



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/054,756	04/24/2018	9954922	141-1 US CON2 DIV CON	9058

24949 7590 04/04/2018
TEITELBAUM & MACLEAN
834 Colonel By Drive
OTTAWA, ON K1S 5C4
CANADA

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 73 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

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

John McCue, Ottawa, CANADA;
Audio Pod Inc., Ottawa, CANADA
Robert McCue,, Ottawa, CANADA;
Gregory Shostakovsky, Kanata, CANADA, Deceased;
Glenn McCue, Ottawa, CANADA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Change(s) applied
to document,
/B.H.H./
3/14/2018

		20070112837	May 17, 2007	Houh et al	707	102	
		20070124331	May 31, 2017 ⁰⁷	Griffin	1	1	
		20090171750	Jul 2, 2009	Zhou et al	705	14.53	
		20090177996	Jul 9, 2009	Hunt et al	715	788	
		20100281509	Nov 4, 2010	Yu et al.	725	100	
		20110118858	May 19, 2011	Rottler et al.	700	94	

Foreign Patent Documents

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)

		“SpeechSkimmer: A System for Interactively Skimming Recorded Speech” by Barry Arons, MIT Media Lab, ACM Transactions on Computer-Human Interaction, Vol. 4, No. 1, March 1997, Pages 3-38	
		EPUB Media Overlays 3.0”, International Digital Publishing Forum, (http://idpf.org/enub/30/spec/enub30-mediaoverlays-20110516.html), 16 May 2011	
EXAMINER		DATE CONSIDERED	
/ALICIA BATURAY/		07/13/2017	
<i>EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant</i>			

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

Form PTO 1449A U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	ATTY. DOCKET NUMBER: 141-1 US CON2 DIV CON	SERIAL NUMBER: ~~New Application~~ 15/054,756
	APPLICANT: McCue et al.	
	FILING DATE: Herewith	GROUP: ~~New Application~~ 2441

U.S. Patent Documents

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILE APP
		5,586,264	Dec 17, 1996	Belknap et al	395	200.08	
		6,621,980	Sep 16, 2003	Gould et al	386	69	
		6,850,982	Feb 1, 2005	Siegel	709	227	
		7,242,809	Jul 10, 2007	Hunter et al	382	224	
		7,721,301	May 18, 2010	Wong et al	719	322	
		7,984,147	Jul 19, 2011	Daoud et al	709	226	
		20020069218	Jun 6, 2002	Sull et al	715	202	
		20020087694	Jul 4, 2002	Daoud et al	709	226	
		20020184189	Dec 5, 2002	Hay et al	707	1	
		20030091338	May 15, 2003	Snow et al	386	96	
		20030167262	Sep 4, 2003	Iida et al	1	1	
		20030172346	Sep 11, 2003	Gould et al	715	501.1	
		20030221194	Nov 27, 2003	Thiagarajan et al	725	55	
		20050061873	Mar 24, 2005	Pirillo	235	380	
		20050091062	Apr 28, 2005	Burges et al	704	273	
		20050111824	May 26, 2005	Hunter et al	386	52	
		20050245243	Nov 3, 2005	Zuniga	455	414.3	
		20050250439	Nov 10, 2005	Leslie	455	11.1	
		20050276570	Dec 15, 2005	Reed JR et al	386	46	
		20060140162	Jun 29, 2006	Vasa	370	338	
		20060236219	Oct 19, 2006	Grigorovitch et al	715	500.1	
		20060242550	Oct 26, 2006	Rahman et al	715	500.1	
		20060271989	Nov 30, 2006	Glaser et al	725	111	
		20070041356	Feb 22, 2007	Fontijn	370	352	
		20070067267	Mar 22, 2007	Ives	1	1	
		20070083354	Apr 12, 2007	Collins et al	703	23	
		20070083911	Apr 12, 2007	Madden et al	725	135	

