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November 21, 2024

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OF:

APPLICATION NUMBER: 16/136,149

FILING DATE: *September 19, 2018*

PATENT NUMBER: 10412141

ISSUE DATE: *September 10, 2019*



Certified by

Katherine Kelly Vidal

Performing the Functions and Duties of the
Under Secretary of Commerce
for Intellectual Property
and Director of the United States
Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16/136,149
	Filing Date	September 19, 2018
	First Named Inventor	Roland Osborne
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

201200365442011-10-06U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6742082	B1	2004-05-25	Lango et al.	
		7664872	B2	2010-02-16	Osborne, Roland et al.	
		7734806		2010-06-08	Park, J.	
		7886069		2011-02-08	Osborne, R.	
		7895311	B1	2011-02-22	Juenger, Arthur W.	
		8731369	B2	2014-05-20	Li et al.	
		8977768		2015-03-10	Osborne, Roland	
		9794318	B2	2017-10-17	Osborne	

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		20030077071	A1	2003-04-24	Lin, S. et al.	
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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.

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	First Named Inventor	Roland Osborne
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
		2001006788	WO	A1	2001-01-25	Ellis, M et al.		
		2306524	CA	A1	2001-09-30	Reichmann et al.		
		2003504984	JP		2003-02-04	Ellis, M. et al.		
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		2003046750	WO		2003-06-05	Thompson, Mark, R. et al.		
		2003071800	WO	A1	2003-08-28	Chiu, T. et al.		
		2003088665	WO	A1	2003-10-23	Moriya, Yoshimi et al.		
		2004295568	JP		2004-10-21	Yoshikawa, Norifumi et al.		
		2004362099	JP		2004-12-24	Igarashi, Takuya et al.		
		1575595	CN	A	2005-02-02	Shu, Lin et al.		
		1581971	CN	A	2005-02-16	Peng Zhigiang et al.		
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	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	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 5
		Adobe - Development Center: Flash video learning guide, printed 1/13/09 from http://www.adobe.com/devnet/flash/articles/video_guide_02.html , 5 pgs.	
		International Preliminary Report on Patentability for International Application No. PCT/US2008/050440, Report Completed August 7, 2009, Mailed August 11, 2009, 8 pgs.	
		International Search Report for International Application No. PCT/US2008/050440, International Filing Date January 7, 2008, Search completed April 23, 2008, Mailed May 16, 2008, 2 pgs.	
		RedOrbit News, New DivX Web Player Hits 1 Milling Downloads in One Week, printed 1/13/09 from http://www.redorbit.com/modules/news/tools.php?tool=print&id=421307 , 2 pgs.	
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	First Named Inventor	Roland Osborne
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

		FIELDING ET AL., "Hypertext Transfer Protocol -- HTTP1.1", Network Working Group, RFC 2616, June 1999, 114 pgs.	
EXAMINER SIGNATURE			
Examiner Signature		Date Considered	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.			

A1PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF EFS WEB TRANSMISSION

I hereby certify that this correspondence is being electronically filed with the United States Patent and Trademark Office on October 30, 2018 at or before 11:59 p.m. Pacific Time under the Rules of 37 C.F.R. 1.8.

/Katrina Lee/
Katrina Lee

Appl No. : 16/136,149 Confirmation No. 1778
Applicant : DIVX, LLC
Filed : September 19, 2018
Title : Systems and Methods for Seeking Within Multimedia Content During Streaming Playback
TC/A.U. : 2451
Examiner : Glenford J. Madamba
Docket No. : D1-00642.CON4
Customer No. : 71897

INFORMATION DISCLOSURE STATEMENT § 1.97(b)

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

2190 S. Towne Centre Place, Suite 300
Anaheim, CA 92806
October 30, 2018

Commissioner

In compliance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, and in accordance with the provisions in the MPEP §§ 609 and 707.05(b), enclosed is FORM PTO/SB/08A/B with a listing of references that are known to applicant. Copies of each of the references listed under "Foreign Patent Documents" and "Non-Patent Literature Documents" are enclosed.

It is respectfully requested that these references be considered in the examination of this application and identified on the list of references cited on the patent issuing on this application. Applicant also requests that an initialed copy of said FORM PTO/SB/08A/B be entered in the application file, and returned to the Applicant with the next official communication from the Office in accordance with MPEP § 609.

APPLICATION No. 16/136,149
INFORMATION DISCLOSURE STATEMENT

It is believed that there are no fees due in connection with this filing. If there are any fees due in connection with this filing, the Commissioner is authorized to charge Deposit Account 50-4407. Please show our docket number with any charge to the Deposit Account.

Respectfully submitted,

KPPB LLP

/David H. Kaveh/
David H. Kaveh
Registration No. 68640
949.852.0000

DHK/kl

Enclosures

Electronic Acknowledgement Receipt	
EFS ID:	34162826
Application Number:	16136149
International Application Number:	
Confirmation Number:	1778
Title of Invention:	Systems and Methods for Seeking Within Multimedia Content During Streaming Playback
First Named Inventor/Applicant Name:	Roland Osborne
Customer Number:	71897
Filer:	David Kaveh/Katrina Lee
Filer Authorized By:	David Kaveh
Attorney Docket Number:	D1-00642.CON4
Receipt Date:	30-OCT-2018
Filing Date:	19-SEP-2018
Time Stamp:	19:31:46
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	Foreign Reference	WO2001006788A1.pdf	6237525	no	105
			3bc637cc5e4978753c29b28d74b9966d423f5f82		
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2	Foreign Reference	CA_2306524_A1.pdf	2569844	no	20
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4	Foreign Reference	jp2003111048wabstract.pdf	1981527	no	17
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5	Foreign Reference	WO2003046750.pdf	2693325	no	18
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6	Foreign Reference	WO2003071800A1.pdf	1318571	no	22
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9	Foreign Reference	JP2004362099.pdf	18403076	no	41
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10	Foreign Reference	CN1575595A.pdf	5102021	no	26
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11	Foreign Reference	CN1581971A.pdf	5084784	no	32
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29	Foreign Reference	CN103561278B.PDF	2006298	no	21
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30	Non Patent Literature	adobedevcen.pdf	1098159	no	5
			f1cf37780aea912b77331e3e32c291fb65019fa2		
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31	Other Reference-Patent/App/Search documents	intlprelim440.pdf	1883693	no	8
			2002ad552ceee3401c025940011a1ebab67ad420		
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32	Other Reference-Patent/App/Search documents	isrus2008050440.pdf	331651	no	2
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33	Non Patent Literature	redorbitnews.pdf	247799	no	2
			cabbd1e9882efcc092880eea62b1206b06ab0566		
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34	Non Patent Literature	vuzehdnetwork.pdf	435760	no	1
			3231c1f822e2dcada5180537ead6af22cc9921ab		
Warnings:					
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35	Other Reference-Patent/App/Search documents	writtenopus2008050440.pdf	1888227	no	9
			7406a1abcf6d1c3fa5946b0b3c0e0c4b2426ee2f		
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			cee0ae14b0c980b7028cb8471a17575d17473619		
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37	Information Disclosure Statement (IDS) Form (SB08)	00642con4ids1449.pdf	130131	no	4				
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This is not an USPTO supplied IDS fillable form									
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Warnings:									
Information:									
Total Files Size (in bytes):			226108054						
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> 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.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> 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.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> 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.</p>									



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/136,149	09/19/2018	Roland Osborne	D1-00642.CON4	1778
71897	7590	11/19/2018	EXAMINER	
KPPB LLP			MADAMBA, GLENFORD J	
2190 S. Towne Centre Place			ART UNIT	
Suite 300			PAPER NUMBER	
Anaheim, CA 92806			2451	
			NOTIFICATION DATE	DELIVERY MODE
			11/19/2018	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PAIR@KPPB.COM

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, 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. Patentability shall not be negated by the manner in which the invention was made.

1. Claims **1, 3-6, 8-9, 11, 13-14, 17-20, 22-25, 27-28, 30** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Zoeste** et al (hereinafter Zoeste), U.S. Patent Publication 2005/0207442 A1 in view of **Thompson** et al (hereinafter Thompson), WIPO Publication WO 03/046750 A1 and in further view of Gallo et al (hereinafter Gallo), U.S Patent Publication 2002/0161797 A1.

As per claim(s) **1, 20**, Zoeste discloses particular features of the invention, such as a system comprising **playback device, comprising: a processor; and a non-volatile storage** (Zoeste: e.g., *Lap-top computer_ 18 / Personal digital assistant (PDA)_20*) [0144] [Fig. 1] **containing an application for causing the processor to perform the steps of:**

establishing at least one connection for communicating with a remote server system (Zoeste: e.g., expressly teaches in one aspect that "devices that can be

'connected' to the network include a *Server 16*, a *lap-top computer 18* and a *personal digital assistant (PDA) 20*. In various embodiments, the 'connections' between the devices and the network can be either wired or wireless and implemented using any of a variety of networking protocols...") [0144] [Fig. 1];

obtaining information from a remote server system describing at least one video track, multiple audio tracks, and multiple subtitle tracks (Zoeste: e.g., expressly teaches in one aspect that requested "***multimedia files*** in accordance with embodiments of the present invention **can contain multiple *video tracks, multiple audio tracks, multiple subtitle tracks***, and data that can be used to generate a 'menu interface' to access the contents of the file and 'meta data' concerning the contents of the file. ***Multimedia files*** in accordance with several embodiments of the present invention **also include 'references' to *video tracks, audio tracks, subtitle tracks*** and '*meta data*' external to the file...") [Abstract] [0142] [0162] [0164];

requesting a header describing the at least one video track (Zoeste: e.g., expressly teaches in one aspect that "in addition to the 'avih' chunk, **the '*hdr1*' list includes a 'stream descriptor list' for each audio, video and subtitle track**. In one embodiment, the 'stream descriptor list' is implemented using 'strl' chunks. A 'strl' chunk in accordance with an embodiment of the present invention is illustrated in FIG. 2.2. **Each 'strl' chunk serves to 'describe each track' in the multimedia file...**") [0162] (e.g., additionally teaches that "in an encryption system in accordance with an embodiment of the present invention, the ***video chunks*** are only partially encrypted. Where partial encryption is used, **the '*DRM*' chunks contain a 'reference' to the portion of a 'video' chunk that is encrypted** and a reference to the key that can be

used to decrypt the encrypted portion. The decryption keys can be located in a **`DRM` header**, which is part of the **`strd` chunk...**) [0246] [0566];

selecting an audio track from the multiple audio tracks (Zoeste: e.g., expressly teaches in one aspect that “In a further embodiment, **the processor is configured to ‘select a single audio track’ from the plurality of audio tracks...**”) [0032].

But while Zoeste discloses substantial features of the invention as above, he does not explicitly disclose the additional recited feature{s} of the device performing steps further comprising **requesting byte ranges from the video track and the audio track from the remote server system** as well as **requesting byte ranges required to play the media sequence from the new playback location from the remote server**. Nonetheless, the said feature is expressly disclosed by Thompson in a related endeavor.

Thompson discloses as his invention a system and method for playback manipulation of HTTP streamed content objects [Thompson: Abstract] [Fig. 2] [L19-30, pg. 2]. In particular, Thompson discloses the additional recited feature{s} of the device performing steps further comprising **requesting byte ranges from the video track and the audio track from the remote server system** as well as **requesting byte ranges required to play the media sequence from the new playback location from the remote server** (Thompson: e.g., expressly discloses and illustrates in one aspect that “Typically, a content object file is played from the beginning after streaming starts, but a user may want to ‘skip’ ahead in the audio or video to a point away from the

beginning....A 'slider bar', 'fast-forward button', or 'rewind button' in the content processing program allows the user to tell the content processing program 124 where the streamed content should resume playing. For example the user may begin downloading a 'song' in MP3 format. Soon thereafter, the user moves the slider to a point 10% or 30 seconds into the song...**The content processing program 14 'determines the byte range(s)' of the content object file corresponding to the slider position and 'requests that byte range' from the Origin Server 104...**") [L25, pg.3 – L7, pg. 4] (steps 420, 426, 432 & 436) [Fig. 4] (steps 432 & 436) [Fig. 5].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify and/or combine Zoeste's invention with the above said additional feature, as disclosed by Thompson, for the motivation of providing a system and method for playback manipulation of HTTP streamed content objects in response to detected user control inputs [Thompson: Abstract] [Fig. 2] [L19-30, pg. 2].

Further, while the combination of Zoeste and Thompson discloses substantial features of the invention as above, they do not explicitly disclose the additional recited feature{s} of the device performing steps further comprising **buffering received bytes of information; checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data; respond to a received seek instruction by: pausing playback; as well as buffering received bytes of information pending resumption of playback; and checking that sufficient data is buffered to commence playback and playing back the buffered audio and video**

data. Nonetheless, the said feature(s) is/are expressly disclosed by Gallo in a related endeavor.

Gallo discloses as his invention a system and method for integration of media playback components with an independent timing specification [Gallo: Abstract] [Fig. 7] [0006-0008]. In particular, Gallo discloses the additional recited feature{s} of the device performing steps further comprising **buffering received bytes of information;** **checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data** (Gallo: e.g., expressly discloses and illustrates in one aspect that “when the player 204 can no longer play due to an insufficient amount of buffered data, synchronization can no longer be recovered ‘until the player has enough data to resume playback’. When ‘sufficient data is available for the player to continue playback’, the player peer 200 may perform a Buffer Full transition 320 from the Waiting for Data state 308 back to the Active state 304...”) [0065];

respond to a received seek instruction by: pausing playback (Gallo: e.g., “Media playback may be controlled through the playback control interfaces. Generally stated, a player may be started, stopped, *paused*, resumed, or ‘*seeked*’ to a given time offset. The player may inform the host of its playback capabilities through a set of capabilities methods...” [0049]; as well as

buffering received bytes of information pending resumption of playback; **and checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data** (Gallo: e.g., expressly discloses and illustrates in one aspect that “while the player-hosting peer 200 is in the Waiting for Data

state 308, a 'seek command' from the browser 202 to the player-hosting peer 200, will result in a 'Seek transition' 322 to the Active state 304. Such a Seek transition 322 may be performed when a timing constraint affecting sync between the player-hosting peer 200 and the player 204 exists. Following such a Seek transition 322, if the player has insufficient buffered data, a Buffer Empty transition 316 is performed from the Active state 304 back to the Waiting for Data state 308. 'Upon buffering of a sufficient amount of data', a Buffer Full transition 320 is performed from the Waiting for Data state 308 to the Active state 304..") [0065].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify the combination with the above said additional feature, as disclosed by Gallo, for the motivation of providing an improved system and method for integration of media playback components with an independent timing specification, and which allows for an Internet browser to host a generic media player that defines a 'playing state' {i.e., playing, paused, stopped, etc.} [Gallo: Abstract] [0005-0008].

Claim 20 recites substantially the same limitations as claim 1, is distinguishable only by its statutory category (method), and accordingly rejected on the same basis.

