.	

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Electronic Acknowledgement Receipt

EFS ID:	29235454
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	Video Data Compression Systems
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger/Casey Berger
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	3421.005000C
Receipt Date:	17-MAY-2017
Filing Date:	06-OCT-2015
Time Stamp:	16:24:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	NPL33_NOA14733565_02142017.PDF	409282 26146f59b7a2a0c8dcb55f0469b2b8092b3706fa	no	7

Warnings:

Information:					
2		3421005000C11SIDS.pdf	1753888 cc6b64dee48b5fbe3b24d9c0c83794716c76ed9c	yes	23

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
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	Transmittal Letter	2	11
	Information Disclosure Statement (IDS) Form (SB08)	12	23

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Total Files Size (in bytes):	2163170

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

MICHAEL V. MESSINGER
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Sterne Kessler Goldstein Fox
ATTORNEYS AT LAW

May 17, 2017

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Confirmation No. 3403
Art Unit 2634
Attn: Mail Stop Amendment

Re: U.S. Utility Patent Application
Application No. 14/876,276; Filing Date: October 6, 2015
For: **Video Data Compression Systems**
Inventors: FALLON *et al.*
Our Ref: 3421.005000C

Commissioner:

Transmitted herewith for appropriate action are the following documents:

1. Eleventh Supplemental Information Disclosure Statement;
2. Form PTO/SB/08a (1 sheet) listing 7 documents (**US1-US6** and **FP1**);
3. Form PTO/SB/08b (11 sheets) listing 110 documents (**NPL1-NPL110**); and
4. Copy of cited document (**NPL33**).

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Fee payment is provided through online credit card payment. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

MVM/MRM/cmb
Enclosures

5131606_1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Data LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Eleventh Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Inter Partes Reexamination Certificate issued 08/01/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be provided to the Examiner upon request.

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00373	7,378,992	Joint motion to terminate 3/30/17
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00374	8,643,513	Joint motion to terminate 3/30/17
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00375	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00376	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00377	9,116,908	Institution Denied 7/1/2016
SAP America Inc., et al. v. Realtime Data, LLC d/b/a IXO, IPR2016-00783	6,597,812	Petitioner's Reply 4/5/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00878	7,415,530	Dismissed 6/21/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00972	7,415,530	Petitioner's Reply 5/10/2017
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00978	8,643,513	Petitioner's Reply 5/10/2017
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00980	7,378,992	Petitioner's Reply 5/10/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-01002	9,116,908	Petitioner's Reply 5/10/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01365	7,181,608	Patent Owner's Response filed 4/6/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01366	8,090,936	Patent Owner's Response filed 4/6/2017
Oracle America Inc. v. Realtime Data LLC, IPR2016-01671	7,415,530	Terminated (Joined with IPR2016-00972)
Oracle America Inc. v. Realtime Data LLC, IPR2016-01672	9,116,908	Terminated (Joined with IPR2016-01002)
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01737	8,880,862	Instituted 3/14/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01738	8,880,862	Instituted 3/20/2017

Proceeding	Patent	Status
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01739	8,880,862	Instituted 3/14/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00108	9,054,728	Terminated 4/11/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00167	6,597,812	Terminated 4/11/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00168	6,597,812	Terminated 4/11/2017
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00176	7,161,506	Patent Owner's Preliminary Response filed 3/1/2017
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00179	9,054,728	Patent Owner's Preliminary Response filed 3/1/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00364	9,116,908	Filed 11/30/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00365	7,415,530	Filed 11/30/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00366	8,643,513	Filed 11/30/2016
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00557	7,358,867	Patent Owner's Preliminary Response filed 4/19/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00806	7,161,506	Filed 1/30/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00808	9,054,728	Filed 1/30/2017
NetApp Inc. v. Realtime Data LLC, IPR2017-01195	7,415,530	Filed 3/30/2017
NetApp Inc. v. Realtime Data LLC, IPR2017-01196	9,116,908	Filed 3/30/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01354	9,054,728	Filed 5/2/2017

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent

application are listed on the accompanying Form PTO/SB/08 as documents **US1, US5, FP1,** and **NPL36-NPL101.**

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4

No.	Case	Status
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed 5/1/2015
12	*Realtime Data, LLC d/b/a IXO v. Actian Corporation, et al.*, No. 6:15-cv-00463 (E.D. Texas)	Order to submit claim constructions 4/10/2017
13	*Realtime Data, LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed 2/22/2016
14	*Realtime Data, LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12
15	*Realtime Data, LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12
16	*Realtime Data, LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated 10/5/ 2015
17	*Realtime Data, LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22
18	*Realtime Data, LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 5:16-cv-01836 (N.D. Cal.) (transferred from E.D. Texas; 6:15-cv-00470)	Case dismissed 5/18/2016
20	*Realtime Data, LLC d/b/a IXO v. Apple Inc.*, No. 3:16-cv-02595 (transferred from E.D. Texas; 6:15-cv-00885)	Stayed pending *inter partes* review 3/27/2017
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Transferred to N.D. California – Case No. 42
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Final Judgment all claims dismissed 5/15/2017
23	*Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al.*, No. 6:16-cv-00087 (E.D. Texas)	Stayed pending *inter partes* review 3/1/2017
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Stayed pending *inter partes* review 2/7/2017
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Stayed pending *inter partes* review 2/25/2017

No.	Case	Status
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Motion to Stay denied 4/24/2017
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Transferred to N.D. California – Case No. 41
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Consolidated with Case No. 26
29	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:17-cv-00046 (E.D. Texas)	Final Judgment case dismissed 5/8/2017
30	*Realtime Data LLC d/b/a IXO v. Echostar Corporation et al.*, No. 6:17-cv-00084 (E.D. Texas)	Filed 2/14/2017
31	*Realtime Data LLC d/b/a IXO v. Acronis, Inc.*, No. 6:17-cv-00118 (E.D. Texas)	Filed 2/27/2017
32	*Realtime Data LLC d/b/a IXO v. Array Networks, Inc.*, No. 6:17-cv-00119 (E.D. Texas)	Filed 2/27/2017
33	*Realtime Data LLC d/b/a IXO v. Barracuda Networks, Inc.*, No. 6:17-cv-00120 (E.D. Texas)	Answer to Complaint 4/24/2017
34	*Realtime Data LLC d/b/a IXO v. Carbonite, Inc. et al.*, No. 6:17-cv-00121 (E.D. Texas)	Answer and counterclaim 5/9/2017
35	*Realtime Data LLC d/b/a IXO v. Circadence Corporation*, No. 6:17-cv-00122 (E.D. Texas)	Final Judgment case dismissed 4/25/2017
36	*Realtime Data LLC d/b/a IXO v. CommVault Systems, Inc. et al.*, No. 6:17-cv-00123 (E.D. Texas)	Filed 2/27/2017
37	*Realtime Data LLC d/b/a IXO v. Exinda Inc.*, No. 6:17-cv-00124 (E.D. Texas)	Filed 2/27/2017
38	*Realtime Data LLC d/b/a IXO v. NETGEAR, Inc.*, No. 6:17-cv-00125 (E.D. Texas)	Answer to Complaint 5/8/2017
39	*Realtime Data LLC d/b/a IXO v. Synacor Inc.*, No. 6:17-cv-00126 (E.D. Texas)	Filed 2/27/2017
40	*Realtime Data LLC d/b/a IXO v. Riverbed Technology, Inc.*, No. 6:17-cv-00198 (E.D. Texas)	Filed 4/3/2017
41	*Realtime Data LLC v. Fujitsu America, Inc. et al.*, No. 3:17-cv-02109 (N.D. Cal.)	Transferred in from E.D. Texas 4/17/2017
42	*Realtime Data LLC v. Silver Peak Systems, Inc.*, No. 3:17-cv-02373 (N.D. Cal.)	Transferred in from E.D. Texas 4/26/2017

Updated court dockets for pending litigation are submitted herewith as documents **NPL102-NPL110.**

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action

on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

A copy of document **NPL33** is submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copies of U.S. patents and patent application publications cited as documents **US1-US6** on the attached IDS Forms are submitted.

Copies of the **NPL1-NPL32** and **NPL34-NPL110** documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 14/733,565, filed June 8, 2015 (now pending), which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is expected that the examiner will review the prosecution and cited art in the parent application no(s). 14/733,565, filed June 8, 2015 (now pending) in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

In accordance with the Federal Circuit decision in *Dayco Prods., Inc. v. Total Containment, Inc.* 329 F.3d 1358 (Fed. Cir. 2003), Applicants submit herewith Office Actions from the co-pending, commonly assigned U.S. Patent Applications as documents **NPL29-NPL35**.

The identification of these Office Actions is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STEIN, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: May 17, 2017

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600
5129899_1

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

26111 7590 05/31/2017

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER
BOCURE, TESFALDET

ART UNIT	PAPER NUMBER
2634	

DATE MAILED: 05/31/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: VIDEO DATA COMPRESSION SYSTEMS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$960	$960	08/31/2017

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

26111 7590 05/31/2017
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: VIDEO DATA COMPRESSION SYSTEMS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$960	$960	08/31/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
BOCURE, TESFALDET	2634	375-240100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 (Part B) (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

26111 7590 05/31/2017

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER	
BOCURE, TESFALDET	

ART UNIT	PAPER NUMBER
2634	

DATE MAILED: 05/31/2017

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/876,276	Applicant(s) FALLON ET AL.	
	Examiner TESFALDET BOCURE	Art Unit 2634	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *05/15/2017*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1,2,4-19,21,22,24-29 and 31-33*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.

2. This office action (Notice of Allowance) is in response to the amendment, IDS and RCE filed on 05/15/2017. The statuses of the claims are: claims 1, 2, 6-11, 13, 16-19, 22 and 24-29 have been amended; claims 3,20, 23, and 30 have been cancelled; and new claims 31-33 have been added. The pending claims 1, 2, 4-19, 21, 22, 24-29 and 31-33 are now allowed.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 05/15/2017 has been entered.

Information Disclosure Statement

4. The information disclosure statements (IDS) submitted on 05/17/2017 (two IDSs filed on the same date are in compliance with the provisions of 37 CFR 1.97.

Accordingly, the information disclosure statement is being considered by the examiner.

Attached with this correspondence are the initialed copies of the IDSs.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TESFALDET BOCURE whose telephone number is (571)272-3015. The examiner can normally be reached on 8:30am-to-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel C. Washburn can be reached on 571-272-5551. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

/T. B./
Primary Examiner, Art Unit 2634

WEST Search History for Application 14876276

Creation Date: 2017052623:07

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((Fallen adj James).in. or (McErlain adj Stephen).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	47	OR	YES		05-26-2017
((Fallen).in. or (McErlain).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	181	OR	YES		05-26-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		05-26-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	77	OR	YES		05-26-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and @ad<=20010213	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		05-26-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2	PGPB, USPT, USOC,	37	OR	YES		05-26-2017

ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))	EPAB, JPAB, DWPI, TDBD					
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	OR	YES		05-26-2017
(selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		05-26-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric $4near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6457	OR	YES		05-26-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric$4 near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		05-26-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same ((fast near4 slow) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		05-26-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	33	OR	YES		05-26-2017

((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30)))))) | ((((((H03M7/3084)))))) | ((((((H03M7/6094)))))) | ((((((G06F15/7867)))))) | ((((((G06T1/60)))))) | ((((((H04N19/136))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	OR	YES		05-26-2017
(((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((H03M7/30)))))) | ((((((H03M7/3059)))))) | ((((((H03M7/3093)))))) | ((((((H04L69/04)))))) | ((((((H04N19/152)))))) | ((((((H04N9/8042))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		05-26-2017
("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		05-26-2017
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1298920	OR	YES		05-26-2017
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		05-26-2017

same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))						
((((((375/240))))).ccls. or ((((((375/240.01)))))).ccls. or ((((((375/240.02)))))).ccls. or ((((((341/50)))))).ccls. or ((((((341/51)))))).ccls. or ((((((341/126)))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		05-26-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	28	OR	YES		05-26-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	93	OR	YES		05-26-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing)	PGPB, USPT, USOC, EPAB, JPAB,	50	OR	YES		05-26-2017

near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/240))))).ccls. or (((((375/240.01))))).ccls. or (((((375/240.02))))).ccls. or (((((341/50))))).ccls. or (((((341/51))))).ccls. or (((((341/126))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	DWPI, TDBD					
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		05-26-2017

(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((H03M7/30)))) | ((((H03M7/3059)))) | ((((H03M7/3084)))) | ((((H03M7/6094)))) | ((((H03M7/3088)))) | ((((H03M7/6023)))) | ((((H03M7/6064)))) | ((((H04N19/152)))) | ((((G11B20/00007))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	69	OR	YES		05-26-2017
("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	68	OR	YES		05-26-2017
(("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		05-26-2017

or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))						
("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	76	OR	YES		05-26-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((H03M7/30))) | (((H03M7/3084))) | (((H03M7/6094))) | (((H04N19/164))) | HO4N19/176 | (((H04N19/103))))).CPC.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	62	OR	YES		05-26-2017
("20160127512" | "20160127513" | "5479638" | "5771354").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		05-26-2017
20130297575	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	2	OR	YES		05-26-2017

	TDBD					
(5034914 | 5602764 | 5990810 | 6065094 | 6078541 | 20020196166).PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17	OR	YES		05-26-2017

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ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet | 1 | of | 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	5,034,914	07-23-1991	Osterlund	
	US2	5,602,764	02-11-1997	Eskandari-Gharnin et al.	
	US3	5,990,810	11-23-1999	Williams	
	US4	6,065,094	05-16-2000	Akiyama	
	US5	6,078,541	06-20-2000	Kitagawa et al.	
	US6	2002/0196166 A1	12-26-2002	Satoh et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP1	WO 01/050325	07-12-2001	Efeckta Technologies Corp.		

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Examiner Signature	/TESFALDET BOCURE/	Date Considered	05/24/2017

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Sheet 1 of 11

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Attorney Docket Number	3421.005000C

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	NPL1	Defendant Teradata Operations, Inc.'s Opening Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 40 pages.	
	NPL2	Exhibit D Accompanying Declaration of Jamie R. Lynn, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 43 pages.	
	NPL3	Exhibit E Accompanying Declaration of Jamie R. Lynn, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 46 pages.	
	NPL4	Exhibit H Accompanying Declaration of Jamie R. Lynn, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 15 pages.	
	NPL5	Exhibit U Accompanying Declaration of Jamie R. Lynn, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 7 pages.	
	NPL6	Exhibit 10 Accompanying Declaration of Kenneth Zeger, filed in *Realtime Data LLC d/b/a IXO v. Teradat Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. California), filed February 7, 2017; 12 pages.	
	NPL7	Plaintiff Realtime Data LLC's Opening Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. Cal.), filed February 10, 2017; 36 pages.	
	NPL8	Expert Declaration of Kenneth Zeger, filed in *Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, Case No. 2:16-cv-02743 (C.D. Cal.), filed February 10, 2017; 49 pages.	
	NPL9	Complaint for Patent Infringement, filed in *Realtime Data LLC d/b/a IXO v. Echostar Corporation et al.*, Case No. 6:17-cv-00084 (E.D. Texas), filed February 14, 2017; 39 pages.	
	NPL10	Realtime's Opening Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 3:16-cv-02595 (N.D. California), filed February 21, 2017; 26 pages.	

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				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	2	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

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	NPL11	Complaint for Patent Infringement Against Arconis, Inc., filed in *Realtime Data LLC d/b/a IXO v. Acronis, Inc.,* Case No. 6:17-cv-00118 (E.D. Texas), filed February 27, 2017; 26 pages.	
	NPL12	Complaint for Patent Infringement Against Array Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Array Networks Inc.,* Case No. 6:17-cv-00119 (E.D. Texas), filed February 27, 2017; 33 pages.	
	NPL13	Complaint for Patent Infringement Against Barracuda Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Barracuda Networks Inc.,* Case No. 6:17-cv-00120 (E.D. Texas), filed February 27, 2017; 99 pages.	
	NPL14	Complaint for Patent Infringement Against Carbonite Networks Inc. and Evault Inc., filed in *Realtime Data LLC d/b/a IXO v. Carbonite, Inc. et al.,* Case No. 6:17-cv-00121 (E.D. Texas), filed February 27, 2017; 45 pages.	
	NPL15	Complaint for Patent Infringement Against Circadence Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Circadence Corporation,* Case No. 6:17-cv-00122 (E.D. Texas), filed February 27, 2017; 33 pages.	
	NPL16	Complaint for Patent Infringement Against Commvault Systems, Inc. and Spectra Logic Corporation, filed in *Realtime Data LLC d/b/a IXO v. CommVault Systems, Inc. et al.,* Case No. 6:17-cv-00123 (E.D. Texas), filed February 27, 2017; 58 pages.	
	NPL17	Complaint for Patent Infringement Against Exinda Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Exinda Inc.,* Case No. 6:17-cv-00124 (E.D. Texas), filed February 27, 2017; 26 pages.	
	NPL18	Complaint for Patent Infringement Against Netgear, Inc., filed in *Realtime Data LLC d/b/a IXO v. NETGEAR, Inc.,* Case No. 6:17-cv-00125 (E.D. Texas), filed February 27, 2017; 33 pages.	
	NPL19	Complaint for Patent Infringement Against Synacor, Inc., filed in *Realtime Data LLC d/b/a IXO v. Synacor Inc.,* Case No. 6:17-cv-00126 (E.D. Texas), filed February 27, 2017; 23 pages.	
	NPL20	Joint Claim Constuction and Prehearing Statement and attached Exhibit A, filed in *Realtime Data LLC d/b/a IXO v. Rackspace USA, Inc. et al.,* Case No. 6:16-cv-00961 (E.D. Texas), filed March 7, 2017; 42 pages.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	05/24/2017

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ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Attorney Docket Number	3421.005000C

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	NPL21	Defendant Apple Inc.'s Responsive Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 3:16-cv-02595 (N.D. California), filed March 10, 2017; 25 pages.	
	NPL22	Declaration of Craig Wills, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 3:16-cv-02595 (N.D. California), filed March 10, 2017; 10 pages.	
	NPL23	Realtime's Reply Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Apple Inc.*, Case No. 3:16-cv-02595 (N.D. California), filed March 17, 2017; 12 pages.	
	NPL24	Proposed Joint Pretrial Order, filed in *Realtime Data LLC v. Actian Corporation et al.*, Case No. 6:15-cv-00463 (E.D. Texas), filed March 30, 2017; 103 pages.	
	NPL25	Realtime's Opening Claim Construction Brief, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.*, Case No. 6:16-cv-00961 (E.D. Texas), filed March 31, 2017; 32 pages.	
	NPL26	Exhibit 10 to Realtime's Opening Claim Construction Brief: Expert Declaration of Dr. Kenneth Zeger, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.*, Case No. 6:16-cv-00961 (E.D. Texas), filed March 31, 2017; 47 pages.	
	NPL27	Exhibit 14 to Realtime's Opening Claim Construction Brief: Excerpt from The Hutchinson Dictionary of Computing Multimedia and the Internet, filed in *Realtime Data LLC d/b/a IXO v. Rackspace US, Inc. et al.*, Case No. 6:16-cv-00961 (E.D. Texas), filed March 31, 2017; 4 pages.	
	NPL28	Complaint for Patent Infringement, filed in *Realtime Data LLC d/b/a IXO v. Riverbed Technology, Inc.*, Case No. 6:17-cv-00198 (E.D. Texas), filed April 3, 2017; 19 pages.	
	NPL29	Copy of Final Office Action for U.S. Patent Application No. 14/844,973, mailed February 14, 2017; 22 pages.	
	NPL30	Copy of Notice of Allowance for U.S. Patent Application No. 14/727,309, mailed February 27, 2017; 6 pages.	

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				First Named Inventor	James J. FALLON
				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	4	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
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	NPL31	Copy of Non-Final Office Action for U.S. Patent Application No. 15/391,240, mailed February 17, 2017; 12 pages.	
	NPL32	Copy of Non-Final Office Action for U.S. Patent Application No. 14/305,692, mailed February 10, 2017; 10 pages.	
	NPL33	Copy of Notice of Allowance for U.S. Patent Application No. 14/733,565, mailed February 14, 2017; 7 pages.	
	NPL34	Copy of Notice of Allowance for U.S. Patent Application No. 14/853,581 , mailed March 30, 2017; 5 pages.	
	NPL35	Copy of Non-Final Office Action for U.S. Patent Application No. 14/936,312, mailed April 26, 2017; 11 pages.	
	NPL36	Petition for *Inter Partes* Review of U.S. Patent No. 7,161,506, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00806 (P.T.A.B.), filed January 30, 2016; 57 pages.	
	NPL37	Declaration of Charles D. Creusere, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00806 (P.T.A.B.), filed January 30, 2016; 102 pages.	
	NPL38	Realtime's Appeal Brief Under 37 C.F.R. § 41.67, filed in Inter Partes Reexamination of U.S. Patent No. 7,161,506, Control No. 95/000,479, mailed April 21, 2011; 53 pages.	
	NPL39	Excerpts from Microsoft Press Computer Dictionary, Third Edition, Microsoft Corporation 1997; pp. 71, 162, 307, 383, 485.	
	NPL40	Verdict Form, filed in *Realtime Data LLC d/b/a IXO v. T-Mobile U.S.A., Inc.,* Case No. 6:10-cv-00493-RC-JDL, filed February 11, 2013; 9 pages.	

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	NPL41	Jury Instructions, filed in *Realtime Data LLC d/b/a IXO v. T-Mobile U.S.A., Inc.,* Case No. 6:10-cv-00493-RC-JDL, filed February 11, 2013; 34 pages.	
	NPL42	Transcript of Jury Trial for *Realtime Data LLC d/b/a IXO v. T-Mobile U.S.A., Inc.,* Case No. 6:10-cv-00493-RC-JDL, dated February 8, 2013; 319 pages.	
	NPL43	Order Granting in part Plaintiff's Motion for Judgement as a Matter of Law as to Invalidity, filed in *Realtime Data LLC d/b/a IXO v. T-Mobile U.S.A., Inc.,* Case No. 6:10-cv-00493-RC-JDL, filed March 4, 2013; 17 pages.	
	NPL44	Declaration of Scott Bennett, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00806 (P.T.A.B.), filed January 30, 2016; 158 pages.	
	NPL45	Petition for *Inter Partes* Review of U.S. Patent No. 9,054,728, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00808 (P.T.A.B.), filed January 30, 2016; 66 pages.	
	NPL46	Declaration of Charles D. Creusere, filed in *Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-00808 (P.T.A.B.), filed January 30, 2016; 114 pages.	
	NPL47	Excerpts from Merriam-Webster's Collegiate Dictionary, Tenth Edition, Merriam-Webster Inc. 2000; pp. 12, 53, 56, 913, 918.	
	NPL48	Excerpts from Merriam-Webster's Collegiate Dictionary, Deluxe Edition, Merriam-Webster Inc. 1998; pp. 19, 81, 86, 1436, 1444.	
	NPL49	Oracle's Reply to Patent Owner's Response to the Petition, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2016-00373 (P.T.A.B.), filed February 2, 2017; 28 pages.	
	NPL50	Transcript of Markman Hearing in *Realtime Data LLC v. CME Group Inc., et al.,* Case No. 1.11-cv-06697-KBF (S.D. New York), filed May 14, 2012; 200 pages.	

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	NPL51	Deposition of Kenneth A. Zeger, Ph.D., filed in *Oracle America v. Realtime Data LLC.*, Case No. IPR2016-00373 (P.T.A.B.), filed February 2, 2017; 94 pages.	
	NPL52	Oracle's Reply to Patent Owner's Response to the Petition, filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2016-00374 (P.T.A.B.), filed February 2, 2017; 34 pages.	
	NPL53	Supplemental Declaration of Professor James A. Storer, Ph.D., filed in *Oracle America, Inc. v. Realtime Data LLC*, Case No. IPR2016-00374 (P.T.A.B.), filed February 2, 2017; 3 pages.	
	NPL54	Patent Owner's Response, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed February 8, 2017; 51 pages.	
	NPL55	Declaration of Kenneth A. Zeger, Ph.D., filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed February 8, 2017; 59 pages.	
	NPL56	Sachs, "Using Curves and Histograms," Digital Light and Color 1996; 19 pages.	
	NPL57	Oral Deposition of Charles D. Creusere, Ph.D., filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed February 8, 2017; 110 pages.	
	NPL58	Patent Owner's Response, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00978 (P.T.A.B.), filed February 8, 2017; 58 pages.	
	NPL59	Declaration of Kenneth A. Zeger, Ph.D., filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00978 (P.T.A.B.), filed February 8, 2017; 72 pages.	
	NPL60	Excerpt from The American Heritage Dictionary of the English Language, Third Edition, Houghton Mifflin Company 1992; p. 1782.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	05/24/2017

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Substitute for form 1449/PTO				Complete if Known	
ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	7	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL61	Excerpt from Webster's New World College Dictionary, Fourth Edition, Macmillian USA 1999; p. 1421.	
	NPL62	Excerpts from Microsoft Computer Dictionary, Fourth Edition, Microsoft Corporation 1999; pp. 126.	
	NPL63	Corrected Patent Owner's Response, filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed February 14, 2017; 60 pages.	
	NPL64	Oral Deposition of Charles D. Creusere, Ph.D., filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed February 8, 2017; 65 pages.	
	NPL65	Excerpts from Newton's Telecom Dictionary, Eleventh Edition, Harry Newton 1996; pp. 423 and 682.	
	NPL66	Declaration of Kenneth A. Zeger, Ph.D., filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed February 8, 2017; 156 pages.	
	NPL67	Corrected Patent Owner's Response, filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-01002 (P.T.A.B.), filed February 14, 2017; 55 pages.	
	NPL68	Declaration of Kenneth A. Zeger, Ph.D., filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-01002 (P.T.A.B.), filed February 14, 2017; 135 pages.	
	NPL69	Decision Institution of *Inter Partes* Review, filed in *Oracle America, Inc. v. Realtime Data LLC,* Case No. IPR2016-01671 (P.T.A.B.), filed March 8, 2017; 11 pages.	
	NPL70	Petition for *Inter Partes* Review of U.S. Patent No. 7,415,530 under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42.100 *et seq.*, filed in *NetApp Inc. v. Realtime Data LLC,* Case No. IPR2017-01195 (P.T.A.B.), filed March 30, 2017; 74 pages.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	05/24/2017

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ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
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(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	8	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL71	Declaration of Daniel Hirschberg, filed in *NetApp Inc. v. Realtime Data LLC*, Case No. IPR2017-01195 (P.T.A.B.), filed March 30, 2017; 63 pages.	
	NPL72	Lelewer et al., "Data Compression," ACM Computing Surveys, Vol. 19, No. 3, September 1987; 36 pages.	
	NPL73	Petition for *Inter Partes* Review of U.S. Patent No. 9,116,908 under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42.100 *et seq.*, filed in *NetApp Inc. v. Realtime Data LLC,* Case No. IPR2017-01196 (P.T.A.B.), filed March 30, 2017; 75 pages.	
	NPL74	Declaration of Daniel Hirschberg, filed in *NetApp Inc. v. Realtime Data LLC*, Case No. IPR2017-01196 (P.T.A.B.), filed March 30, 2017; 60 pages.	
	NPL75	HPE, HPES, and Teradata's Reply to Patent Owner's Response to the Petition, filed in *HPE et al. v. Realtime Data LLC,* Case No. IPR2016-00783 (P.T.A.B.), filed April 5, 2017; 35 pages.	
	NPL76	Supplemental Declaration of Charles D. Creusere in Support of HPE, HPES, and Teradata's Reply to Patent Owner's Response to the Petition, filed in *HPE et al. v. Realtime Data LLC,* Case No. IPR2016-00783 (P.T.A.B.), filed April 5, 2017; 5 pages.	
	NPL77	Transcript of February 23, 2017 Deposition of Leonard Laub, filed in *HPE et al. v. Realtime Data LLC,* Case No. IPR2016-00783 (P.T.A.B.), filed April 5, 2017; 151 pages.	
	NPL78	Patent Owner Realtime Data, LLC d/b/a IXO's Response, filed in *Apple, Inc. v. Realtime Data, LLC d/b/a IXO,* Case No. IPR2016-01366, filed April 6, 2017; 58 pages.	
	NPL79	Expert Declaration of Dr. Godmar Back in Support of the Patent Owner's Response, filed in *Apple, Inc. v. Realtime Data, LLC d/b/a IXO,* Case No. IPR2016-01366, filed April 6, 2017; 53 pages.	
	NPL80	Excerpt from The American Heritage Dictionary, Second College Edition, Boston, MA, Houghton Mifflin Company: 1982; p. 499.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	05/24/2017