As per claim(s) 3, 22, Zoeste discloses the device **wherein the step of requesting a header describing the at least one video track comprises the step of requesting a DRM header** (Zoest: e.g., additionally teaches that "in an encryption system in accordance with an embodiment of the present invention, the video chunks are only partially encrypted. Where partial encryption is used, the `DRM` chunks contain a `reference` to the portion of a `video` chunk that is encrypted and a reference to the key

that can be used to decrypt the encrypted portion. The decryption keys can be located in a **`DRM` header**, which is part of the **`strd` chunk**...) [0246] [0566].

Claim **22** recited substantially the same limitations as claim 3, is distinguishable only by its statutory category (method), and accordingly rejected on the same basis.

As per claim(s) **4, 23**, Zoeste discloses the device **wherein the application is further capable of causing the processor to perform the step of decrypting the DRM header** (Zoest: e.g., additionally teaches that "in an encryption system in accordance with an embodiment of the present invention, the *video chunks* are only partially encrypted. Where partial encryption is used, the **`DRM`** chunks contain a 'reference' to the portion of a **`video`** chunk that is encrypted and **a reference to the 'key' that can be used to 'decrypt' the encrypted portion.** The decryption keys can be located in a **`DRM` header**, which is part of the **`strd` chunk**...) [0246] [0566].

Claim **23** recited substantially the same limitations as claim 4, is distinguishable only by its statutory category (method), and accordingly rejected on the same basis.

As per claim(s) **5, 13, 24**, Zoeste discloses the device **wherein the DRM header identifies at least one key; and the application is further capable of causing the processor to perform the steps of decrypting encrypted frames of video using the at least one key prior to decoding** (Zoest: e.g., additionally teaches that "in an encryption system in accordance with an embodiment of the present invention, the *video chunks* are only partially encrypted. Where partial encryption is used, the **`DRM`** chunks contain a 'reference' to the portion of a **`video`** chunk that is encrypted and **a**

reference to the **'key'** that can be used to **'decrypt'** the encrypted portion. The decryption keys can be located in a **'DRM' header**, which is part of the **'strd'** chunk...") [0246] [0566].

Claim(s) **13** recites substantially the same limitations as claim 5, and accordingly rejected on the same basis.

Claim(s) **24** recited substantially the same limitations as claim 5, is/are distinguishable only by its/their statutory category (method), and accordingly rejected on the same basis.

As per claim(s) **6, 14, 25**, Zoeste discloses the device **wherein: encrypted frames of video are only partially encrypted; the received bytes of information contain references to portions of video frames that are encrypted; and the step of decrypting encrypted frames of video using the at least one key prior to decoding further comprises decrypting encrypted portions of frames of video using the references to the portions of the video frames that are encrypted** (Zoest: e.g., additionally teaches that "in an encryption system in accordance with an embodiment of the present invention, the **video chunks** are only **'partially encrypted'**. Where partial encryption is used, the **'DRM' chunks contain a 'reference' to the portion of a 'video' chunk that is encrypted** and **a reference to the key that can be used to 'decrypt' the encrypted portion.** The decryption keys can be located in a **'DRM' header**, which is part of the **'strd'** chunk...") [0246] [0566].

Claim(s) **14** recites substantially the same limitations as claim 6, and accordingly rejected on the same basis.

Claim(s) **25** recited substantially the same limitations as claim 6, is/are distinguishable only by its/their statutory category (method), and accordingly rejected on the same basis.

As per claim(s) **8, 17, 27**, while Zoeste discloses substantial features of the invention as above, he does not explicitly disclose the additional recited feature{s} of the device performing steps further comprising **wherein playing back the buffered video data from the requested byte ranges provides fast forward trick play**. Nonetheless, the said feature is expressly disclosed by Thompson in a related endeavor.

Thompson discloses as his invention a system and method for playback manipulation of HTTP streamed content objects [Thompson: Abstract] [Fig. 2] [L19-30, pg. 2]. In particular, Thompson discloses the additional recited feature{s} of the device **wherein playing back the buffered video data from the requested byte ranges provides fast forward trick play** (Thompson: e.g., expressly discloses and illustrates in one aspect that "Typically, a content object file is played from the beginning after streaming starts, but a user may want to 'skip' ahead in the audio or video to a point away from the beginning....A 'slider bar', 'fast-forward button', or 'rewind button' in the content processing program allows the user to tell the content processing program 124 where the streamed content should resume playing. For example the user may begin downloading a 'song' in MP3 format. Soon thereafter, the user moves the slider to a point 10% or 30 seconds into the song...The *content processing program 14* 'determines the byte range(s)' of the content object file corresponding to the slider

position and 'requests that byte range' from the *Origin Server_104...*) [L25, pg.3 – L7, pg. 4] (steps 420, 426, 432 & 436) [Fig. 4] (steps 432 & 436) [Fig. 5].

Claim(s) **17** recites substantially the same limitations as claim 8, and accordingly rejected on the same basis.

Claim(s) **27** recited substantially the same limitations as claim 8, is/are distinguishable only by its/their statutory category (method), and accordingly rejected on the same basis.

As per claim(s) **9, 18, 28**, while Zoeste discloses substantial features of the invention as above, he does not explicitly disclose the additional recited feature{s} of the device performing steps further comprising **wherein playing back the buffered video data from the requested byte ranges provides *fast rewind trick play***. Nonetheless, the said feature is expressly disclosed by Thompson in a related endeavor.

Thompson discloses as his invention a system and method for playback manipulation of HTTP streamed content objects [Thompson: Abstract] [Fig. 2] [L19-30, pg. 2]. In particular, Thompson discloses the additional recited feature{s} of the device **wherein playing back the buffered video data from the requested byte ranges provides *fast rewind trick play*** (Thompson: e.g., expressly discloses and illustrates in one aspect that "Typically, a content object file is played from the beginning after streaming starts, but a user may want to '*skip*' ahead in the audio or video to a point away from the beginning....A '*slider bar*', '*fast-forward button*', or '*rewind button*' in the content processing program allows the user to tell the content processing program 124 where the streamed content should resume playing. For example the user may begin

downloading a 'song' in MP3 format. Soon thereafter, the user moves the slider to a point 10% or 30 seconds into the song...The *content processing program 14* 'determines the byte range(s)' of the content object file corresponding to the slider position and 'requests that byte range' from the *Origin Server_104...*) [L25, pg.3 – L7, pg. 4] (steps 420, 426, 432 & 436) [Fig. 4] (steps 432 & 436) [Fig. 5].

Claim(s) **18** recites substantially the same limitations as claim 9, and accordingly rejected on the same basis.

Claim(s) **28** recited substantially the same limitations as claim 9, is/are distinguishable only by its/their statutory category (method), and accordingly rejected on the same basis.

As per claim(s) **11, 19, 30**, Zoeste discloses the device **wherein the application is further capable of causing the processor to perform the steps of: selecting a subtitle track from the multiple subtitle tracks; requesting data from the subtitle track from the remote server system, where the data contains subtitle text; and superimposing the subtitle text over video during playback** (Zoest: e.g., additionally teaches that "in a yet further embodiment, the series of encoded video frames are encoded as a series of video chunks and each encoded subtitle track is encoded as a series of subtitle chunks. Each subtitle chunk includes information capable of being represented as **text** on a display. In addition, each subtitle chunk can contain information concerning a single subtitle. **Furthermore, each 'subtitle chunk' can include information concerning the portion of the video**

sequence 'over which the subtitle should be superimposed'...") [0041] (e.g.,
"SubtitleSelectAction` chunk 190 contains information that can be used to select a
particular subtitle track..") [0222]

Claim(s) **19** recites substantially the same limitations as claim 11, and
accordingly rejected on the same basis.

Claim(s) **30** recited substantially the same limitations as claim 11, is/are
distinguishable only by its/their statutory category (method), and accordingly rejected on
the same basis.

2. Claim(s) **2, 7, 15, 16, 21, 26** is/are rejected under 35 U.S.C. 103(a) as being
unpatentable over **Zoeste** in view of **Thompson** and in further view of **Gallo** and **Gupta**
et al (hereinafter Gupta), US Patent Pub 2007/0162568 A1.

As per claim(s) **2, 15, 21**, while the combination of Zoest, Thompson and Gallo
discloses substantial features of the invention as above, they do not explicitly disclose
the additional recited feature{s} of the device **wherein the application is further**
capable of causing the processor to asynchronously request byte ranges from
the video track and the audio track from the remote server. Nonetheless, the said
feature(s) is/are expressly disclosed by Gupta in a related endeavor.

Gupta discloses as his invention systems and methods for dynamic generation of
media content at the point that content is served from a corpus of indexed data source
files [Gupta: Abstract] [0004] [Fig. 1]. In particular, Gupta discloses the additional recited

feature{s} of the device **wherein the application is further capable of causing the processor to asynchronously request byte ranges from the video track and the audio track from the remote server** (Gupta: e.g., expressly discloses and illustrates in one aspect that “Once a request is received 310, at least one source media file corresponding to the media content requested is opened 320. To do this, the request is passed to a read thread, which does **asynchronous** lookups to the **content index 130** using the content identifier, computes starting byte offsets and frame lengths from the specified time range, and then opens 320 the source media file...”) [0036].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify the combination with the above said additional feature, as disclosed by Gupta, for the motivation of providing systems and methods for dynamic generation of media content at the point that content is served from a corpus of indexed data source files [Gupta: Abstract] [0004].

Claim(s) **15** recites substantially the same limitations as claim 2, and accordingly rejected on the same basis.

Claim(s) **21** recited substantially the same limitations as claim 2, is/are distinguishable only by its/their statutory category (method), and accordingly rejected on the same basis.

As per claim(s) **7, 16, 26**, while the combination of Zoest, Thompson and Gallo discloses substantial features of the invention as above, they do not explicitly disclose the additional recited feature{s} of the device **wherein the application is further**

capable of causing the processor to perform the steps of: obtaining an index to the locations of audio and video data within the audio and video tracks; and determining byte ranges to request from the audio and video tracks using the index. Nonetheless, the said feature(s) is/are expressly disclosed by Gupta in a related endeavor.

Gupta discloses as his invention systems and methods for dynamic generation of media content at the point that content is served from a corpus of indexed data source files [Gupta: Abstract] [0004] [Fig. 1]. In particular, Gupta discloses the additional recited feature{s} of the device **wherein the application is further capable of causing the processor to perform the steps of: obtaining an index to the locations of audio and video data within the audio and video tracks; and determining byte ranges to request from the audio and video tracks using the index** (Gupta: e.g., expressly discloses and illustrates in one aspect that “Once a request is received 310, at least one source media file corresponding to the media content requested is opened 320. To do this, the request is passed to a read thread, which does asynchronous lookups to the *content index 130* using the content identifier, computes starting byte offsets and frame lengths from the specified time range, and then opens 320 the source media file. In one embodiment, if more than one portion will be combined or more than one stream interleaved, the server 110 sorts the content items in the order in which they will be transmitted prior to reading the content index for all content items associated with all portions. In addition, the server 110 stores the relevant header and footer information, such as video resolution and frame rate, byte range of the portion of the file that is being composed, and other file format specific information. If a data stream is being

added, the server 110 also reads **content index information** for a data stream, which includes a list of time-stamped data objects to be inserted in the stream. The time-stamped data objects can be arbitrary binary data, text data, or any other format...”)
[0036].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify the combination with the above said additional feature, as disclosed by Gupta, for the motivation of providing systems and methods for dynamic generation of media content at the point that content is served from a corpus of indexed data source files [Gupta: Abstract] [0004].

Claim(s) **16** recites substantially the same limitations as claim 7, and accordingly rejected on the same basis.

Claim(s) **26** recited substantially the same limitations as claim 7, is/are distinguishable only by its/their statutory category (method), and accordingly rejected on the same basis.

3. Claim(s) **10, 29** is/are rejected under 35 U.S.C. 103(a) as being unpatentable over **Zoeste** in view of **Thompson** and in further view of **Gallo** and **Aggarwal** et al (hereinafter Aggarwal), U.S Patent Publication 2003/0169815 A1.

As per claim(s) **10, 29**, while the combination of Zoest, Thompson and Gallo discloses substantial features of the invention as above, they do not explicitly disclose the additional recited feature{s} of the device **wherein the application is further capable of causing the processor to perform the step of discarding audio and**

video data contained within the buffer in response to a received seek instruction.

Nonetheless, the said feature(s) is/are expressly disclosed by Aggarwal in a related endeavor.

Aggarwal discloses as his invention systems, methods, and apparatus for improving performance of video decoders during rewind and fast forward operation. [Aggarwal: Abstract] [Fig. 1] [0010]. In particular, Aggarwal discloses the additional recited feature{s} of the device **wherein the application is further capable of causing the processor to perform the step of discarding audio and video data contained within the buffer in response to a received seek instruction** (Aggarwal: e.g., expressly discloses and illustrates in one aspect that “In a block 1755, all subsequent pictures are decoded normally, and the buffers that are used for *Forward and Backward* predictions are constantly updated. The buffer manager is careful not to overwrite the Locked Reference Buffer. In the Three buffers mode, since one of the buffers is Locked, the other two are used for the decoding of the **I/P pictures and the B pictures are discarded**...”) [0166].

It would thus be obvious to one of ordinary skill in the art at the time of the invention to modify the combination with the above said additional feature, as disclosed by Aggarwal, for the motivation of providing systems, methods, and apparatus for improving performance of video decoders during rewind and fast forward operation. [Aggarwal: Abstract] [0010].

4. Claim(s) **12** is/are rejected under 35 U.S.C. 103(a) as being unpatentable over **Zoeste** in view of **Thompson** in view of Gallo and in further view of **Gupta** and **Aggarwal**.

As per claim **12**, **Zoeste** in view of **Thompson** in view of Gallo and in further view of **Gupta** and **Aggarwal** discloses a **playback device, comprising:**

a processor; and

a non-volatile storage containing an application for causing the processor to perform the steps of:

establishing at least one connection for communicating with a remote server system;

obtaining information from a remote server system describing at least one video track, multiple audio tracks, and multiple subtitle tracks;

requesting a header describing the at least one video track, where the requested header comprises a DRM header; decrypting the DRM header;

selecting an audio track from the multiple audio tracks; creating a buffer;

requesting byte ranges from the video track and the audio track from the remote server system;

buffering received bytes of information;

checking that sufficient data is buffered to commence playback;

decrypting encrypted frames of video using information from the decrypted DRM header;

playing back the buffered audio and the decrypted video data;
respond to a received seek instruction by:
pausing playback;
discarding buffered audio and video data;
requesting byte ranges required to play the media sequence
from the new playback location from the remote server;
buffering received bytes of information pending resumption of
playback; and
checking that sufficient data is buffered to commence
playback; decrypting encrypted frames of video using information from
the decrypted DRM header; and
playing back the buffered audio and decrypted video data.

With regards to the claim, the claim recites substantially the same features and/or limitations as those recited by the *combination* of claims 1, 2, 4 and 10, previously rejected above, and the claim is accordingly rejected on the same basis.

Conclusion

1. The Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It

is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to GLENFORD J MADAMBA whose telephone number is (571)272-7989. The examiner can normally be reached on M-F, 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Parry can be reached on 571-272-8328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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).

/GLENFORD J MADAMBA/
Primary Examiner, Art Unit 2451

<i>Notice of References Cited</i>	Application/Control No. 16/136,149	Applicant(s)/Patent Under Reexamination	
	Examiner GLENFORD J MADAMBA	Art Unit 2451	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20050207442-A1	09-2005	Zoest, Alexander T. van	G11B20/00086	370/465
*	B	US-20020161797-A1	10-2002	Gallo, Kevin T.	G06F17/30905	715/203
*	C	US-20070162568-A1	07-2007	Gupta; Manish	G06Q30/0242	709/219
*	D	US-20030169815-A1	09-2003	Aggarwal, Gaurav	G06T9/004	375/240.12
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
*	N	WO-03046750-A1	06-2003	WO	RACIBORSKI NATHAN F	H04L29/06027
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20181113

<i>Index of Claims</i> 	Application/Control No. 16/136,149	Applicant(s)/Patent Under Reexamination Osborne, Roland
	Examiner GLENFORD J MADAMBA	Art Unit 2451

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM			DATE							
Final	Original	11/13/2018								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
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	29	✓								
	30	✓								

<i>Search Notes</i> 	Application/Control No. 16/136,149	Applicant(s)/Patent Under Reexamination Osborne, Roland
	Examiner GLENFORD J MADAMBA	Art Unit 2451

CPC - Searched*		
Symbol	Date	Examiner
G06F17/30, H04L65/40, H04N5/76	11/13/2018	GJM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	100	11/13/2018	GJM

* 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
Dbs searched: USPAT, USPGPUB, USOCR, DERWENT, EPO, JPO, IBM-TDB	11/13/2018	GJM

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"20080168133"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:15
S2	1786	709/205.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:15
S3	82	video and progressive near3 playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:16
S4	4	S3 and trick\$1play	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:16
S5	9	(trick near1 play) and progressive near3 playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:18
S6	2	"20030077071"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:22
S7	249	(trick near1 play) and progressive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:23
S8	238	S7 and (video, mpeg, movie) and	US-PGPUB;	OR	ON	2009/09/25

		stream	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			15:23
S9	222	S8 and sequence	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:24
S10	171	S9 and (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:24
S11	164	S10 and playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:25
S12	156	S11 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:25
S13	128	S12 and index	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:25
S14	127	S13 and buffer\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:26
S15	0	S14 and key near2 frame\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:26
S16	127	S14 and frame\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2009/09/25 15:27

			IBM_TDB			
S17	13	trick\$1play and playback with progressive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:30
S18	127	S16 and progressive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:34
S19	0	S18 and flush\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:35
S20	9	S7 and flush\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:35
S21	13	playback same progressive and trick\$1play	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/25 15:53
S22	238	download\$3 same mask same bits	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 11:56
S23	89	download\$3 with mask same bits	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 11:56
S24	1	S22 and (trick\$1play)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 11:57
S25	8	S22 and (playback, progressive) and stream\$3	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2009/09/28 11:57

			EPO; JPO; DERWENT; IBM_TDB			
S26	9	S22 and (playback, progressive) and download near5 (engine, module, manager)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 11:59
S27	292	download\$3 same mask\$3 same bits	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 12:01
S28	34	S27 and (playback, progressive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 12:01
S29	2713	download\$3 and bit near2 mask\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 12:12
S30	116	download\$3 same bit near2 mask\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 12:12
S31	8	S30 and (playback, progressive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 12:12
S32	383	bit near2 mask\$3 and download\$3 and (playback, progressive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 12:16
S33	8	bit near2 mask\$3 same download\$3 and (playback, progressive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 12:16
S34	309	sparse near2 file	US-PGPUB; USPAT;	OR	ON	2009/09/28 18:56

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S35	37	S34 and allocat\$3 near3 zero\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 18:57
S36	31	("media file") same menu same sequence	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 19:00
S37	2	("media file") same menu same "media sequence"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 19:04
S38	1454	download adj (manager, engine, module)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 19:10
S39	16	S38 and file adj pars\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 19:10
S40	1	S39 and engine with playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 19:10
S41	9	S39 and engine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 19:11
S42	1	S39 and engine and playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/28 19:11

S43	297	(trick near1 play) and progressive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:11
S44	286	S43 and (video, mpeg, movie) and stream	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:11
S45	267	S44 and sequence	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:11
S46	213	S45 and (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:11
S47	175	S46 and playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:11
S48	164	S47 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:11
S49	132	S48 and index	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:11
S50	131	S49 and buffer\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:11
S51	131	S50 and frame\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2010/06/21 15:11

			DERWENT; IBM_TDB			
S52	131	S51 and progressive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:11
S53	0	S52 and client near2 request\$3 near3 (bytes)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:12
S54	0	S52 and client near2 request\$3 same bytes	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:13
S55	0	S52 and client near2 request\$3 same byt adj ranges	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:13
S56	0	S52 and client near2 request\$3 same byte adj ranges	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:13
S57	26	(US-20080168133-\$ or US- 20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US- 20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US- 20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US- 20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US- 20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US- 20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US- 20050021935-\$).did. or (US-7412149- \$ or US-RE36752-\$ or US-5815166-\$ or US-5764243-\$).did. or (US- 20090132721-\$ or US-20080168133- \$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2010/06/21 15:13
S58	19	S57 and (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:16

S59	4	S57 and client same (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:16
S60	0	S51 and client same (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:18
S61	0	S51 and request\$3 with (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:19
S62	1684	client same request\$3 with (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:19
S63	4	S44 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:19
S64	4	S43 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:20
S65	106	S45 and media with (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:24
S66	101	S65 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:24
S67	0	S66 and client near5 request\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2010/06/21 15:24

			DERWENT; IBM_TDB			
S68	0	S66 and device near5 request\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:25
S69	96	S66 and request\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:25
S70	172	S45 and (determin\$3, identif\$3, request\$3) same (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:26
S71	17	S70 and trick\$1play	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:27
S72	10	S71 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:28
S73	155	S70 not S71	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:38
S74	10	progressive near3 playback and media with (byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:39
S75	13	progressive near3 playback and media same(byte\$1, "byte range")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:43
S76	5	progressive near3 playback and bytes and byte near3 range\$1	US-PGPUB; USPAT; USOCR;	OR	ON	2010/06/21 15:46

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S77	619	progressive near3 (playback, distribution)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:47
S78	10980	byte\$1 with range\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:47
S79	5	S77 and S78	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:47
S80	1	"7734806".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 15:55
S81	2	"20090271525"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 16:09
S82	4	progressive near2 playback and (mask, bitmask)	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/07/01 13:10
S83	8	progressive near2 playback and (mask, bitmask)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:10
S84	0	progressive near2 playback and (bitmask)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:15
S85	3	byte adj range same (bitmask)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2010/07/01 13:16

			EPO; JPO; DERWENT; IBM_TDB			
S86	2	"20060129909"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:18
S87	1	(partial, portion) near3 file with download\$3 same (mask, bitmask)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:21
S88	524	progressive near2 download\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:22
S89	0	progressive near2 download\$3 same (mask, bitmask)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:23
S90	36	progressive near2 download\$3 and (mask, bitmask)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:23
S91	29	S90 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:24
S92	4	S90 and (@ad<"20070105" and @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:24
S93	1	byte adj range same download\$3 same (mask, bitmask)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/01 13:33
S94	127554	playback	US-PGPUB; USPAT;	OR	ON	2010/09/14 14:42

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S95	9338	S94 and media near2 file\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/14 14:43
S96	26	S94 and media near2 file\$1 same mask	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/14 14:43
S97	340	byte\$1 with range\$1 same mask	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:43
S98	2	byte\$1 with range\$1 same mask same download\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:43
S99	45	progressive near2 (download\$3 playback) and (mask, bitmask)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:44
S100	8	S99 and byte near4 range\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:44
S101	1535	386/68.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:48
S102	5	S101 and progressive near2 (download\$3 playback)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:48

S103	0	S101 and progressive near2 (download\$3 playback) and mask	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:49
S104	3775	709/231.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:50
S105	80	S104 and progressive near2 (download\$3 playback)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:51
S106	32	S105 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:51
S107	0	S106 and mask\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 13:51
S108	3928442	@ad>="20060105" and @ad<="20080105"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/27 14:23
S117	2465	709/205.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 16:59
S118	119	video and progressive near3 playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:00
S119	1	S117 and S118	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2011/06/17 17:00

			DERWENT; IBM_TDB			
S120	6	S118 and trick\$1play	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:00
S121	357	(trick near1 play) and progressive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:01
S122	342	S121 and (video, mpeg, movie) and stream	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:01
S123	357	(trick near1 play) and progressive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:02
S124	262	S123 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:02
S125	177	S124 and index	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:02
S126	169	S125 and buffer\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:02
S127	160	386/68.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:03
S128	0	S127 and progressive near2 (download\$3 playback)	US-PGPUB; USPAT; USOCR;	OR	ON	2011/06/17 17:03

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S129	4424	709/231.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:04
S130	120	S129 and progressive near2 (download\$3 playback)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:04
S131	41	S130 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:04
S132	2	"7886069".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/17 17:04
S133	33	(US-20080168133-\$ or US- 20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US- 20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US- 20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US- 20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US- 20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US- 20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US- 20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US- 20050104887-\$ or US-20040086119-\$ or US-20090055417-\$).did. or (US- 7412149-\$ or US-RE36752-\$ or US- 5815166-\$ or US-5764243-\$ or US- 6633339-\$ or US-RE40107-\$).did. or (US-20090132721-\$ or US- 20080168133-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/07/04 10:13
S134	59	(US-20080168133-\$ or US- 20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US- 20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US- 20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US- 20090003447-\$ or US-20090003446-\$	US-PGPUB; USPAT; DERWENT	OR	ON	2011/11/17 13:48

		or US-20090002379-\$ or US-20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US-20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US-20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US-20050104887-\$ or US-20040086119-\$ or US-20090055417-\$).did. or (US-7412149-\$ or US-RE36752-\$ or US-5815166-\$ or US-5764243-\$ or US-6633339-\$ or US-RE40107-\$).did. or (US-20090132721-\$ or US-20080168133-\$).did.				
S135	6	S134 and play\$1back same client	US-PGPUB; USPAT; DERWENT	OR	ON	2011/11/17 13:49
S136	69	trick\$1play and playback and progressive and (client, device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:03
S137	22	S136 and media near2 file\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:03
S138	22	S137 and (sequence, portions, frames)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:05
S139	520	(trick\$1play, progressive) with playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:09
S140	61853	media near3 file\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:09
S141	45548	media near2 file\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:09
S142	161	S139 and S141	US-PGPUB; USPAT;	OR	ON	2011/11/17 14:09

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S143	80	S142 and client and (sequence, "byte ranges")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:10
S144	48	S143 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:11
S145	48	S144 and (index, "key frame", start)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:14
S146	231	progressive adj (playback, download) same client	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:31
S147	3	S146 and trickplay	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:31
S148	127	S146 and media near2 file\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:32
S149	119	S148 and (segment\$1, portions)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:32
S150	23	S149 and media near2 sequence	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:32

S151	23	S150 and (index, start)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:32
S152	13	S151 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:35
S153	106	S146 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:45
S154	65	S153 and media near2 file\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:45
S155	40	S154 and (index, "key frame", start) and sequence	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:45
S156	108	progressive adj (playback, download) same client and (receiver, "receiver system")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:48
S157	32	S156 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:48
S158	76	(trickplay, "progressive download", "progressive playback") same playback near2 (engine, device, client, terminal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 14:52
S159	35	S158 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2011/11/17 14:52

			DERWENT; IBM_TDB			
S160	9	"7500010".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/11/17 15:15
S161	8	S134 and subtitle	US-PGPUB; USPAT; DERWENT	OR	ON	2011/11/17 17:13
S162	43	(US-20080168133-\$ or US-20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US-20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US-20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US-20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US-20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US-20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US-20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US-20050104887-\$ or US-20040086119-\$ or US-20090055417-\$ or US-20110099225-\$).did. or (US-20100198943-\$ or US-20080124050-\$ or US-20060248216-\$ or US-20060092938-\$ or US-20110064146-\$ or US-20070209005-\$ or US-20080267272-\$ or US-20080075419-\$).did. or (US-7412149-\$ or US-RE36752-\$ or US-5815166-\$ or US-5764243-\$ or US-6633339-\$ or US-RE40107-\$ or US-7500010-\$).did. or (US-20090132721-\$ or US-20080168133-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/10 17:06
S163	308	(client, "playback device") with request\$3 with byte near2 (range\$1, segments, portions, chunks)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/13 12:17
S164	156	(client, "playback device") near2 request\$3 with byte adj (range\$1, segments, portions)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/13 12:18
S165	104	S164 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/13 12:18

S166	0	S165 and "trick play"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/13 12:22
S167	28	S165 and ("fast forward", playback, rewind)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/13 12:22
S168	0	S167 and (bit, byte) near3 mask	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/13 13:13
S169	4	byte near2 (range\$1, segments, portions, chunks) same download\$3 with mask	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/13 13:14
S170	45	(US-20080168133-\$ or US-20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US-20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US-20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US-20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US-20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US-20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US-20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US-20050104887-\$ or US-20040086119-\$ or US-20090055417-\$ or US-20110099225-\$).did. or (US-20100198943-\$ or US-20080124050-\$ or US-20060248216-\$ or US-20060092938-\$ or US-20110064146-\$ or US-20070209005-\$ or US-20080267272-\$ or US-20080075419-\$).did. or (US-7412149-\$ or US-RE36752-\$ or US-5815166-\$ or US-5764243-\$ or US-6633339-\$ or US-RE40107-\$ or US-7500010-\$ or US-7895311-\$ or US-7886069-\$).did. or (US-20090132721-\$ or US-20080168133-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/13 15:27
S171	4	S170 and sparse near2 file	US-PGPUB; USPAT	OR	OFF	2012/12/13 15:27
S172	3	S170 and sequences same menu	US-PGPUB; USPAT	OR	OFF	2012/12/13 15:28

S173	5	S170 and sequences and menu	US-PGPUB; USPAT	OR	OFF	2012/12/13 15:29
S174	8	S170 and key near2 frame\$1	US-PGPUB; USPAT	OR	OFF	2012/12/13 15:53
S175	7	S170 and buffer\$3 with play\$3 near2 back	US-PGPUB; USPAT	OR	OFF	2012/12/13 16:03
S176	26	S170 and index	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/13 16:15
S177	8	S170 and sequence same index	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/13 16:15
S178	4	S170 and sequences and menu same select\$3 same (audio, video)	US-PGPUB; USPAT	OR	OFF	2012/12/13 16:25
S180	45	(US-20080168133-\$ or US- 20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US- 20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US- 20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US- 20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US- 20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US- 20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US- 20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US- 20050104887-\$ or US-20040086119-\$ or US-20090055417-\$ or US- 20110099225-\$).did. or (US- 20100198943-\$ or US-20080124050-\$ or US-20060248216-\$ or US- 20060092938-\$ or US-20110064146-\$ or US-20070209005-\$ or US- 20080267272-\$ or US-20080075419-\$).did. or (US-7412149-\$ or US- RE36752-\$ or US-5815166-\$ or US- 5764243-\$ or US-6633339-\$ or US- RE40107-\$ or US-7500010-\$ or US- 7895311-\$ or US-7886069-\$).did. or (US-20090132721-\$ or US- 20080168133-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/13 17:51
S181	10	S180 and flush\$3	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/13 17:52
S182	2	"20030077071"	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/13 17:53
S183	29	S180 and buffer\$3	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/13 18:32
S184	11	S180 and subtitle	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/13 19:49
S185	42	S180 and (audio, video)	US-PGPUB; USPAT; DERWENT	OR	OFF	2012/12/13 19:55
S186	46	(US-20080168133-\$ or US-	US-PGPUB;	OR	OFF	2012/12/27