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Substitute for form 1449/PTO				*Complete if Known*	
ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
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(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	9	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL81	Excerpts from Dictionary of Computer and Internet Words: An A to Z Guide to Hardware, Software, and Cyberspace, Boston, MA, Houghton Mifflin Company: 2001; pp. 161, 259.	
	NPL82	Excerpts from IEEE Standard Computer Dictionary: A Compilation of IEEE Standard Computer Glossaries," The Institute of Electrical and Electronics Engineers: 1990; pp. 87, 122, 192.	
	NPL83	Excerpt from IEEE Standard Glossary of Computer Hardware Terminology," The Institute of Electrical and Electronics Engineers: 1994; p. 71	
	NPL84	Excerpt from IEEE Standard Glossary of Software Engineering Terminology," The Institute of Electrical and Electronics Engineers: 1990; pp. 33, 44, 71.	
	NPL85	Excerpts from Microsoft Computer Dictionary, Fifth Edition, Redmond, WA, Microsoft Corporation: 2002; pp. 210, 315, 499.	
	NPL86	Excerpts from Oxford Dictionary of Computing, Oxford University Press, Market House Books Ltd.: 2004; pp. 262-263.	
	NPL87	Excerpt from McKusick et al., "The Design and Implementation of the 4.4BSD Operating System," Addison-Wesley Longman, Inc.: 1996; p. 535.	
	NPL88	Petition for *Inter Partes* Review of U.S. Patent No. 9,054,728, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01354 (P.T.A.B.), filed May 2, 2017; 69 pages.	
	NPL89	Declaration of Daniel Hirschberg, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01354 (P.T.A.B.), filed May 2, 2017; 59 pages.	
	NPL90	Reply to Office Action in Inter Partes Reexamination of U.S. Pat. No. 7,161,506, Control No. 95/000,479, filed March 15, 2010, 23 pgs.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	05/24/2017

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Substitute for form 1449/PTO				*Complete if Known*	
ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
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(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	10	of	11	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL91	Extension of Time Period for Response Declined in Inter Partes Reexamination of U.S. Pat. No. 7,161,506, Control No. 95/000,479, filed September 28, 2010, 7 pages.	
	NPL92	Unix Command Webpage, retrieved from http://web-beta.archive.org/web/web/20010810082609/; 14 pages.	
	NPL93	Petitioners' Reply, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed May 10, 2017; 22 pages.	
	NPL94	Deposition Transcript of Kenneth A. Zeger held April 19, 2017, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00980 (P.T.A.B.), filed May 10, 2017; 102 pages.	
	NPL95	Petitioners' Reply, filed in *Dell, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-01002 (P.T.A.B.), filed May 10, 2017; 31 pages.	
	NPL96	Deposition Transcript of Kenneth A. Zeger held April 10, 2017, filed in *Dell, Inc. et al. v. Realtime Data LLC,*Case No. IPR2016-01002 (P.T.A.B.), filed May 10, 2017; 216 pages.	
	NPL97	Exhibit 1 to the April 10, 2017 Deposition of Kenneth A. Zeger, filed in *Dell, Inc. et al. v. Realtime Data LLC*, Case No. IPR2016-01002 (P.T.A.B.), filed May 10, 2017; 1 page.	
	NPL98	Exhibit 2 to the April 10, 2017 Deposition of Kenneth A. Zeger, filed in *Dell, Inc. et al. v. Realtime Data LLC*, Case No. IPR2016-01002 (P.T.A.B.), filed May 10, 2017; 1 page.	
	NPL99	Petitioners' Reply, filed in *Riverbed Technology, Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00978 (P.T.A.B.), filed May 10, 2017; 34 pages.	
	NPL100	Excerpt from Newton's Telecom Dictionary, Eleventh Edition, Harry Newton 1996; p. 145.	

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Examiner Signature	/TESFALDET BOCURE/	Date Considered	05/24/2017

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ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
(Use as many sheets as necessary)				Examiner Name	BOCURE, Tesfaldet
Sheet	11	of	11	Attorney Docket Number	3421.005000C

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	NPL101	Petitioners' Reply, filed in *Dell Inc. et al. v. Realtime Data LLC,* Case No. IPR2016-00972 (P.T.A.B.), filed May 10, 2017; 35 pages.	
	NPL102	Update Court Docket History for Realtime Data LLC d/b/a IXO v. Actian Corporation, et al., Case No. 6:15-cv-00463 (E.D. Texas), downloaded April 3, 2017, 50 pages.	
	NPL103	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al., No. 6:16-cv-00086 (E.D. Texas), downloaded April 3, 2017, 11 pages.	
	NPL104	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Oracle America, Inc., No. 6:16-cv-00088 (E.D. Texas), downloaded April 3, 2017; 15 pages.	
	NPL105	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al., No. 6:16-cv-00087 (E.D. Texas), downloaded April 3, 2017; 11 pages.	
	NPL106	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Dell, Inc., et al., No. 6:16-cv-00089 (E.D. Texas), downloaded April 3, 2017; 12 pages.	
	NPL107	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc., Case No. 2:16-cv-02743 (C.D. Cal), downloaded April 3, 2017; 7 pages.	
	NPL108	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al., No. 6:16-cv-00961 (E.D. Texas), downloaded April 3, 2017; 13 pages.	
	NPL109	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc., et al., No. 6:16-cv-01035 (E.D. Texas), downloaded April 3, 2017; 6 pages.	
	NPL110	Updated Court Docket History for Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc., No. 6:16-cv-01037 (E.D. Texas), downloaded April 3, 2017; 4 pages.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	05/24/2017

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Data LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Eleventh Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

05/24/2017

/TESFALDET BOCURE/

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Inter Partes Reexamination Certificate issued 08/01/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be provided to the Examiner upon request.

/TESFALDET BOCURE/ 05/24/2017

Atty. Dkt. No. 3421.005000C

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00373	7,378,992	Joint motion to terminate 3/30/17
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00374	8,643,513	Joint motion to terminate 3/30/17
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00375	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00376	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00377	9,116,908	Institution Denied 7/1/2016
SAP America Inc., et al. v. Realtime Data, LLC d/b/a IXO, IPR2016-00783	6,597,812	Petitioner's Reply 4/5/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00878	7,415,530	Dismissed 6/21/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00972	7,415,530	Petitioner's Reply 5/10/2017
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00978	8,643,513	Petitioner's Reply 5/10/2017
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00980	7,378,992	Petitioner's Reply 5/10/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-01002	9,116,908	Petitioner's Reply 5/10/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01365	7,181,608	Patent Owner's Response filed 4/6/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01366	8,090,936	Patent Owner's Response filed 4/6/2017
Oracle America Inc. v. Realtime Data LLC, IPR2016-01671	7,415,530	Terminated (Joined with IPR2016-00972)
Oracle America Inc. v. Realtime Data LLC, IPR2016-01672	9,116,908	Terminated (Joined with IPR2016-01002)
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01737	8,880,862	Instituted 3/14/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01738	8,880,862	Instituted 3/20/2017

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Proceeding	Patent	Status
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01739	8,880,862	Instituted 3/14/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00108	9,054,728	Terminated 4/11/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00167	6,597,812	Terminated 4/11/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00168	6,597,812	Terminated 4/11/2017
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00176	7,161,506	Patent Owner's Preliminary Response filed 3/1/2017
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00179	9,054,728	Patent Owner's Preliminary Response filed 3/1/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00364	9,116,908	Filed 11/30/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00365	7,415,530	Filed 11/30/2016
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00366	8,643,513	Filed 11/30/2016
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00557	7,358,867	Patent Owner's Preliminary Response filed 4/19/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00806	7,161,506	Filed 1/30/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00808	9,054,728	Filed 1/30/2017
NetApp Inc. v. Realtime Data LLC, IPR2017-01195	7,415,530	Filed 3/30/2017
NetApp Inc. v. Realtime Data LLC, IPR2017-01196	9,116,908	Filed 3/30/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01354	9,054,728	Filed 5/2/2017

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent

/TESFALDET BOCURE/ 05/24/2017

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application are listed on the accompanying Form PTO/SB/08 as documents **US1, US5, FP1,** and **NPL36-NPL101.**

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4

/TESFALDET BOCURE/ 05/24/2017

 ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

No.	Case	Status
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed 5/1/2015
12	*Realtime Data, LLC d/b/a IXO v. Actian Corporation, et al.*, No. 6:15-cv-00463 (E.D. Texas)	Order to submit claim constructions 4/10/2017
13	*Realtime Data, LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed 2/22/2016
14	*Realtime Data, LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12
15	*Realtime Data, LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12
16	*Realtime Data, LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated 10/5/ 2015
17	*Realtime Data, LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22
18	*Realtime Data, LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 5:16-cv-01836 (N.D. Cal.) (transferred from E.D. Texas; 6:15-cv-00470)	Case dismissed 5/18/2016
20	*Realtime Data, LLC d/b/a IXO v. Apple Inc.*, No. 3:16-cv-02595 (transferred from E.D. Texas; 6:15-cv-00885)	Stayed pending *inter partes* review 3/27/2017
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Transferred to N.D. California – Case No. 42
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Final Judgment all claims dismissed 5/15/2017
23	*Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al.*, No. 6:16-cv-00087 (E.D. Texas)	Stayed pending *inter partes* review 3/1/2017
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Stayed pending *inter partes* review 2/7/2017
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Stayed pending *inter partes* review 2/25/2017

/TESFALDET BOCURE/ 05/24/2017 Atty. Dkt. No. 3421.005000C

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

No.	Case	Status
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Motion to Stay denied 4/24/2017
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Transferred to N.D. California – Case No. 41
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Consolidated with Case No. 26
29	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:17-cv-00046 (E.D. Texas)	Final Judgment case dismissed 5/8/2017
30	*Realtime Data LLC d/b/a IXO v. Echostar Corporation et al.*, No. 6:17-cv-00084 (E.D. Texas)	Filed 2/14/2017
31	*Realtime Data LLC d/b/a IXO v. Acronis, Inc.*, No. 6:17-cv-00118 (E.D. Texas)	Filed 2/27/2017
32	*Realtime Data LLC d/b/a IXO v. Array Networks, Inc.*, No. 6:17-cv-00119 (E.D. Texas)	Filed 2/27/2017
33	*Realtime Data LLC d/b/a IXO v. Barracuda Networks, Inc.*, No. 6:17-cv-00120 (E.D. Texas)	Answer to Complaint 4/24/2017
34	*Realtime Data LLC d/b/a IXO v. Carbonite, Inc. et al.*, No. 6:17-cv-00121 (E.D. Texas)	Answer and counterclaim 5/9/2017
35	*Realtime Data LLC d/b/a IXO v. Circadence Corporation*, No. 6:17-cv-00122 (E.D. Texas)	Final Judgment case dismissed 4/25/2017
36	*Realtime Data LLC d/b/a IXO v. CommVault Systems, Inc. et al.*, No. 6:17-cv-00123 (E.D. Texas)	Filed 2/27/2017
37	*Realtime Data LLC d/b/a IXO v. Exinda Inc.*, No. 6:17-cv-00124 (E.D. Texas)	Filed 2/27/2017
38	*Realtime Data LLC d/b/a IXO v. NETGEAR, Inc.*, No. 6:17-cv-00125 (E.D. Texas)	Answer to Complaint 5/8/2017
39	*Realtime Data LLC d/b/a IXO v. Synacor Inc.*, No. 6:17-cv-00126 (E.D. Texas)	Filed 2/27/2017
40	*Realtime Data LLC d/b/a IXO v. Riverbed Technology, Inc.*, No. 6:17-cv-00198 (E.D. Texas)	Filed 4/3/2017
41	*Realtime Data LLC v. Fujitsu America, Inc. et al.*, No. 3:17-cv-02109 (N.D. Cal.)	Transferred in from E.D. Texas 4/17/2017
42	*Realtime Data LLC v. Silver Peak Systems, Inc.*, No. 3:17-cv-02373 (N.D. Cal.)	Transferred in from E.D. Texas 4/26/2017

Updated court dockets for pending litigation are submitted herewith as documents **NPL102-NPL110.**

/TESFALDET BOCURE/ 05/24/2017

Atty. Dkt. No. 3421.005000C

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action

on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

A copy of document **NPL33** is submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copies of U.S. patents and patent application publications cited as documents **US1-US6** on the attached IDS Forms are submitted.

Copies of the **NPL1-NPL32** and **NPL34-NPL110** documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 14/733,565, filed June 8, 2015 (now pending), which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is expected that the examiner will review the prosecution and cited art in the parent application no(s). 14/733,565, filed June 8, 2015 (now pending) in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

In accordance with the Federal Circuit decision in *Dayco Prods., Inc. v. Total Containment, Inc.* 329 F.3d 1358 (Fed. Cir. 2003), Applicants submit herewith Office Actions from the co-pending, commonly assigned U.S. Patent Applications as documents **NPL29-NPL35**.

The identification of these Office Actions is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

/TESFALDET BOCURE/ 05/24/2017

Atty. Dkt. No. 3421.005000C

L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STEIN, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: May 17, 2017

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600
5129899_1

 L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

CPC								
Symbol							**Type**	**Version**
H04N		19	/	103			F	2014-11-01
H04N		19	/	164			I	2014-11-01
H04N		19	/	176			I	2014-11-01
H03M		7	/	30			I	2013-01-01
H03M		7	/	3084			I	2013-01-01
H03M		7	/	6094			I	2013-01-01
			/					
			/					
			/					
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			/					
			/					
			/					

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	29	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	05/27/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No. 20170526

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
375	240.1	H	0	4	N	7 / 12 (2006.01.01)						

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	29	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	05/27/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

☒ **Claims renumbered in the same order as presented by applicant** ☐ **CPA** ☐ **T.D.** ☐ **R.1.47**

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	16	17	29	33										
2	2	17	18												
-	3	20	19												
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11	12	27	28												
12	13	28	29												
13	14	-	30												
14	15	18	31												
15	16	19	32												

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 29	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634 (Primary Examiner)	05/27/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

CPC- SEARCHED

Symbol	Date	Examiner
((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((G06F15/7867)) | ((G06T1/60)) | ((H04N19/136).CPC.)	01/22/2016	TB
((H03M7/30)) | ((H03M7/3059)) | ((H03M7/3093)) | ((H04L69/04)) | ((H04N19/152)) | ((H04N9/8042).CPC.)	01/22/2016	TB
((H03M7/30 | H03M7/3059 | H03M7/3084 | H03M7/6094 | H03M7/3088 | H03M7/6023 | H03M7/6064 | H04N19/152 | G11B20/00007).CPC.)	01/23/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC.	04/17/2016	TB
CPC Updated, see WEST search result for search strategy.	04/18/2016	TB
CPC Updated, see WEST search result for search strategy.	05/29/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC. Updated	08/05/2016	TB
CPC Updated, see WEST search result for search strategy.	10/16/2016	TB
CPC Updated, see WEST search result for search strategy.	12/08/2016	TB
CPC Updated, see WEST search result for search strategy.	01/31/2017	TB
CPC Updated, see WEST search result for search strategy.	02/18/2017 & 02/20/2017	TB

CPC COMBINATION SETS - SEARCHED

Symbol	Date	Examiner

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
375	240, 240.01, 240.02	01/22/2016	TB

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
341	50, 51, 126	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search ALL ($8.ccls.), See WEST Search for terms used with the clases	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	01/23/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	04/17/2016 & 04/18/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	05/29/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated, See WEST Search	08/05/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	10/16/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	12/08/2016	TB
375, 370, 348, 341, 711, 701, 381	See WEST search result	01/31/2017	TB
375, 370, 348, 341, 711, 701, 381	See WEST search result	02/18/2017 & 02/20/2017	TB

SEARCH NOTES

Search Notes	Date	Examiner
WEST and Inventor's Name Searched	01/22/2016	TB
See Realted parent application 14/733,565 for further presecution History	01/22/2016	TB
WEST Search Updated	01/23/2016	TB
WEST Search Updated	04/17/2016	TB
WEST Search Updated	04/18/2016	TB
WEST Search Updated	05/29/2016	TB
WEST Search Updated	08/05/2016	TB
WEST Search Updated	10/16/2016	TB
WEST Search Updated	12/08/2016	TB
WEST Search Updated	01/31/2017	TB
WEST search updated	02/18/2017 & 02/20/2017	TB

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
375	240, 240.1	04/18/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	04/18/2016	TB
375	240, 240.1	05/29/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	05/29/2016	TB
375	240, 240.1	08/05/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	08/05/2016	TB
375	240, 240.1	10/16/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	10/16/2016	TB
375	240, 240.1	12/08/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	12/08/2016	TB
375	240, 240.1	01/31/2017	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	01/31/2017	TB
375	240, 240.1	02/20/2017	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	02/20/2017	TB

UNITED STATES PATENT AND TRADEMARK OFFICE

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BIB DATA SHEET

CONFIRMATION NO. 3403

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/876,276	10/06/2015	375	2634	3421.005000C

APPLICANTS

Realtime Data, LLC, Armonk, NY;

INVENTORS

James J. FALLON, Armonk, NY;
Stephen J. MCERLAIN, Astoria, NY;

**** CONTINUING DATA ***************************

This application is a CON of 14/733,565 06/08/2015
which is a CON of 14/577,286 12/19/2014 ABN
which is a CON of 14/134,933 12/19/2013 PAT 8929442
which is a CON of 14/033,245 09/20/2013 PAT 8934535
which is a CON of 13/154,239 06/06/2011 PAT 8553759
which is a CON of 12/123,081 05/19/2008 PAT 8073047
which is a CON of 10/076,013 02/13/2002 PAT 7386046
which claims benefit of 60/268,394 02/13/2001

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

10/20/2015

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /TESFALDET BOCURE/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		NY	4	30	2

ADDRESS

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005
UNITED STATES

TITLE

Video Data Compression Systems

FILING FEE RECEIVED		
2400	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07).

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	01/23/2016	04/18/2016	05/29/2016	08/05/2016	10/17/2016	12/08/2016	01/31/2017	02/20/2017	05/26/2017
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28	29	✓	=	=	=	=	=	=	=	=
-	30	✓	=	=	=	=	=	=	=	-
18	31									=
19	32									=
29	33									=

WEST Search History for Application 14876276

Creation Date: 2017052712:17

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((Fallen adj James).in. or (McErlain adj Stephen).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	47	OR	YES		05-26-2017
((Fallen).in. or (McErlain).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	181	OR	YES		05-26-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		05-26-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	77	OR	YES		05-26-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and @ad<=20010213	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		05-26-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2	PGPB, USPT, USOC,	37	OR	YES		05-26-2017

ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))	EPAB, JPAB, DWPI, TDBD					
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	OR	YES		05-26-2017
(selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		05-26-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric $4near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6457	OR	YES		05-26-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric$4 near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		05-26-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same ((fast near4 slow) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		05-26-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	33	OR	YES		05-26-2017

((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((((((H03M7/30)))))) | ((((((H03M7/3084)))))) | ((((((H03M7/6094)))))) | ((((((G06F15/7867)))))) | ((((((G06T1/60)))))) | ((((((H04N19/136))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	OR	YES		05-26-2017
(((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((((((H03M7/30)))))) | ((((((H03M7/3059)))))) | ((((((H03M7/3093)))))) | ((((((H04L69/04)))))) | ((((((H04N19/152)))))) | ((((((H04N9/8042))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		05-26-2017
("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		05-26-2017
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1298920	OR	YES		05-26-2017
((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		05-26-2017

same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))						
((((((375/240))))).ccls. or ((((((375/240.01))))).ccls. or ((((((375/240.02))))).ccls. or ((((((341/50))))).ccls. or ((((((341/51))))).ccls. or ((((((341/126))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		05-26-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	28	OR	YES		05-26-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	93	OR	YES		05-26-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4	PGPB, USPT, USOC, EPAB, JPAB,	50	OR	YES		05-26-2017

((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/240))))).ccls. or (((((375/240.01))))).ccls. or (((((375/240.02))))).ccls. or (((((341/50))))).ccls. or (((((341/51))))).ccls. or (((((341/126))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	DWPI, TDBD					
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/$8))))).ccls. or (((((370/$8))))).ccls. or (((((348/$8))))).ccls. or (((((341/$8))))).ccls. or (((((711/$8))))).ccls. or (((((701/$8))))).ccls. or (((((381/$8))))).ccls. or (((((375/382))))).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		05-26-2017

(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((H03M7/30)))) | ((((H03M7/3059)))) | ((((H03M7/3084)))) | ((((H03M7/6094)))) | ((((H03M7/3088)))) | ((((H03M7/6023)))) | ((((H03M7/6064)))) | ((((H04N19/152)))) | ((((G11B20/00007))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	69	OR	YES		05-26-2017
("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	68	OR	YES		05-26-2017
(("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		05-26-2017

or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))						
("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	76	OR	YES		05-26-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((H03M7/30))) | (((H03M7/3084))) | (((H03M7/6094))) | (((H04N19/164))) | HO4N19/176 | (((H04N19/103)))).CPC.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	62	OR	YES		05-26-2017
("20160127512" | "20160127513" | "5479638" | "5771354").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		05-26-2017
20130297575	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	2	OR	YES		05-26-2017

	TDBD					
(5034914 | 5602764 | 5990810 | 6065094 | 6078541 | 20020196166).PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17	OR	YES		05-26-2017
((Fallen adj James).in. or (McErlain adj Stephen).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	47	OR	YES		05-27-2017
((Fallen).in. or (McErlain).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	181	OR	YES		05-27-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		05-27-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	77	OR	YES		05-27-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and @ad<=20010213	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		05-27-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2	PGPB, USPT, USOC,	37	OR	YES		05-27-2017

ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))	EPAB, JPAB, DWPI, TDBD					
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	OR	YES		05-27-2017
(selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		05-27-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric $4near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6457	OR	YES		05-27-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric$4 near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		05-27-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same ((fast near4 slow) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		05-27-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	33	OR	YES		05-27-2017

((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((((H03M7/30))))))) | (((((((H03M7/3084))))))) | (((((((H03M7/6094))))))) | (((((((G06F15/7867))))))) | (((((((G06T1/60))))))) | (((((((H04N19/136))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	OR	YES		05-27-2017
(((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and (((((((((H03M7/30))))))) | (((((((H03M7/3059))))))) | (((((((H03M7/3093))))))) | (((((((H04L69/04))))))) | (((((((H04N19/152))))))) | (((((((H04N9/8042))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		05-27-2017
("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		05-27-2017
(((((((375/$8))))))).ccls. or ((((((370/$8))))))).ccls. or ((((((348/$8))))))).ccls. or ((((((341/$8))))))).ccls. or ((((((711/$8))))))).ccls. or ((((((701/$8))))))).ccls. or ((((((381/$8))))))).ccls. or ((((((375/382))))))).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1301185	OR	YES		05-27-2017
(((((((375/$8))))))).ccls. or ((((((370/$8))))))).ccls. or ((((((348/$8))))))).ccls. or ((((((341/$8))))))).ccls. or ((((((711/$8))))))).ccls. or ((((((701/$8))))))).ccls. or ((((((381/$8))))))).ccls. or ((((((375/382))))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		05-27-2017

ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))						
(((((((375/240))))))).ccls. or ((((((375/240.01)))))).ccls. or ((((((375/240.02)))))).ccls. or ((((((341/50)))))).ccls. or ((((((341/51)))))).ccls. or ((((((341/126)))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		05-27-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	28	OR	YES		05-27-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	93	OR	YES		05-27-2017
		50	OR	YES		05-27-2017

(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/240))))))).ccls. or ((((((375/240.01)))))).ccls. or ((((((375/240.02)))))).ccls. or ((((((341/50)))))).ccls. or ((((((341/51)))))).ccls. or ((((((341/126)))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((375/$8))))))).ccls. or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		05-27-2017

((((((370/$8)))))).ccls. or ((((((348/$8)))))).ccls. or ((((((341/$8)))))).ccls. or ((((((711/$8)))))).ccls. or ((((((701/$8)))))).ccls. or ((((((381/$8)))))).ccls. or ((((((375/382)))))).ccls.))						
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((H03M7/30))))) | (((((H03M7/3059))))) | (((((H03M7/3084))))) | (((((H03M7/6094))))) | (((((H03M7/3088))))) | (((((H03M7/6023))))) | (((((H03M7/6064))))) | (((((H04N19/152))))) | (((((G11B20/00007))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	69	OR	YES		05-27-2017
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(("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		05-27-2017

plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))						
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(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((H03M7/30)))) | ((((H03M7/3084)))) | ((((H03M7/6094)))) | ((((H04N19/164)))) | HO4N19/176 | ((((H04N19/103))))).CPC.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	62	OR	YES		05-27-2017
("20160127512" | "20160127513" | "5479638" | "5771354").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		05-27-2017
20130297575	PGPB, USPT,	2	OR	YES		05-27-2017

	USOC, EPAB, JPAB, DWPI, TDBD					
(5034914 | 5602764 | 5990810 | 6065094 | 6078541 | 20020196166).PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17	OR	YES		05-27-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((((375/$8))))))).ccls. or ((((((370/$8))))))).ccls. or ((((((348/$8))))))).ccls. or ((((((341/$8))))))).ccls. or ((((((711/$8))))))).ccls. or ((((((701/$8))))))).ccls. or ((((((381/$8))))))).ccls. or ((((((375/382))))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)))) or (("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" |	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		05-27-2017

"6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN.) or (("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) or (("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.))						
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((5034914 | 5602764 | 5990810 | 6065094 | 6078541 | 20020196166).PN.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		05-27-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing)	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	38	OR	YES		05-27-2017

near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))) and (((((((375/$8))))))).ccls. or ((((((370/$8)))))).ccls. or ((((((348/$8)))))).ccls. or ((((((341/$8)))))).ccls. or ((((((711/$8)))))).ccls. or ((((((701/$8)))))).ccls. or ((((((381/$8)))))).ccls. or ((((((375/382)))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN. or ("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN. or ("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" |	TDBD						

"20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.)) not ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))						

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

26111 7590 05/31/2017
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: VIDEO DATA COMPRESSION SYSTEMS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$960	$960	08/31/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
BOCURE, TESFALDET	2634	375-240100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Sterne, Kessler, Goldstein &
2 Fox P.L.L.C.
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Realtime Adaptive Streaming, LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Tyler, TX

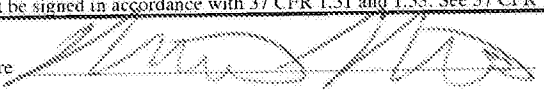
Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 19-0036 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
☐ Applicant certifying micro entity status. See 37 CFR 1.29
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
☐ Applicant asserting small entity status. See 37 CFR 1.27
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
☐ Applicant changing to regular undiscounted fee status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature  Date June 08, 2017

Typed or printed name Michael V. Messinger Registration No. 37,575

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Adaptive Streaming, LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Amendment Under 37 C.F.R. § 1.312

Mail Stop Issue Fee

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Submitted herein is an Amendment Under 37 C.F.R. § 1.312. As payment of the issue fee has not yet been made or is filed herewith, Applicant respectfully submits that filing under 37 C.F.R. § 1.312 is proper. (M.P.E.P. § 714.16.)