		20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US-20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US-20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US-20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US-20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US-20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US-20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US-20050104887-\$ or US-20040086119-\$ or US-20090055417-\$ or US-20110099225-\$).did. or (US-20100198943-\$ or US-20080124050-\$ or US-20060248216-\$ or US-20060092938-\$ or US-20110064146-\$ or US-20070209005-\$ or US-20080267272-\$ or US-20080075419-\$ or US-20030077071-\$).did. or (US-7412149-\$ or US-RE36752-\$ or US-5815166-\$ or US-5764243-\$ or US-6633339-\$ or US-RE40107-\$ or US-7500010-\$ or US-7895311-\$ or US-7886069-\$).did. or (US-20090132721-\$ or US-20080168133-\$).did.	USPAT; DERWENT			23:02
S187	83	(US-20080168133-\$ or US-20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US-20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US-20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US-20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US-20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US-20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US-20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US-20050104887-\$ or US-20040086119-\$ or US-20090055417-\$ or US-20110099225-\$).did. or (US-20100198943-\$ or US-20080124050-\$ or US-20060248216-\$ or US-20060092938-\$ or US-20110064146-\$ or US-20070209005-\$ or US-20080267272-\$ or US-20080075419-\$ or US-20030077071-\$).did. or (US-7412149-\$ or US-RE36752-\$ or US-5815166-\$ or US-5764243-\$ or US-6633339-\$ or US-RE40107-\$ or US-7500010-\$ or US-7895311-\$ or US-7886069-\$).did. or (US-20090132721-\$ or US-20080168133-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2013/10/07 13:59
S188	11	S187 and index same (portion\$1, fragment\$1)	US-PGPUB; USPAT; DERWENT	OR	OFF	2013/10/07 14:00
S189	1432	progressive near3 (playback,	US-PGPUB;	OR	OFF	2013/10/07

		download\$3)	USPAT; DERWENT			14:06
S190	451	S189 and (media, transport) near2 stream	US-PGPUB; USPAT; DERWENT	OR	OFF	2013/10/07 14:07
S191	71	S190 and byte near2 range\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/10/07 14:07
S192	58	S191 and index	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/10/07 14:08
S193	10	S192 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/10/07 14:08
S194	51	(media, transport) near2 stream same byte near2 range\$1	US-PGPUB; USPAT; DERWENT	OR	OFF	2013/10/07 14:18
S195	43	S194 and index	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/10/07 14:19
S196	3	S195 and @ad<"20070105"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/10/07 14:19
S198	3	((("20050102371") or ("20060037057") or ("20070083663")).PN.	US-PGPUB	OR	OFF	2014/11/30 17:54
S199	0	S198 and flush\$3 and (break\$3, terminat\$3, disconnect\$3)	US-PGPUB	OR	OFF	2014/11/30 17:58
S211	50	(US-20080168133-\$ or US-20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US-20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US-20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US-20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US-20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US-20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US-	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/01 16:25

		20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US-20050104887-\$ or US-20040086119-\$ or US-20090055417-\$ or US-20110099225-\$).did. or (US-20100198943-\$ or US-20080124050-\$ or US-20060248216-\$ or US-20060092938-\$ or US-20110064146-\$ or US-20070209005-\$ or US-20080267272-\$ or US-20080075419-\$ or US-20030077071-\$ or US-20070204115-\$ or US-20080022005-\$ or US-20070157267-\$).did. or (US-7412149-\$ or US-RE36752-\$ or US-5815166-\$ or US-5764243-\$ or US-6633339-\$ or US-RE40107-\$ or US-7500010-\$ or US-7895311-\$ or US-7886069-\$ or US-7783773-\$).did. or (US-20090132721-\$ or US-20080168133-\$).did.				
S212	27	S211 and (seek, search)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 16:26
S213	11	S212 and buffering	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 16:26
S214	5	S213 and header same video	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 16:44
S215	58896	seek and buffer\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 16:45
S216	6173	seek same buffer\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 16:45
S217	98246	S216 amd paus\$3 with play\$1back	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 16:45

S218	373	S216 and paus\$3 with play\$1back	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 16:45
S219	162	S218 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 16:46
S220	99	S219 and (bytes, byte adj range\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 16:46
S222	0	S220 and (sufficient, enough) with buffered with playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 16:47
S223	124	seek and buffer\$3 and (sufficient, enough) with buffered with playback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 16:48
S224	4	S223 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 16:48
S225	96	meta\$1data same track\$1 same video same audio same sub\$1title	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 17:34
S226	7	S225 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 17:35
S227	4	S226 and (seek, buffer\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/11/01 17:35

			DERWENT; IBM_TDB			
S228	9	S211 and seek and buffer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 17:41
S229	0	S228 and (pause,paus\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 17:44
S230	99	S220 and seek and buffer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 17:45
S231	0	S230 and subtitle near2 track\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 17:45
S232	24	S230 and subtitle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 17:45
S233	11	S211 and subtitle\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 17:46
S234	2	S211 and header same video same track\$1	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/01 18:00
S235	202	header same video near2 track\$1 same audio near2 track\$1 and subtitle\$1	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/01 18:02
S236	110	header same video near2 track\$1 same audio near2 track\$1 and subtitle\$1 near2 track\$1	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/01 18:03
S237	100	S236 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 18:03

S238	2	S237 and seek and buffer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:03
S239	1	"20050207442"	US-PGPUB	OR	OFF	2018/11/01 18:07
S240	0	S239 and header same video near2 track\$1 same audio near2 track\$1 and subtitle\$1	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/01 18:09
S241	1	S239 and header same video same audio same subtitle\$1	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/01 18:10
S242	54	(US-20080168133-\$ or US- 20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US- 20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US- 20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US- 20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US- 20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US- 20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US- 20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US- 20050104887-\$ or US-20040086119-\$ or US-20090055417-\$ or US- 20110099225-\$).did. or (US- 20100198943-\$ or US-20080124050-\$ or US-20060248216-\$ or US- 20060092938-\$ or US-20110064146-\$ or US-20070209005-\$ or US- 20080267272-\$ or US-20080075419-\$ or US-20030077071-\$ or US- 20070204115-\$ or US-20080022005-\$ or US-20070157267-\$ or US- 20020161797-\$ or US-20150104153-\$ or US-20050207442-\$).did. or (US- 7412149-\$ or US-RE36752-\$ or US- 5815166-\$ or US-5764243-\$ or US- 6633339-\$ or US-RE40107-\$ or US- 7500010-\$ or US-7895311-\$ or US- 7886069-\$ or US-7783773-\$ or US- 7917553-\$).did. or (US-20090132721- \$ or US-20080168133-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/01 18:18
S243	7	S233 and index and byte adj range\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:18
S244	0	S243 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/11/01 18:18

			DERWENT; IBM_TDB			
S245	13	S242 and index and byte adj range\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:19
S246	5	S245 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 18:19
S247	12	S242 and (fast adj forward\$4, trick\$1play, trick adj play) and buffering	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:22
S248	4	S247 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 18:23
S249	3	S242 and seek and flush\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:25
S250	17	seek same flush\$4 same audio same video	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:25
S251	3	S250 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 18:25
S252	3	S242 and asynchronous\$3 near3 request\$3 with (bytes, range\$1) and seek	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:31
S253	3	S242 and asynchronous\$3 near3 request\$3 with (bytes, range\$1)	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/11/01 18:31

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S254	3	S242 and asynchronous\$3 near3 request\$3 same (trick, fast adj forward\$3, fast adj rewind\$3, fast\$1forward\$3, fast\$1rewind\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:32
S255	3	S242 and asynchronous\$3 near3 request\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:33
S256	9	asynchronous\$3 near3 request\$3 same byte adj ranges	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:33
S257	2	S256 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 18:33
S258	0	asynchronous\$3 near3 request\$3 same video adj (tracks, chunks) same audio adj (tracks, chunks)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:34
S259	0	asynchronous\$3 near3 request\$3 same video same audio same subtitle\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:35
S260	92	asynchronous\$3 near3 request\$3 same video same audio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:35
S261	33	S260 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 18:35
S262	0	S261 and byte adj ranges	US-PGPUB;	OR	OFF	2018/11/01

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:35
S263	0	S261 and subtitles	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:36
S264	4	asynchronous\$3 near3 request\$3 and video adj (tracks, chunks) same audio adj (tracks, chunks)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:37
S265	11	S242 and asynchronous\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:38
S266	8	S265 not S255	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:38
S267	191	request\$3 with asynchronous\$3 same tracks	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:40
S268	7	request\$3 with asynchronous\$3 same tracks same (video, audio)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/11/01 18:40
S269	0	S268 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 18:40
S270	143	request\$3 with asynchronous\$3 and byte near3 ranges	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/11/01 18:41

			IBM_TDB			
S271	36	S270 and (@ad<"20070105" or @rlad<"20070105")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 18:41
S272	6	S271 and seek	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/11/01 18:45
S273	0	S242 and partial\$4 near3 decrypt\$4	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/01 18:47
S274	2	S242 and partial\$4 near3 encrypt\$4	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/01 18:48
S275	4	((("20050207442") or ("20020161797") or ("20070162568") or ("7917553")).PN.	US-PGPUB; USPAT	OR	OFF	2018/11/12 19:12
S276	1	"20050207442"	US-PGPUB	OR	OFF	2018/11/12 19:34
S277	1	S276 and (header, file) same audio same video same subtitle same tracks	US-PGPUB	OR	OFF	2018/11/12 19:35
S278	0	S275 and buffer\$4 near5 bytes	US-PGPUB	OR	OFF	2018/11/12 19:50
S279	2	S275 and buffer\$4 and (bytes, byte adj ranges)	US-PGPUB	OR	OFF	2018/11/12 19:51
S280	0	S275 and buffer\$4 same (bytes, byte adj ranges)	US-PGPUB	OR	OFF	2018/11/12 19:51
S281	1	"20050207442"	US-PGPUB	OR	OFF	2018/11/12 22:59
S282	1	S281 and header same video	US-PGPUB	OR	OFF	2018/11/12 22:59
S283	4	((("20050207442") or ("20020161797") or ("20070162568") or ("7917553")).PN.	US-PGPUB; USPAT	OR	OFF	2018/11/12 23:58
S284	0	S283 and (flush\$3, discar\$3) with buffer with (bytes, audio, video)	US-PGPUB; USPAT	OR	OFF	2018/11/12 23:59
S285	57	(US-20080168133-\$ or US-20090132599-\$ or US-20090132721-\$ or US-20090169181-\$ or US-20060093318-\$ or US-20080219393-\$ or US-20090228920-\$ or US-20080205860-\$ or US-20070110391-\$ or US-20030169815-\$ or US-20090003447-\$ or US-20090003446-\$ or US-20090002379-\$ or US-20040067043-\$ or US-20070092211-\$ or US-20090067367-\$ or US-20070106863-\$ or US-20080177793-\$ or US-20080082576-\$ or US-20050021935-\$ or US-20100094965-\$ or US-20070220118-\$ or US-	US-PGPUB; USPAT; DERWENT	OR	OFF	2018/11/12 23:59

		20050104887-\$ or US-20040086119-\$ or US-20090055417-\$ or US-20110099225-\$).did. or (US-20100198943-\$ or US-20080124050-\$ or US-20060248216-\$ or US-20060092938-\$ or US-20110064146-\$ or US-20070209005-\$ or US-20080267272-\$ or US-20080075419-\$ or US-20030077071-\$ or US-20070204115-\$ or US-20080022005-\$ or US-20070157267-\$ or US-20020161797-\$ or US-20150104153-\$ or US-20050207442-\$ or US-20070162568-\$ or US-20070244894-\$).did. or (US-7412149-\$ or US-RE36752-\$ or US-5815166-\$ or US-5764243-\$ or US-6633339-\$ or US-RE40107-\$ or US-7500010-\$ or US-7895311-\$ or US-7886069-\$ or US-7783773-\$ or US-7917553-\$ or US-5630005-\$).did. or (US-20090132721-\$ or US-20080168133-\$).did.				
S286	0	S285 and (flush\$3, discar\$3) with buffer with (bytes, audio, video)	US-PGPUB; USPAT	OR	OFF	2018/11/12 23:59
S287	23	S285 and (flush\$3, discar\$3)	US-PGPUB; USPAT	OR	OFF	2018/11/12 23:59
S288	8	S285 and (flush\$3, discar\$3) same buffer	US-PGPUB; USPAT	OR	OFF	2018/11/12 23:59
S289	6	S285 and discar\$3 same buffer	US-PGPUB; USPAT	OR	OFF	2018/11/13 00:04
S290	5	S285 and asynchronous\$3 with request\$3	US-PGPUB; USPAT	OR	OFF	2018/11/13 00:20
S291	8	S285 and index same byte near2 range\$1	US-PGPUB; USPAT	OR	OFF	2018/11/13 00:26

EAST Search History (I nterference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S109	3871	709/231.ccls.	US-PGPUB; USPAT	OR	ON	2010/09/27 14:22
S110	16	S109 and progressive near2 (download\$3 playback)	USPAT	OR	ON	2010/09/27 14:22
S111	0	S110 and mask	USPAT	OR	ON	2010/09/27 14:22
S112	323632	@ad> = "20060105" and @ad< = "20080105"	USPAT	OR	ON	2010/09/27 14:23
S113	188	S109 and S112	USPAT	OR	ON	2010/09/27 14:23
S114	188	S109 and S112	US-PGPUB; USPAT	OR	ON	2010/09/27 14:24
S115	5	S110 and S114	US-PGPUB; USPAT	OR	ON	2010/09/27 14:24
S116	0	S115 and mask	US-PGPUB;	OR	ON	2010/09/27 14:24

			USPAT			
S200	7137	709/231.ccls.	US-PGPUB; USPAT	OR	ON	2014/11/30 17:31
S201	292	S200 and progressive near2 (download\$3 playback)	US-PGPUB; USPAT	OR	ON	2014/11/30 17:35
S202	228	S201 and buffer\$3	US-PGPUB; USPAT	OR	OFF	2014/11/30 17:36
S203	4	S202 and (media, transport) near2 stream same byte near2 range\$1	US-PGPUB; USPAT	OR	OFF	2014/11/30 17:36
S204	4	S203 and index\$3	US-PGPUB; USPAT	OR	OFF	2014/11/30 17:37
S205	0	S204 and flush\$3 near2 (bytes, byte adj range\$1)	US-PGPUB; USPAT	OR	OFF	2014/11/30 17:39
S206	1177046	@ad> = "20060105" and @ad< = "20080105"	US-PGPUB; USPAT	OR	ON	2014/11/30 17:39
S207	264	S206 and progressive near2 (download\$3 playback)	US-PGPUB; USPAT	OR	ON	2014/11/30 17:40
S208	153	S207 and buffer\$3	US-PGPUB; USPAT	OR	OFF	2014/11/30 17:40
S209	0	S208 and (media, transport) near2 stream same byte near2 range\$1	US-PGPUB; USPAT	OR	OFF	2014/11/30 17:40
S210	0	S208 and stream same byte near2 range\$1	US-PGPUB; USPAT	OR	OFF	2014/11/30 17:40

11/ 13/ 2018 1:49:25 PM

C:\Users\gmadamba\Documents\EAST\Workspaces\16136149_CON of 12982413_2018-11-12.wsp

Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Field

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16/136,149
	Filing Date	September 19, 2018
	First Named Inventor	Roland Osborne
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

201200365442011-10-06U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6742082	B1	2004-05-25	Lango et al.	
		7664872	B2	2010-02-16	Osborne, Roland et al.	
		7734806		2010-06-08	Park, J.	
		7886069		2011-02-08	Osborne, R.	
		7895311	B1	2011-02-22	Juenger, Arthur W.	
		8731369	B2	2014-05-20	Li et al.	
		8977768		2015-03-10	Osborne, Roland	
		9794318	B2	2017-10-17	Osborne	

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		20030077071	A1	2003-04-24	Lin, S. et al.	
		20050102371	A1	2005-05-12	Aksu, Emre	
		20050207442	A1	2005-09-22	Van Zoest et al.	
		20060037057	A1	2006-02-16	Xu, Shugong	
		20060093318	A1	2006-05-04	Cohen, N. et al.	
		20060129909	A1	2006-06-15	Butt, Abou U. et al.	
		20060161635	A1	2006-07-20	Lamkin, Allan et al.	
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		20060174021	A1	2006-08-03	Osborne, Roland et al.	
		20060174026	A1	2006-08-03	Robinson, Aaron et al.	
		20060195884	A1	2006-08-31	Van Zoest, Alexander et al.	
		20060200744	A1	2006-09-07	Bourke, Adrian et al.	
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		20070157267	A1	2007-07-05	Lopez-Estrada, Alex A.	
		20070209005	A1	2007-09-06	Shaver, Robert et al.	
		20070220118	A1	2007-09-20	Loyer, D. E.	

Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Field

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	Attorney Docket Number	D1-00642.CON4

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		20080177793	A1	2008-07-24	Epstein et al.	
		20090067367	A1	2009-03-12	Buracchini et al.	
		20100198943	A1	2010-08-05	Harrang, J. P. et al.	
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		2001006788	WO	A1	2001-01-25	Ellis, M et al.		
		2306524	CA	A1	2001-09-30	Reichmann et al.		
		2003504984	JP		2003-02-04	Ellis, M. et al.		
		2003111048	JP		2003-04-11	Nobuyuki, N.		
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		2003088665	WO	A1	2003-10-23	Moriya, Yoshimi et al.		
		2004295568	JP		2004-10-21	Yoshikawa, Norifumi et al.		
		2004362099	JP		2004-12-24	Igarashi, Takuya et al.		
		1575595	CN	A	2005-02-02	Shu, Lin et al.		
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		1596403	CN	A	2005-03-16	Thompson, Mark		
		1534013	EP	A1	2005-05-25	Takemura, S. et al.		
		2005149029	JP		2005-06-09	Tanabe, Takumi et al.		
		2005057906	WO	A2	2005-06-23	Grab, Eric et al.		
		2005518726	JP		2005-06-23	Chiu, Tom		
		2005341334	JP	A	2005-12-08	Yagi, Ryota et al.		
		2006074511	JP	A	2006-03-16	Kato, Eiji		

Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Field

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	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

		2006045334	WO	A1	2006-05-04	Buracchini, T. et al.		
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		2008086313	WO	A1	2008-07-17	Osborne et al.		
		2122482	EP	A1	2009-11-25	Osborne, Roland et al.		
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		2010516123	JP	A	2010-05-13	Osborne, Roland		
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		103559165	CN	A	2014-02-05	Osborne, Roland et al.		
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		103559165	CN	B	2016-08-17	Osborne, Roland		
		103561278	CN	B	2017-04-12	Osborne, Roland		

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Examiner Initials*	Cite No	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 5
		Adobe - Development Center: Flash video learning guide, printed 1/13/09 from http://www.adobe.com/devnet/flash/articles/video_guide_02.html , 5 pgs.	
		International Preliminary Report on Patentability for International Application No. PCT/US2008/050440, Report Completed August 7, 2009, Mailed August 11, 2009, 8 pgs.	
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		RedOrbit News, New DivX Web Player Hits 1 Milling Downloads in One Week, printed 1/13/09 from http://www.redorbit.com/modules/news/tools.php?tool=print&id=421307 , 2 pgs.	
		Vuze HD Network, printed June 1, 2009 from http://www.vuze.com/Index.html , 1 pg.	
		Written Opinion of international Application No PCT/US2008/050440; International filing date January 7, 2008, Opinion completed April 23, 2008, Mailed May 16, 2008, 9 pgs.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.J.M/

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Field

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

		FIELDING ET AL., "Hypertext Transfer Protocol -- HTTP1.1", Network Working Group, RFC 2616, June 1999, 114 pgs.	
EXAMINER SIGNATURE			
Examiner Signature	/GLENFORD J MADAMBA/	Date Considered	11/13/2018
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Bibliographic Data

Application No: 16/136,149

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35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged:

/GLENFORD J MADAMBA/

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Initials

Title:

Systems and Methods for Seeking Within Multimedia Content During Streaming Playback

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/19/2018	709	2451	D1-00642.CON4
RULE			

APPLICANTS

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CONTINUING DATA

This application is a CON of 15682379 08/21/2017

15682379 is a CON of 14632670 02/26/2015 PAT 9794318

14632670 is a CON of 12982413 12/30/2010 PAT 8977768

12982413 is a CON of 11970493 01/07/2008 PAT 7886069

11970493 has PRO of 60883659 01/05/2007

FOREIGN APPLICATIONS

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10/10/2018

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	892	11/19/2018	D1-00642.CON4
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16/136,149	09/19/2018	Roland Osborne	D1-00642.CON4

CONFIRMATION NO. 1778

71897
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Anaheim, CA 92806

PUBLICATION NOTICE



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Title:Systems and Methods for Seeking Within Multimedia Content During Streaming Playback

Publication No.US-2019-0020704-A1

Publication Date:01/17/2019

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/Agnes Poon/
Agnes Poon

Appl No. : 16/136,149 Confirmation No. 1778
Applicant : DIVX, LLC
Filed : September 19, 2018
Title : Systems and Methods for Seeking Within Multimedia Content During Streaming Playback
TC/A.U. : 2451
Examiner : Glenford J. Madamba
Docket No. : D1-00642.CON4
Customer No. : 71897

AMENDMENT

Mail Stop Amendment
Commissioner for Patents 2190 S. Towne Centre Place, Suite 300
P.O. Box 1450 Anaheim, CA 92806
Alexandria, VA 22313-1450 February 19, 2019

Commissioner:

In response to the Office action mailed November 19, 2018, please amend the above-identified application as follows:

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

Remarks/Arguments begin on page 11 of this paper.

Amendments to the Claims:

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

Listing of Claims:

1. (Currently Amended) A playback device, comprising:
a processor; and
a non-volatile storage containing an application for causing the processor to perform the steps of:
establishing at least one connection for communicating with a remote server system;
obtaining information from a remote server system describing at least one video track, multiple audio tracks, and multiple subtitle tracks;
selecting a video track from the at least one video track;
requesting a header describing the ~~at least one~~ selected video track;
selecting an audio track from the multiple audio tracks;
obtaining index information indicating the locations of audio and video data within the selected audio and video tracks;
determining byte ranges to request from the selected audio and video tracks using the index information;
requesting byte ranges from the selected video track and the selected audio track from the remote server system;
buffering received bytes of information;
checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data;
respond to a received seek instruction by:
pausing playback;
determining byte ranges to request from the selected audio and video tracks based upon a new playback location using the index information;

requesting byte ranges required to play the media sequence from the new playback location from the remote server;

buffering received bytes of information pending resumption of playback; and

checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data.

2. (Currently Amended) The playback device of claim 1, wherein the application is further capable of causing the processor to asynchronously request byte ranges from the selected video track and the selected audio track from the remote server.

3. (Currently Amended) The playback device of claim 1, wherein the step of requesting a header describing the selected ~~at least one~~ video track comprises the step of requesting a DRM header.

4. (Original) The playback device of claim 3, wherein the application is further capable of causing the processor to perform the step of decrypting the DRM header.

5. (Original) The playback device of claim 3, wherein:
the DRM header identifies at least one key; and
the application is further capable of causing the processor to perform the steps of decrypting encrypted frames of video using the at least one key prior to decoding.

6. (Original) The playback device of claim 5, wherein:
encrypted frames of video are only partially encrypted;
the received bytes of information contain references to portions of video frames that are encrypted; and

the step of decrypting encrypted frames of video using the at least one key prior to decoding further comprises decrypting encrypted portions of frames of video using the references to the portions of the video frames that are encrypted.

7. (Cancelled)

8. (Currently Amended) The playback device of claim [[7]]1, wherein playing back the buffered video data from the requested byte ranges provides fast forward trick play.

9. (Currently Amended) The playback device of claim [[7]]1, wherein playing back the buffered video data from the requested byte ranges provides fast rewind trick play.

10. (Original) The playback device of claim 1, wherein the application is further capable of causing the processor to perform the step of discarding audio and video data contained within the buffer in response to a received seek instruction.

11. (Currently Amended) The playback device of claim 1, wherein the application is further capable of causing the processor to perform the steps of:
selecting a subtitle track from the multiple subtitle tracks;
requesting data from the selected subtitle track from the remote server system, where the data contains subtitle text; and
superimposing the subtitle text over video during playback.

12. (Currently Amended) A playback device, comprising:
a processor; and
a non-volatile storage containing an application for causing the processor to perform the steps of:

establishing at least one connection for communicating with a remote server system;

obtaining information from a remote server system describing at least one video track, ~~and multiple at least one audio track[[s]], and multiple subtitle tracks;~~
selecting a video track from the at least one video track;

requesting a header describing the ~~selected at least one~~ video track, where the requested header comprises a DRM header;

decrypting the DRM header;

selecting an audio track from the ~~at least one multiple~~ audio track[[s]];

obtaining index information indicating the locations of audio and video data within the selected audio and video tracks;

determining byte ranges to request from the selected audio and video tracks using the index information;

creating a buffer;

requesting byte ranges from the video track and the audio track from the remote server system;

buffering received bytes of information;

checking that sufficient data is buffered to commence playback;

decrypting encrypted frames of video using information from the decrypted DRM header;

playing back the buffered audio and the decrypted video data;

respond to a received seek instruction by:

 pausing playback;

 discarding buffered audio and video data;

determining byte ranges to request from the selected audio and video tracks based upon a new playback location using the index information;

 requesting byte ranges required to play the media sequence from the new playback location from the remote server;

buffering received bytes of information pending resumption of playback; [[and]]
checking that sufficient data is buffered to commence playback;
decrypting encrypted frames of video using information from the decrypted DRM header; and
playing back the buffered audio and decrypted video data.

13. (Original) The playback device of claim 12, wherein:
the DRM header identifies at least one key; and
the step of decrypting encrypted frames of video using information from the decrypted DRM header comprises decrypting encrypted frames of video using the at least one key prior to decoding.

14. (Original) The playback device of claim 13, wherein:
encrypted frames of video are only partially encrypted;
the received bytes of information contain references to portions of video frames that are encrypted; and
the step of decrypting encrypted frames of video using the at least one key prior to decoding further comprises decrypting encrypted portions of frames of video using the references to the portions of the video frames that are encrypted.

15. (Currently Amended) The playback device of claim 12, wherein the application is further capable of causing the processor to asynchronously request byte ranges from the selected video track and the selected audio track from the remote server.

16. (Cancelled)

17. (Currently Amended) The playback device of claim [[16]]12, wherein playing back the buffered video data from the requested byte ranges provides fast forward trick play.

18. (Currently Amended) The playback device of claim [[16]]12, wherein playing back the buffered video data from the requested byte ranges provides fast rewind trick play.

19. (Currently Amended) The playback device of claim 12, wherein the application is further capable of causing the processor to perform the steps of:
obtaining information from a remote server system describing at least one subtitle track;
selecting a subtitle track from the ~~multiple~~ at least one subtitle track[[s]];
requesting data from the selected subtitle track from the remote server system, where the data contains subtitle text; and
superimposing the subtitle text over video during playback.

20. (Currently Amended) A method of playing back content on a playback device, comprising:
establishing at least one connection for communicating with a remote server system using a playback device;
obtaining information from a remote server system using the playback device, where the obtained information describes at least one video track, multiple audio tracks, and multiple subtitle tracks;
selecting a video track from the at least one video track;
requesting a header describing the at least one video track using the playback device;
selecting an audio track from the multiple audio tracks using the playback device;
obtaining index information indicating the locations of audio and video data within the selected audio and video tracks;

determining byte ranges to request from the selected audio and video tracks using the index information;

requesting byte ranges from the selected video track and the selected audio track from the remote server system using the playback device;

buffering received bytes of information on the playback device;

checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data using the playback device;

responding to receipt of a seek instruction at the playback device by:

pausing playback on the playback device;

determining byte ranges to request from the selected audio and video tracks based upon a new playback location using the index information;

requesting byte ranges required to play the media sequence from the new playback location from the remote server using the playback device;

buffering received bytes of information pending resumption of playback using the playback device; and

checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data using the playback device.

21. (Currently Amended) The method of claim 20, further comprising asynchronously requesting byte ranges from the selected video track and the selected audio track from the remote server using the playback device.

22. (Currently Amended) The method of claim 20, wherein requesting a header describing the selected ~~at least one~~ video track further comprises requesting a DRM header using the playback device.

23. (Original) The method of claim 22, further comprising decrypting the DRM header.

24. (Original) The method of claim 23, wherein:
the DRM header identifies at least one key; and
the method further comprises decrypting encrypted frames of video using the at least one key prior to decoding using the playback device.

25. (Original) The method of claim 24, wherein:
encrypted frames of video are only partially encrypted;
the received bytes of information contain references to portions of video frames that are encrypted; and
decrypting encrypted frames of video using the at least one key prior to decoding further comprises decrypting encrypted portions of frames of video using the references to the portions of the video frames that are encrypted using the playback device.