It is not believed that extensions of time are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A system, comprising:

a plurality of different asymmetric data compression encoders,

wherein each asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to utilize one or more data compression algorithms, and

wherein a first asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to compress data blocks containing video or image data at a higher data compression rate than a second asymmetric data compression encoder of the plurality of different asymmetric data compression encoders; and

one or more processors configured to:

determine one or more data parameters, at least one of the determined one or more data parameters relating to a throughput of a communications channel measured in bits per second; and

select one or more asymmetric data compression encoders from among the plurality of different asymmetric data compression encoders based upon, at least in part, the determined one or more data parameters.

2. (Previously Presented) The system of claim 1, wherein at least one of the plurality of different asymmetric data compression encoders is configured to utilize an arithmetic algorithm.

3. (Canceled)

4. (Original) The system of claim 1, wherein the throughput of the communications channel comprises:

an estimated throughput of the communications channel.

5. (Original) The system of claim 1, wherein the throughput of the communications channel comprises:

an expected throughput of the communications channel.

6. (Previously Presented) The system of claim 1, wherein the selected one or more asymmetric data compression encoders are configured to compress the data blocks containing video or image data for output at different data transmission rates measured in bits per second to produce a plurality of compressed data blocks.

7. (Previously Presented) The system of claim 1, wherein at least one of the plurality of different asymmetric data compression encoders is configured to utilize a standardized data compression algorithm capable of compressing video data.

8. (Currently Amended) The system of claim 1, wherein at least one of the determined one or more data parameters comprises:

a resolution of the data blocks containing video or image data.

9. (Currently Amended) The system of claim 1, wherein at least one of the determined one or more data parameters comprises:

a data transmission rate of the data blocks containing video or image data.

10. (Currently Amended) The system of claim 1, wherein at least one of the determined one or more data parameters comprises:

an attribute or a value related to a format or a syntax of video or image data contained in the data blocks containing video or image data.

11. (Previously Presented) The system of claim 1, wherein the selected one or more asymmetric data compression encoders are configured to utilize a content-dependent data compression algorithm.

12. (Previously Presented) The system of claim 11, wherein the content-dependent data compression algorithm comprises:

an arithmetic algorithm.

13. (Previously Presented) The system of claim 1, wherein the selected one or more asymmetric data compression encoders are configured to perform compression in real-time or substantially real-time.

14. (Original) The system of claim 1, wherein the communications channel comprises:

a distributed network.

15. (Original) The system of claim 14, wherein the distributed network comprises:

the Internet.

16. (Previously Presented) The system of claim 1, wherein the selected one or more asymmetric data compression encoders are utilized to compress the data blocks containing video or image data to create one or more compressed data blocks, and

wherein a descriptor is associated with the one or more compressed data blocks that indicates the selected one or more asymmetric data compression encoders.

17. (Previously Presented) The system of claim 1, wherein the selected one or more asymmetric data compression encoders are utilized to compress the data blocks containing video or image data to create one or more compressed data blocks, and

wherein a descriptor indicating the selected one or more asymmetric data compression encoders is included with the one or more compressed data blocks.

18. (Currently Amended) The system of claim 1, wherein at least one of the determined one or more data parameters comprises:

a video or image data profile.

19. (Currently Amended) A system, comprising:

a plurality of video data compression encoders;

wherein at least one of the plurality of video data compression encoders is configured to utilize an asymmetric data compression algorithm, and

wherein at least one of the plurality of video data compression encoders is configured to utilize an arithmetic data compression algorithm,

wherein a first video data compression encoder of the plurality of video data compression encoders is configured to compress at a higher compression ratio than a second data compression encoder of the plurality of data compression encoders; and

one or more processors configured to:

determine one or more data parameters, at least one of the determined one or more data parameters relating to a throughput of a communications channel; and

select one or more video data compression encoders from among the plurality of video data compression encoders based upon, at least in part, the determined one or more data parameters.

20. (Canceled)

21. (Original) The system of claim 19, wherein the throughput of the communications channel comprises:

an estimated or expected throughput of the communications channel.

22. (Previously Presented) The system of claim 19, wherein the selected one or more video data compression encoders are configured to compress one or more data blocks containing video data for different data transmission rates measured in bits per second to produce a plurality of compressed data blocks.

23. (Canceled)

24. (Currently Amended) The system of claim 19, wherein at least one of the determined one or more data parameters are related to a resolution of one or more data blocks containing video data.

25. (Currently Amended) The system of claim 19, wherein at least one of the determined one or more data parameters comprises:

a data transmission rate of one or more data blocks containing video data.

26. (Currently Amended) The system of claim 19, wherein at least one of the determined one or more data parameters comprises:

an attribute or a value related to a format or a syntax of video data contained in one or more data blocks containing video data.

27. (Previously Presented) The system of claim 19, wherein the selected one or more video data compression encoders are configured to perform data compression in real-time or substantially real-time.

28. (Previously Presented) The system of claim 19, wherein the communications channel comprises:

a distributed network or the Internet.

29. (Previously Presented) The system of claim 19, wherein one or more data blocks containing video data are compressed with the selected one or more video data compression encoders to create one or more compressed data blocks, and

wherein a descriptor is associated with the one or more compressed data blocks that indicates the selected one or more video data compression encoders.

30. (Canceled)

31. (Previously Presented) The system of claim 1, wherein the one or more processors are further configured to encode each of the data blocks containing video or image data with a plurality of the selected one or more asymmetric data compression encoders to create compressed data blocks.

32. (Previously Presented) The system of claim 31, further comprising:

a memory for storing the compressed data blocks.

33. (Previously Presented) The system of claim 19, wherein the one or more processors are configured to encode each of one or more data blocks with a plurality of the selected one or more asymmetric data compression encoders to create compressed data blocks.

Remarks

Upon entry of the foregoing amendment, claims 1, 2, 4-19, 21, 22, 24-29, and 31-33 are pending in this Application, with claims 1 and 19 being the independent claims. Claims 1, 8-10, 18, 19, and 24-26 are sought to be amended.

Reconsideration of this application and entry of the above Amendments are respectfully requested.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: June 14, 2017

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*	Confirmation No.: 3403
Applicant: Realtime Adaptive Streaming, LLC	Art Unit: 2634
Application No.: 14/876,276	Examiner: BOCURE, Tesfaldet
Filing Date: October 6, 2015	Atty. Docket: 3421.005000C
Title: **Video Data Compression Systems**	

Request to Change the Applicant Under 37 C.F.R. § 1.46(c)(2) After an Original Applicant has been Specified

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Applicant hereby requests that the United States Patent and Trademark Office change the applicant under 37 C.F.R. § 1.46(c)(2) after an original applicant has been specified in the above-captioned patent application. Specifically, Applicant hereby requests that the Office change the applicant from Realtime Data, LLC to Realtime Adaptive Streaming, LLC. This request is accompanied by:

(1) A signed Application Data Sheet specifying the applicant, Realtime Adaptive Streaming, LLC, in the Applicant Information section;

(2) Power of Attorney (PTO/AIA/80); and

(3) Statement Under 37 C.F.R. 3.73(c) (PTO/AIA/96).

Prompt and favorable consideration of this request is respectfully requested. Applicant hereby authorizes the U.S. Patent and Trademark Office to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: June 14, 2017

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

5377508_1.docx

PTO/AIA/14 (07-14)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~2855.005000C~~ 3421.005000C
	Application Number	14/876,276
Title of Invention	Video Data Compression Systems	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 — Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	James	J.	FALLON	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Armonk	State/Province	NY	Country of Residence	US

Mailing Address of Inventor:

Address 1	11 Wampus Close		
Address 2			
City	Armonk	State/Province	NY
Postal Code	10504	Country i	US

Inventor 2 — Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Stephen	J.	MCERLAIN	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Astoria	State/Province	NY	Country of Residence	US

Mailing Address of Inventor:

Address 1	2454 37th Street		
Address 2	#4F		
City	Astoria	State/Province	NY
Postal Code	11103	Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

PTO/AIA/14 (07-14)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~2855.005000C~~ 3421.005000C
	Application Number	14/876,276
Title of Invention	Video Data Compression Systems	

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	26111		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	Video Data Compression Systems		
Attorney Docket Number	~~2855.005000C~~ 3421.005000C	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	**Suggested Figure for Publication (if any)**	

Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	26111		

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~2855.005000C~~ 3421.005000C
	Application Number	14/876,276
Title of Invention	Video Data Compression Systems	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status	Pending			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	
	Continuation of	14733565	2015-06-08	

Prior Application Status	Abandoned			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	
14733565	Continuation of	14577286	2014-12-19	

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14577286	Continuation of	14134933	2013-12-19	8929442	2015-01-06

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14134933	Continuation of	14033245	2013-09-20	8934535	2015-01-13

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14033245	Continuation of	13154239	2011-06-06	8553759	2013-10-08

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13154239	Continuation of	12123081	2008-05-19	8073047	2011-12-06

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12123081	Continuation of	10076013	2002-02-13	7386046	2008-06-10

Prior Application Status	Expired			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	
10076013	Claims benefit of provisional	60268394	2001-02-13	

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

PTO/AIA/14 (07-14)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~2855.005000C~~ 3421.005000C
	Application Number	14/876,276
Title of Invention	Video Data Compression Systems	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

PTO/AIA/14 (07-14)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~2855.005000C~~ 3421.005000C
	Application Number	14/876,276
Title of Invention	Video Data Compression Systems	

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

(•) Assignee	( ) Legal Representative under 35 U.S.C. 117	( ) Joint Inventor
( ) Person to whom the inventor is obligated to assign.	( ) Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :	
If the Applicant is an Organization check here.	☒
Organization Name	~~Realtime Data, LLC~~ Realtime Adaptive Streaming, LLC

Mailing Address Information For Applicant:

Address 1	~~11 Wampus Close~~ 1828 ESE Loop 323		
Address 2			
City	~~Armonk~~ Tyler	**State/Province**	~~NY~~ TX
Country	US	Postal Code	~~10504~~ 75701
Phone Number		Fax Number	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~2855.005000C~~ 3421.005000C
	Application Number	14/876,276

Title of Invention	Video Data Compression Systems

Email Address	

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication . An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒

Organization Name	~~Realtime Data, LLC~~ Realtime Adaptive Streaming, LLC

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1	~~11 Wampus Close~~ 1828 ESE Loop 323		
Address 2			
City	~~Armonk~~ Tyler	**State/Province**	~~NY~~ TX
Country i	US	Postal Code	~~10504~~ 75701
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Signature				Date (YYYY-MM-DD)	2017-06-14
First Name	Michael	Last Name	Messinger	Registration Number	37575

Additional Signature may be generated within this form by selecting the Add button.

PTO/AIA/14 (07-14)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~2856.005000C~~ 3421.005000C
	Application Number	14/876,276
Title of Invention	Video Data Compression Systems	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

PTO/AIA/80 (07-12)
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 26111

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 26111

OR

☐	Firm or Individual Name		
	Address		
	City	State	Zip
	Country		
	Telephone	Email	

Assignee Name and Address: Realtime Adaptive Streaming, LLC
1828 ESE Loop 323
Tyler, Texas 75701

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	[signature]	Date	5/15/17
Name	Richard G. Tashjian	Telephone	914-590 3202
Title	Secretary-Treasurer		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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STATEMENT UNDER 37 CFR 3.73(c)

Atty. Docket No. 3421.005000C

Applicant/Patent Owner: Realtime Adaptive Streaming, LLC

Application No./Patent No.: 14/876,276 Filed/Issue Date: October 6, 2015

Titled: Video Data Compression Systems

Realtime Adaptive Streaming, LLC, a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. [X] The assignee of the entire right, title, and interest.

2. [ ] An assignee of less than the entire right, title, and interest (check applicable box):

   [ ] The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   [ ] There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. [ ] The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. [ ] The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: FALLON et al. To: Realtime Data, LLC

   The document was recorded in the United States Patent and Trademark Office at

   Reel 036739, Frame 0109, or for which a copy thereof is attached.

2. From: Realtime Data, LLC To: Realtime Adaptive Streaming, LLC

   The document was recorded in the United States Patent and Trademark Office at

   Reel 041573, Frame 0683, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

_____ June 18, 2013
Signature Date

Michael V. Messinger Attorney for Applicant 37,575
Printed or Typed Name Title or Registration Number

[Page 2 of 2]

Electronic Acknowledgement Receipt

EFS ID:	29498529
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	VIDEO DATA COMPRESSION SYSTEMS
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger/Ann-Marie Edelin
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	3421.005000C
Receipt Date:	14-JUN-2017
Filing Date:	06-OCT-2015
Time Stamp:	16:13:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		3421005000clF.pdf	12290211 badf802dd20178d18cf70db44ca3db4a21490ecb	yes	25

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Miscellaneous Incoming Letter	1	2
Issue Fee Payment (PTO-85B)	3	3
Amendment after Notice of Allowance (Rule 312)	4	4
Claims	5	12
Applicant Arguments/Remarks Made in an Amendment	13	13
Miscellaneous Incoming Letter	14	15
Application Data Sheet	16	22
Power of Attorney	23	23
Assignee showing of ownership per 37 CFR 3.73	24	25

Warnings:	
Information:	
Total Files Size (in bytes):	12290211

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

MICHAEL V. MESSINGER
DIRECTOR
(202) 772-8667
MIKEM@SKGF.COM

Sterne Kessler Goldstein Fox
ATTORNEYS AT LAW

June 14, 2017

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Confirmation No. 3403
Mail Stop Issue Fee

Re: Allowed U.S. Utility Patent Application
Appl. No. 14/876,276; Filed: October 6, 2015
For: **Video Data Compression Systems**
Inventors: FALLON *et al.*
Our Ref: 3421.005000C

Commissioner:

In response to the **Notice of Allowance and Fee(s) Due** dated May 31, 2017, the following documents are transmitted for appropriate action by the U.S. Patent and Trademark Office:

1. Issue Fee Transmittal (Form PTOL-85);
2. Amendment Under 37 C.F.R. §1.312;
3. Request to Change Applicant Under 37 C.F.R. § 1.46(c)(2) After an Original Applicant has been Specified;
4. Marked-Up Application Data Sheet Form (PTO/AIA/14);
5. An executed Power of Attorney (PTO/AIA/80); and
6. Statement Under 37 C.F.R. § 3.73(c).

The Issue Fee of $960.00 has been previously paid on November 23, 2016.

The above-listed documents are filed electronically.

Fee payment is provided through online credit card payment. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

MVM/afe
Enclosures

5376638_1.docx

OPAP AKIMA-5 JUN 14 2017 PATENT & TRADEMARK OFFICE

IFW

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

26111 7590 05/31/2017
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

TITLE OF INVENTION: VIDEO DATA COMPRESSION SYSTEMS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$960	$960	08/31/2017

06/15/2017 CCHAU2 00000001 14876276
01 FC:1501 960.00 OP

EXAMINER	ART UNIT	CLASS-SUBCLASS
BOCURE, TESFALDET	2634	375-240100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Sterne, Kessler, Goldstein &
2 Fox P.L.L.C.
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Realtime Adaptive Streaming, LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Tyler, TX

Date: 06/15/2017 CCHAU2
11/25/2016 INTEFSW 00003969 14876276
01 FC:1501 -960.00 OP

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)
☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 19-0036 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)
☐ Applicant certifying micro entity status. See 37 CFR 1.29
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
☐ Applicant asserting small entity status. See 37 CFR 1.27
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
☐ Applicant changing to regular undiscounted fee status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date June 14, 2017
Typed or printed name Michael V. Messinger Registration No. 37,575

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/876,276	10/06/2015	James J. FALLON	3421.005000C

CONFIRMATION NO. 3403

26111
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

POA ACCEPTANCE LETTER

OC000000092139237

Date Mailed: 06/16/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/14/2017.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/mabebe/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/876,276	10/06/2015	2634	2400	3421.005000C	30	2

CONFIRMATION NO. 3403

CORRECTED FILING RECEIPT

26111
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

OC000000092139238

Date Mailed: 06/16/2017

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

James J. FALLON, Armonk, NY;
Stephen J. MCERLAIN, Astoria, NY;

Applicant(s)

Realtime Adaptive Streaming, LLC, Tyler, TX;

Assignment For Published Patent Application

Realtime Adaptive Streaming, LLC, Tyler, TX

Power of Attorney: The patent practitioners associated with Customer Number 26111

Domestic Priority data as claimed by applicant

This application is a CON of 14/733,565 06/08/2015
which is a CON of 14/577,286 12/19/2014 ABN
which is a CON of 14/134,933 12/19/2013 PAT 8929442
which is a CON of 14/033,245 09/20/2013 PAT 8934535
which is a CON of 13/154,239 06/06/2011 PAT 8553759
which is a CON of 12/123,081 05/19/2008 PAT 8073047
which is a CON of 10/076,013 02/13/2002 PAT 7386046
which claims benefit of 60/268,394 02/13/2001

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 10/20/2015
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/876,276**
Projected Publication Date: Not Applicable
Non-Publication Request: No
Early Publication Request: No
Title

VIDEO DATA COMPRESSION SYSTEMS

Preliminary Class

375

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

26111 7590 06/20/2017

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER
BOCURE, TESFALDET

ART UNIT	PAPER NUMBER
2634	

MAIL DATE	DELIVERY MODE
06/20/2017	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Response to Rule 312 Communication	Application No.	Applicant(s)
	14/876,276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

1. ☒ The amendment filed on *14 June 2017* under 37 CFR 1.312 has been considered, and has been:

a) ☐ entered.

b) ☒ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

The amendment to claims 1, 8-10, 18, 19 and 24-26 for minor informalities has been entered.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

OK TO ENTER: /T.B/

/T.B/ (06/18/2017)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Adaptive Streaming, LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Amendment Under 37 C.F.R. § 1.312

Mail Stop Issue Fee

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Submitted herein is an Amendment Under 37 C.F.R. § 1.312. As payment of the issue fee has not yet been made or is filed herewith, Applicant respectfully submits that filing under 37 C.F.R. § 1.312 is proper. (M.P.E.P. § 714.16.)

It is not believed that extensions of time are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON DC 20005

MAILED
JUN 28 2017
OFFICE OF PETITIONS

Doc Code: TRACK1.GRANT

Decision Granting Request for Prioritized Examination (Track I or After RCE)	Application No.: 14/876,276

1. THE REQUEST FILED May 15, 2017 IS **GRANTED.**

The above-identified application has met the requirements for prioritized examination

A. ☐ for an original nonprovisional application (Track I).
B. ☒ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination.** The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

A. filing a **petition for extension of time** to extend the time period for filing a reply;
B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims**, or a multiple dependent claim;
C. filing a **request for continued examination**;
D. filing a notice of appeal;
E. filing a request for suspension of action;
F. mailing of a notice of allowance;
G. mailing of a final Office action;
H. completion of examination as defined in 37 CFR 41.102; or
I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to Brian W. Brown at 571-272-5338.

/Brian W. Brown/
[*Signature*]

Petitions Examiner, Office of Petitions
(Title)

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	08/15/2017	9736474	3421.005000C	3403

26111 7590 07/26/2017

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

James J. FALLON, Armonk, NY;
Realtime Adaptive Streaming, LLC, Tyler, TX;
Stephen J. MCERLAIN, Astoria, NY;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

PTO/SB/30 (07-14)
Approved for use through 07/31/2016 OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not compy with the requirements of 35 U.S.C 371, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO on page 2.)

1. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

   a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

      i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

      ii. ☐ Other _____

   b. ☒ Enclosed

      i. ☐ Amendment/Reply

      ii. ☐ Affidavit(s)/ Declaration(s)

      iii. ☒ Information Disclosure Statement (IDS)

      iv. ☐ Other _____

2. Miscellaneous

   a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

   b. ☐ Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
   The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to

   a. ☒ Deposit Account No. 19-0036.

      i. ☒ RCE fee required under 37 CFR 1.17(e)

      ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)

      iii. ☐ Other _____

   b. ☐ Check in the amount of $ _____ enclosed

   c. ☐ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	/Michael V. Messinger/	Date	July 27, 2017
Name (Print/Type)	Michael V. Messinger	Registration No.	37,575

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature			
Name (Print/Type)		Date	

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Adaptive Streaming, LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Twelfth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Inter Partes Reexamination Certificate issued 08/01/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be provided to the Examiner upon request.

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00373	7,378,992	Terminated 4/28/2017
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00374	8,643,513	Terminated 4/28/2017
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00375	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00376	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00377	9,116,908	Institution Denied 7/1/2016
SAP America Inc., et al. v. Realtime Data, LLC d/b/a IXO, IPR2016-00783	6,597,812	Oral Hearing 6/30/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00878	7,415,530	Dismissed 6/21/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00972	7,415,530	Oral Hearing 7/25/2017
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00978	8,643,513	Oral Hearing 7/25/2017
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00980	7,378,992	Oral Hearing 7/25/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-01002	9,116,908	Oral Hearing 7/25/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01365	7,181,608	Petitioner's Reply 6/27/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01366	8,090,936	Petitioner's Reply 6/27/2017
Oracle America Inc. v. Realtime Data LLC, IPR2016-01671	7,415,530	Terminated (Joined with IPR2016-00972)
Oracle America Inc. v. Realtime Data LLC, IPR2016-01672	9,116,908	Terminated (Joined with IPR2016-01002)
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01737	8,880,862	Patent Owner's Response 6/14/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01738	8,880,862	Patent Owner's Response 6/14/2017

Proceeding	Patent	Status
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01739	8,880,862	Patent Owner's Response 6/14/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00108	9,054,728	Terminated 4/11/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00167	6,597,812	Terminated 4/11/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00168	6,597,812	Terminated 4/11/2017
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00176	7,161,506	Trial Instituted 5/30/2017
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00179	9,054,728	Trial Instituted 5/30/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00364	9,116,908	Joined with IPR2016-01002 6/1/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00365	7,415,530	Joined with IPR2016-00972 6/2/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00366	8,643,513	Joined with IPR2016-00978 5/24/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00557	7,358,867	Trial instituted 7/6/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00806	7,161,506	Patent Owner's Preliminary Response filed 5/22/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00808	9,054,728	Patent Owner's Preliminary Response filed 5/22/2017
NetApp Inc. v. Realtime Data LLC, IPR2017-01195	7,415,530	Filed 3/30/2017
NetApp Inc. v. Realtime Data LLC, IPR2017-01196	9,116,908	Filed 3/30/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01354	9,054,728	Filed 5/2/2017
Rackspace US, Inc. v. Realtime Data LLC, IPR2017-01627	7,415,530	Filed 6/16/2017
Rackspace US, Inc. v. Realtime Data LLC, IPR2017-01629	9,116,908	Filed 6/16/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01663	7,378,992	Filed 6/22/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01660	7,161,506	Filed 6/22/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01664	8,643,513	Filed 6/23/2017

Proceeding	Patent	Status
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-01688	7,161,506	Filed 6/28/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-01690	9,054,728	Filed 6/28/2017
Rackspace US, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-01691	7,358,867	Filed 6/28/2017
CommVault Systems, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-01710	8,717,204	Filed 6/30/2017
CommVault Systems, Inc. v. Realtime Data LLC d/b/a IXO, CBM2017-00061	8,717,204	Filed 6/30/2017

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **US2-US6, FP1,** and **NPL12-NPL57.**

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed 5/1/2015
12	*Realtime Data, LLC d/b/a IXO v. Actian Corporation, et al.*, No. 6:15-cv-00463 (E.D. Texas)	Order to submit claim constructions 4/10/2017
13	*Realtime Data, LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed 2/22/2016
14	*Realtime Data, LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12
15	*Realtime Data, LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12
16	*Realtime Data, LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated 10/5/ 2015
17	*Realtime Data, LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22

No.	Case	Status
18	*Realtime Data, LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 5:16-cv-01836 (N.D. Cal.) (transferred from E.D. Texas; 6:15-cv-00470)	Case dismissed 5/18/2016
20	*Realtime Data, LLC d/b/a IXO v. Apple Inc.*, No. 3:16-cv-02595 (transferred from E.D. Texas; 6:15-cv-00885)	Stayed pending *inter partes* review 3/27/2017
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Transferred to N.D. California – Case No. 42
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Final Judgment all claims dismissed 5/15/2017
23	*Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al.*, No. 6:16-cv-00087 (E.D. Texas)	Stayed pending *inter partes* review 3/1/2017
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Stayed pending *inter partes* review 2/7/2017
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Stayed pending *inter partes* review 2/25/2017
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Motion to Stay denied 4/24/2017
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Transferred to N.D. California – Case No. 41
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Consolidated with Case No. 26
29	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:17-cv-00046 (E.D. Texas)	Final Judgment case dismissed 5/8/2017
30	*Realtime Data LLC d/b/a IXO v. Echostar Corporation et al.*, No. 6:17-cv-00084 (E.D. Texas)	Amended complaint 6/6/2017
31	*Realtime Data LLC d/b/a IXO v. Acronis, Inc.*, No. 6:17-cv-00118 (E.D. Texas)	Filed 2/27/2017
32	*Realtime Data LLC d/b/a IXO v. Array Networks, Inc.*, No. 6:17-cv-00119 (E.D. Texas)	Filed 2/27/2017
33	*Realtime Data LLC d/b/a IXO v. Barracuda Networks, Inc.*, No. 6:17-cv-00120 (E.D. Texas)	Answer to Complaint 4/24/2017
34	*Realtime Data LLC d/b/a IXO v. Carbonite, Inc. et al.*, No. 6:17-cv-00121 (E.D. Texas)	Answer and counterclaim 5/9/2017
35	*Realtime Data LLC d/b/a IXO v. Circadence Corporation*, No. 6:17-cv-00122 (E.D. Texas)	Final Judgment case dismissed 4/25/2017
36	*Realtime Data LLC d/b/a IXO v. CommVault Systems, Inc. et al.*, No. 6:17-cv-00123 (E.D. Texas)	Amended complaint 5/18/2017

No.	Case	Status
37	*Realtime Data LLC d/b/a IXO v. Exinda Inc.*, No. 6:17-cv-00124 (E.D. Texas)	Amended answer to Complaint 5/30/2017
38	*Realtime Data LLC d/b/a IXO v. NETGEAR, Inc.*, No. 6:17-cv-00125 (E.D. Texas)	Amended answer to Complaint 5/30/2017
39	*Realtime Data LLC d/b/a IXO v. Synacor Inc.*, No. 6:17-cv-00126 (E.D. Texas)	Answer to Complaint 5/5/2017
40	*Realtime Data LLC d/b/a IXO v. Riverbed Technology, Inc.*, No. 6:17-cv-00198 (E.D. Texas)	Filed 4/3/2017
41	*Realtime Data LLC v. Fujitsu America, Inc. et al.*, No. 3:17-cv-02109 (N.D. Cal.)	Transferred in from E.D. Texas 4/17/2017
42	*Realtime Data LLC v. Silver Peak Systems, Inc.*, No. 4:17-cv-02373 (N.D. Cal.)	Transferred in from E.D. Texas 4/26/2017
43	*Realtime Data LLC v. Riverbed Technology, Inc.*, No. 3:17-cv-03182 (N.D. Cal.)	Filed 6/2/2017
44	*Realtime Data LLC d/b/a IXO v. Array Networks Inc.*, No. 1:17-cv-00800 (D. Del.)	Filed 6/21/2017
45	*Realtime Data LLC d/b/a IXO v. Barracuda Networks, Inc.*, No. 1:17-cv-00893 (D. Del.)	Filed 7/5/2017
46	*Realtime Data LLC d/b/a IXO v. CommVault Systems, Inc.*, No. 1:17-cv-00925 (D. Del.)	Filed 7/10/2017
47	*Realtime Data LLC d/b/a IXO v. Acronis, Inc.*, No. 1:17-cv-11279 (D. Mass.)	Filed 7/12/2017
48	*Realtime Data LLC d/b/a IXO v. DISH Network Corporation et al.*, 6:17-cv-00421 (E.D. Texas)	Case severed from 6:17-cv-84 7/19/2017

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and/or PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicant has listed

publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(e)(2). No item of information contained in the IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the IDS. In addition:

Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copies of U.S. patents and patent application publications cited as documents **US1-US15** on the attached IDS Forms are submitted.

Copies of the **FP1** and **NPL1-NPL57** documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 14/733,565, filed June 8, 2015 (now pending), which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is expected that the examiner will review the prosecution and cited art in the parent application nos. 14/733,565, filed June 8, 2015 (now pending); 14/577,286, filed December 19, 2014 (now abandoned); 14/134,933, filed December 19, 2013 (now U.S. Patent No. 8,929,442); 14/033,245, filed September 20, 2013 (now U.S. Patent No. 8,934,535); 13/154,239, filed June 6, 2011 (now U.S. Patent No. 8,553,759); 12/123,081, filed May 19, 2008 (now U.S. Patent No. 8,073,047); and 10/076,013, filed February 13, 2002 (now U.S. Patent No. 7,386,046), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

In accordance with the Federal Circuit decision in *Dayco Prods., Inc. v. Total Containment, Inc.* 329 F.3d 1358 (Fed. Cir. 2003), Applicants submit herewith Office Actions from the co-pending U.S. Patent Application Nos. 13/875,884, filed May 2, 2013 (now pending); 14/727,309, filed June 1, 2015 (now pending); 15/382,263, filed December 16, 2016 (now pending); 15/391,240, filed December 27, 2016 (now pending); and 15/584,865, filed May 2, 2017 (now pending) as documents **NPL7-NPL11**.

The identification of these Office Actions is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is

respectfully requested to consider the cited applications and the art cited therein during examination.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: July 27, 2017

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Substitute for form 1449/PTO

TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet | 1 | of | 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	5,265,180	11-23-1993	Golin	
	US2	5,276,898	01-04-1994	Kiel et al.	
	US3	5,555,377	09-10-1996	Christensen et al.	
	US4	5,815,718	09-29-1998	Tock	
	US5	5,867,114	02-02-1999	Barbir	
	US6	6,658,492 B1	12-02-2003	Kawahara et al.	
	US7	8,832,044 B1	09-09-2014	Gipp et al.	
	US8	8,832,551 B2	09-09-2014	Muser	
	US9	9,667,751 B2	05-30-2017	Fallon et al.	
	US10	2007/0083571 A1	04-12-2007	Meller et al.	
	US11	2008/0239917 A1	10-02-2008	Mukaide	
	US12	2008/0279462 A1	11-13-2008	Celi	
	US13	2009/0157712 A1	06-18-2009	De Peuter et al.	
	US14	2011/0023052 A1	01-27-2011	Huang et al.	
	US15	2012/0124016 A1	05-17-2012	Barsness et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
	FP1	WO 02/13058 A2	02-14-2002	Origin Ltd.		

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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				Complete if Known	
TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	1	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Motion to Dismiss Pursuant to Fed. R. Civ. P. 12(b)(6) For Lack of Patentable Subject Matter Under 35 U.S.C. § 101, filed in *Realtime Data LLC d/b/a IXO v. Commvault Systems, Inc. et al.*, Case No. 6:17-cv-123 (E.D. Texas), filed June 2, 2017; 27 pages.	
	NPL2	Plaintiff Realtime Data LLC's Opposition to Commvault's Motion (DKT. No. 40) to Dismiss Pursuant to Fed. R. Civ. P. 12(b)(6) and Under 35 U.S.C. § 101, filed in *Realtime Data LLC d/b/a IXO v. Commvault Systems, Inc. et al.*, Case No. 6:17-cv-123 (E.D. Texas); filed June 19, 2017 27 pages.	
	NPL3	Complaint for Patent Infringement Against Array Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Array Networks Inc.*, Case No. 1:17-cv-00800 (D. Delaware), filed June 21, 2017; 38 pages.	
	NPL4	Complaint for Patent Infringement Against Barracuda Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Barracuda Networks Inc.*, Case No. 1:17-cv-00893 (D. Delaware), filed July 5, 2017; 115 pages.	
	NPL5	Complaint for Patent Infringement against Commvault Systems, Inc. and Spectra Logic Corporation, filed in *Realtime Data LLC d/b/a IXO v. CommVault Systems, Inc. et al.*, Case No. 1:17-cv-00925 (D. Delaware), filed July 11, 2017; 79 pages.	
	NPL6	Complaint for Patent Infringement Against Acronis, Inc., filed in Realtime Data LLC d/b/a IXO v. Acronis, Inc., Case No. 1:17-cv-11279 (D. Mass), filed July 12, 2017; 24 pages.	
	NPL7	Copy of Non-Final Office Action for U.S. Patent Application No. 14/727,309, mailed June 8, 2017; 19 pages.	
	NPL8	Copy of Final Office Action for U.S. Patent Application No. 15/391,240, mailed June 16, 2017; 14 pages.	
	NPL9	Copy of Notice of Allowance for U.S. Patent Application No. 13/875,884, mailed June 21, 2017; 11 pages.	
	NPL10	Copy of Non-Final Office Action for U.S. Patent Application No. 15/584,865, mailed June 30, 2017; 6 pages.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				*Complete if Known*	
TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
(Use as many sheets as necessary)				Examiner Name	BOCURE, Tesfaldet
Sheet	2	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL11	Copy of Non-Final Office Action for U.S. Patent Application No. 15/382,263, mailed July 11, 2017; 9 pages.	
	NPL12	Petition for *Inter Partes* Review, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01663 (P.T.A.B.), filed June 22, 2017; 59 pages.	
	NPL13	Declaration of Daniel Hirschberg, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01663 (P.T.A.B.), filed June 22, 2017; 68 pages.	
	NPL14	Non-Final Office Action directed to U.S. Patent Application No. 11/400,533, mailed July 10, 2007; 7 pages.	
	NPL15	Declaration of Scott Bennett, Ph.D., filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01663 (P.T.A.B.), filed June 22, 2017; 16 pages.	
	NPL16	Petition for *Inter Partes* Review, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01660 (P.T.A.B.), filed June 22, 2017; 58 pages.	
	NPL17	Declaration of Daniel Hirschberg, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01660 (P.T.A.B.), filed June 22, 2017; 67 pages.	
	NPL18	Decision Institution of *Inter Partes* Review, filed in *Veritas Technologies LLC v. Realtime Data LLC,* Case No. IPR2017-00365 (P.T.A.B.), filed June 2, 2017; 11 pages.	
	NPL19	Declaration of Daniel Hirschberg, filed in *Rackspace US Inc. v. Realtime Data LLC,* Case No. IPR2017-01627 (P.T.A.B.), filed June 16, 2017; 63 pages.	
	NPL20	Petition for *Inter Partes* Review of U.S. Patent No. 7,415,530 Under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42.100 *et seq.*, filed in *Rackspace US, Inc. v. Realtime Data LLC,* Case No. IPR2017-01627 (P.T.A.B.), filed June 16, 2017; 75 pages.	

Examiner Signature		Date Considered	

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Substitute for form 1449/PTO				Complete if Known	
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				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	3	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL21	Declaration of Daniel Hirschberg, filed in *Rackspace US Inc. v. Realtime Data LLC,* Case No. IPR2017-01629 (P.T.A.B.), filed June 16, 2017; 59 pages.	
	NPL22	Petition for *Inter Partes* Review of U.S. Patent No. 9,116,908 Under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42.100 *et seq.*, filed in *Rackspace US, Inc. v. Realtime Data LLC,* Case No. IPR2017-01629 (P.T.A.B.), filed June 16, 2017; 78 pages.	
	NPL23	Petition for *Inter Partes* Review Under 35 U.S.C. § 311-319 and 37 C.F.R. § 42.100 et seq., filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01664 (P.T.A.B.), filed June 23, 2017; 74 pages.	
	NPL24	Declaration of Daniel Hirschberg, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01664 (P.T.A.B.), filed June 23, 2017; 70 pages.	
	NPL25	Transcript of Deposition of Dr. Godmar Back, filed in *Apple Inc. v. Realtime Data LLC,* Case No. IPR2016-01366 (P.T.A.B.), filed June 27, 2017 98 pages.	
	NPL26	Petitioner's Reply to Patent Owner's Response, filed in *Apple Inc. v. Realtime Data LLC*, Case No. IPR2016-01366 (P.T.A.B.), filed June 27, 2017 36 pages.	
	NPL27	Excerpt from Microsoft Computer Dictionary, Fifth Edition, Redmond, WA, Microsoft Corporation: 2002; p. 192.	
	NPL28	Excerpt from The Computer Desktop Encyclopedia, Second Edition, Point Pleasant, PA, The Computer Language Company Inc.: 1999; p. 300.	
	NPL29	Petition for *Inter Partes* Review of U.S. Patent No. 7,161,506, filed in *Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO*, Case No. IPR2017-01688 (P.T.A.B.), filed June 28, 2017; 57 pages.	
	NPL30	Declaration of Charles D. Creusere, Ph.D., filed in *Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO*, Case No. IPR2017-01688 (P.T.A.B.), filed June 28, 2017; 113 pages.	

Examiner Signature		Date Considered	

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Substitute for form 1449/PTO				Complete if Known	
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				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	4	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL31	Amendment Transmittal Form filed in U.S. Patent Application No. 10/668,768, dated August 20, 2004; 7 pages.	
	NPL32	Petition for *Inter Partes* Review of U.S. Patent No. 9,054,728, filed in *Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-01690 (P.T.A.B.), filed June 28, 2017; 74 pages.	
	NPL33	Declaration of Charles D. Creusere, Ph.D., filed in *Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-01690 (P.T.A.B.), filed June 28, 2017; 139 pages.	
	NPL34	Petition for Inter Partes Review of U.S. Patent No. 7,358,867 Under 35 U.S.C. §§ 311-319 And 37 C.F.R. § 42.100 *et seq.,* filed in *Rackspace US, Inc. v. Realtime Data LLC,* Case No. IPR2017-01691 (P.T.A.B.), filed June 28, 2017; 64 pages.	
	NPL35	Declaration of Dr. Robert Akl, D.S.C. Under 37 C.F.R. § 1.68 (Exhibit #1002), filed in *Rackspace US, Inc. v. Realtime Data LLC,* Case No. IPR2017-01691 (P.T.A.B.), filed June 28, 2017; 116 pages.	
	NPL36	Petition for *Inter Partes* Review of U.S. Patent No. 8,717,204, filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. IPR2017-01710 (P.T.A.B.), filed June 30, 2017; 81 pages.	
	NPL37	Declaration of Professor James Storer, Ph.D., filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. IPR2017-01710 (P.T.A.B.), filed June 30, 2017; 82 pages.	
	NPL38	Postel, J., "User Data Protocol," RFC 768, Network Working Group August 28, 1980; 3 pages.	
	NPL39	Socolofsky, T., "A TCP/IP Tutorial," RFC 1180, Network Working Group January 1991; 28 pages.	
	NPL40	Excerpts from Internetworking With TCP/IP Volume III: Client-Server Programming and Applications, Douglas Comer et al., Prentice Hall, Upper Saddle River, NJ, 2001; pp. 9-21.	

Examiner Signature		Date Considered	

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TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	5	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL41	Excerpts from Introduction to Automata Theory, Languages, and Computation, John Hopcroft et al., Addison-Wesley, Reading, Massachussetts, 1979; pp. 13-54.	
	NPL42	Deskside POWER CHALLENGE and CHALLENGE L Owner's Guide, Silicon Graphics, Inc., 1994; 194 pages.	
	NPL43	Graham, "Trading a Stock vs. Stock Options Part One," Investopedia.com, July 30, 2003; 3 pages.	
	NPL44	Bradner, S., "The Internet Standards Process -- Revision 3," RFC 2026, Network Working Group October 1996; 36 pages.	
	NPL45	Internet Archive version of the web page http://www.acm.org:80/pubs/contents/proceedings/mod/342009/, dated August 16, 2000; 30 pages.	
	NPL46	Internet Archive version of the web page http://www.cs.purdue.edu:80/homes/comer/netbooks.html, dated December 8, 2000; 7 pages.	
	NPL47	MyPearsonStore Webpage for Internetworking with TCP/IP, Vol. III: Client-Server Programming and Applications, Linux/Posix Sockets Version, available at http://www.mypearsonstore.com/bookstore/internetworking-with-tcp-ip-vol.-iii-client-server-9780130320711.	
	NPL48	Declaration of Bridget A. Smith, filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. IPR2017-01710 (P.T.A.B.), filed June 30, 2017; 5 pages.	
	NPL49	Petition for Covered Business Method Review of U.S. Patent No. 8,717,204, filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. CBM2017-00061 (P.T.A.B.), filed June 30, 2017; 78 pages.	
	NPL50	Declaration of Professor James Storer, Ph.D., filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. CBM2017-00061 (P.T.A.B.), filed June 30, 2017; 36 pages.	

Examiner Signature		Date Considered	

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TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
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Sheet	6	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL51	Postal Addressing Standards - Contents, Publication 28, November 1997; 128 pages.	
	NPL52	Excerpts from The Progress of Invention in the Nineteenth Century, Edward W. Byrn, Munn & Co., Publishers 1900; pp. 15-31.	
	NPL53	Excerpts from Comprehensive Dictionary of Electrical Engineering, CRC Press LLC 1999; pp. 249-250.	
	NPL54	Inter Partes Reexamination Certificate in Inter Partes Reexamination of U.S. Patent No. 7,777,651, issued July 8, 2016; 2 pages.	
	NPL55	Maver, American Telegraphy and Encyclopedia of the Telegraph: Systems, Apparatus, Operation, Maver Publishing Company, New York NY 1912; 101 pages.	
	NPL56	Hacker, "MP3: The Definitive Guide," First Edition, O'Reilly March 2000; 8 pages.	
	NPL57	Schulzrinne et al., "RTP: A Transport Protocol for Real-Time Applications," RFC 1889, Network Working Group January 1996 1996; 75 pages.	

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Examiner Signature		Date Considered	

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Doc Code: PET.AUTO Document Description: Petition automatically granted by EFS-Web	PTO/SB/140 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)**
Application Number	14876276
Filing Date	06-Oct-2015
First Named Inventor	James FALLON
Art Unit	2634
Examiner Name	TESFALDET BOCURE
Attorney Docket Number	3421.005000C
Title	VIDEO DATA COMPRESSION SYSTEMS

An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary.

APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c).

A grantable petition requires the following items:
(1) Petition fee; and
(2) One of the following reasons:
(a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable;
(b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or
(c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).

Petition Fee

- ○ Small Entity
- ○ Micro Entity
- ◉ Regular Undiscounted

Reason for withdrawal from issue

◯ One or more claims are unpatentable ◉ Consideration of a request for continued examination (RCE) (List of Required Documents and Fees) ◯ Applicant hereby expressly abandons the instant application (any attorney/agent signing for this reason must have power of attorney pursuant to 37 CFR 1.32(b)).
RCE request,submission, and fee. ☐ I certify, in accordance with 37 CFR 1.4(d)(4) that : The RCE request ,submission, and fee have already been filed in the above-identified application on ☒ Are attached.
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ◉ An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application. ◯ An attorney or agent registered to practice before the Patent and Trademark Office, acting in a representative capacity. ◯ A sole inventor ◯ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ◯ A joint inventor; all of whom are signing this e-petition

Signature	/Michael V. Messinger/
Name	Michael V. Messinger
Registration Number	37575

Electronic Patent Application Fee Transmittal

Application Number:	14876276
Filing Date:	06-Oct-2015
Title of Invention:	VIDEO DATA COMPRESSION SYSTEMS
First Named Inventor/Applicant Name:	James J. FALLON
Filer:	Michael V. Messinger
Attorney Docket Number:	3421.005000C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
PETITION FEE- 37 CFR 1.17(H) (GROUP III)	1464	1	140	140
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1700	1700
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1840**

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Decision Date : July 27, 2017

In re Application of :

James FALLON

DECISION ON PETITION
UNDER CFR 1.313(c)(2)

Application No : 14876276

Filed : 06-Oct-2015

Attorney Docket No : 3421.005000C

This is an electronic decision on the petition under 37 CFR 1.313(c)(2), filed July 27, 2017 , to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED.**

The above-identified application is withdrawn from issue for consideration of a submission under 37 CFR 1.114 (request for continued examination). See 37 CFR 1.313(c)(2).

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

This application file is being referred to Technology Center AU 2634 for processing of the request for continuing examination under 37 CFR 1.114 .

Office of Petitions

Electronic Acknowledgement Receipt

EFS ID:	29911788
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	VIDEO DATA COMPRESSION SYSTEMS
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger
Filer Authorized By:	
Attorney Docket Number:	3421.005000C
Receipt Date:	27-JUL-2017
Filing Date:	06-OCT-2015
Time Stamp:	17:07:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1840
RAM confirmation Number	072817INTEFSW00004017190036
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	3210005000C12SIDS_1.pdf	535860 cfd8d7a7cdff43c95844ac97066d6a3d0adf6281	no	2
Warnings:					
Information:					
2		3210005000C12SIDS_2.pdf	1019597 8e693b92ce411df13276bafafab6c19bffe1b4c5	yes	20

Multipart Description/PDF files in .zip description

Document Description	Start	End
Quick Path Information Disclosure Statement	1	1
Request for Continued Examination (RCE)	2	2
Quick Path Information Disclosure Statement	3	13
Information Disclosure Statement (IDS) Form (SB08)	14	20

Warnings:					
Information:					
3	Petition automatically granted by EFS	petition-request.pdf	31441 4d84a8c4ce7420b4828d40cc9c66ee7052bfbdee	no	2
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	32088 2061473f9654bbd095f3e61303d1d6b92b3a3673	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1618986		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

MICHAEL V. MESSINGER
DIRECTOR
(202) 772-8667
MIKEM@SKGF.COM

Sterne Kessler Goldstein Fox
ATTORNEYS AT LAW

July 27, 2017

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Confirmation No. 3403
Art Unit 2634
Attn: Mail Stop Amendment

Re: U.S. Utility Patent Application
Application No. 14/876,276; Filing Date: October 6, 2015
For: **Video Data Compression Systems**
Inventors: FALLON *et al.*
Our Ref: 3421.005000C

Commissioner:

Transmitted herewith for appropriate action are the following documents:

1. Authorization to charge the amount of **$2,020.00** to Deposit Account No. 19-0036 to cover:

   $180.00 Information Disclosure Statement Fee;

   $140.00 Petition to Withdraw from Issue after Payment of the Issue Fee (under 37 C.F.R. § 1.313(c)(2)); and

   $1,700.00 Request for Continued Examination Fee;

2. Twelfth Supplemental Information Disclosure Statement;

3. Form PTO/SB/08a (1 sheet) listing 16 documents (**US1-US15** and **FP1**); and

4. Form PTO/SB/08b (6 sheets) listing 57 documents (**NPL1-NPL57**).

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Fee payment is provided through online credit card payment. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

MVM/cmb
Enclosures

5506123_1.docx

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 07/31/2017

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01 FC : 1806 180.00 DA

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	10/06/2015	James J. FALLON	3421.005000C	3403

26111 7590 08/04/2017

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER
BOCURE, TESFALDET

ART UNIT	PAPER NUMBER
2634	

MAIL DATE	DELIVERY MODE
08/04/2017	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Supplemental Notice of Allowability	Application No. 14/876,276	Applicant(s) FALLON ET AL.	
	Examiner TESFALDET BOCURE	Art Unit 2634	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *QPIDS and RCE filed on 07/27/2017*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1,2,4-19,21,22,24-29 and 31-33*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.

2. This office action (Corrected/Supplemental Notice of Allowance) is in response to the QPIDS and RCE after allowance received on 07/27/2017. The pending claims 1, 2, 4-19, 21, 22, 24-29 and 31-33 are now allowed.

Information Disclosure Statement

3. In response to the Information Disclosure statements (IDSs) ***after Allowance and before the payment of issue fee***[1] received on 07/27/2017 (two IDSs received on the same date), the following action has been taken:

THE PRESECUTION OF THIS CASE IS CLOSED AS OF THE DATE THE NOTICE OF ALLOWANCE WAS MAILED ON 05/31/2017.

The information disclosure statements (IDSs) submitted on 11/23/2016 complies with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. Attached with this correspondence is the initialed copy of the IDS.

Conclusion

[1] Note that the issue fee was paid at the same date the QPIDS was filed and is considered as before issue fee is paid.
For some reason Examiner is unaware of, the case has been brought to his attention that the IDSs of 11/23/2016 and Amendment after final not considered. Therefore, Examiner is resubmitting for the second time the considered IDSs of 11/23/2016 and after allowance amendment under Rule 312.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TESFALDET BOCURE whose telephone number is (571)272-3015. The examiner can normally be reached on Mon-Th, 8:30-6:00 and 8:30-5:00 2nd Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DANIEL C. WASHBURN can be reached on (571)272-5551. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TESFALDET BOCURE/
Primary Examiner, Art Unit 2634

/T. B./
Primary Examiner, Art Unit 2634

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	08/02/2017	04/18/2016	05/29/2016	08/05/2016	10/17/2016	12/08/2016	01/31/2017	02/20/2017	05/26/2017
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3	4	=	=	=	=	=	=	=	=	=
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18	31	=								=
19	32	=								=
29	33	=								=

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

CPC								
Symbol							**Type**	**Version**
H04N		19	/	103			F	2014-11-01
H04N		19	/	164			I	2014-11-01
H04N		19	/	176			I	2014-11-01
H03M		7	/	30			I	2013-01-01
H03M		7	/	3084			I	2013-01-01
H03M		7	/	6094			I	2013-01-01
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CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	29	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	08/02/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No. 20170802

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	**Art Unit**
	TESFALDET BOCURE	2634

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
375	240.1	H	0	4	N	7 / 12 (2006.01.01)						

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	29	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	08/02/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No. 20170802

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	TESFALDET BOCURE	2634

☒ **Claims renumbered in the same order as presented by applicant** ☐ **CPA** ☐ **T.D.** ☐ **R.1.47**

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	16	17	29	33										
2	2	17	18												
-	3	20	19												
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11	12	27	28												
12	13	28	29												
13	14	-	30												
14	15	18	31												
15	16	19	32												

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	29	
/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634	08/02/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Substitute for form 1449/PTO

TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet | 1 | of | 1

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	5,265,180	11-23-1993	Golin	
	US2	5,276,898	01-04-1994	Kiel et al.	
	US3	5,555,377	09-10-1996	Christensen et al.	
	US4	5,815,718	09-29-1998	Tock	
	US5	5,867,114	02-02-1999	Barbir	
	US6	6,658,492 B1	12-02-2003	Kawahara et al.	
	US7	8,832,044 B1	09-09-2014	Gipp et al.	
	US8	8,832,551 B2	09-09-2014	Muser	
	US9	9,667,751 B2	05-30-2017	Fallon et al.	
	US10	2007/0083571 A1	04-12-2007	Meller et al.	
	US11	2008/0239917 A1	10-02-2008	Mukaide	
	US12	2008/0279462 A1	11-13-2008	Celi	
	US13	2009/0157712 A1	06-18-2009	De Peuter et al.	
	US14	2011/0023052 A1	01-27-2011	Huang et al.	
	US15	2012/0124016 A1	05-17-2012	Barsness et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP1	WO 02/13058 A2	02-14-2002	Origin Ltd.		

5506112_1.docx

Examiner Signature	/TESFALDET BOCURE/	Date Considered	08/02/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Substitute for form 1449/PTO				*Complete if Known*	
TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
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				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	1	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	Motion to Dismiss Pursuant to Fed. R. Civ. P. 12(b)(6) For Lack of Patentable Subject Matter Under 35 U.S.C. § 101, filed in *Realtime Data LLC d/b/a IXO v. Commvault Systems, Inc. et al.*, Case No. 6:17-cv-123 (E.D. Texas), filed June 2, 2017; 27 pages.	
	NPL2	Plaintiff Realtime Data LLC's Opposition to Commvault's Motion (DKT. No. 40) to Dismiss Pursuant to Fed. R. Civ. P. 12(b)(6) and Under 35 U.S.C. § 101, filed in *Realtime Data LLC d/b/a IXO v. Commvault Systems, Inc. et al.*, Case No. 6:17-cv-123 (E.D. Texas); filed June 19, 2017 27 pages.	
	NPL3	Complaint for Patent Infringement Against Array Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Array Networks Inc.*, Case No. 1:17-cv-00800 (D. Delaware), filed June 21, 2017; 38 pages.	
	NPL4	Complaint for Patent Infringement Against Barracuda Networks Inc., filed in *Realtime Data LLC d/b/a IXO v. Barracuda Networks Inc.,* Case No. 1:17-cv-00893 (D. Delaware), filed July 5, 2017; 115 pages.	
	NPL5	Complaint for Patent Infringement against Commvault Systems, Inc. and Spectra Logic Corporation, filed in *Realtime Data LLC d/b/a LXO v. CommVault Systems, Inc. et al.,* Case No. 1:17-cv-00925 (D. Delaware), filed July 11, 2017; 79 pages.	
	NPL6	Complaint for Patent Infringement Against Acronis, Inc., filed in Realtime Data LLC d/b/a IXO v. Acronis, Inc., Case No. 1:17-cv-11279 (D. Mass), filed July 12, 2017; 24 pages.	
	NPL7	Copy of Non-Final Office Action for U.S. Patent Application No. 14/727,309, mailed June 8, 2017; 19 pages.	
	NPL8	Copy of Final Office Action for U.S. Patent Application No. 15/391,240, mailed June 16, 2017; 14 pages.	
	NPL9	Copy of Notice of Allowance for U.S. Patent Application No. 13/875,884, mailed June 21, 2017; 11 pages.	
	NPL10	Copy of Non-Final Office Action for U.S. Patent Application No. 15/584,865, mailed June 30, 2017; 6 pages.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	08/02/2017

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Substitute for form 1449/PTO

TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 6

Complete if Known	
Application Number	14/876,276
Filing Date	October 6, 2015
First Named Inventor	James J. FALLON
Art Unit	2634
Examiner Name	BOCURE, Tesfaldet
Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL11	Copy of Non-Final Office Action for U.S. Patent Application No. 15/382,263, mailed July 11, 2017; 9 pages.	
	NPL12	Petition for *Inter Partes* Review, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01663 (P.T.A.B.), filed June 22, 2017; 59 pages.	
	NPL13	Declaration of Daniel Hirschberg, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01663 (P.T.A.B.), filed June 22, 2017; 68 pages.	
	NPL14	Non-Final Office Action directed to U.S. Patent Application No. 11/400,533, mailed July 10, 2007; 7 pages.	
	NPL15	Declaration of Scott Bennett, Ph.D., filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01663 (P.T.A.B.), filed June 22, 2017; 16 pages.	
	NPL16	Petition for *Inter Partes* Review, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01660 (P.T.A.B.), filed June 22, 2017; 58 pages.	
	NPL17	Declaration of Daniel Hirschberg, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01660 (P.T.A.B.), filed June 22, 2017; 67 pages.	
	NPL18	Decision Institution of *Inter Partes* Review, filed in *Veritas Technologies LLC v. Realtime Data LLC,* Case No. IPR2017-00365 (P.T.A.B.), filed June 2, 2017; 11 pages.	
	NPL19	Declaration of Daniel Hirschberg, filed in *Rackspace US Inc. v. Realtime Data LLC,* Case No. IPR2017-01627 (P.T.A.B.), filed June 16, 2017; 63 pages.	
	NPL20	Petition for *Inter Partes* Review of U.S. Patent No. 7,415,530 Under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42.100 *et seq.*, filed in *Rackspace US, Inc. v. Realtime Data LLC,* Case No. IPR2017-01627 (P.T.A.B.), filed June 16, 2017; 75 pages.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	08/02/2017