26. (Cancelled)

27. (Currently Amended) The playback device of claim ~~[[26]]~~20, wherein playing back the buffered video data from the requested byte ranges provides fast forward trick play.

28. (Currently Amended) The playback device of claim ~~[[26]]~~20, wherein playing back the buffered video data from the requested byte ranges provides fast rewind trick play.

29. (Original) The method of claim 20, further comprising discarding audio and video data contained within the buffer in response to a received seek instruction.

30. (Original) The method of claim 20, further comprising:
selecting a subtitle track from the multiple subtitle tracks using the playback device;

requesting data from the selected subtitle track from the remote server system using the playback device, where the data contains subtitle text; and
superimposing the subtitle text over video during playback using the playback device.

31. (New) The playback device of claim 1, wherein the application is further capable of causing the processor to perform the step of flushing previous byte range requests in response to the received seek instruction.

32. (New) The playback device of claim 12, wherein the application is further capable of causing the processor to perform the step of flushing previous byte range requests in response to the received seek instruction.

33. (New) The method of claim 20, further comprising flushing previous byte range requests in response to the received seek instruction.

REMARKS/ARGUMENTS

SUMMARY OF OFFICE ACTION

In response to the Office action dated November 19, 2018, claims 1, 2, 3, 8, 9, 11, 12, 15, 17, 18, 20, 21, 22, 27, 28 and 30 are currently amended. Support for the amendments to claims 1, 12, and 20 can be found throughout the specification of the above referenced application including in ¶ [0059] – [0064], and Figs. 8 and 9. Previously pending claims 7, 16, and 26 are cancelled. Claims 8, 9, 17, 18, 27, and 28 are amended to update dependencies based upon the cancellation of claims 7, 16, and 26. Claims 2, 3, 8, 9, 11, 15, 17, 18, 21, 22, 27, 28, and 30 are also amended to conform to the amendments to independent claims 1, 12, and 20. Claims 31 – 33 are newly added and find support throughout the specification of the above referenced application including in ¶ [0009], [0048] - [0051], [0056] – [0057], and Figs. 4 and 6

SUMMARY OF OFFICE ACTION

The Office action dated November 19, 2018 contains the following objections and rejections:

- Claims 1, 3-6, 8-9, 11, 13-14, 17-20, 22-25, 27-28, and 30 are rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent Pub. 2005/0207442 by Zoest et al. (the Zoest et al. publication), in view of WIPO Publication WO 03/046750 by Thompson et al. (the Thompson et al. publication) in view of U.S. Patent Pub. 2002/0161797 by Gallo et al. (the Gallo et al. publication);
- Claims 2, 7, 15, 16, 21 and 26 are rejected under 35 U.S.C. §103(a) as being unpatentable over the Zoest et al. publication, the Thompson et al. publication, the Gallo et al. publication, in view of U.S. Patent Pub. 2007/0162568 by Gupta et al. (the Gupta et al. publication);
- Claims 10 and 29 are rejected under 35 U.S.C. §103(a) as being unpatentable over the Zoest et al. publication, the Thompson et al. publication, the Gallo et al. publication, in view of U.S. Patent Pub. 2003/0169815 by Aggarwal et al. (the Aggarwal et al. publication);

- Claims 12 is rejected under 35 U.S.C. §103(a) as being unpatentable over the Zoest et al. publication, the Thompson et al. publication, the Gallo et al. publication, the Gupta et al. publication, in view of the Aggarwal et al.

PATENTABILITY OF CLAIM 1

Claim 1 is rejected under 35 U.S.C. §103(a) as being unpatentable over the Zoest et al. publication, the Thompson et al. publication, and the Gallo et al. publication. Applicant respectfully disagrees for at least the reasons discussed below.

The Office Action is correct in observing that the Zoest et al. publication is relevant to the currently pending claims. The Zoest et al. publication is commonly assigned and describes systems and methods for encoding and decoding multimedia container files for distribution via the Internet. The above referenced Application discloses playback devices that can stream multimedia over a network by requesting byte ranges corresponding to portions of audio and/or video tracks from container files.

The specification of the above referenced application contrasts player driven approaches to streaming of multimedia via the Internet with server driven approaches:

[0005] Some systems are implemented with a server driven approach. Examples of server driven approaches include the systems described in U.S. Patent Applications Serial Nos. 11/323,044, 11/323,062, 11/327,543, and 11/322,604, the disclosure of which is incorporated herein by reference in its entirety. In these systems, the server parses the data file and determines which data to send. Network efficiency and flexibility in playback becomes a much easier task. Standard HTTP web servers however do not typically provide this functionality, and custom web servers providing this functionality often scale poorly when called upon to deliver content simultaneously to a large number of players.

The above referenced application also highlights that, at the time of the filing of the priority application, the then “[c]urrent implementations of receiver or player driven progressive playback, while suitable for the short video clips that are dominant in many current applications, are typically limited in the scope and flexibility of the progressive playback they provide. Players typically download files linearly from the beginning to end. Playback then begins when the player has buffered enough data to provide a likelihood

that the media will play without interruption... Although suitable for playback of short video clips, these methods typically do not support random seeking, trick-play and playback of remotely stored longer content such as feature length movies.” See ¶ [0004].

Accordingly, the “Summary of the Invention” section of the above referenced application introduces the disclosed media players with the following explanation:

[0007] Systems and methods are described for performing progressive playback and “trick play” functions on partially downloaded media files. Many embodiments of the invention include a receiver or player driven system supporting features such as the maintenance at all times of a full capacity download stream of only certain required data, including data in certain byte ranges, the discarding of previous requests, and the issuing of new requests for data at the highest priority. Additionally, several embodiments of the invention include features such as random file access at any point in a file, and asynchronous requests, which provide users flexibility in the playback of a file. In a number of embodiments, the systems and processes support scalability for implementation on Internet servers that store files that can contain multiple titles, titles that include multiple audio tracks, and/or titles that include one or more subtitle tracks.

[0008] In several embodiments, the ability to provide full featured progressive playback is due in part to the tight coupling of the playback engine for the media sequence (i.e., the system that decodes and plays back the encoded media) with a transport protocol that provides random access to the remote file. Interfacing of the playback engine with the transport protocol via a file parser can reduce latency and enable the client and media server to operate in parallel improving download efficiency and interactivity. In a number of embodiments, the system and processes are configured for use with files that are formatted to include an index to the data within the file and a transport protocol that allows for downloading specific byte ranges within a file.

With specific regard to the rejection of currently pending claim 1 as being unpatentable over the Zoest et al. publication, the Thompson et al. publication, and the Gallo et al. publication, Applicant respectfully submits that the combined teachings of these references fails to establish a *prima facie* case of obviousness with respect to claim 1. The rejection of claim 1 states that “[b]ut while Zoeste discloses substantial features of the invention as above, he does not explicitly disclose the additional recited feature(s) of the device performing steps further comprising **requesting byte ranges from the video track and the audio track from the remote server system** as well as **requesting**

byte ranges required to play the media sequence from the new playback location from the remote server.”

The specification of the of the Thompson et al. publication describes the following technique for requesting byte ranges required to play the media sequence from the new playback location from the remote server:

In steps 412 and 416, the file to be downloaded is analyzed. The file format can be generally determined from the filename extension. The file length in bytes is determined from a HTTP header sent before the HTTP transport of the file. Knowing the file format allows determination how the data and headers in the file are interpreted.

30 Within the file, a file header provides more information about the content within the file. Typically, bit rate, codec, and other format information is included in the file header.

Armed with this information about the content file, the location of the content within the file and format of that information is determined in step 416. For example, the filename might be “Beach Boys - Surfin’ USA.MP3” with a file size of

5

WO 03/046750

PCT/US02/38444

2,890 kiloBytes. The extension of “.MP3” signifies that the file uses a MPEG-1 audio layer 3 format. Within the standard MP3 file header, the encoding rate of 160 kilobits per second could be specified along with the track time of two minutes and twenty-seven seconds. At this point, the portion of the content file that represents the audio can be

5 determined, for example, the last 2,880 kiloBytes of the file could correspond to the audio data where the first 10 kiloBytes of the file is header information.

Applicant notes that the technique described in the Thompson et al. publication requires that the content be encoded at a constant bitrate of 160 kilobits per second. When content is encoded at a constant bitrate, the process of determine the byte range to request corresponding to a new playback location is a straightforward calculation. The Thompson et al. publication provides the example of seeking to “a position in the middle of the ‘Surfin’ USA’ song” as “[p]resuming a static encoding rate, the byte range would

begin half way through the last 2,880 kiloBytes of the file or being at 1,450 kiloBytes into the file.” The Zoest et al. publication observed that, at the time of its filing, encoding content at constant bitrates in the manner described in the Thompson et al. publication was common. However, the Zoest et al. publication is concerned with the distribution of high quality video over the Internet and the video encoding methods described in the Zoest et al. publication utilize variable bitrate encoding. In variable bitrate encoding, as observed in the Zoest et al. publication at ¶ [0502], “[t]he number of bits required to represent a frame can vary depending on the characteristics of the video sequence.” Applicant respectfully submits that a person of ordinary skill in the art would appreciate that the location of a particular playback time within a video track cannot be directly calculated from the playback time and the size of the video track in the manner described in the Thompson et al. publication, when distributing high quality video over Internet utilizing variable bitrate video encoded in the manner described in the Zoest et al. publication. Accordingly, a person of ordinary skill in the art would not have a reasonable expectation that the simple technique utilized in the Thompson et al. publication could be successfully adapted to enable seeking to a particular playback location of a file encoded using variable bitrate encoding in the manner described in the Zoest et al. publication by “requesting byte ranges required to play the media sequence from the new playback location from the remote server” as recited in claim 1.

In order to further clarify the distinction between the playback device of claim 1 and the technique utilized in the Thompson et al. publication, Applicant has amended claim 1 to specify “obtaining index information indicating the locations of audio and video data within the selected audio and video tracks” and “determining byte ranges to request from the selected audio and video tracks based upon a new playback location using the index information.”

Applicant further notes that the teachings of the Gallo et al. publication relate to “[a] software framework that allows seamless integration of generic media players into a web browser... A player-hosting peer, which is a software component built into the browser, manages generic player hosting by a web browser. The player-hosting peer negotiates playback state and rendering status between the browser and the media

player.” Accordingly, Applicant respectfully submits that a person of ordinary skill in the art would not regard the Gallo et al. publication as teaching anything relevant to the manner in which the playback device of claim 1 streams media by “obtaining index information indicating the locations of audio and video data within the audio and video tracks” and “determining byte ranges to request from the selected audio and video tracks based upon a new playback location using the index information.”

The Gupta et al. publication referenced in the statement of the rejection of previously pending claim 7 addresses server driven approaches to streaming of content. Applicant respectfully submits that a server driven approach explicitly teaches away from the playback device of claim 1 and is an example of the prior art systems discussed in ¶ [0005] of the above referenced application that the playback device of claim 1 improves upon (see excerpt above), because it enables streaming using a playback device making byte range requests instead of custom web servers similar to those proposed in the Gupta et al. publication that determine the appropriate bytes to retrieve from a file by performing a process at the server (and not the playback device) in which a “...request [received from the playback device] is passed to a read thread [on the server], which does asynchronous lookups to the content index 130 using the content identifier, computes starting byte offsets and frame lengths from the specified time range, and the opens 320 the source media file...”. See Office action, p. 14 quoting Gupta et al. publication ¶ [0036].

In view of the above, Applicant respectfully submits that currently amended claim 1 is allowable over the prior art of record taken alone or in combination. Accordingly, Applicant respectfully submits that claim 1 is allowable and requests withdrawal of the rejection of currently pending claim 1.

PATENTABILITY OF CLAIM 2 - 6 AND 8 - 11

Claims 2 - 6 and 8 - 11 depend from claim 1, Applicant respectfully submits that claims 2 - 6 and 8 - 11 are allowable for reasons including reasons similar to those outlined above with respect to claim 1.

PATENTABILITY OF CLAIMS 12 - 15, and 17 - 19

Claim 12 is rejected under 35 U.S.C. §103(a) as being unpatentable over the Zoest et al. publication, the Thompson et al. publication, the Gallo et al. publication, the Gupta et al. publication, and the Aggarwal et al. publication. For reasons similar to those discussed above with respect to currently amended claim 1, Applicant submits that claim 12 is allowable over the prior art of record. Furthermore, as claims 13 - 15 and 17 - 19 depend from claim 12, Applicant respectfully submits that claims 13 - 15 and 17 - 19 are allowable for reasons including reasons similar to those outlined above with respect to claim 12.

PATENTABILITY OF CLAIMS 20 - 25 AND 27 - 30

Claim 20 is rejected under 35 U.S.C. §103 is rejected for reasons similar to those of claim 1. Applicant submits that claim 20 is patentable for reasons similar to those discussed above with respect to claim 1. Furthermore, as claims 21 - 25 and 27 - 30 depend from claim 20, Applicant respectfully submits that claims 21 - 25 and 27 - 30 are allowable for reasons including reasons similar to those outlined above with respect to claim 1.

NEWLY ADDED CLAIMS 31 - 33

Newly added claim 31 depends from claim 1. Applicant submits that claim 31 is patentable for reasons similar to those discussed above with respect to claim 1. Newly added claim 32 depends from claim 12. Applicant submits that claim 32 is patentable for reasons similar to those discussed above with respect to claim 12. Newly added claim 33 depends from claim 20. Applicant submits that claim 33 is patentable for reasons similar to those discussed above with respect to claim 20.

CONCLUSION

In view of the foregoing amendments and remarks, it is respectfully submitted that this application is in condition for allowance. Accordingly, reconsideration of the application and allowance of the claims are respectfully requested. Although the present paper may include a combination of alterations to the application or claims, or

APPLN No. 16/136,149
REPLY TO OFFICE ACTION OF NOVEMBER 19, 2018

characterizations of claim scope or referenced art, Applicant is not conceding that previously pending claims in this application are not patentable over the cited references. Rather, any alterations and/or characterizations are made to strictly facilitate prosecution of this application. As such, reviewers of this or any parent, child, or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Applicant has submitted amendments and arguments believed to be sufficient to overcome all of the outstanding rejections. Consequently, Applicant has not advanced every argument for the allowability of the claims over the references of record. As such, Applicant does not acquiesce to any of the Examiner's statements or characterizations not specifically traversed. If the Examiner should have any remaining questions or objections, a telephone interview to discuss and resolve these issues is respectfully requested.

The Commissioner is authorized to charge any fee under 37 CFR 1.16 and 1.17 that may be required during the **entire pendency** of the application to Deposit Account No. 50-4407. Please show our docket number with any transaction to the Deposit Account.

Respectfully submitted,
KPPB LLP

By /David J. Bailey/
David J. Bailey
Registration No. 59,632
949.852.0000

DJB/ap

Electronic Patent Application Fee Transmittal				
Application Number:		16136149		
Filing Date:		19-Sep-2018		
Title of Invention:		Systems and Methods for Seeking Within Multimedia Content During Streaming Playback		
First Named Inventor/Applicant Name:		Roland Osborne		
Filer:		David J. Bailey/Agnes Poon		
Attorney Docket Number:		D1-00642.CON4		
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:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
Total in USD (\$)				240

Electronic Acknowledgement Receipt	
EFS ID:	35196055
Application Number:	16136149
International Application Number:	
Confirmation Number:	1778
Title of Invention:	Systems and Methods for Seeking Within Multimedia Content During Streaming Playback
First Named Inventor/Applicant Name:	Roland Osborne
Customer Number:	71897
Filer:	David J. Bailey/Agnes Poon
Filer Authorized By:	David J. Bailey
Attorney Docket Number:	D1-00642.CON4
Receipt Date:	20-FEB-2019
Filing Date:	19-SEP-2018
Time Stamp:	01:20:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$240
RAM confirmation Number	022019INTEFSW01212000
Deposit Account	504407
Authorized User	Agnes Poon
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.16 (National application filing, search, and examination fees)</p> <p>37 CFR 1.17 (Patent application and reexamination processing fees)</p>	

37 CFR 1.19 (Document supply fees)					
37 CFR 1.20 (Post Issuance fees)					
37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	EP2122482B1.pdf	270086	no	25
			5b43b2406e32a1b855c72e8e1e9cc88f694c4d		
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	00642CON4ids1449.pdf	104372	no	1
			c58bf7aa5cdadea67d58a0063ebf1c93ad2c9559		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Transmittal Letter	00642CON4idsxml.pdf	120942	no	2
			40ca34da899bd9fdp4f8438de00258c889ed600		
Warnings:					
Information:					
4		00642CON4amd.pdf	599827	yes	18
			2a9b86ff4063a2ec88a96748c998850adda8eae34		
	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1		
	Claims	2	10		
	Applicant Arguments/Remarks Made in an Amendment	11	18		
Warnings:					
Information:					

5	Fee Worksheet (SB06)	fee-info.pdf	30783	no	2				
			32bb1777b7ec051f2e11f95845dcb2a8ab600519						
Warnings:									
Information:									
Total Files Size (in bytes):			1126010						
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> 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.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> 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.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> 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.</p>									

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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16/136,149
	Filing Date	Sep 19, 2018
	First Named Inventor	Roland Osborne
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

U.S. PATENTS								
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
U.S. PATENT APPLICATION PUBLICATIONS								
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
		2122482	EP	B1	2018-11-14	Osborne		
NON-PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No	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 ⁵
EXAMINER SIGNATURE								
Examiner Signature						Date Considered		
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>								
<p>¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.</p>								

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF EFS WEB TRANSMISSION

I hereby certify that this correspondence is being electronically filed with the United States Patent and Trademark Office on February 19, 2019 at or before 11:59 p.m. Pacific Time under the Rules of 37 C.F.R. 1.8.

/Agnes Poon/
Agnes Poon

Appl No. : 16/136,149 Confirmation No. 1778
Applicant : DIVX, LLC
Filed : September 19, 2018
Title : Systems and Methods for Seeking Within Multimedia Content During Streaming Playback
TC/A.U. : 2451
Examiner : Glenford J. Madamba
Docket No. : D1-00642.CON4
Customer No. : 71897

INFORMATION DISCLOSURE STATEMENT § 1.97(c)

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

2190 S. Towne Centre Place, Suite 300
Anaheim, CA 92806
February 19, 2019

Commissioner

In compliance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, and in accordance with the provisions in the MPEP §§ 609 and 707.05(b), enclosed is FORM PTO/SB/08A/B with a listing of references that are known to applicant. Copies of each of the references listed under "Foreign Patent Documents" are enclosed.

It is respectfully requested that these references be considered in the examination of this application and identified on the list of references cited on the patent issuing on this application. Applicant also requests that an initialed copy of said FORM PTO/SB/08A/B be entered in the application file, and returned to the Applicant with the next official communication from the Office in accordance with MPEP § 609.

APPLICATION No. 16/136,149
INFORMATION DISCLOSURE STATEMENT

The \$240 processing fee will be paid via credit card. If there are any other fees due in connection with this filing, the Commissioner is authorized to charge Deposit Account 50-4407. Please show our docket number with any charge to the Deposit Account.

Respectfully submitted,

KPPB LLP

/David J. Bailey/

David J. Bailey

Registration No. 59,632

949.852.0000

DJB/ap

Enclosures

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF EFS WEB TRANSMISSION

I hereby certify that this correspondence is being electronically filed with the United States Patent and Trademark Office on March 20, 2019 at or before 11:59 p.m. Pacific Time under the Rules of 37 CFR § 1.8.

/Melissa Yee/
Melissa Yee

Appl No. : 16/136,149 Confirmation No. 1778
Applicant : DIVX, LLC
Filed : September 19, 2018
Title : Systems and Methods for Seeking Within Multimedia Content During Streaming Playback
TC/A.U. : 2451
Examiner : Glenford J. Madamba
Docket No. : D1-00642.CON4
Customer No. : 71897

SUPPLEMENTAL AMENDMENT

Mail Stop Amendment
Commissioner for Patents 2190 S. Towne Centre Place, Suite 300
P.O. Box 1450 Anaheim, CA 92806
Alexandria, VA 22313-1450 March 20, 2019

Commissioner:

Further to the Amendment filed on February 20, 2019, please amend the above-identified application as follows:

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

Remarks/Arguments begin on page 11 of this paper.

Electronic Acknowledgement Receipt	
EFS ID:	35482618
Application Number:	16136149
International Application Number:	
Confirmation Number:	1778
Title of Invention:	Systems and Methods for Seeking Within Multimedia Content During Streaming Playback
First Named Inventor/Applicant Name:	Roland Osborne
Customer Number:	71897
Filer:	David Kaveh/Melissa Yee
Filer Authorized By:	David Kaveh
Attorney Docket Number:	D1-00642.CON4
Receipt Date:	20-MAR-2019
Filing Date:	19-SEP-2018
Time Stamp:	17:56:30
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		00642CON4suppamendment.pdf	145718	yes	12
			3887a9d99ec0fe894a310650a7fb382db15ab936		

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Applicant Arguments/Remarks Made in an Amendment	11	12
	Claims	2	10
	Supplemental Response or Supplemental Amendment	1	1
Warnings:			
Information:			
Total Files Size (in bytes):		145718	
<p>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.</p> <p><u>New Applications Under 35 U.S.C. 111</u> 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.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> 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.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> 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.</p>			

REMARKS/ARGUMENTS

Further to the Amendment filed on February 20, 2019, Applicant submits this Supplemental Amendment to correct certain antecedent basis issues identified following the filing of the Feb. 20, 2019 Amendment. No new matter is being introduced by these amendments. Applicant requests that all pending claims and this application be allowed.

CONCLUSION

In view of the foregoing amendments and remarks, it is respectfully submitted that this application is in condition for allowance. Accordingly, reconsideration of the application and allowance of the claims are respectfully requested. Although the present paper may include a combination of alterations to the application or claims, or characterizations of claim scope or referenced art, Applicant is not conceding that previously pending claims in this application are not patentable over the cited references. Rather, any alterations and/or characterizations are made to strictly facilitate prosecution of this application. As such, reviewers of this or any parent, child, or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Applicant has submitted amendments and arguments believed to be sufficient to overcome all of the outstanding rejections. Consequently, Applicant has not advanced every argument for the allowability of the claims over the references of record. As such, Applicant does not acquiesce to any of the Examiner's statements or characterizations not specifically traversed. If the Examiner should have any remaining questions or objections, a telephone interview to discuss and resolve these issues is respectfully requested.

APPLN No. 16/136,149
SUPPLEMENTAL AMENDMENT

The Commissioner is authorized to charge any fee under 37 CFR 1.16 and 1.17 that may be required during the **entire pendency** of the application to Deposit Account No. 50-4407. Please show our docket number with any transaction to the Deposit Account.

Respectfully submitted,
KPPB LLP

By /David H. Kaveh/
David Kaveh
Registration No. 68640
949.852.0000

DHK/my

Amendments to the Claims:

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

Listing of Claims:

1. (Currently Amended) A playback device, comprising:
a processor; and
a non-volatile storage containing an application for causing the processor to perform the steps of:
 - establishing at least one connection for communicating with a remote server system;
 - obtaining information from a remote server system describing at least one video track, multiple audio tracks, and multiple subtitle tracks;
 - selecting a video track from the at least one video track;
 - requesting a header describing the selected video track;
 - selecting an audio track from the multiple audio tracks;
 - obtaining index information indicating the locations of audio and video data within the selected audio and video tracks;
 - determining byte ranges to request from the selected audio and video tracks using the index information;
 - requesting byte ranges from the selected video track and the selected audio track from the remote server system;
 - buffering received bytes of information comprising audio and video data;
 - checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data;
 - ~~respond~~ responding to a received seek instruction by:
 - pausing playback;
 - determining byte ranges to request from the selected audio and video tracks based upon a new playback location using the index information;

requesting byte ranges required to play the ~~media sequence~~
selected audio and video tracks from the new playback location from the
remote server;

buffering received bytes of information comprising audio and video
data pending resumption of playback; and

checking that sufficient data is buffered to commence playback and
playing back the buffered audio and video data.

2. (Previously Presented) The playback device of claim 1, wherein the
application is further capable of causing the processor to asynchronously request byte
ranges from the selected video track and the selected audio track from the remote
server.

3. (Previously Presented) The playback device of claim 1, wherein the step
of requesting a header describing the selected video track comprises the step of
requesting a DRM header.

4. (Original) The playback device of claim 3, wherein the application is
further capable of causing the processor to perform the step of decrypting the DRM
header.

5. (Original) The playback device of claim 3, wherein:
the DRM header identifies at least one key; and
the application is further capable of causing the processor to perform the steps of
decrypting encrypted frames of video using the at least one key prior to decoding.

6. (Original) The playback device of claim 5, wherein:
encrypted frames of video are only partially encrypted;
the received bytes of information contain references to portions of video frames
that are encrypted; and

the step of decrypting encrypted frames of video using the at least one key prior to decoding further comprises decrypting encrypted portions of frames of video using the references to the portions of the video frames that are encrypted.

7. (Cancelled)

8. (Previously Presented) The playback device of claim 1, wherein playing back the buffered video data from the requested byte ranges provides fast forward trick play.

9. (Previously Presented) The playback device of claim 1, wherein playing back the buffered video data from the requested byte ranges provides fast rewind trick play.

10. (Original) The playback device of claim 1, wherein the application is further capable of causing the processor to perform the step of discarding audio and video data contained within the buffer in response to a received seek instruction.

11. (Previously Presented) The playback device of claim 1, wherein the application is further capable of causing the processor to perform the steps of:
selecting a subtitle track from the multiple subtitle tracks;
requesting data from the selected subtitle track from the remote server system, where the data contains subtitle text; and
superimposing the subtitle text over video during playback.

12. (Currently Amended) A playback device, comprising:
a processor; and
a non-volatile storage containing an application for causing the processor to perform the steps of:

establishing at least one connection for communicating with a remote server system;

obtaining information from a remote server system describing at least one video track, and at least one audio track;

selecting a video track from the at least one video track;

requesting a header describing the selected video track, where the requested header comprises a DRM header;

decrypting the DRM header;

selecting an audio track from the at least one audio track;

obtaining index information indicating the locations of audio and video data within the selected audio and video tracks;

determining byte ranges to request from the selected audio and video tracks using the index information;

creating a buffer;

requesting byte ranges from the video track and the audio track from the remote server system;

buffering received bytes of information comprising audio and video data;

checking that sufficient data is buffered to commence playback;

decrypting encrypted frames of video using information from the decrypted DRM header;

playing back the buffered audio and the decrypted video data;

~~respond~~ responding to a received seek instruction by:

 pausing playback;

 discarding buffered audio and video data;

 determining byte ranges to request from the selected audio and video tracks based upon a new playback location using the index information;

 requesting byte ranges required to play the ~~media sequence~~ selected audio and video tracks from the new playback location from the remote server;

buffering received bytes of information comprising audio and video data pending resumption of playback;
checking that sufficient data is buffered to commence playback;
decrypting encrypted frames of video using information from the decrypted DRM header; and
playing back the buffered audio and decrypted video data.

13. (Original) The playback device of claim 12, wherein:
the DRM header identifies at least one key; and
the step of decrypting encrypted frames of video using information from the decrypted DRM header comprises decrypting encrypted frames of video using the at least one key prior to decoding.

14. (Original) The playback device of claim 13, wherein:
encrypted frames of video are only partially encrypted;
the received bytes of information contain references to portions of video frames that are encrypted; and
the step of decrypting encrypted frames of video using the at least one key prior to decoding further comprises decrypting encrypted portions of frames of video using the references to the portions of the video frames that are encrypted.

15. (Previously Presented) The playback device of claim 12, wherein the application is further capable of causing the processor to asynchronously request byte ranges from the selected video track and the selected audio track from the remote server.

16. (Cancelled)

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SUPPLEMENTAL AMENDMENT

17. (Previously Presented) The playback device of claim 12, wherein playing back the buffered video data from the requested byte ranges provides fast forward trick play.

18. (Previously Presented) The playback device of claim 12, wherein playing back the buffered video data from the requested byte ranges provides fast rewind trick play.

19. (Previously Presented) The playback device of claim 12, wherein the application is further capable of causing the processor to perform the steps of:

obtaining information from a remote server system describing at least one subtitle track;

selecting a subtitle track from the at least one subtitle track;

requesting data from the selected subtitle track from the remote server system, where the data contains subtitle text; and

superimposing the subtitle text over video during playback.

20. (Currently Amended) A method of playing back content on a playback device, comprising:

establishing at least one connection for communicating with a remote server system using a playback device;

obtaining information from a remote server system using the playback device, where the obtained information describes at least one video track, multiple audio tracks, and multiple subtitle tracks;

selecting a video track from the at least one video track;

requesting a header describing the at least one video track using the playback device;

selecting an audio track from the multiple audio tracks using the playback device;

obtaining index information indicating the locations of audio and video data within the selected audio and video tracks;

determining byte ranges to request from the selected audio and video tracks using the index information;

requesting byte ranges from the selected video track and the selected audio track from the remote server system using the playback device;

buffering received bytes of information comprising audio and video data on the playback device;

checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data using the playback device;

responding to receipt of a seek instruction at the playback device by:

pausing playback on the playback device;

determining byte ranges to request from the selected audio and video tracks based upon a new playback location using the index information;

requesting byte ranges required to play the ~~media sequence~~ selected audio and video tracks from the new playback location from the remote server using the playback device;

buffering received bytes of information comprising audio and video data pending resumption of playback using the playback device; and

checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data using the playback device.

21. (Previously Presented) The method of claim 20, further comprising asynchronously requesting byte ranges from the selected video track and the selected audio track from the remote server using the playback device.

22. (Previously Presented) The method of claim 20, wherein requesting a header describing the selected video track further comprises requesting a DRM header using the playback device.

23. (Original) The method of claim 22, further comprising decrypting the DRM header.