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TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	3	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL21	Declaration of Daniel Hirschberg, filed in *Rackspace US Inc. v. Realtime Data LLC,* Case No. IPR2017-01629 (P.T.A.B.), filed June 16, 2017; 59 pages.	
	NPL22	Petition for *Inter Partes* Review of U.S. Patent No. 9,116,908 Under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42.100 *et seq.*, filed in *Rackspace US, Inc. v. Realtime Data LLC,* Case No. IPR2017-01629 (P.T.A.B.), filed June 16, 2017; 78 pages.	
	NPL23	Petition for *Inter Partes* Review Under 35 U.S.C. § 311-319 and 37 C.F.R. § 42.100 et seq., filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01664 (P.T.A.B.), filed June 23, 2017; 74 pages.	
	NPL24	Declaration of Daniel Hirschberg, filed in *NetApp, Inc. et al. v. Realtime Data LLC,* Case No. IPR2017-01664 (P.T.A.B.), filed June 23, 2017; 70 pages.	
	NPL25	Transcript of Deposition of Dr. Godmar Back, filed in *Apple Inc. v. Realtime Data LLC,* Case No. IPR2016-01366 (P.T.A.B.), filed June 27, 2017 98 pages.	
	NPL26	Petitioner's Reply to Patent Owner's Response, filed in *Apple Inc. v. Realtime Data LLC*, Case No. IPR2016-01366 (P.T.A.B.), filed June 27, 2017 36 pages.	
	NPL27	Excerpt from Microsoft Computer Dictionary, Fifth Edition, Redmond, WA, Microsoft Corporation: 2002; p. 192.	
	NPL28	Excerpt from The Computer Desktop Encyclopedia, Second Edition, Point Pleasant, PA, The Computer Language Company Inc.: 1999; p. 300.	
	NPL29	Petition for *Inter Partes* Review of U.S. Patent No. 7,161,506, filed in *Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO*, Case No. IPR2017-01688 (P.T.A.B.), filed June 28, 2017; 57 pages.	
	NPL30	Declaration of Charles D. Creusere, Ph.D., filed in *Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO*, Case No. IPR2017-01688 (P.T.A.B.), filed June 28, 2017; 113 pages.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	08/02/2017

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Sheet	4	of	6	Attorney Docket Number	3421.005000C

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	NPL31	Amendment Transmittal Form filed in U.S. Patent Application No. 10/668,768, dated August 20, 2004; 7 pages.	
	NPL32	Petition for *Inter Partes* Review of U.S. Patent No. 9,054,728, filed in *Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO,* Case No. IPR2017-01690 (P.T.A.B.), filed June 28, 2017; 74 pages.	
	NPL33	Declaration of Charles D. Creusere, Ph.D., filed in *Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO*, Case No. IPR2017-01690 (P.T.A.B.), filed June 28, 2017; 139 pages.	
	NPL34	Petition for Inter Partes Review of U.S. Patent No. 7,358,867 Under 35 U.S.C. §§ 311-319 And 37 C.F.R. § 42.100 *et seq.,* filed in *Rackspace US, Inc. v. Realtime Data LLC,* Case No. IPR2017-01691 (P.T.A.B.), filed June 28, 2017; 64 pages.	
	NPL35	Declaration of Dr. Robert Akl, D.S.C. Under 37 C.F.R. § 1.68 (Exhibit #1002), filed in *Rackspace US, Inc. v. Realtime Data LLC,* Case No. IPR2017-01691 (P.T.A.B.), filed June 28, 2017; 116 pages.	
	NPL36	Petition for *Inter Partes* Review of U.S. Patent No. 8,717,204, filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. IPR2017-01710 (P.T.A.B.), filed June 30, 2017; 81 pages.	
	NPL37	Declaration of Professor James Storer, Ph.D., filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. IPR2017-01710 (P.T.A.B.), filed June 30, 2017; 82 pages.	
	NPL38	Postel, J., "User Data Protocol," RFC 768, Network Working Group August 28, 1980; 3 pages.	
	NPL39	Socolofsky, T., "A TCP/IP Tutorial," RFC 1180, Network Working Group January 1991; 28 pages.	
	NPL40	Excerpts from Internetworking With TCP/IP Volume III: Client-Server Programming and Applications, Douglas Comer et al., Prentice Hall, Upper Saddle River, NJ, 2001; pp. 9-21.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	08/02/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Substitute for form 1449/PTO				*Complete if Known*	
TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
				Art Unit	2634
(Use as many sheets as necessary)				Examiner Name	BOCURE, Tesfaldet
Sheet	5	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL41	Excerpts from Introduction to Automata Theory, Languages, and Computation, John Hopcroft et al., Addison-Wesley, Reading, Massachussetts, 1979; pp. 13-54.	
	NPL42	Deskside POWER CHALLENGE and CHALLENGE L Owner's Guide, Silicon Graphics, Inc., 1994; 194 pages.	
	NPL43	Graham, "Trading a Stock vs. Stock Options Part One," Investopedia.com, July 30, 2003; 3 pages.	
	NPL44	Bradner, S., "The Internet Standards Process -- Revision 3," RFC 2026, Network Working Group October 1996; 36 pages.	
	NPL45	Internet Archive version of the web page http://www.acm.org:80/pubs/contents/proceedings/mod/342009/, dated August 16, 2000; 30 pages.	
	NPL46	Internet Archive version of the web page http://www.cs.purdue.edu:80/homes/comer/netbooks.html, dated December 8, 2000; 7 pages.	
	NPL47	MyPearsonStore Webpage for Internetworking with TCP/IP, Vol. III: Client-Server Programming and Applications, Linux/Posix Sockets Version, available at http://www.mypearsonstore.com/bookstore/internetworking-with-tcp-ip-vol.-iii-client-server-9780130320711.	
	NPL48	Declaration of Bridget A. Smith, filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. IPR2017-01710 (P.T.A.B.), filed June 30, 2017; 5 pages.	
	NPL49	Petition for Covered Business Method Review of U.S. Patent No. 8,717,204, filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. CBM2017-00061 (P.T.A.B.), filed June 30, 2017; 78 pages.	
	NPL50	Declaration of Professor James Storer, Ph.D., filed in *Commvault Systems, Inc. v. Realtime Data LLC,* Case No. CBM2017-00061 (P.T.A.B.), filed June 30, 2017; 36 pages.	

Examiner Signature	/TESFALDET BOCURE/	Date Considered	08/02/2017

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

NPL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Substitute for form 1449/PTO				Complete if Known	
TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/876,276
				Filing Date	October 6, 2015
				First Named Inventor	James J. FALLON
(Use as many sheets as necessary)				Art Unit	2634
				Examiner Name	BOCURE, Tesfaldet
Sheet	6	of	6	Attorney Docket Number	3421.005000C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL51	Postal Addressing Standards - Contents, Publication 28, November 1997; 128 pages.	
	NPL52	Excerpts from The Progress of Invention in the Nineteenth Century, Edward W. Byrn, Munn & Co., Publishers 1900; pp. 15-31.	
	NPL53	Excerpts from Comprehensive Dictionary of Electrical Engineering, CRC Press LLC 1999; pp. 249-250.	
	NPL54	Inter Partes Reexamination Certificate in Inter Partes Reexamination of U.S. Patent No. 7,777,651, issued July 8, 2016; 2 pages.	
	NPL55	Maver, American Telegraphy and Encyclopedia of the Telegraph: Systems, Apparatus, Operation, Maver Publishing Company, New York NY 1912; 101 pages.	
	NPL56	Hacker, "MP3: The Definitive Guide," First Edition, O'Reilly March 2000; 8 pages.	
	NPL57	Schulzrinne et al., "RTP: A Transport Protocol for Real-Time Applications," RFC 1889, Network Working Group January 1996 1996; 75 pages.	

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Examiner Signature	/TESFALDET BOCURE/	Date Considered	08/02/2017

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

WEST Search History for Application 14876276

Creation Date: 2017080215:44

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((Fallen adj James).in. or (McErlain adj Stephen).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	48	OR	YES		08-02-2017
((Fallen).in. or (McErlain).in.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	183	OR	YES		08-02-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		08-02-2017
(select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	78	OR	YES		08-02-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and @ad<=20010213	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		08-02-2017
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2	PGPB, USPT, USOC,	38	OR	YES		08-02-2017

ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))	EPAB, JPAB, DWPI, TDBD					
((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((Fallen adj James).in. or (McErlain adj Stephen).in.)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	37	OR	YES		08-02-2017
(selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27	OR	YES		08-02-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric $4near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6525	OR	YES		08-02-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same (assymetric$4 near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		08-02-2017
((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same (parameter or parameters or attribute or attributes) same ((fast near4 slow) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		08-02-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	33	OR	YES		08-02-2017

((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((((((((H03M7/30)))))))) | (((((((H03M7/3084)))))))) | (((((((H03M7/6094)))))))) | (((((((G06F15/7867)))))))) | (((((((G06T1/60)))))))) | (((((((H04N19/136))))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	OR	YES		08-02-2017
(((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) and ((((((((((H03M7/30)))))))) | (((((((H03M7/3059)))))))) | (((((((H03M7/3093)))))))) | (((((((H04L69/04)))))))) | (((((((H04N19/152)))))))) | (((((((H04N9/8042))))))).CPC.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		08-02-2017
("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		08-02-2017
(((((((375/$8))))))).ccls. or (((((((370/$8))))))).ccls. or (((((((348/$8))))))).ccls. or (((((((341/$8))))))).ccls. or (((((((711/$8))))))).ccls. or (((((((701/$8))))))).ccls. or (((((((381/$8))))))).ccls. or (((((((375/382))))))).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1318055	OR	YES		08-02-2017
(((((((375/$8))))))).ccls. or (((((((370/$8))))))).ccls. or (((((((348/$8))))))).ccls. or (((((((341/$8))))))).ccls. or (((((((711/$8))))))).ccls. or (((((((701/$8))))))).ccls. or (((((((381/$8))))))).ccls. or (((((((375/382))))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		08-02-2017

((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))						
(((((((375/240))))))).ccls. or (((((((375/240.01))))))).ccls. or (((((((375/240.02))))))).ccls. or (((((((341/50))))))).ccls. or (((((((341/51))))))).ccls. or (((((((341/126))))))).ccls.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		08-02-2017
((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	28	OR	YES		08-02-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ((selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	94	OR	YES		08-02-2017

(compressing or compression))) or (((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))						
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((((375/240))))))).ccls. or (((((((375/240.01))))))).ccls. or (((((((375/240.02))))))).ccls. or (((((((341/50))))))).ccls. or (((((((341/51))))))).ccls. or (((((((341/126))))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	50	OR	YES		08-02-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		08-02-2017

or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((((375/$8))))))).ccls. or (((((((370/$8))))))).ccls. or (((((((348/$8))))))).ccls. or (((((((341/$8))))))).ccls. or (((((((711/$8))))))).ccls. or (((((((701/$8))))))).ccls. or (((((((381/$8))))))).ccls. or (((((((375/382))))))).ccls.))						
**(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and (((((((H03M7/30)))))))	((((((H03M7/3059))))))	((((((H03M7/3084))))))	((((((H03M7/6094))))))	((((((H03M7/3088))))))	((((((H03M7/6023))))))	((((((H03M7/6064))))))	((((((H04N19/152))))))	((((((G11B20/00007))))))).CPC.)**	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	70	OR	YES		08-02-2017
("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	68	OR	YES		08-02-2017
(("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" |	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	1	OR	YES		08-02-2017

"4682150" | "4701745").PN.) and (((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))))	TDBD					
("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	76	OR	YES		08-02-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((H03M7/30))))) | (((((H03M7/3084))))) | (((((H03M7/6094))))) | (((((H04N19/164))))) | HO4N19/176 | ((((((H04N19/103))))))).CPC.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	63	OR	YES		08-02-2017

("20160127512" | "20160127513" | "5479638" | "5771354").PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10	OR	YES		08-02-2017
20130297575	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		08-02-2017
(5034914 | 5602764 | 5990810 | 6065094 | 6078541 | 20020196166).PN.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17	OR	YES		08-02-2017
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((((((((((375/$8))))))).ccls. or (((((((370/$8))))))).ccls. or (((((((348/$8))))))).ccls. or (((((((341/$8))))))).ccls. or (((((((711/$8))))))).ccls. or (((((((701/$8))))))).ccls. or (((((((381/$8))))))).ccls. or (((((((375/382))))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	71	OR	YES		08-02-2017

select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)))) or (("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN.) or (("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN.) or (("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.))						
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		08-02-2017

((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression)))) and ((5034914 | 5602764 | 5990810 | 6065094 | 6078541 | 20020196166).PN.)						
(((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$3 or (lempel adj2 ziv) and (arithmetic)) near4 (compressing or compression))) and (((((((((375/$8))))))).ccls. or ((((((370/$8)))))).ccls. or ((((((348/$8)))))).ccls. or ((((((341/$8)))))).ccls. or ((((((711/$8)))))).ccls. or ((((((701/$8)))))).ccls. or ((((((381/$8)))))).ccls. or ((((((375/382)))))).ccls.) and ((select$4 or choos$4) near4 ((multiple or plural$4 or two or three or four or five) near5 encoder$) and ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression)) or (selecting or select or choose or choosing) near4 ((compress or compression or compressing) near4 (algorithm or algorithms or mode or modes)) same ((assymetric$4 or (lempel adj2 ziv)) near4 (compressing or compression)) or ((multiple or plural$4 or two or three or four or five) near5 encoder$) same ((assymetric$ or (lempel adj2 ziv)) near4 (compressing or compression))) or ("4558302" | "4568983" | "5046119" | "5227878" | "5333212" | "5379351" | "5379356" | "5402146" | "5408542" | "5684478" | "5870036" | "6023233" | "6092071" | "6169499" | "6215983" | "6370631" | "6404919" | "20160029018" | "5479210" | "5590317" | "5710562" | "6233017" | "6744926" | "7496586" | "5479210" | "5590317" | "5710562" |	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	38	OR	YES		08-02-2017

"6233017" | "6744926" | "7496586" | "3560639" | "5467134" | "5623483" | "5664226").PN. or ("20150334390" | "3394352" | "3490690" | "4021782" | "4032893" | "4054951" | "4127518" | "4302775" | "4325085" | "4360840" | "4386416" | "4394774" | "4464650" | "4494108" | "4499499" | "4574351" | "4626829" | "4646061" | "4682150" | "4701745").PN. or ("20010019630" | "20010031092" | "20010032128" | "20010047473" | "20010052038" | "20020037035" | "20020069354" | "20020078241" | "20020080871" | "20020097172" | "20020101367" | "20020104891" | "20020126755" | "20020169950" | "20020191692" | "20030030575" | "20030034905" | "20030058873" | "20030084238").PN.)) not ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))						
7378992.pn. or 8643513.pn. or 7415530.pn. or 9116908.pn. or 6597812.pn. or 8643513.pn. or 7181608.pn. or 8090936.pn. or 9116908.pn. or 8880862.pn. or 9054728.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	OR	YES		08-02-2017
7161506.pn. or 9054728.pn. or 9116908.pn. or 7415530.pn. or 8643513.pn. or 7358867.pn. or 9054728.pn. or 7415530.pn. or 9116908.pn. or 9054728.pn. or 7415530.pn. or 9116908.pn. or 7378992.pn. or 7161506.pn. or 8643513 or 5265180.pn. or 5276898.pn. or 5555377.pn. or 5815718.pn. or 5867114.pn. or 6658492.pn. or 8832044.pn. or 8832551.pn. or 9667751.pn. or 20070083571 or 20080239917 or 20080279462 or 20090157712 or 20110023052 or 20120124016	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	72	OR	YES		08-02-2017
(7161506.pn. or 9054728.pn. or 9116908.pn. or 7415530.pn. or 8643513.pn. or 7358867.pn. or 9054728.pn. or 7415530.pn. or 9116908.pn. or 9054728.pn. or 7415530.pn. or 9116908.pn. or 7378992.pn. or 7161506.pn. or 8643513 or 5265180.pn. or 5276898.pn. or 5555377.pn. or 5815718.pn. or 5867114.pn. or 6658492.pn. or 8832044.pn. or 8832551.pn. or 9667751.pn. or 20070083571 or 20080239917 or 20080279462	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	68	OR	YES		08-02-2017

or 20090157712 or 20110023052 or 20120124016) not ((((Fallen adj James).in. or (McErlain adj Stephen).in.)) or (((Fallen).in. or (McErlain).in.)))						

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: FALLON *et al.*

Applicant: Realtime Adaptive Streaming, LLC

Application No.: 14/876,276

Filing Date: October 6, 2015

Title: **Video Data Compression Systems**

Confirmation No.: 3403

Art Unit: 2634

Examiner: BOCURE, Tesfaldet

Atty. Docket: 3421.005000C

Twelfth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Notice of Prior and Concurrent Proceedings

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,486)	Inter Partes Reexamination Certificate issued 10/10/2012
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/000,466)	Inter Partes Reexamination Certificate issued 05/15/2012
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/000,453)	Terminated
Ex Parte Reexamination of U.S. Patent No. 6,601,104 (Control No. 90/009,428)	Ex Parte Reexamination Certificate issued 02/28/2012
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/000,478)	Inter Partes Reexamination Certificate issued 10/04/2012
Inter Partes Reexamination of U.S. Patent No. 6,624,761 (Control No. 95/000,464)	Inter Partes Reexamination Certificate issued 06/12/2012
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/000,479)	Inter Partes Reexamination Certificate issued 05/22/2012

/TESFALDET BOCURE/ 07/31/2017

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,714,747 (Control No. 95/001,517)	Appeal to the Court of Appeals for the Federal Circuit dismissed 6/4/2015
Inter Partes Reexamination of U.S. Patent No. 7,417,568 (Control No. 95/001,533)	Inter Partes Reexamination Certificate issued 07/22/2016
Inter Partes Reexamination of U.S. Patent No. 7,777,651 (Control No. 95/001,581)	Inter Partes Reexamination Certificate issued 07/08/2016
Inter Partes Reexamination of U.S. Patent No. 7,400,274 (Control No. 95/001,544)	Inter Partes Reexamination Certificate issued 08/01/2016

Applicant hereby calls to the attention of the Patent and Trademark Office the following reexamination proceedings filed by Cellco Partnership d/b/a Verizon Wireless, involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Status
Inter Partes Reexamination of U.S. Patent No. 7,321,937 (Control No. 95/001,922)	Inter Partes Reexamination Certificate issued 12/05/2013
Inter Partes Reexamination of U.S. Patent No. 6,604,158 (Control No. 95/001,923)	Inter Partes Reexamination Certificate issued 04/17/2015
Inter Partes Reexamination of U.S. Patent No. 7,352,300 (Control No. 95/001,924)	Inter Partes Reexamination Certificate issued 08/04/2014
Inter Partes Reexamination of U.S. Patent No. 7,395,345 (Control No. 95/001,925)	Inter Partes Reexamination Certificate issued 11/03/2014
Inter Partes Reexamination of U.S. Patent No. 7,161,506 (Control No. 95/001,926)	Inter Partes Reexamination Certificate issued 01/08/2014
Inter Partes Reexamination of U.S. Patent No. 7,415,530 (Control No. 95/001,927)	Inter Partes Reexamination Certificate issued 08/16/2013
Inter Partes Reexamination of U.S. Patent No. 7,378,992 (Control No. 95/001,928)	Inter Partes Reexamination Certificate issued 01/08/2014

Applicant invites the Examiner to review the Requests for Reexamination, issued Office Actions, replies, and any other papers in the above-identified reexamination proceedings. If the Examiner is unable to obtain copies of papers in any reexamination proceeding, copies can be provided to the Examiner upon request.

/TESFALDET BOCURE/ 07/31/2017

Atty. Dkt. No. 3421.005000C

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Applicant hereby calls to the attention of the Patent and Trademark Office the following *inter partes* review proceedings involving patents that are commonly-assigned with the patent in the above-identified patent application:

Proceeding	Patent	Status
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00373	7,378,992	Terminated 4/28/2017
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00374	8,643,513	Terminated 4/28/2017
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00375	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00376	7,415,530	Institution Denied 7/1/2016
Oracle America, Inc. v. Realtime Data, LLC, IPR2016-00377	9,116,908	Institution Denied 7/1/2016
SAP America Inc., et al. v. Realtime Data, LLC d/b/a IXO, IPR2016-00783	6,597,812	Oral Hearing 6/30/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00878	7,415,530	Dismissed 6/21/2016
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-00972	7,415,530	Oral Hearing 7/25/2017
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00978	8,643,513	Oral Hearing 7/25/2017
Riverbed Technology, Inc. et al. v. Realtime Data, LLC, IPR2016-00980	7,378,992	Oral Hearing 7/25/2017
Dell Inc., et al. v. Realtime Data, LLC, IPR2016-01002	9,116,908	Oral Hearing 7/25/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01365	7,181,608	Petitioner's Reply 6/27/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01366	8,090,936	Petitioner's Reply 6/27/2017
Oracle America Inc. v. Realtime Data LLC, IPR2016-01671	7,415,530	Terminated (Joined with IPR2016-00972)
Oracle America Inc. v. Realtime Data LLC, IPR2016-01672	9,116,908	Terminated (Joined with IPR2016-01002)
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01737	8,880,862	Patent Owner's Response 6/14/2017
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01738	8,880,862	Patent Owner's Response 6/14/2017

/TESFALDET BOCURE/ 07/31/2017

 L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Proceeding	Patent	Status
Apple Inc. v. Realtime Data, LLC d/b/a IXO, IPR2016-01739	8,880,862	Patent Owner's Response 6/14/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00108	9,054,728	Terminated 4/11/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00167	6,597,812	Terminated 4/11/2017
Oracle America Inc. v. Realtime Data LLC, IPR2017-00168	6,597,812	Terminated 4/11/2017
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00176	7,161,506	Trial Instituted 5/30/2017
Dell Inc. et al. v. Realtime Data LLC, IPR2017-00179	9,054,728	Trial Instituted 5/30/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00364	9,116,908	Joined with IPR2016-01002 6/1/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00365	7,415,530	Joined with IPR2016-00972 6/2/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-00366	8,643,513	Joined with IPR2016-00978 5/24/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00557	7,358,867	Trial instituted 7/6/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00806	7,161,506	Patent Owner's Preliminary Response filed 5/22/2017
Teradata Operations, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-00808	9,054,728	Patent Owner's Preliminary Response filed 5/22/2017
NetApp Inc. v. Realtime Data LLC, IPR2017-01195	7,415,530	Filed 3/30/2017
NetApp Inc. v. Realtime Data LLC, IPR2017-01196	9,116,908	Filed 3/30/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01354	9,054,728	Filed 5/2/2017
Rackspace US, Inc. v. Realtime Data LLC, IPR2017-01627	7,415,530	Filed 6/16/2017
Rackspace US, Inc. v. Realtime Data LLC, IPR2017-01629	9,116,908	Filed 6/16/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01663	7,378,992	Filed 6/22/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01660	7,161,506	Filed 6/22/2017
NetApp Inc. et al. v. Realtime Data LLC, IPR2017-01664	8,643,513	Filed 6/23/2017

Proceeding	Patent	Status
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-01688	7,161,506	Filed 6/28/2017
Veritas Technologies LLC v. Realtime Data LLC d/b/a IXO, IPR2017-01690	9,054,728	Filed 6/28/2017
Rackspace US, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-01691	7,358,867	Filed 6/28/2017
CommVault Systems, Inc. v. Realtime Data LLC d/b/a IXO, IPR2017-01710	8,717,204	Filed 6/30/2017
CommVault Systems, Inc. v. Realtime Data LLC d/b/a IXO, CBM2017-00061	8,717,204	Filed 6/30/2017

Applicant invites the Examiner to review the petitions for *inter partes* review and any other papers in the above-identified *inter partes* review proceedings. If the Examiner is unable to obtain copies of papers in any *inter partes* review proceeding, copies can be provided to the Examiner upon request. Those documents which may be material that are not already of record in this patent application are listed on the accompanying Form PTO/SB/08 as documents **US2-US6, FP1,** and **NPL12-NPL57.**

Notice of Related Litigation

Applicant notifies the Patent and Trademark Office of the following litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
1	*Realtime Data LLC d/b/a IXO v. Packeteer, Inc. et al.*, No. 6:08-cv-00144-LED (E.D. Texas)	Dismissed

Applicant also notifies the Patent and Trademark Office of the following additional litigation involving U.S. Patents commonly-owned with the current patent application, the subject matter of which may be related to the present patent application:

No.	Case	Status
2	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al.* No. 1:11-cv-06698-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00333-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
3	*Realtime Data LLC d/b/a IXO v. Morgan Stanley et al.*, No. 1:11-cv-06696-RJH (S.D. New York) (transferred from E.D. Texas; 6:09-cv-00326-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
4	*Realtime Data LLC d/b/a IXO v. CME Group Inc., et al.*, No. 1:11-cv-06697-RJH (S.D. New York) (transferred from E.D. Texas; No. 6:09-cv-00327-LED)	Case Terminated 11/9/2012; Opinion of the Court of Appeals for the Federal Circuit received 01/27/2014
5	*Chicago Board Options Exchange, Inc., v. Realtime Data LLC d/b/a IXO*, No. 09-cv-4486 (N.D. Ill.)	Dismissed
6	*Thomson Reuters Corporation v. Realtime Data, LLC d/b/a IXO*, No. 1:09-cv-07868-RMB (S.D.N.Y)	Consolidated with Case No. 2
7	*Realtime Data, LLC d/b/a IXO v. CME Group Inc., et al. (II)*, No. 6:10-cv-246 (E.D. Texas)	Consolidated with Case No. 4
8	*Realtime Data LLC d/b/a IXO v. Thomson Reuters Corporation et al. (II)*, No. 6:10-cv-247 (E.D. Texas)	Consolidated with Case No. 2
9	*Realtime Data, LLC d/b/a IXO v. Morgan Stanley, et al. (II)*, No. 6:10-cv-248 (E.D. Texas)	Consolidated with Case No. 3
10	*Realtime Data, LLC d/b/a IXO v. MetroPCS Texas, LLC et al.*, No. 6:10-cv-00493 (E.D. Texas)	Appeal Terminated
11	*Realtime Data, LLC d/b/a IXO v. Microsoft Corporation, et al.*, No. 4:14-cv-00827 (E.D. Texas)	Dismissed 5/1/2015
12	*Realtime Data, LLC d/b/a IXO v. Actian Corporation, et al.*, No. 6:15-cv-00463 (E.D. Texas)	Order to submit claim constructions 4/10/2017
13	*Realtime Data, LLC d/b/a IXO v. Dropbox, Inc.*, No. 6:15-cv-00465 (E.D. Texas)	Dismissed 2/22/2016
14	*Realtime Data, LLC d/b/a IXO v. Echostar Corporation, et al.*, No. 6:15-cv-00466 (E.D. Texas)	Consolidated with Case No. 12
15	*Realtime Data, LLC d/b/a IXO v. Riverbed Technology, Inc., et al.*, No. 6:15-cv-00468 (E.D. Texas)	Consolidated with Case No. 12
16	*Realtime Data, LLC d/b/a IXO v. BMC Software, Inc.*, No. 6:15-cv-00464 (E.D. Texas)	Terminated 10/5/ 2015
17	*Realtime Data, LLC d/b/a IXO v. Oracle America, Inc., et al.*, No. 6:15-cv-00467 (E.D. Texas)	Consolidated with Case No. 22