24. (Original) The method of claim 23, wherein:
the DRM header identifies at least one key; and
the method further comprises decrypting encrypted frames of video using the at least one key prior to decoding using the playback device.

25. (Original) The method of claim 24, wherein:
encrypted frames of video are only partially encrypted;
the received bytes of information contain references to portions of video frames that are encrypted; and
decrypting encrypted frames of video using the at least one key prior to decoding further comprises decrypting encrypted portions of frames of video using the references to the portions of the video frames that are encrypted using the playback device.

26. (Cancelled)

27. (Currently Amended) The ~~playback device~~ method of claim 20, wherein playing back the buffered video data from the requested byte ranges provides fast forward trick play.

28. (Currently Amended) The ~~playback device~~ method of claim 20, wherein playing back the buffered video data from the requested byte ranges provides fast rewind trick play.

29. (Original) The method of claim 20, further comprising discarding audio and video data contained within the buffer in response to a received seek instruction.

APPLN No. 16/136,149
SUPPLEMENTAL AMENDMENT

30. (Original) The method of claim 20, further comprising:
selecting a subtitle track from the multiple subtitle tracks using the playback device;
requesting data from the selected subtitle track from the remote server system using the playback device, where the data contains subtitle text; and
superimposing the subtitle text over video during playback using the playback device.

31. (Previously Presented) The playback device of claim 1, wherein the application is further capable of causing the processor to perform the step of flushing previous byte range requests in response to the received seek instruction.

32. (Previously Presented) The playback device of claim 12, wherein the application is further capable of causing the processor to perform the step of flushing previous byte range requests in response to the received seek instruction.

33. (Previously Presented) The method of claim 20, further comprising flushing previous byte range requests in response to the received seek instruction.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/136,149		Filing Date 09/19/2018		☐ 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), (l), 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 \$100 =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$460 =			
☐ 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		(Column 1)		(Column 2)		(Column 3)			
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)	
		ADDITIONAL FEE (\$)							
		Total (37 CFR 1.16(i))		* 30 Minus ** 30 = 0		x \$100 =		0	
		Independent (37 CFR 1.16(h))		* 3 Minus *** 3 = 0		x \$460 =		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)		(Column 2)		(Column 3)			
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)	
		ADDITIONAL FEE (\$)							
		Total (37 CFR 1.16(i))		* Minus ** =		x \$0 =			
		Independent (37 CFR 1.16(h))		* Minus *** =		x \$0 =			
		☐ 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.						LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/SUSAN A HAY/			
*** 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.									

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

71897 7590 04/19/2019
KPPB LLP
2190 S. Towne Centre Place
Suite 300
Anaheim, CA 92806

EXAMINER

MADAMBA, GLENFORD J

ART UNIT

PAPER NUMBER

2451

DATE MAILED: 04/19/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/136,149	09/19/2018	Roland Osborne	D1-00642.CON4	1778

TITLE OF INVENTION: Systems and Methods for Seeking Within Multimedia Content During Streaming Playback

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	07/19/2019

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: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

71897 7590 04/19/2019
KPPB LLP
2190 S. Towne Centre Place
Suite 300
Anaheim, CA 92806

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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/136,149	09/19/2018	Roland Osborne	D1-00642.CON4	1778

TITLE OF INVENTION: Systems and Methods for Seeking Within Multimedia Content During Streaming Playback

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	07/19/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
MADAMBA, GLENFORD J	2451	709-100000

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 03-09 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, 1 _____

(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. 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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). 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. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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. 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.

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. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/136,149	09/19/2018	Roland Osborne	D1-00642.CON4	1778
71897	7590	04/19/2019	EXAMINER	
KPPB LLP			MADAMBA, GLENFORD J	
2190 S. Towne Centre Place			ART UNIT	
Suite 300			PAPER NUMBER	
Anaheim, CA 92806			2451	

DATE MAILED: 04/19/2019

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 30 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. 16/136,149	Applicant(s) Osborne, Roland	
	Examiner GLENFORD J MADAMBA	Art Unit 2451	AIA (FITF) 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 20 March 2019.
☐ 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 1-6,8-15,17-25 and 27-33. 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)	5. ☐ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	

/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	
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Allowable Subject Matter

1. The numbering of original claims 1-30 is renumbered 1-30. Claims 7, 16 and 26 have been cancelled, and NEW claims 31-33 have been added.

2. The following is an examiner's statement of reasons for allowance:

The Office has deemed Applicant's latest filed claim amendments and corresponding remarks (filed 02/20/2019 and 03/20/19) persuasive to overcome the current rejection of the claims over the applied prior art reference(s), and the claims are thus considered in condition for patentability (MPEP § 1302.14). In particular, the Office notes that no reasonable rejection of the claim over prior art or prior art combination discloses the currently recited features / elements of the independent claims *as a whole*. Additionally, the Office further notes that Applicant's latest filed claim amendments further defining the independent claims, and specifying in part a client / playback device further performing the steps of "obtaining index information indicating the locations of audio and video data within the selected audio and video tracks; determining byte ranges to request from the selected audio and video tracks using the index information; requesting byte ranges from the selected video track and the selected audio track from the remote server system; buffering received bytes of information comprising audio and video data; checking that sufficient data is buffered to commence playback and playing back the buffered audio and video data; responding to a received seek instruction by: pausing playback;

determining byte ranges to request from the selected audio and video tracks based upon a new playback location using the index information; and requesting byte ranges required to play the media sequence from the new playback location from the remote server...” -- is also considered to be persuasive, as none of the currently applied prior art reference(s) [Zoeste, Thompson and/or Gallo], or additional candidate prior art reference, expressly / sufficiently discloses the above said features, as currently recited by the amended independent claims. Accordingly, independent claim 1, and similarly the other independent claims, are considered allowable over prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenford Madamba whose telephone number is 571-272- 7989. The examiner can normally be reached on Monday-Friday 7:00AM-4: 30PM, first Fridays OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Christopher Parry can be reached on 571-272-8328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. 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.

/GLENFORD J MADAMBA/
Primary Examiner, Art Unit 2451

Search Notes 	Application/Control No. 16/136,149	Applicant(s)/Patent Under Reexamination Osborne, Roland
	Examiner GLENFORD J MADAMBA	Art Unit 2451

CPC - Searched*		
Symbol	Date	Examiner
G06F17/30, H04L65/40, H04N5/76	11/13/2018	GJM

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	100	11/13/2018	GJM

* 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
Dbs searched: USPAT, USPGPUB, USOCR, DERWENT, EPO, JPO, IBM-TDB	11/13/2018	GJM
Claim amendments / remarks received in response to non-final action issued and the independent claims appear to be in condition for allowance. Updated search in EAST conducted, and no add'l / pertinent prior art reference(s) found to fully and/or reasonably disclose the claims . Case is allowed.	04/14/2019	GJM

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
709/G06F16	100/71	04/14/2019	GJM

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Issue Classification 	Application/Control No. 16/136,149	Applicant(s)/Patent Under Reexamination Osborne, Roland
	Examiner GLENFORD J MADAMBA	Art Unit 2451

CPC						
Symbol					Type	Version
H04L	/	65	/	604	F	2013-01-01
G06F	/	16	/	71	I	2019-01-01
G06F	/	16	/	739	I	2019-01-01
H04N	/	5	/	76	I	2013-01-01
H04N	/	5	/	783	I	2013-01-01
H04N	/	7	/	17318	I	2013-01-01
H04N	/	21	/	23406	I	2013-01-01
H04N	/	21	/	44004	I	2013-01-01
H04N	/	21	/	472	I	2013-01-01
H04N	/	21	/	6587	I	2013-01-01
H04L	/	65	/	4084	I	2013-01-01
H04L	/	65	/	4092	I	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE	Total Claims Allowed:	
(Assistant Examiner)	(Date)	30
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	14 April 2019	O.G. Print Claim(s)
(Primary Examiner)	(Date)	1
		O.G. Print Figure
		2

U.S. Patent and Trademark Office

Part of Paper No.: 20190414

Issue Classification 	Application/Control No. 16/136,149	Applicant(s)/Patent Under Reexamination Osborne, Roland
	Examiner GLENFORD J MADAMBA	Art Unit 2451

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F	/	16	/ 71

NON-CLAIMED			
/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	14 April 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

U.S. Patent and Trademark Office

Part of Paper No.: 20190414

Issue Classification 	Application/Control No. 16/136,149	Applicant(s)/Patent Under Reexamination Osborne, Roland
	Examiner GLENFORD J MADAMBA	Art Unit 2451

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	9	10	18	19	27	28								
2	2	10	11	20	20	28	29								
3	3	12	12	21	21	29	30								
4	4	13	13	22	22	11	31								
5	5	14	14	23	23	19	32								
6	6	15	15	24	24	30	33								
-	7	-	16	25	25										
7	8	16	17	-	26										
8	9	17	18	26	27										

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/GLENFORD J MADAMBA/ Primary Examiner, Art Unit 2451	14 April 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

U.S. Patent and Trademark Office

Part of Paper No.: 20190414

<i>Index of Claims</i> 	Application/Control No. 16/136,149	Applicant(s)/Patent Under Reexamination Osborne, Roland
	Examiner GLENFORD J MADAMBA	Art Unit 2451

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant					☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE								
Final	Original	11/13/2018	04/14/2019							
1	1	✓	=							
2	2	✓	=							
3	3	✓	=							
4	4	✓	=							
5	5	✓	=							
6	6	✓	=							
-	7	✓	-							
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8	9	✓	=							
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25	25	✓	=							
-	26	✓	-							
26	27	✓	=							
27	28	✓	=							
28	29	✓	=							
29	30	✓	=							
11	31		=							
19	32		=							
30	33		=							

Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Field

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16/136,149
	Filing Date	Sep 19, 2018
	First Named Inventor	Roland Osborne
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

U.S. PATENTS								
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
U.S. PATENT APPLICATION PUBLICATIONS								
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
		2122482	EP	B1	2018-11-14	Osborne		
NON-PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No	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 ⁵
EXAMINER SIGNATURE								
Examiner Signature		/GLENFORD J MADAMBA/			Date Considered		04/14/2019	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>								
<p>¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.</p>								

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16/136,149
	Filing Date	September 19, 2018
	First Named Inventor	Roland Osborne
	Art Unit	2451
	Examiner Name	Glenford J. Madamba
	Attorney Docket Number	D1-00642.CON4

U.S. PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		20060059223	A1	2006-03-16	Klemets, Anders E. et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		2003111048	JP	A	2003-04-11	Nishimura	
		3467666	EP	A1	2019-04-10	Osborne	

NON-PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No	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.					
		Extended European Search Report for European Application No. 18206048.3, Search completed February 8, 2019, Mailed February 21, 2019, 11 Pgs.					

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

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

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF EFS WEB TRANSMISSION

I hereby certify that this correspondence is being electronically filed with the United States Patent and Trademark Office on April 17, 2019 at or before 11:59 p.m. Pacific Time under the Rules of 37 C.F.R. 1.8.

/Melissa Yee/
Melissa Yee

Appl No. : 16/136,149 Confirmation No. 1778
Applicant : DIVX, LLC
Filed : September 19, 2018
Title : Systems and Methods for Seeking Within Multimedia Content During Streaming Playback
TC/A.U. : 2451
Examiner : Glenford J. Madamba
Docket No. : D1-00642.CON4
Customer No. : 71897

INFORMATION DISCLOSURE STATEMENT § 1.97(c)

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

2190 S. Towne Centre Place, Suite 300
Anaheim, CA 92806
April 17, 2019

Commissioner

In compliance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, and in accordance with the provisions in the MPEP §§ 609 and 707.05(b), enclosed is FORM PTO/SB/08A/B with a listing of references that are known to applicant. Copies of each of the references listed under "Foreign Patent Documents" and "Non-Patent Literature Documents" are enclosed.

It is respectfully requested that these references be considered in the examination of this application and identified on the list of references cited on the patent issuing on this application. Applicant also requests that an initialed copy of said FORM PTO/SB/08A/B be entered in the application file, and returned to the Applicant with the next official communication from the Office in accordance with MPEP § 609.

APPLICATION No. 16/136,149
INFORMATION DISCLOSURE STATEMENT

The \$240 processing fee will be paid via credit card. If there are any other fees due in connection with this filing, the Commissioner is authorized to charge Deposit Account 50-4407. Please show our docket number with any charge to the Deposit Account.

Respectfully submitted,

KPPB LLP

/David H. Kaveh/

David H. Kaveh
Registration No. 68,640
949.852.0000

DHK/my

Enclosures

Electronic Patent Application Fee Transmittal				
Application Number:		16136149		
Filing Date:		19-Sep-2018		
Title of Invention:		Systems and Methods for Seeking Within Multimedia Content During Streaming Playback		
First Named Inventor/Applicant Name:		Roland Osborne		
Filer:		David Kaveh/Melissa Yee		
Attorney Docket Number:		D1-00642.CON4		
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:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
Total in USD (\$)				240

Electronic Acknowledgement Receipt	
EFS ID:	35699175
Application Number:	16136149
International Application Number:	
Confirmation Number:	1778
Title of Invention:	Systems and Methods for Seeking Within Multimedia Content During Streaming Playback
First Named Inventor/Applicant Name:	Roland Osborne
Customer Number:	71897
Filer:	David Kaveh/Melissa Yee
Filer Authorized By:	David Kaveh
Attorney Docket Number:	D1-00642.CON4
Receipt Date:	17-APR-2019
Filing Date:	19-SEP-2018
Time Stamp:	19:08:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$240
RAM confirmation Number	041819INTEFSW19085000
Deposit Account	504407
Authorized User	Melissa Yee
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)					
37 CFR 1.20 (Post Issuance fees)					
37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	jp2003111048wabstract.pdf	1981527	no	17
			8db75333c3972740f279de2830e7479969528bu92		
Warnings:					
Information:					
2	Other Reference-Patent/App/Search documents	EP182060483eesr.pdf	1776519	no	11
			9322ec872d445b9847aef2872bea338d559a2cb3		
Warnings:					
Information:					
3	Foreign Reference	EP3467666A1.pdf	1000311	no	22
			d2d3922631fb34c9a334071518820c3c2bd3c2e9		
Warnings:					
Information:					
4	Information Disclosure Statement (IDS) Form (SB08)	00642CON4ids1449.pdf	104663	no	1
			8d248521f3221a7067f01397547761163ffcd7b8		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
5	Transmittal Letter	00642CON4idsxmtl.pdf	121831	no	2
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Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	30830	no	2
			f2c40bc14d34d55be2d7ab6d05fcb1026fcd0e181		
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Total Files Size (in bytes):	5015681
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/136,149	09/10/2019	10412141	D1-00642.CON4	1778

71897 7590 08/21/2019
KPPB LLP
2190 S. Towne Centre Place
Suite 300
Anaheim, CA 92806

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>).

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APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Roland Osborne, San Francisco, CA;
DIVX, LLC, San Diego, CA;

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IR103 (Rev. 10/09)

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Application	Document	Mailroom Date	Attorney Docket No.
16136149	ISSUE.NTF	08/21/2019	D1-00642.CON4

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