No.	Case	Status
18	*Realtime Data, LLC d/b/a IXO v. SAP America, Inc., et al.*, No. 6:15-cv-00469 (E.D. Texas)	Consolidated with Case No. 12
19	*Realtime Data, LLC d/b/a IXO v. Teradata Corporation, et al.*, No. 5:16-cv-01836 (N.D. Cal.) (transferred from E.D. Texas; 6:15-cv-00470)	Case dismissed 5/18/2016
20	*Realtime Data, LLC d/b/a IXO v. Apple Inc.*, No. 3:16-cv-02595 (transferred from E.D. Texas; 6:15-cv-00885)	Stayed pending *inter partes* review 3/27/2017
21	*Realtime Data LLC d/b/a IXO v. Hewlett Packard Enterprise Co., et al.*, No. 6:16-cv-00086 (E.D. Texas)	Transferred to N.D. California – Case No. 42
22	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:16-cv-00088 (E.D. Texas)	Final Judgment all claims dismissed 5/15/2017
23	*Realtime Data LLC d/b/a IXO v. CenturyLink, Inc., et al.*, No. 6:16-cv-00087 (E.D. Texas)	Stayed pending *inter partes* review 3/1/2017
24	*Realtime Data LLC d/b/a IXO v. Dell, Inc., et al.*, No. 6:16-cv-00089 (E.D. Texas)	Stayed pending *inter partes* review 2/7/2017
25	*Realtime Data LLC d/b/a IXO v. Teradata Operations, Inc.*, No. 2:16-cv-02743 (C.D. Cal.)	Stayed pending *inter partes* review 2/25/2017
26	*Realtime Data LLC d/b/a IXO v. Rackspace US, Inc., et al.*, No. 6:16-cv-00961 (E.D. Texas)	Motion to Stay denied 4/24/2017
27	*Realtime Data LLC d/b/a IXO v. Fujitsu America, Inc. et al.*, No. 6:16-cv-01035 (E.D. Texas)	Transferred to N.D. California – Case No. 41
28	*Realtime Data LLC d/b/a IXO v. Vembu Technologies, Inc.*, No. 6:16-cv-01037 (E.D. Texas)	Consolidated with Case No. 26
29	*Realtime Data LLC d/b/a IXO v. Oracle America, Inc.*, No. 6:17-cv-00046 (E.D. Texas)	Final Judgment case dismissed 5/8/2017
30	*Realtime Data LLC d/b/a IXO v. Echostar Corporation et al.*, No. 6:17-cv-00084 (E.D. Texas)	Amended complaint 6/6/2017
31	*Realtime Data LLC d/b/a IXO v. Acronis, Inc.*, No. 6:17-cv-00118 (E.D. Texas)	Filed 2/27/2017
32	*Realtime Data LLC d/b/a IXO v. Array Networks, Inc.*, No. 6:17-cv-00119 (E.D. Texas)	Filed 2/27/2017
33	*Realtime Data LLC d/b/a IXO v. Barracuda Networks, Inc.*, No. 6:17-cv-00120 (E.D. Texas)	Answer to Complaint 4/24/2017
34	*Realtime Data LLC d/b/a IXO v. Carbonite, Inc. et al.*, No. 6:17-cv-00121 (E.D. Texas)	Answer and counterclaim 5/9/2017
35	*Realtime Data LLC d/b/a IXO v. Circadence Corporation*, No. 6:17-cv-00122 (E.D. Texas)	Final Judgment case dismissed 4/25/2017
36	*Realtime Data LLC d/b/a IXO v. CommVault Systems, Inc. et al.*, No. 6:17-cv-00123 (E.D. Texas)	Amended complaint 5/18/2017

No.	Case	Status
37	*Realtime Data LLC d/b/a IXO v. Exinda Inc.*, No. 6:17-cv-00124 (E.D. Texas)	Amended answer to Complaint 5/30/2017
38	*Realtime Data LLC d/b/a IXO v. NETGEAR, Inc.*, No. 6:17-cv-00125 (E.D. Texas)	Amended answer to Complaint 5/30/2017
39	*Realtime Data LLC d/b/a IXO v. Synacor Inc.*, No. 6:17-cv-00126 (E.D. Texas)	Answer to Complaint 5/5/2017
40	*Realtime Data LLC d/b/a IXO v. Riverbed Technology, Inc.*, No. 6:17-cv-00198 (E.D. Texas)	Filed 4/3/2017
41	*Realtime Data LLC v. Fujitsu America, Inc. et al.*, No. 3:17-cv-02109 (N.D. Cal.)	Transferred in from E.D. Texas 4/17/2017
42	*Realtime Data LLC v. Silver Peak Systems, Inc.*, No. 4:17-cv-02373 (N.D. Cal.)	Transferred in from E.D. Texas 4/26/2017
43	*Realtime Data LLC v. Riverbed Technology, Inc.*, No. 3:17-cv-03182 (N.D. Cal.)	Filed 6/2/2017
44	*Realtime Data LLC d/b/a IXO v. Array Networks Inc.*, No. 1:17-cv-00800 (D. Del.)	Filed 6/21/2017
45	*Realtime Data LLC d/b/a IXO v. Barracuda Networks, Inc.*, No. 1:17-cv-00893 (D. Del.)	Filed 7/5/2017
46	*Realtime Data LLC d/b/a IXO v. CommVault Systems, Inc.*, No. 1:17-cv-00925 (D. Del.)	Filed 7/10/2017
47	*Realtime Data LLC d/b/a IXO v. Acronis, Inc.*, No. 1:17-cv-11279 (D. Mass.)	Filed 7/12/2017
48	*Realtime Data LLC d/b/a IXO v. DISH Network Corporation et al.*, 6:17-cv-00421 (E.D. Texas)	Case severed from 6:17-cv-84 7/19/2017

Information Disclosure Statement

Listed on accompanying IDS Forms PTO/SB/08a equivalent and/or PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicant has listed

publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Filing under 37 C.F.R. § 1.97(e)(2). No item of information contained in the IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the IDS. In addition:

Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), no copies of U.S. patents and patent application publications cited as documents **US1-US15** on the attached IDS Forms are submitted.

/TESFALDET BOCURE/ 07/31/2017 Atty. Dkt. No. 3421.005000C

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Copies of the **FP1** and **NPL1-NPL57** documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 14/733,565, filed June 8, 2015 (now pending), which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is expected that the examiner will review the prosecution and cited art in the parent application nos. 14/733,565, filed June 8, 2015 (now pending); 14/577,286, filed December 19, 2014 (now abandoned); 14/134,933, filed December 19, 2013 (now U.S. Patent No. 8,929,442); 14/033,245, filed September 20, 2013 (now U.S. Patent No. 8,934,535); 13/154,239, filed June 6, 2011 (now U.S. Patent No. 8,553,759); 12/123,081, filed May 19, 2008 (now U.S. Patent No. 8,073,047); and 10/076,013, filed February 13, 2002 (now U.S. Patent No. 7,386,046), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

In accordance with the Federal Circuit decision in *Dayco Prods., Inc. v. Total Containment, Inc.* 329 F.3d 1358 (Fed. Cir. 2003), Applicants submit herewith Office Actions from the co-pending U.S. Patent Application Nos. 13/875,884, filed May 2, 2013 (now pending); 14/727,309, filed June 1, 2015 (now pending); 15/382,263, filed December 16, 2016 (now pending); 15/391,240, filed December 27, 2016 (now pending); and 15/584,865, filed May 2, 2017 (now pending) as documents **NPL7-NPL11**.

The identification of these Office Actions is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is

respectfully requested to consider the cited applications and the art cited therein during examination.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael V. Messinger
Attorney for Applicant
Registration No. 37,575

Date: July 27, 2017

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600
5506109_1.docx

 L REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.B/

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14876276	FALLON ET AL.
	Examiner	Art Unit
	TESFALDET BOCURE	2634

CPC- SEARCHED		
Symbol	Date	Examiner
((H03M7/30)) | ((H03M7/3084)) | ((H03M7/6094)) | ((G06F15/7867)) | ((G06T1/60)) | ((H04N19/136).CPC.)	01/22/2016	TB
((H03M7/30)) | ((H03M7/3059)) | ((H03M7/3093)) | ((H04L69/04)) | ((H04N19/152)) | ((H04N9/8042).CPC.)	01/22/2016	TB
((H03M7/30 | H03M7/3059 | H03M7/3084 | H03M7/6094 | H03M7/3088 | H03M7/6023 | H03M7/6064 | H04N19/152 | G11B20/00007).CPC.)	01/23/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC.	04/17/2016	TB
CPC Updated, see WEST search result for search strategy.	04/18/2016	TB
CPC Updated, see WEST search result for search strategy.	05/29/2016	TB
(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103) .CPC. Updated	08/05/2016	TB
CPC Updated, see WEST search result for search strategy.	10/16/2016	TB
CPC Updated, see WEST search result for search strategy.	12/08/2016	TB
CPC Updated, see WEST search result for search strategy.	01/31/2017	TB
CPC Updated, see WEST search result for search strategy.	02/18/2017 & 02/20/2017	TB
CPC Updated, see WEST search result for search strategy.	08/02/2017	TB

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

Class	Subclass	Date	Examiner
375	240, 240.01, 240.02	01/22/2016	TB
341	50, 51, 126	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search ALL ($8.ccls.), See WEST Search for terms used with the clases	01/22/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	01/23/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	04/17/2016 & 04/18/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	05/29/2016	TB
375, 370, 348, 341, 711, 701, 381	Search Updated, See WEST Search	08/05/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	10/16/2016	TB
375, 370, 348, 341, 711, 701, 381	see WEST search result for search strategy.	12/08/2016	TB
375, 370, 348, 341, 711, 701, 381	See WEST search result	01/31/2017	TB
375, 370, 348, 341, 711, 701, 381	See WEST search result	02/18/2017 & 02/20/2017	TB
375, 370, 348, 341, 711, 701, 381	Search Updated ALL, See WEST Search	08/02/2017	TB

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES

Search Notes	Date	Examiner
WEST and Inventor's Name Searched	01/22/2016	TB
See Realted parent application 14/733,565 for further presecution History	01/22/2016	TB
WEST Search Updated	01/23/2016	TB
WEST Search Updated	04/17/2016	TB
WEST Search Updated	04/18/2016	TB
WEST Search Updated	05/29/2016	TB
WEST Search Updated	08/05/2016	TB
WEST Search Updated	10/16/2016	TB
WEST Search Updated	12/08/2016	TB
WEST Search Updated	01/31/2017	TB
WEST search updated	02/18/2017 & 02/20/2017	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
WEST search updated	08/02/2017	TB

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
375	240, 240.1	04/18/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	04/18/2016	TB
375	240, 240.1	05/29/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	05/29/2016	TB
375	240, 240.1	08/05/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	08/05/2016	TB
375	240, 240.1	10/16/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	10/16/2016	TB
375	240, 240.1	12/08/2016	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	12/08/2016	TB
375	240, 240.1	01/31/2017	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	01/31/2017	TB
375	240, 240.1	02/20/2017	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	02/20/2017	TB
375	240, 240.1	08/02/2017	TB
CPC	(H03M7/30|H03M7/3084|H03M7/6094|H04N19/164|HO4N19/176|H04N19/103).CPC.	08/02/2017	TB

	/TESFALDET BOCURE/ Primary Examiner.Art Unit 2634

Electronic Acknowledgement Receipt

EFS ID:	29911788
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	VIDEO DATA COMPRESSION SYSTEMS
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger
Filer Authorized By:	
Attorney Docket Number:	3421.005000C
Receipt Date:	27-JUL-2017
Filing Date:	06-OCT-2015
Time Stamp:	17:07:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1840
RAM confirmation Number	072817INTEFSW00004017190036
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

Electronic Patent Application Fee Transmittal

Application Number:	14876276
Filing Date:	06-Oct-2015
Title of Invention:	VIDEO DATA COMPRESSION SYSTEMS
First Named Inventor/Applicant Name:	James J. FALLON
Filer:	Michael V. Messinger
Attorney Docket Number:	3421.005000C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
PETITION FEE- 37 CFR 1.17(H) (GROUP III)	1464	1	140	140
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1700	1700
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Adjustment Date: 08/09/2017 SDIRETA1
07/28/2017 INTEFSW 00004017 190036 14876276
02 FC:1820 1700.00 CR

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/876,276	09/19/2017	9769477	3421.005000C	3403

26111 7590 08/30/2017

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

James J. FALLON, Armonk, NY;
Realtime Adaptive Streaming, LLC, Tyler, TX;
Stephen J. MCERLAIN, Astoria, NY;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

PTO/AIA/82B (07-13)
Approved for use through 01/31/2018. OMB 0651-0035
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 151145

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Realtime Adaptive Streaming LLC

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	/Richard A. Taylor/	Date (Optional)	10/25/17
Name	Richard A. Taylor		
Title	Managing Member		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/82A (07-13)
Approved for use through 01/31/2018. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	14/876,276
Filing Date	10-06-2015
First Named Inventor	James J. FALLON
Title	VIDEO DATA COMPRESSION SYSTEMS
Art Unit	2634
Examiner Name	BOCURE, TESFALDET
Attorney Docket Number	0013.005000C

SIGNATURE of Applicant or Patent Practitioner

Signature	/Michael Messinger/	Date (Optional)	
Name	Michael V. Messinger	Registration Number	37,575
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	30778980
Application Number:	14876276
International Application Number:	
Confirmation Number:	3403
Title of Invention:	VIDEO DATA COMPRESSION SYSTEMS
First Named Inventor/Applicant Name:	James J. FALLON
Customer Number:	26111
Filer:	Michael V. Messinger/Casey Berger
Filer Authorized By:	Michael V. Messinger
Attorney Docket Number:	3421.005000C
Receipt Date:	27-OCT-2017
Filing Date:	06-OCT-2015
Time Stamp:	10:23:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	RealtimeAdaptiveStreaming_SignedPOA.pdf	126224 97280022a42ca100e674a6e1074b9f555bc54c27	no	1

Warnings:

The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing

Information:

2	Power of Attorney	0013005000C_POATransmittal.pdf	178367 7dfd655402a7ec5a49e5c8350438df7c3fe926ae	no	1

Warnings:

Information:

Total Files Size (in bytes):	304591

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/876,276	10/06/2015	James J. FALLON	0013.005000C

CONFIRMATION NO. 3403

151145
Shami Messinger PLLC
1000 Potomac Street NW
Fifth Floor
Washington, DC 20007

POA ACCEPTANCE LETTER

OC000000095186220

Date Mailed: 11/02/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/27/2017.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ldvan/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/876,276	10/06/2015	James J. FALLON	3421.005000C

CONFIRMATION NO. 3403

POWER OF ATTORNEY NOTICE

26111
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

Date Mailed: 11/02/2017

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/27/2017.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ldvan/

AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Central District of California on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
2:17-cv-07611	10/17/2017	Central District of California

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	HULU, LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	Realtime Data, LLC
2	9,769,477	9/19/2017	Realtime Adaptive Streaming LLC
3	9,762,907	9/12/2017	Realtime Adaptive Streaming LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Tyler Division on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:17-cv-491	10/18/2017	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	CISCO SYSTEMS, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	REALTIME ADAPTIVE STREAMING LLC
2	9,769,477	9/19/2017	REALTIME ADAPTIVE STREAMING LLC
3	8,929,442	1/6/2015	REALTIME ADAPTIVE STREAMING LLC
4	9,762,907	9/12/2017	REALTIME ADAPTIVE STREAMING LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:17-cv-491	10/18/2017	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	CISCO SYSTEMS, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	REALTIME ADAPTIVE STREAMING LLC
2	9,769,477	9/19/2017	REALTIME ADAPTIVE STREAMING LLC
3	8,929,442	1/6/2015	REALTIME ADAPTIVE STREAMING LLC
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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:17cv549	9/27/2017	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	AMAZON.COM, INC. et al

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	REALTIME ADAPTIVE STREAMING LLC
2	9,769,477	9/19/2017	REALTIME ADAPTIVE STREAMING LLC
3	8,929,442	1/6/2015	REALTIME ADAPTIVE STREAMING LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the District of Delaware on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
	10/26/2017	for the District of Delaware

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	HAIVISION NETWORK VIDEO INC., HAIVISION NETWORK VIDEO CORP., AND HAIVISION KB, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	REALTIME ADAPTIVE STREAMING LLC
2	9,769,477	9/19/2017	REALTIME ADAPTIVE STREAMING LLC
3	8,929,442	1/6/2015	REALTIME ADAPTIVE STREAMING LLC
4	9,762,907	9/12/2017	REALTIME ADAPTIVE STREAMING LLC
5	7,386,046	6/10/2008	REALTIME ADAPTIVE STREAMING LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

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TO:	**Mail Stop 8** **Director of the U.S. Patent and Trademark Office** **P.O. Box 1450** **Alexandria, VA 22313-1450**	**REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK**

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Tyler Division on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:17-cv-491	10/18/2017	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	CISCO SYSTEMS, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	REALTIME ADAPTIVE STREAMING LLC
2	9,769,477	9/19/2017	REALTIME ADAPTIVE STREAMING LLC
3	8,929,442	1/6/2015	REALTIME ADAPTIVE STREAMING LLC
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Central District of California on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
2:17-cv-07611	10/17/2017	Central District of California

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	HULU, LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	Realtime Data, LLC
2	9,769,477	9/19/2017	Realtime Adaptive Streaming LLC
3	9,762,907	9/12/2017	Realtime Adaptive Streaming LLC
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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:18-cv-113	3/9/2018	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	SAMSUNG ELECTRONICS CO., LTD., SAMSUNG ELECTRONICS AMERICA, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	REALTIME ADAPTIVE STREAMING LLC
2	9,769,477	9/19/2017	REALTIME ADAPTIVE STREAMING LLC
3	8,929,442	1/6/2015	REALTIME ADAPTIVE STREAMING LLC
4	7,386,046	6/10/2008	REALTIME ADAPTIVE STREAMING LLC
5	8,634,462	1/21/2014	REALTIME ADAPTIVE STREAMING LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:18-cv-113	3/9/2018	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	SAMSUNG ELECTRONICS CO., LTD., SAMSUNG ELECTRONICS AMERICA, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	9,578,298	2/21/2017	REALTIME ADAPTIVE STREAMING LLC
2	9,762,907	9/12/2017	REALTIME ADAPTIVE STREAMING LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court District of Colorado on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
18CV00927	4/20/2018	District of Colorado

PLAINTIFF	DEFENDANT
Realtime Adaptive Streaming, LLC	Wowza Media Systems, LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,386,046	6/10/2008	Realtime Adaptive Streaming LLC
2	8,934,535	1/13/2015	Realtime Adaptive Streaming LLC
3	9,769,477	9/19/2017	Realtime Adaptive Streaming LLC
4	8,634,462	1/21/2014	Realtime Adaptive Streaming LLC
5	9,578,298	2/21/2017	Realtime Adaptive Streaming LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT Central District of California
PLAINTIFF Realtime Adaptive Streaming LLC		DEFENDANT GOOGLE LLC, and YOUTUBE, LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,386,046	6/10/2008	Realtime Adaptive Streaming LLC
2	8,934,535	1/13/2015	Realtime Adaptive Streaming LLC
3	9,769,477	9/19/2017	Realtime Adaptive Streaming LLC
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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
18CV1048	5/4/2018	District of Colorado

PLAINTIFF	DEFENDANT
Realtime Adaptive Streaming LLC	Broadcom Corporation and Broadcom Ltd.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,386,046	6/10/2008	Realtime Adaptive Streaming LLC
2	8,934,535	1/13/2015	Realtime Adaptive Streaming LLC
3	9,769,477	9/19/2017	Realtime Adaptive Streaming LLC
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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:18-cv-215	5/15/2018	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
Realtime Adaptive Streaming LLC	LG Electronics Inc., LG Electronics U.S.A., Inc. and LG Electronics Mobilecomm U.S.A., Inc.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,386,046 B2	6/10/2008	Realtime Adaptive Streaming LLC
2	8,934,535 B2	1/13/2015	Realtime Adaptive Streaming LLC
3	9,769,477 B2	9/19/2017	Realtime Adaptive Streaming LLC
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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

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PLAINTIFF	DEFENDANT
Realtime Adaptive Streaming LLC	LG Electronics Inc., LG Electronics U.S.A., Inc. and LG Electronics Mobilecomm U.S.A., Inc.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,386,046 B2	6/10/2008	Realtime Adaptive Streaming LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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DECISION/JUDGEMENT

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Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the District of Colorado on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
17-cv-2869	11/30/2017	for the District of Colorado

PLAINTIFF	DEFENDANT
Realtime Adaptive Streaming, LLC	Apple INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7386046		
2	8634462		
3	8929442		
4	8934535		
5	9578298		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9769477		
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

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Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
18-cv-01046	5/4/1046	for the District of Colorado

PLAINTIFF	DEFENDANT
Realtime Adaptive Streaming, LLC	Avaya Inc.

PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7386046		
2 9769477		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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DECISION/JUDGEMENT

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AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Tyler Division on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:18-cv-113	3/9/2018	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	SAMSUNG ELECTRONICS CO., LTD., SAMSUNG ELECTRONICS AMERICA, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	REALTIME ADAPTIVE STREAMING LLC
2	9,769,477	9/19/2017	REALTIME ADAPTIVE STREAMING LLC
3	8,929,442	1/6/2015	REALTIME ADAPTIVE STREAMING LLC
4	7,386,046	6/10/2008	REALTIME ADAPTIVE STREAMING LLC
5	8,634,462	1/21/2014	REALTIME ADAPTIVE STREAMING LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

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☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:18-cv-113	3/9/2018	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	SAMSUNG ELECTRONICS CO., LTD., SAMSUNG ELECTRONICS AMERICA, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	9,578,298	2/21/2017	REALTIME ADAPTIVE STREAMING LLC
2	9,762,907	9/12/2017	REALTIME ADAPTIVE STREAMING LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

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Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

AO 120 (Rev. 08/10)

TO:	**Mail Stop 8** **Director of the U.S. Patent and Trademark Office** **P.O. Box 1450** **Alexandria, VA 22313-1450**	**REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK**

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Tyler Division on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:17-cv-491	10/18/2017	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	CISCO SYSTEMS, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	REALTIME ADAPTIVE STREAMING LLC
2	9,769,477	9/19/2017	REALTIME ADAPTIVE STREAMING LLC
3	8,929,442	1/6/2015	REALTIME ADAPTIVE STREAMING LLC
4	9,762,907	9/12/2017	REALTIME ADAPTIVE STREAMING LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

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Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

AO 120 (Rev. 08/10)

TO:	Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Central District of California on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
2:17-cv-07611	10/17/2017	Central District of California

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	HULU, LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	Realtime Data, LLC
2	9,769,477	9/19/2017	Realtime Adaptive Streaming LLC
3	9,762,907	9/12/2017	Realtime Adaptive Streaming LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

AO 120 (Rev. 08/10)

TO:	**Mail Stop 8** **Director of the U.S. Patent and Trademark Office** **P.O. Box 1450** **Alexandria, VA 22313-1450**	**REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK**

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Tyler Division on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:18-cv-215	5/15/2018	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
Realtime Adaptive Streaming LLC	LG Electronics Inc., LG Electronics U.S.A., Inc. and LG Electronics Mobilecomm U.S.A., Inc.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,386,046 B2	6/10/2008	Realtime Adaptive Streaming LLC
2	8,934,535 B2	1/13/2015	Realtime Adaptive Streaming LLC
3	9,769,477 B2	9/19/2017	Realtime Adaptive Streaming LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
All claims, counterclaims, and third-party claims in the instant suit are DISMISSED in their entirety.

CLERK	(BY) DEPUTY CLERK	DATE
David A. O'Toole	Belinda Saenz	09/26/2018

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
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AO 120 (Rev. 08/10)

TO:	**Mail Stop 8** **Director of the U.S. Patent and Trademark Office** **P.O. Box 1450** **Alexandria, VA 22313-1450**	**REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK**

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Central District of California on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT Central District of California
PLAINTIFF Realtime Adaptive Streaming LLC		DEFENDANT COX COMMUNICATIONS, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,386,046	6/10/2008	Realtime Adaptive Streaming LLC
2	8,934,535	1/13/2015	Realtime Adaptive Streaming LLC
3	9,769,477	9/19/2017	Realtime Adaptive Streaming LLC
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

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DECISION/JUDGEMENT

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Trials@uspto.gov
571-272-7822

Paper 10
Entered: January 2, 2019

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SONY CORPORATION and POLYCOM, INC.,
Petitioner,

v.

REALTIME DATA LLC,
Patent Owner.

Case IPR2018-01413
Patent 9,769,477 B2

Before GEORGIANNA WITT BRADEN and KEVIN W. CHERRY, *Administrative Patent Judges.*

BRADEN, *Administrative Patent Judge.*

DECISION
Joint Motion to Terminate Proceeding
37 C.F.R. § 42.72

INTRODUCTION

In an email dated November 5, 2018, Sony Corporation and Polycom, Inc. (respectively "Sony" and "Polycom," collectively "Petitioners") and Realtime Data, LLC ("Patent Owner") requested authorization to file a Joint Motion to Terminate this proceeding ("Motion") and a Joint Request to Keep Separate ("Joint Request") a confidential settlement agreement to be filed concurrently. Ex. 3001. On November 7, 2018, we authorized the filing of the Motions. *Id.*

On November 7, 2018, the parties filed the Motion (Paper 8) and Sony and Polycom filed separate Joint Requests (Papers 9 and 10 respectively). On November 7, 2018, a separate true copy of a RELEASE TERMS agreement for Sony and for Polycom were filed under the "Board Only" designation. Exs. 2003 and 2004 respectively.

Under 35 U.S.C. § 317(a), "[a]n inter partes review instituted under this chapter shall be terminated with respect to any petitioner upon the joint request of the petitioner and patent owner, unless the Office has decided the merits of the proceeding before the request for termination is filed." The grant of the Motion will result in the termination of this proceeding. The parties are reminded that the Board is not a party to the settlements, and may identify independently any question of patentability. 37 C.F.R § 42.74(a).

Generally, however, the Board expects that a proceeding will terminate as to settling parties after the filing of a settlement agreement. *See, e.g.*, Office Patent Trial Practice Guide, 77 Fed. Reg. 48,756, 48,768 (Aug. 14, 2012). Patent Owner has not filed a Preliminary Response and we have not instituted trial. This proceeding is at a very early stage. The Board

is persuaded that, under these circumstances, it is appropriate to terminate this proceeding. *See* 37 C.F.R. § 42.72.

ORDER

Accordingly, it is:

ORDERED that the joint motion to terminate the proceeding is GRANTED, and the proceeding is hereby terminated as to all parties; and

FURTHER ORDERED that the parties' joint request to keep separate Exhibits 2003 and 2004 is GRANTED, and the specified exhibits shall be: (i) treated as business confidential information; (ii) kept separate from the files of U.S. Patent No. 9,762,907; (iii) kept confidential from any third party; (iv) filed as "BOARD ONLY" as accessible only to the Board and no other party to this proceeding; and (v) made available only to Federal Government agencies on written request, or to any person on a showing of good cause, under the provisions of 35 U.S.C. § 317(b) and 37 C.F.R. § 42.74(c).

PETITIONERS:

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571.272.7822

Paper No. 22
Filed: February 4, 2019

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

NETFLIX, INC.,
Petitioner,

v.

REALTIME ADAPTIVE STREAMING LLC,
Patent Owner.

Case IPR2018-01187
Patent 9,769,477 B2

Before GEORGIANNA W. BRADEN, KEVIN W. CHERRY, and KAMRAN JIVANI, *Administrative Patent Judges*.

BRADEN, *Administrative Patent Judge*.

DECISION
Institution of *Inter Partes* Review
37 C.F.R. § 42.108

I. INTRODUCTION

A. Background

Netflix, Inc. ("Petitioner") filed a Petition[1] requesting an *inter partes* review of claims 1–6, 9–14, 20–22, and 25–27 of U.S. Patent No. 9,769,477 B2 (Ex. 1001, "the '477 patent"). Paper 4 ("Pet."). Realtime Adaptive Streaming LLC ("Patent Owner") filed a preliminary response. Paper 19 ("Prelim. Resp."). We have jurisdiction under 35 U.S.C. § 314(a), which provides that an *inter partes* review may not be instituted "unless . . . there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition." After considering the Petition, the Preliminary Response, and associated evidence, we conclude Petitioner has demonstrated a reasonable likelihood that it would prevail in showing the unpatentability of at least one claim of the '477 patent. Thus, we authorize institution of an *inter partes* review of claims 1–6, 9–14, 20–22, and 25–27 of the '477 patent.

B. Related Proceedings

Petitioner informs us of multiple pending district court proceedings involving the '477 patent, such of which involve Petitioner. Pet. 67–69. Patent Owner informs us of two pending *inter partes* review petitions challenging the '477 patent, IPR2018-01413 and IPR2018-01630. Paper 15, 1 (Patent Owner's Mandatory Notices). We note IPR2018-01413 was

[1] Amazon.com Inc. and Hulu, LLC were part of the Petition originally. The Board has granted Amazon.com Inc. and Hulu, LLC's Joint Motion to Terminate *Inter Partes* Reviews as to Amazon.com, Inc. and Hulu, LLC. Paper 14. Thus, Netflix is the sole remaining Petitioner in this proceeding.

terminated prior to the issuance of a decision on institution. IPR2018-01413, Paper 10.

C. The '477 Patent

The '477 patent was filed on October 6, 2015, and is titled "Video Data Compression Systems." Ex. 1001, Title. It describes systems and methods directed to a "compressing and decompressing based on the actual or expected throughput (bandwidth) of a system employing data compression and a technique of optimizing based upon planned, expected, predicted, or actual usage ." Ex. 1001, 7:66–8:3, 9:27–31. The '477 patent states that "dynamic modification of compression system parameters so as to provide an optimal balance between execution speed of the algorithm (compression rate) and the resulting compression ratio, is highly desirable." *Id.* at 1:64–67. The '477 patent also states that it seeks to "provide[] a desired balance between execution speed (rate of compression) and efficiency (compression ratio)." *Id.* at 8:24–27. For example, where the speed of the encoder causes a "bottleneck" because "the compression system cannot maintain the required or requested data rates," "then the controller will command the data compression system to utilize a compression routine providing faster compression . . . so as to mitigate or eliminate the bottleneck." *Id.* at 14:14–24. The '477 patent discloses that it can resolve "bottlenecks" in the throughput of a system by switching between different compression algorithms applied to data. *Id.* at 10:3–8.

One embodiment of the '477 patent is shown in Figure 2, reproduced below.

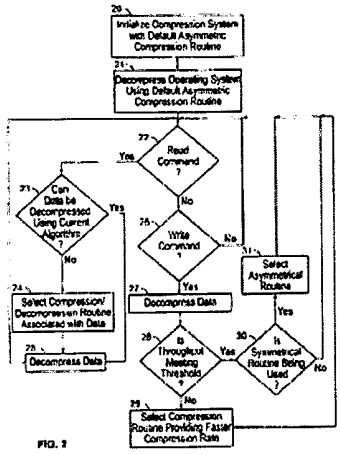


Figure 2, above, illustrates a method for providing bandwidth sensitive data compression. *Id.* at 13:25–27. The data compression system is initialized during a boot-up process after a computer is powered on and a default compression/decompression routine is initiated (step 20). *Id.* at 13:31–34. According to the '477 patent, the default algorithm comprises an asymmetrical algorithm, because asymmetric algorithms provide "a high compression ratio (to effectively increase the storage capacity of the hard disk) and fast data access (to effectively increase the retrieval rate from the hard disk)." *Id.* at 13:35–45. According to the '477 patent, depending on the access profile, it "is preferable to utilize an asymmetrical algorithm that provides a slow compression routine and a fast decompression routine so as to provide an increase in the overall system performance as compared to performance that would be obtained using a symmetrical algorithm." *Id.* at 12:23–28. The '477 patent notes that symmetric routines "compris[e] a fast compression routine." *Id.* at 14:40–43. In one embodiment, the '477 patent discloses a controller "tracks and monitors the throughput . . . of the data compression system 12." *Id.* at 10:54–57. When the throughput of the system falls below a predetermined threshold, the system generates control signals to enable/disable different compression algorithms. *Id.* at 10:55–58.

D. Illustrative Claims

As noted above, Petitioner challenges claims 1–6, 9–14, 20–22, and 25–27 with claims 1 and 20 being independent. Independent claims 1 and 22 are illustrative of the challenged claims, and are reproduced below:

> 1. A system, comprising:
> a plurality of different asymmetric data compression encoders,
> wherein each asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to utilize one or more data compression algorithms, and
> wherein a first asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to compress data blocks containing video or image data at a higher data compression rate than a second asymmetric data compression encoder of the plurality of different asymmetric data compression encoders; and
> one or more processors configured to:
> determine one or more data parameters, at least one of the determined one or more data parameters relating to a throughput of a communications channel measured in bits per second; and
> select one or more asymmetric data compression encoders from among the plurality of different asymmetric data compression encoders based upon, at least in part, the determined one or more data parameters.

Ex. 1001, 20:57–21:13.

> 20. A system, comprising:
> a plurality of video data compression encoders;
> wherein at least one of the plurality of video data compression encoders is configured to utilize an asymmetric data compression algorithm, and
> wherein at least one of the plurality of video data compression encoders is configured to utilize an arithmetic data compression algorithm,
> wherein a first video data compression encoder of the plurality of video data compression encoders is configured to

compress at a higher compression ratio than a second data compression encoder of the plurality of data compression encoders; and

one or more processors configured to:

determine one or more data parameters, at least one of the determined one or more data parameters relating to a throughput of a communications channel; and

select one or more video data compression encoders from among the plurality of video data compression encoders based upon, at least in part, the determined one or more data parameters.

Id. at 22:20–42.

E. The Alleged Grounds of Unpatentability and Evidence of Record

The information presented in the Petition sets forth proposed grounds of unpatentability of claims 1–6, 9–14, 20–22, and 25–27 of the '477 patent under 35 U.S.C. § 103 as follows (*see* Pet. 3):[2]

Reference(s)	**Basis**	**Challenged Claims**
Imai[3]	§ 103	1, 3–5, 12–14
Pauls	§ 103	1, 3–6, 9–14
Imai and Pauls[4]	§ 103	1, 3–6, 9–14

[2] Petitioner supports its challenge with the Declaration of James A. Storer, Ph.D. ("Dr. Storer"). Ex. 1003.

[3] Japanese Patent Application Publication No. H11331305, published Nov. 30, 1999 (Ex. 1005, "Imai").

[4] European Patent Application Publication No. EP0905939A2, published Mar. 31, 1999 (Ex. 1007, "Pauls").

Reference(s)	Basis	Challenged Claims
Imai, Pauls, and Chao[5]	§ 103	2, 11, 20–22, 25–27

II. DISCUSSION

A. Claim Construction

In an *inter partes* review, we currently construe claim terms in an unexpired patent according to their broadest reasonable construction in light of the specification of the patent in which they appear.[6] 37 C.F.R. § 42.100(b); *Cuozzo Speed Techs. LLC v. Lee*, 136 S. Ct. 2131, 2144–46 (2016) (upholding the use of the broadest reasonable interpretation standard in an *inter partes* review). Claim terms generally are given their ordinary and customary meaning, as would be understood by one of ordinary skill in the art in the context of the entire disclosure. *In re Translogic Tech., Inc.*, 504 F.3d 1249, 1257 (Fed. Cir. 2007). To rebut this presumption by acting as a lexicographer, the patentee must give the term a particular meaning in the specification with "reasonable clarity, deliberateness, and precision." *In re Paulsen*, 30 F.3d 1475, 1480 (Fed. Cir. 1994). Limitations, however, are not

[5] International PCT Patent Application Publication No. WO 98/40842, published Sept. 17, 1998 (Ex. 1016, "Chao").

[6] The revised claim construction standard for interpreting claims in *inter partes* review proceedings as set forth in the final rule published October 11, 2018 does not apply to this proceeding because the new "rule is effective on November 13, 2018 and applies to all IPR, PGR and CBM petitions filed on or after the effective date." Changes to the Claim Construction Standard for Interpreting Claims in Trial Proceedings before the Patent Trial and Appeal Board, 83 Fed. Reg. 51340 (Oct. 11, 2018) (to be codified at 37 C.F.R. pt. 42).

to be read from the specification into the claims. *In re Van Geuns*, 988 F.2d 1181, 1184 (Fed. Cir. 1993). In addition, the Board may not "construe claims during [an *inter partes* review] so broadly that its constructions are *unreasonable* under general claim construction principles." *Microsoft Corp. v. Proxyconn, Inc.*, 789 F.3d 1292, 1298 (Fed. Cir. 2015). Only terms that are in controversy need to be construed, and then only to the extent necessary to resolve the controversy. *See Wellman, Inc. v. Eastman Chem. Co.*, 642 F.3d 1355, 1361 (Fed. Cir. 2011); *Vivid Techs., Inc. v. Am. Sci. & Eng'g, Inc.*, 200 F.3d 795, 803 (Fed. Cir. 1999).

Petitioner proposes to construe "asymmetric data compression encoders" as "an encoder(s) configured to utilize a compression algorithm in which the execution time for the compression and decompression routines differ significantly." Pet. 7. Petitioner further proposes to construe "data block" as "a unit of data comprising more than one bit." *Id.* at 8. Patent Owner has not provided proposed constructions for either term, and states that the terms do not require construction in order to resolved the parties' dispute. Prelim. Resp. 6.

We agree with Patent Owner and determine that an explicit construction of the claims is not necessary for the purposes of determining whether there is a reasonable likelihood that the Petitioner would prevail with respect to at least one of the claims challenged in the Petition. This determination does not preclude the parties from arguing proposed constructions of the claims during trial. A final determination as to claim construction will be made at the close of the proceeding, after any hearing, based on all the evidence of record. The parties are expected to assert all their claim construction arguments and evidence in the Petition, Patent

Owner's Response, Petitioner's Reply, or otherwise during trial, as permitted by our rules.

B. Principles of Law

A claim is unpatentable under 35 U.S.C. § 103(a) if "the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains." *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 398, 406 (2007). The question of obviousness is resolved on the basis of underlying factual determinations, including: (1) the scope and content of the prior art; (2) any differences between the claimed subject matter and the prior art; (3) the level of skill in the art; and (4) objective evidence of nonobviousness, i.e., secondary considerations. *See Graham v. John Deere Co. of Kansas City*, 383 U.S. 1, 17–18 (1966).

"In an [*inter partes* review], the petitioner has the burden from the onset to show with particularity why the patent it challenges is unpatentable." *Harmonic Inc. v. Avid Tech., Inc.*, 815 F.3d 1356, 1363 (Fed. Cir. 2016) (citing 35 U.S.C. § 312(a)(3) (requiring *inter partes* review petitions to identify "with particularity . . . the evidence that supports the grounds for the challenge to each claim")). This burden of persuasion never shifts to Patent Owner. *See Dynamic Drinkware, LLC v. Nat'l Graphics, Inc.*, 800 F.3d 1375, 1378 (Fed. Cir. 2015) (discussing the burden of proof in *inter partes* review). Furthermore, Petitioner cannot satisfy its burden of proving obviousness by employing "mere conclusory statements." *In re Magnum Oil Tools Int'l, Ltd.*, 829 F.3d 1364, 1380 (Fed. Cir. 2016).

Thus, to prevail in an *inter partes* review, Petitioner must explain how the proposed combinations of prior art would have rendered the challenged claims unpatentable. At this preliminary stage, we determine whether the information presented in the Petition shows there is a reasonable likelihood that Petitioner would prevail in establishing that one of the challenged claims is unpatentable. Additionally, the Supreme Court held that a decision to institute under 35 U.S.C. § 314(b) may not institute review on less than all claims challenged in the petition. *SAS Inst., Inc. v. Iancu*, 138 S. Ct. 1348, 1355–56 (2018). Moreover, in accordance with USPTO Guidance, "if the PTAB institutes a trial, the PTAB will institute on all challenges raised in the petition." *See Guidance on the Impact of SAS on AIA Trial Proceedings* (April 26, 2018) (available at https://www.uspto.gov/patents-application-process/patent-trial-and-appeal-board/trials/guidance-impact-sas-aia-trial) ("USPTO Guidance").

C. Level of Ordinary Skill in the Art

In determining whether an invention would have been obvious at the time it was made, we consider the level of ordinary skill in the pertinent art at the time of the invention. *Graham*, 383 U.S. at 17. "The importance of resolving the level of ordinary skill in the art lies in the necessity of maintaining objectivity in the obviousness inquiry." *Ryko Mfg. Co. v. Nu-Star, Inc.*, 950 F.2d 714, 718 (Fed. Cir. 1991).

Petitioner argues that a person of ordinary skill in the art relevant to the '477 patent would have had "a bachelor's degree in electrical engineering, computer science, or a similar field with at least two years of experience in data compression or a person with a master's degree in electrical engineering, computer science, or a similar field with a specialization in data

compression." Pet. 6. Petitioner relies on the Declaration of Dr. Storer to support its contentions. Dr. Storer proffers the same level of skill as that argued by Petitioner but also states that "[a] person with less education but more relevant practical experience may also meet this standard." Ex. 1003 ¶ 65.

At this stage of the proceeding, Patent Owner does not contest Petitioner's definition of a person of ordinary skill in the art. *See generally* Prelim. Resp.

Based on our review of the '477 patent, the types of problems and solutions described in the '477 patent and cited prior art, and the testimony of Dr. Storer, for purposes of this Decision we adopt and apply Petitioner's definition of a person of ordinary skill in the art. Specifically, we find that a person of ordinary skill in the art at the time of the claimed invention would have had "a bachelor's degree in electrical engineering, computer science, or a similar field with at least two years of experience in data compression" or that such a person would have "a master's degree in electrical engineering, computer science, or a similar field with a specialization in data compression." Pet. 6.

D. Alleged Obviousness of Claims 1, 3–5, and 12–14 of the '477 Patent in View of Imai

Petitioner contends claims 1, 3–5, and 12–14 of the '477 patent are unpatentable under 35 U.S.C. § 103 as obvious in view of Imai. Pet. 15–35. Patent Owner disputes Petitioner's contentions. Prelim. Resp. 6–25. For reasons that follow, we determine Petitioner has demonstrated a reasonable likelihood of demonstrating that the challenged claims would have been obvious under 35 U.S.C. § 103 in view of Imai.

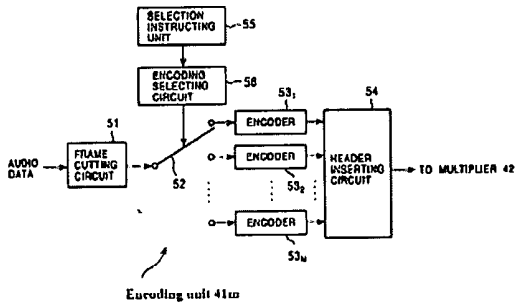
1. Overview of Imai (Ex. 1005)

Imai is a Japanese Patent Application[7] titled "Transmitting apparatus and transmitting method, receiving apparatus and receiving method, as well as providing medium." Ex. 1005, Title. Imai is related to encoding and transmitting digital signals to the receiving side where they are decoded and reproduced in real time. Ex. 1005 ¶ 1. According to Imai, real time encoding, transmitting, and decoding can present several problems though. *Id.* ¶¶ 3–5. For example, the transmission rate of the network can vary and drop below the data rate of the coded data which leads to the encoded digital signals arriving too late. *Id.* ¶ 3. The hardware capabilities or decoding method of the receiving device can also slow down real time decoding of the received signals. *Id.* ¶ 4. To address these problems, Imai includes a plurality of coding methods and selects the appropriate coding method to encode the digital signals, or part of the digital signals, based on certain relevant factors. *Id.* ¶ 7. The digital signals Imai is particularly concerned with are audio signals, and the plurality of coding methods can include PCM, ADPCM, layers 1, 2, 3, of MPEG, ATRAC, ATRAC2, and HVXC. *Id.* ¶ 67. The factors that can affect which coding method is used include the processing capability of the receiving device (*see id.* at Fig. 9, ¶¶ 88–99), transmission rate of the network (*see id.* ¶¶ 145–166), and the audio content of the audio signals (*see id.* ¶¶ 101–102). For example, Imai describes a situation where the audio signal is predominantly voice, in which case HVXC

[7] The original application is in Japanese and provided in the record as Exhibit 1004. A certified English language translation of Imai is provided in the record as Exhibit 1005. All citations to Imai in the Petition, Preliminary Response, and this Decision are made to Exhibit 1005.

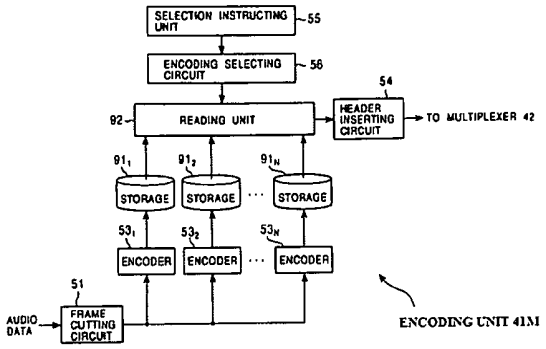
may be appropriately used as the coding method. *Id.* ¶ 102. On the other hand, if the audio signal is predominantly instrument sounds, then ATRAC may be appropriately used as the coding method. *Id.*

One embodiment of a coding unit in Imai is illustrated in Figure 5, reproduced below.



As shown above in Figure 5, audio signals are encoded using a chosen encoder 53_1-53_N. *Id.* ¶ 66, Fig. 5. According to Imai, the encoders are constructed to encode the audio signal with different coding methods from each other. *Id.* ¶ 67. Selection instructing unit 55 then decides the appropriate coding methods corresponding to encoders 53_1 to 53_N, and instructs encoding selecting circuit 56 to select the decided coding method. *Id.* ¶ 70. Imai discloses that switch 52 may be changed midway through a sequence of continued encoding of the audio signal, so one portion audio signal is encoded with one coding method while another part of the audio signal is encoded with another coding method. *Id.* ¶ 72. Imai further discloses that header inserting circuit 54 adds, to the coded data of each frame, an ID indicating the coding method selected to encode the frame. *Id.* The coded data added with the ID in header inserting circuit 54 is supplied to multiplexing unit 42 and transmitted to a client. *Id.* ¶ 74.

Another embodiment of a coding unit in Imai is illustrated in Figure 16, reproduced below. *See, e.g., id.* ¶¶ 165–171



As shown above in Figure 16, the audio signal is encoded into coded date by encoders 53_1–53_N and store in storage 91_1–91_N. *Id.* ¶ 167. According to Imai, when a request for an audio signal is issued from client terminal 3, encoding selecting circuit 56 controls read-out unit 92 in accordance with an instruction based on the encoding schedule provided from selection instructing unit 55. *Id.* ¶ 169.

2. *Analysis of Cited Art as Applied to Independent Claim 1*

a. *"a plurality of different asymmetric data compression encoders, wherein each asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to utilize one or more data compression algorithms"*

Independent claim 1 recites "a plurality of different asymmetric data compression encoders, wherein each asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to utilize one or more data compression algorithms. . . ." Ex. 1001, 20:58–63.

Petitioner contends Imai teaches this limitation, because Imai discloses "a plurality of coding methods corresponding to the encoders 53_1 to 53_N" and "[the] encoders 53_1 to 53_N employ 'different coding methods from each other' and are thus different encoders." Pet. 16 (citing Ex. 1005 ¶ 67; Ex. 1003 ¶ 113). According to Petitioner, "Imai's encoders comprise a

plurality of different ***asymmetric*** data compression encoders that utilize data compression algorithms" because the cited "MPEG layers 1, 2, and 3, and the ATRAC and ATRAC 2 compression algorithms are each different asymmetric data compression algorithms that are each used by Imai's encoders." *Id.* at 17 (citing Ex. 1005 ¶¶ 67, 70; Ex. 1003 ¶¶ 117–118).

Petitioner further contends that Imai's teaching is equally applicable to video. *Id.* at 19 (citing Ex. 1005 ¶ 172). According to Petitioner, a person of ordinary skill in the art would have known to use Imai's teachings for video data because video is an "asymmetric application" that realizes the same benefits from compression with asymmetric encoders and algorithms as other media, such as audio. *Id.* at 19 (citing Ex. 1003 ¶¶ 122–123; Ex. 1012, 5). Petitioner notes that asymmetric application for compression/decompression was known in the art because the MPEG family of audio compression algorithms, discussed in Imai, uses a slow, complex algorithm for compression and a simpler algorithm for decompression. *Id.* (citing Ex. 1003 ¶ 120; Ex. 1009, 81; Ex. 1010, 7).

Patent Owner does not address specifically this limitation of independent claim 1, but nonetheless the burden remains on Petitioner to demonstrate unpatentability. *See Dynamic Drinkware*, 800 F.3d at 1378.

At this stage of the proceeding and based on the record before us, we are persuaded Petitioner has shown adequately for purposes of institution that Imai's disclosure of "a plurality of coding methods corresponding to the encoders 53_1 to 53_N" where encoders 531 to 53_N use "different coding methods from each other" satisfies the challenged claim limitation.

b. "first asymmetric data compression encoder" "configured to compress data blocks containing video or image data at a higher data compression rate than" a "second asymmetric data compression encoder"

Claim 1 recites "wherein a first asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to compress data blocks containing video or image data at a higher data compression rate than a second asymmetric data compression encoder of the plurality of different asymmetric data compression encoders." Ex. 1001, 20:64–21:3.

Petitioner contends Imai renders this limitation obvious because Imai teaches using a plurality of asymmetric data compression encoders 53_1 to 53_N. Pet. 20. Petitioner argues that a person of ordinary skill in the art would have found it obvious that "a first encoder of a plurality of asymmetric data compression encoders in Imai would compress data blocks at a higher data compression rate than a second encoder for several reasons." *Id.* Petitioner notes that the '477 patent uses the term "data compression rate" to refer to the execution or algorithmic speed of a compression encoder. *Id.* at 20–21 (citing Ex. 1001, 2:63–67, 8:10–18, 14:11–38; Ex. 1003 ¶ 124). Based on the disclosure of the '477 patent, Petitioner then argues that Imai meets the claim limitation because it includes asymmetric compression encoders that have different execution speeds, and compares and contrasts different asymmetric data compression encoders in terms of their "compression rate," and identifies several asymmetric data compression algorithms that "provide[] a high *compression rate*," referring to MPEG layer 3 and ATRAC 2 as "example[s]." *Id.* at 21 (citing Ex. 1005 ¶ 68; Ex. 1003 ¶ 138–139).

Petitioner further argues that Imai teaches a first encoder using an asymmetric compression algorithm (MPEG layer 3) configured to compress data at a higher compression rate than a second encoder using another asymmetric algorithm (ATRAC 2). Pet. 22 (citing Ex. 1005 ¶¶ 67–69). Petitioner notes that "Imai explains that ATRAC 2 can encode at various compression rates (*e.g.*, "64 Kbps, 32K bps, 24 Kbps")." *Id.* (citing Ex. 1005 ¶ 69; Ex. 1003 ¶¶ 139, 142). According to Petitioner, a person of ordinary skill in the art "would have appreciated from Imai's various teachings that the different asymmetric data compression encoders have different data compression rates, with some encoders having higher rates than others." *Id.* (citing Ex. 1003 ¶¶ 138–139). And Petitioner asserts a person of ordinary skill in the art "would have also found it obvious to select among different encoders having higher and lower data compression rates to better match the incoming data stream to the throughput of the communication channel. *Id.* at 22 (citing Ex. 1003 ¶ 143).

Petitioner then argues that although Imai's examples are directed to audio data, "it would have been obvious to perform the step using data blocks containing video:" because Imai discloses that "the present invention is also applicable to other signals, such as *video signals*, other types of time-series signals, and signals being not in time series." *Id.* at 24 (citing Ex. 1005 ¶ 172; Ex. 1003 ¶ 146).

Patent Owner contends Petitioner fails to specific which encoder of Imai is the "first encoder" and which one is the "second encoder" as required by the claim so Petitioner's challenge is inadequate. Prelim. Resp. 9–10. Patent Owner further contends Petitioner fails to explain how Imai teaches a "first asymmetric data compression encoder" *configured* to compress data "at

a higher data compression rate" than the "second asymmetric data compression encoder." *Id.* at 11–21. According to Patent Owner, the term "configured to" means that the "first encoder" must, by design, compress at a higher rate than the "second encoder." *Id.* at 12 (citing *Aspex Eyewear, Inc. v. Marchon Eyewear, Inc.*, 672 F.3d 1335, 1349 (Fed. Cir. 2012) (construing "adapted to" in the narrower sense of "configured to," "made to," or "designed to," rather than in the "broader sense" of "capable of" or "suitable for."). Patent Owner then argues that the "configured to" limitation cannot be met by an accidental difference in compression rates because the invention relies on the *predictable* relationship between the compression rates of two encoders and the invention would not function if the relationship was reversed. *Id.* at 14. Patent Owner cites to the '477 patent to support its position, because the specification describes switching from an encoder having a relatively slow compression rate to one having a "faster rate of compression" when the "throughput falls below a predetermined threshold" "so as to increase the throughput." *Id.* (citing Ex. 1001, 8:12–18). Patent Owner argues that "[i]f the arrangement or configuration of the encoders were reversed, the opposite would occur: the system would switch from the relatively fast encoder to the relatively slow encoder, *reducing* the throughput and *exacerbating* the bottleneck it was seeking to alleviate." *Id.* Patent Owner concludes that the mere possibility that Imai may have encoders with different compression rates fails to meet the required "configured to" limitation. *Id.* at 17–18.

Patent Owner further contends that the Petition fails to show Imai teaches compression rates (i.e., speed of compression measured by input data compressed per unit of time). Prelim. Resp. 18–19. According to Patent

Owner, the cited teachings do not pertain to the encoders' "compression rate" and fails to show the use of encoders with varying compression rates. *Id.* at 20–21. Patent Owner further asserts that the Petition points to no evidence of Imai teaching lowering the output rate by modifying the speed of compression, as Claim 1 requires or offering any reason why a person of ordinary skill in the art would solve the problem of a slow network by varying the compression rate as opposed to the compression ratio. *Id.* at 22. Patent Owner argues that the Petition's suggested approach of modifying the speed of compression would be ineffectual at best and counterproductive at worst in view of Imai's solution of increasing the degree of compression. *Id.* at 23.

At this stage of the proceeding, we are not persuaded by Patent Owner's arguments because Petitioner has identified Imai's teachings regarding encoders 53_1 to 53_N that are specifically "constructed" to encode a signal use "different coding methods from each other." *See* Pet. 20–22; Ex. 1005 ¶ 67. We are satisfied by the Petition's citations to these encoders and Imai's teachings regarding the function of encoders 53_1 to 53_N that would render one of them a "first encoder" and another one a "second encoder" are required by the claim. *See* Ex. 1005 ¶¶ 67–69. Imai specifically discloses that the encoders are constructed to encode the audio signal with different coding methods from each other, thus, the different rates of encoding would not be happenstance. *Id.* ¶ 67. Imai then discloses a plurality of coding methods with different compression speeds, such as PCM, ADPCM, layers 1, 2, 3, of MPEG, ATRAC, ATRAC2, and HVXC. *Id.* Imai also teaches that selection instructing unit 55 decides the appropriate coding methods corresponding to encoders 53_1 to 53_N, and instructs encoding selecting circuit

56 to select the decided coding method. *Id.* ¶ 70. We also find Petitioner's rationale for selecting different encoders in Imai with higher and lower data compression rates to better match the transmission rate of the communication channel (*see* Pet. 22) to be adequate for institution. Accordingly, at this stage of the proceeding and based on the record before us, we are satisfied Petitioner has shown adequately that Imai teaches a "first encoder" that is "configured to" compress data "at a higher data compression rate" than the "second asymmetric data compression encoder." *See* Ex. 1003 ¶¶ 124–147.

Thus, we are satisfied for purposes of institution that Imai teaches "wherein a first asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to compress data blocks containing video or image data at a higher data compression rate than a second asymmetric data compression encoder of the plurality of different asymmetric data compression encoders" as required by challenged claim 1.

c. "one or more processors configured to"

Claim 1 recites "one or more processors configured to . . . ." Ex. 1001, 21:4. Petitioner contends this limitation is met by Imai because Imai teaches that its "CPU 12 decides which one of the coding methods executed in the encoders 531 to 53n is used." Pet. 25 (citing Ex. 1005 ¶ 100). According to Petitioner, a person of ordinary skill in the art "would have understood that Imai's CPU is a controller that is configured to execute the compression and transmission functions of the server." *Id.* (citing Ex. 1003 ¶ 148).

Patent Owner does not address specifically this limitation of independent claim 1, but nonetheless the burden remains on Petitioner to demonstrate unpatentability. *See Dynamic Drinkware*, 800 F.3d at 1378.

At this stage of the proceeding and based on the record before us, we are persuaded Petitioner has shown adequately for purposes of institution that Imai's disclosure of "CPU 12" where CPU 12 "decides which one of the coding methods executed in the encoders 53_1 to 53_n is used" satisfies the challenged claim limitation. *See* Ex. 1005 ¶ 100, Fig. 2.

d. "determine one or more data parameters, at least one of the determined one or more data parameters relating to a throughput of a communications channel measured in bits per second"

Claim 1 recites "determine one or more data parameters, at least one of the determined one or more data parameters relating to a throughput of a communications channel measured in bits per second." Ex. 1001, 21:5–8. Petitioner contends this limitation is met by Imai because Imai selects a coding method that impact the transmission rate of the communication channel used to transmit the coded data from server to client, which varies due to the amount of traffic being sent across the channel and impacts the ability of the client to reproduce the transmitted signals in real-time. Pet. 26 (citing Ex. 1005 ¶¶ 145, 146, 149; Ex. 1003 ¶¶ 150–152). Petitioner argues that the "transmission rate" of the network in Imai is a measure of a throughput of a communication channel. *Id.* (citing Ex. 1003 ¶ 152). Thus, according to Petitioner, the determined transmission rate of the network is a data parameter relating to a throughput of the communication channel or network, and Imai measures this determined data parameter in bits per second. *Id.* at 26–27 (citing Ex. 1003 ¶¶ 151–153).

Patent Owner does not address specifically this limitation of independent claim 1, but nonetheless the burden remains on Petitioner to demonstrate unpatentability. *See Dynamic Drinkware*, 800 F.3d at 1378.

At this stage of the proceeding and based on the record before us, we are persuaded Petitioner has shown adequately for purposes of institution that the "determined transmission rate of the network" is a data parameter relating to a throughput of the communication channel or network and Imai's measuring of this determined data parameter in bits per second satisfies the challenged claim limitation. *See* Ex. 1005 ¶¶ 145, 146, 149.

> e. *"select one or more asymmetric data compression encoders from among the plurality of different asymmetric data compression encoders based upon, at least in part, the determined one or more data parameters"*

Claim 1 recites "select one or more asymmetric data compression encoders from among the plurality of different asymmetric data compression encoders based upon, at least in part, the determined one or more data parameters." Ex. 1001, 21:9–13.

Petitioner contends this limitation is met by Imai because Imai teaches selection instructing unit 55 that selects an appropriate "one from a plurality of coding methods corresponding to the encoders 53_1 to 53_N . . . and then instructs the encoding selecting circuit 56 to select the decided coding method." Pet. 27 (citing Ex. 1005 ¶ 70). According to Petitioner, Imai selects a specific encoder from the plurality of encoders based on the transmission rate of the communication channel used to transmit coded data. *Id.* at 27–28 (citing Ex. 1005 ¶¶ 146, 152, 154–160; Ex. 1003 ¶ 154).

Patent Owner does not address specifically this limitation of independent claim 1, but nonetheless the burden remains on Petitioner to demonstrate unpatentability. *See Dynamic Drinkware*, 800 F.3d at 1378.

At this stage of the proceeding and based on the record before us, we are persuaded Petitioner has shown adequately for purposes of institution that

the Imai's selection instruction unit 55 selects an appropriate encoder based on a data parameter, which is the transmission rate of the communication channel, and thereby satisfies the challenged claim limitation. *See* Ex. 1005 ¶¶ 146, 152, 154–160. Accordingly, we conclude Petitioner has established a reasonable likelihood it would prevail in showing that challenged independent claim 1 would have been obvious under 35 U.S.C. § 103 in view of Imai.

3. Analysis of Cited Art as Applied to Dependent Claims 3–5 and 12–14

Petitioner contends dependent claims 3–5 and 12–14 of the '477 patent are unpatentable under 35 U.S.C. § 103 as obvious in view of by Imai and provides specific arguments for each challenged claim. Pet. 28–35 (citing Ex. 1003 ¶¶ 155–165). Patent Owner does not address the additional limitations of dependent claims 3–5 and 12–14, but the burden remains on Petitioner to demonstrate unpatentability. *See Dynamic Drinkware*, 800 F.3d at 1378.

We have considered carefully all arguments and supporting evidence in light of the limitations recited in challenged dependent claims 3–5 and 12–14. At this stage of the proceeding, we are persuaded that Petitioner's analysis as supported by Dr. Storer's testimony is sufficient for institution regarding the specific limitations recited in these claims. Accordingly, we conclude Petitioner has established a reasonable likelihood it would prevail in showing that challenged dependent claims 3–5 and 12–14 would have been obvious under 35 U.S.C. § 103 in view of Imai.

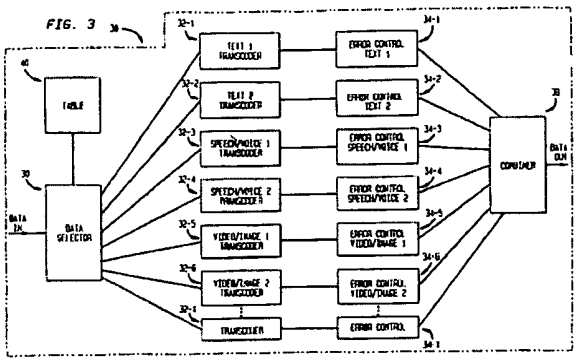
E. Alleged Obviousness of Claims 1, 3–6, and 9–14 of the '477 Patent in View of Pauls

Petitioner contends claims 1, 3–6, and 9–14 of the '477 patent are unpatentable under 35 U.S.C. § 103(a) in view of Pauls. Pet. 46–52. Patent Owner disputes Petitioner's contentions. Prelim. Resp. 27–34. For reasons that follow, we determine Petitioner has demonstrated a reasonable likelihood of prevailing as to the challenged claims.

1. Overview of Pauls (Ex. 1007)

Pauls is a European Patent Application Publication titled "Adaptive communication data formatting," and directed to improving data transfer performance over data networks using adaptive communication formatting. Ex. 1007, Title (54), Abstract (57). Pauls discloses that adaptive communication formatting includes encoding (or compressing) data and applying error control schemes to reduce the amount of data being transmitted and to correct/conceal errors occurring during data transmission. *Id.* at Abstract (57). Pauls further discloses that data is formatted using a mixture of transcoding techniques and error control schemes. *Id.* ¶ 9. Pauls provides a list of different encoding algorithms that can be used. *Id.* ¶ 10. Pauls teaches that the particular transcoding techniques used to format the data should be adaptive to factors, such as the nature of the new, the preferences of the users, and the data type. *Id.* ¶ 12.

One embodiment of Pauls's system is illustrated in Figure 3, reproduced below.



Pauls's access server 20 includes data selector 30, a plurality of text/speech/voice/video/image transcoding techniques 32-n, a plurality of error control schemes 34-n, and combiner 38 for multiplexing formatted data. *Id.* ¶¶ 19, 20.

Examples of transcoding techniques and error control schemes used in Pauls are listed in Figure 5, reproduced below.

FIG. 5

DATA TYPE	SUB-TYPES (BIT RATE)	TRANSCODER ENCODING ALGORITHMS (BIT RATE)	ADAPTATION LAYERS
SPEECH/VOICE	AUDIO (256 Kbps) WAVE (64 Kbps) SPEECH (32 Kbps)	VCELP (8Kbps) VSELP (8Kbps) EDAU (4-8 Kbps)	HYBRID ARQ ERROR CONCEALMENT (MUTING)
VIDEO/IMAGE	TIFF GIFF MPEG (1.5Mbps) MPEG2 (2.0 Mbps)	H.263 (8-24 Kbps)	HYBRID ARQ ERROR CONCEALMENT (INTERPOLATION)
TEXT	ASCII MSWORD	GZIP PKZIP	ARQ

Figure 5 illustrates chart 50, which shows data sub-types and their associated bit rates, encoding algorithms and the bit rate of the data after encoding (or compression), and error control schemes. Ex. 1007 ¶ 24. Pauls teaches that data with an audio sub-type has a 256 Kbps bit rate. *Id.* According to Figure 5 of Pauls, "[i]f a transcoding technique with a VCELP encoding algorithm is used to encode the audio data, the bit rate can be reduced to 8 Kbps." *Id.*

2. Analysis of Cited Art as Applied to Independent Claim 1

Claim 1 recites "wherein a first asymmetric data compression encoder of the plurality of different asymmetric data compression encoders is configured to compress data blocks containing video or image data at a higher data compression rate than a second asymmetric data compression encoder of the plurality of different asymmetric data compression encoders." Ex. 1001, 20:64–21:3.

Petitioner contends Pauls renders this limitation obvious because Pauls teaches a plurality of encoders 32-n that use different encoding algorithms depending on the type of data to be encoded and Pauls teaches compressing data blocks containing video or image data. Pet. 36–37, 38. Petitioner argues that Pauls teaches using a first asymmetric data compression encoder and a second asymmetric data compression encoder where there the encoders compress video and image data at higher and lower data compression rates. *Id.* at 39. According to Petitioner, Pauls identifies several asymmetric data compression algorithms and a person of ordinary skill in the art would have appreciated that each algorithm would have different relative rates of compression. *Id.* Accordingly, Petitioner concludes that Pauls must teach the limitation because "it is only a remote possibility that any two different asymmetric data compression encoders would have the same execution speed." *Id.* at 40 (citing Ex. 1003 ¶¶ 176–178).

Petitioner relies on the testimony of Dr. Storer to support its position. Dr. Storer testifies that "H.263, MPEG, and MPEG2 are asymmetric data compression algorithms identified by Pauls." Ex. 1003 ¶ 175. Dr. Storer cites to Pauls's Figure 5 for teaching that "H.263 renders video at a bit rate of 8-24 Kbps, MPEG renders video at a bit rate of 1.5 Mbps, and MPEG2

renders video at a bit rate of 2.0 Mbps. *Id.* ¶ 176 (citing Ex. 1007, Fig. 5). According to Dr. Storer, a person of ordinary skill in the art "would have appreciated that each of these well-known and widely used video compression standards have different relative rates of compression, with MPEG having the lowest compression ratio and MPEG2 and H.263 having relatively higher compression ratios. *Id.* (citing Ex. 1019, 7–9 (comparing average compression ratios for MPEG, MPEG2, and H.263)). Dr. Storer testifies that "an encoder implementing any one of these compression algorithms would have a different execution speed from another encoder that implements a different one of the compression algorithms, and therefore at least one encoder would perform at a higher data compression rate." *Id.* ¶ 177.

Patent Owner contest Petitioner's position arguing that Pauls fails to teach (1) "compression rates" as defined by Petitioner or (2) encoders that are "configured to compress data blocks containing video or image data at a higher data compression rate than a second asymmetric data compression encoder." Prelim. Resp. 26–38. According to Patent Owner, the Petition only points to Pauls's disclosures regarding compression rations not rates. *Id.* at 26–27. Patent Owner also takes issues with the Petitioner reliance on encoders that just happen to have different speeds but fail to demonstrate a deliberate configuration that requires different encoders have different compression speeds. *Id.* at 28.

At this stage of proceeding, based on the teachings of Pauls and the testimony of Dr. Storer, we are satisfied Petitioner's analysis is adequate for purposes of institution. Specifically, we credit Dr. Storer's testimony regarding the compression rates of the asymmetric algorithms of MPEG,

MPEG2, and H.263 and the impact of such rates. *See* Ex. 1003 ¶¶ 175–178. Pauls does not explicitly require that the encoder use different encoding methods or different encoding rates, but it does disclose that "[e]ach of the aforementioned encoding algorithms have associated different levels or percentages of compression." Ex. 1007 ¶ 10. Although we agree with Patent Owner that Petitioner provides minimal explanation as to how or why the bit rate would be different for different encoders that compress video/image data in the same format (e.g., both data sets are MPEG), we credit the testimony of Dr. Storer that a person of ordinary skill in the art at the time of the invention would have understood that two different encoders (e.g., encoders that implement different compression algorithms) would have a different execution/algorithmic speed. Accordingly, based on the record before us currently, we determine Petitioner has met its burden to establish a reasonable likelihood it would prevail in showing that challenged independent claim 1 would have been obvious under 35 U.S.C. § 103 in view of Pauls.

3. Analysis of Cited Art as Applied to Dependent Claims 3–6 and 9–14

Petitioner contends dependent 3–6 and 9–14 of the '477 patent are unpatentable under 35 U.S.C. § 103 as obvious in view of Pauls. Pet. 43–51 (citing Ex. 1003 ¶¶ 186–204). Patent Owner does not address the additional limitations of dependent claims 3–6 and 9–14, but the burden remains on Petitioner to demonstrate unpatentability. *See Dynamic Drinkware*, 800 F.3d at 1378.

We have considered carefully all arguments and supporting evidence in light of the limitations recited in challenged dependent claims 3–6 and 9–14. For the reasons given with regard to independent claim 1, we are

persuaded that Petitioner's arguments and analysis are sufficient for institution. Accordingly, we conclude Petitioner has established a reasonable likelihood it would prevail in showing that challenged dependent claims 3–6 and 9–14 are obvious under 35 U.S.C. § 103 in view of Pauls.

F. Alleged Obviousness of Claims 1, 3–6, and 9–14 of the '477 Patent in View of Imai and Pauls

Petitioner contends claims 1, 3–6, and 9–14 of the '477 patent are unpatentable under 35 U.S.C. § 103(a) in view of Imai and Pauls. Pet. 52–59. Patent Owner disputes Petitioner's contentions. Prelim. Resp. 29–42. For reasons that follow, we determine Petitioner has demonstrated a reasonable likelihood of prevailing as to the challenged claims.

1. Prior Art Overview

a. Overview of Imai (Ex. 1005)

See supra Section II.D.1.

b. Overview of Pauls (Ex. 1007)

See supra Section II.E.1.

2. Analysis of the Prior Art as Applied to Independent Claim 1

Petitioner provides the combination of Imai with Pauls in the event that the Board does not find Imai adequately teaches video compression, which is taught expressly by Pauls. Pet. 52. Petitioner purportedly maps each claim limitation to the cited references. *Id.* at 54–59. Patent Owner contests Petitioner's position argues that the combined reference fail to remedy the shortcomings of the individual references. Prelim. Resp. 37–39. For the reasons provided above with the regards to Imai and Pauls individually, we are satisfied Petitioner has provided adequate analysis and evidence for purposes of institution.

3. Rationale to Combine Imai and Pauls

Petitioner contends a person of ordinary skill in the art would have many motivations to combine Imai and Pauls, because both references (1) are used for the same purpose: encoding data at a server for transmission to a client over a distributed network such as the Internet, (2) teach encoding data using asymmetric encoding methods, (3) choose an encoding method based upon the type of data being transmitted, (4) choose an encoding method based upon a throughout of the communications channel connecting the client, and (5) implement their inventions on known computer systems. *Id.* According to Petitioner, although most of Imai is directed to audio signal, it mentions the applicability to video signals, so a person of ordinary skill in the art would have look to other references directed to video encoding techniques such as those taught by Pauls. *Id.* at 52–53.

Petitioner argues that a person of ordinary skill in the art would have been motivated to combine the systems of Imai and Pauls to utilize the numerous video and image data compression encoders of Pauls to enable video compression in Imai's system. *Id.* at 53 (citing Ex. 1003 ¶¶ 211–214). Petitioner relies on the testimony of Dr. Storer to support its position. Specifically, Dr. Storer testifies that "Imai and Pauls' teachings are presented in such a manner that generic encoders can be readily swapped in and out of the configuration." Ex. 1003 ¶ 211. Dr. Storer further testifies that the encoders disclosed in Imai are ones that could have been "easily modified or replaced to include the compression algorithms of Pauls, and Imai's teachings are structured to support such a configuration." *Id.*

Petitioner further argues that a person of ordinary skill in the art would have been motivated to apply Imai's detailed teachings regarding

determining the bandwidth of a communication channel to Pauls' system that selects from multiple video data compression encoders to fine-tune Pauls' video transmission system. *Id.* (citing Ex. 1003 ¶ 212). According to Petitioner, a person of ordinary skill in the art would have had a reasonable expectation of success in combining the teachings of Imai and Pauls and also would have achieved predictable results from the combination. *Id.*

Patent Owner contests Petitioner's position, arguing that Petitioner fails to provide an adequate rationale as to why a person of skill in the art would combine the system of Imai with the specific encoders of Pauls. Prelim. Resp. 30–31. Patent Owner further argues that Petitioner provides no analysis regarding the combination of Imai and Pauls but, rather, offers only conclusory statements that Imai could be modified for video encoding and that a person of ordinary skill in the art would use the encoders taught by Pauls. *Id.* at 31.

We have considered carefully all arguments and supporting evidence regarding the rationale for combining Imai and Pauls. At this stage of the proceeding, we find Petitioner provides an adequate reason that a person of skill in the art would have combined the teachings from the cited prior art to arrive at the inventions recited in the challenged claims. A motivation to combine may be found "explicitly or implicitly in market forces; design incentives; the 'interrelated teachings of multiple patents'; 'any need or problem known in the field of endeavor at the time of invention and addressed by the patent'; and the background knowledge, creativity, and common sense of the person of ordinary skill." *ZUP, LLC v. Nash Mfg., Inc.*, 896 F.3d 1365, 1371 (Fed. Cir. 2018) (quoting *Plantronics, Inc. v. Aliph, Inc.*, 724 F.3d 1343, 1354 (Fed. Cir. 2013)). As Petitioner and Petitioner's

declarant, Dr. James Storer, argue both references are used for the same purpose: encoding data at a server for transmission to a client over a distributed network such as the Internet. Pet. 52 (citing Ex. 1003 209). Additionally, they both teach (1) encoding the data using encoding methods that achieve data compression using asymmetric techniques, (2) choosing an encoding method based upon the type of data being transmitted, and (3) choosing the encoding method based upon a throughout of the communications channel connecting the client. *Id.* Based on the current record, Petitioner appears to bring in Pauls to provide a more explicit teaching of asymmetric compression encoders for Imai's system using compression algorithms directed to video or image data blocks because Pauls teaches use of well-known compression techniques for video data compression. We specifically credit the testimony of Dr. Storer regarding the ease with which a person of ordinary skill in the art could have modified or replaced the encoders disclosed in Imai to include the compression algorithms of Pauls, especially in light of Imai's suggestion to use its system for video data compression. *See* Ex. 1003 ¶ 211. Given Imai's express teaching regarding the use of video compression encoders in its system, and the fact that both audio and video compression techniques were similar and well-known, we agree with Petitioner that a person of ordinary skill would have been motivated to turn to Pauls' video compression encoders for use with Imai's system. *See Realtime Data, LLC v. Iancu*, No. 2018-1154, 2019 WL 149835, at *5 (Fed. Cir. Jan. 10, 2019) (finding the Board had sufficient evidence for a motivation to combine references where the second reference was "well known," the techniques taught in the two references "share[d] striking similarities," and one reference "suggests that a wide variety of

adaptive compression algorithms could be used and encourages a person having ordinary skill in the art to turn to 'well known' algorithms such as [the other reference's]").

Accordingly, on this record and for purposes of this Decision, we are persuaded Petitioner presents sufficient evidence to establish a reasonable likelihood it would prevail in showing that claims 1, 3–6, and 9–14 would have been obvious under 35 U.S.C. § 103 in view of Imai and Pauls.

G. Alleged Obviousness of Claims 2, 11, 20–22, and 25–27 of the '477 Patent in View of Imai, Pauls, and Chao

Petitioner contends claims 2, 11, 20–22, and 25–27 of the '477 patent are unpatentable under 35 U.S.C. § 103(a) in view of Imai and Pauls. Pet. 59–66. Patent Owner disputes Petitioner's contentions. Prelim. Resp. 42–47. For reasons that follow, we determine Petitioner has demonstrated a reasonable likelihood of prevailing as to the challenged claims.

1. Prior Art Overview

a. Overview of Imai (Ex. 1005)

See supra Section II.D.1.

b. Overview of Pauls (Ex. 1007)

See supra Section II.E.1.

c. Overview of Chao (Ex. 1016)

Chao is a U.S. patent titled "System and Method for Image Compression and Decompression." Ex. 1016, Title. Chao is directed to a system for compressing video or image data employed in "'video on demand' systems, such as video servers" for "streaming video" in "realtime." *Id.* at

4:29–35.[8] Chao's video data is compressed using an entropy coding technique of either "arithmetic, run length, or Huffman encoding." *Id.* at 7:5–8. Chao also teaches having a particular entropy compression algorithm applied where it is "selected at run-time by the user, based on the desired compression ratio and the amount of time required to get the selected level of compression." *Id.* at 14:19–22.

2. Analysis of the Prior Art as Applied to Claims 2, 11, 20–22, and 25–27

Petitioner provides the combined teachings of Imai and Pauls with Chao to address specific limitations recited in certain dependent claims. Pet. 59–66. Petitioner purportedly maps each claim limitation to the cited references. *Id.* Specifically, Petitioner relies on Chao to meet limitation requiring the use of arithmetic algorithms. *Id.* at 59. Petitioner further notes that Pauls teaches using arithmetic compression algorithms, including H.263 and JPEG which both utilize an arithmetic algorithm in their respective arithmetic coding modes. *Id.* at 60 (citing Ex. 1007 ¶ 10; Ex. 1020, 69–76 (describing Arithmetic Coding mode of H.263 standard); Ex. 1008, 32 ("JPEG uses two techniques for entropy coding: Huffman coding and arithmetic coding."), 49; Ex. 1003 ¶ 229).

Patent Owner contests Petitioner's position argues that the combined references fail to remedy the shortcomings of the individual references. Prelim. Resp. 37–39. For the reasons provided above with the regards to Imai and Pauls individually, and because we agree Chao teaches use of

[8] To avoid confusion, citation format uses page numbers added to the exhibit by Petitioner.

arithmetic algorithms, we are satisfied Petitioner has provided adequate analysis and evidence for purposes of institution.

3. Rationale to Combine Imai, Pauls, and Chao

As discussed previously in Section II.F.2., Petitioner contends one of ordinary skill would have been motivated to combine the teachings of Imai with Pauls in order to extend Imai's system to video data, as taught by Pauls. Pet. 52–53. Petitioner further contends a person of ordinary skill in the art would have known of arithmetic data compression encoders, understood the benefits of such an effective technique, and known that such encoders could be used to complement or as a substitute to other well-known asymmetric encoders used in Imai and Pauls. *Id.* at 60 (citing Ex. 1003 ¶ 228). According to Petitioner, a person of ordinary skill in the art would have been motivated to combine Chao's arithmetic video data compression encoder with the systems of Imai and Pauls for several reasons: (1) Chao states that "an advantage of the present invention [is] to provide a system and method of a wavelet-based image compression that is suitable for both still and video images." (*id.* at 62 (citing Ex. 1016, 6:27–30)); and (2) it would have been obvious to substitute Chao's video encoder for Pauls' H.263 video encoder because it would be a simple substitution of one encoder for another to obtain the benefits from using an arithmetic coder (*id.* at 63 (citing Ex. 1018, 14–15)). Petitioner asserts that "[t]he substitution is also reasonable because Pauls' H.263 is an asymmetric video encoder that has an optional arithmetic coding mode." *Id.* (citing Ex. 1003 ¶ 235).

Patent Owner contests Petitioner's position, arguing that Petitioner fails to provide an adequate rationale as to why a person of skill in the art would combine the system of Imai with the specific encoders of Pauls.

Prelim. Resp. 30–31. Patent Owner further argues that Petitioner provides no analysis regarding the combination of Imai and Pauls but, rather, offers only conclusory statements that Imai could be modified for video encoding and that a person of ordinary skill in the art would use the encoders taught by Pauls. *Id.* at 31.

We have considered carefully all arguments and supporting evidence regarding the rationale for combining Imai and Pauls with Chao. At this stage of the proceeding, we are persuaded by Petitioner's analysis that a person of skill in the art would have had reason to combine the cited prior art and would have arrived at the claimed inventions recited in the challenged claims for the same reasons provided above in Section II.F.2., and because Chao demonstrates that certain algorithms taught in Pauls are replaced easily with arithmetic algorithms such as the asymmetric entropy compression algorithm of Chao as required by the challenged claims. *See* Ex. 1016, 5:3–9, 14:16–23; Ex. 1003 ¶¶ 232–234).

Accordingly, on this record and for purposes of this Decision, we are persuaded Petitioner presents sufficient evidence to establish a reasonable likelihood it would prevail in showing that claims 2, 11, 20–22, and 25–27 would have been obvious under 35 U.S.C. § 103 in view of Imai, Pauls, and Chao.

III. CONCLUSION

For the foregoing reasons, we determine Petitioner has demonstrated there is a reasonable likelihood it would prevail in establishing the unpatentability of claims 1–6, 9–14, 20–22, and 25–27 of the '477 patent as (1) obvious in view of Imai, (2) obvious in view of Pauls, and (3) obvious in view of Imai and Pauls. We further determine Petitioner has demonstrated

there is a reasonable likelihood it would prevail in establishing the unpatentability of claims 2, 11, 20–22, and 25–27 of the '477 patent as obvious in view of Imai, Pauls, and Chao.

At this stage of the proceeding, the Board has not made a final determination as to the patentability of any challenged claim.

IV. ORDER

For the reasons given, it is

ORDERED that, pursuant to 35 U.S.C. § 314(a), an *inter partes* review is hereby instituted as to claims 1–6, 9–14, 20–22, and 25–27 of the '477 patent on all grounds presented in the Petition, namely:

(1) Claims 1, 3–5, 12–14 under 35 U.S.C. § 103 as unpatentable over Imai;

(2) Claims 1, 3–6, 9–14 under 35 U.S.C. § 103 as unpatentable over Pauls;

(3) Claims 1, 3–6, 9–14 under 35 U.S.C. § 103 as unpatentable over Imai and Pauls; and

(4) Claims 2, 11, 20–22, 25–27 under 35 U.S.C. § 103 as unpatentable over Imai, Pauls, and Chao;

FURTHER ORDERED that the trial is limited to the grounds identified above, and no other grounds are authorized; and

FURTHER ORDERED that pursuant to 35 U.S.C. § 314(c) and 37 C.F.R. § 42.4, notice is hereby given of the institution of a trial, the trial commencing on the entry date of this Decision.

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AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Tyler Division on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:17cv549	9/27/2017	Eastern District of Texas, Tyler Division

PLAINTIFF	DEFENDANT
REALTIME ADAPTIVE STREAMING LLC	AMAZON.COM, INC. et al

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,934,535	1/13/2015	REALTIME ADAPTIVE STREAMING LLC
2	9,769,477	9/19/2017	REALTIME ADAPTIVE STREAMING LLC
3	8,929,442	1/6/2015	REALTIME ADAPTIVE STREAMING LLC
4			
5			

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
ORDERED that Plaintiff's claims for relief against Defendants are DISMISSED WITH PREJUDICE and Defendants' corresponding defenses are DISMISSED WITHOUT PREJUDICE.

CLERK	(BY) DEPUTY CLERK	DATE
David A. O'Toole	Gleith S Green	1/14/19

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

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Patent Trial and Appeal Board

A petition has been filed in Patent Number 9,769,477, Application Number 14/876,276 on 03/04/2019.

The AIA Review Number is IPR2019-00786.

To view the documents filed in this petition, go to https://ptab.uspto.gov and Search for the AIA Review Number.

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Questions regarding this notice should be directed to the Patent Trial and Appeal Board at 571-272-7822.