/ALICIA BATURAY/

07/13/2017

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

Change(s) applied
to document,
/B.H.H./
3/14/2018



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/054,756	02/26/2016	John McCue	141-1 US CON2 DIV CON	9058
24949 7590 03/19/2018 TEITELBAUM & MACLEAN 834 Colonel By Drive OTTAWA, ON K1S 5C4 CANADA			EXAMINER BATURAY, ALICIA	
			ART UNIT 2441	PAPER NUMBER
			NOTIFICATION DATE 03/19/2018	DELIVERY MODE 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):

ANNETTE@PATENTS.ORG

Response to Rule 312 Communication	Application No. 15/054,756	Applicant(s)
	Examiner	Art Unit

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

1. ☒ The amendment filed on 09 March 2018 under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

Publishing Division
mn



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
15/054,756	02/26/2016	2441	730	141-1 US CON2 DIV CON	20	2

CONFIRMATION NO. 9058

CORRECTED FILING RECEIPT

24949

TEITELBAUM & MACLEAN
834 Colonel By Drive
OTTAWA, ON K1S 5C4
CANADA



CC00000098074340

Date Mailed: 03/15/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

John McCue, Ottawa, CANADA;
Robert McCue,, Ottawa, CANADA;
Gregory Shostakovsky, Kanata, CANADA, Deceased;
Glenn McCue, Ottawa, CANADA;

Applicant(s)

Audio Pod Inc., Ottawa, CANADA

Assignment For Published Patent Application

Audio Pod Inc., Ottawa, CANADA

Power of Attorney: The patent practitioners associated with Customer Number 24949

Domestic Priority data as claimed by applicant

This application is a CON of 14/924,028 10/27/2015 PAT 9930089
which is a DIV of 14/250,591 04/11/2014 PAT 9203884
which is a CON of 13/588,084 08/17/2012 PAT 8738740
which is a CON of 12/096,933 06/11/2008 PAT 8285809
which is a 371 of PCT/CA2006/002046 12/12/2006
which claims benefit of 60/749,632 12/13/2005

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 03/11/2016

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/054,756**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor

community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

PART B - FEE(S) TRANSMITTAL

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

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

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

24949 7590 01/05/2018
TEITELBAUM & MACLEAN
834 Colonel By Drive
OTTAWA, ON K1S 5C4
CANADA

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/054,756	02/26/2016	John McCue	141-1 US CON2 DIV CON	9058

TITLE OF INVENTION: METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	04/05/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
BATURAY, ALICIA	2441	709-219000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

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

2. For printing on the patent front page, list

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

- 1 Teitelbaum & MacLean
- 2 Neil Teitelbaum
- 3 _____

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

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

(A) NAME OF ASSIGNEE

Audio Pod Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Ottawa, Ontario, Canada

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

4a. The following fee(s) are submitted:

- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

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

- ☐ A check is enclosed.
- ☒ Payment by credit card. ~~Form PTO-2038 is attached.~~
- ☒ The director is hereby authorized to charge the required fee(s); any deficiency, or credits any overpayment, to Deposit Account Number 50-2810 (enclose an extra copy of this form).

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

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ 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 /Neil Teitelbaum/

Date March 13, 2018

Typed or printed name Neil Teitelbaum

Registration No. 38,793

Electronic Patent Application Fee Transmittal				
Application Number:		15054756		
Filing Date:		26-Feb-2016		
Title of Invention:		METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES		
First Named Inventor/Applicant Name:		John McCue		
Filer:		Neil Teitelbaum/Melanie Budarick		
Attorney Docket Number:		141-1 US CON2 DIV CON		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	480	480

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt

EFS ID:	32039187
Application Number:	15054756
International Application Number:	
Confirmation Number:	9058
Title of Invention:	METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES
First Named Inventor/Applicant Name:	John McCue
Customer Number:	24949
Filer:	Neil Teitelbaum/Melanie Budarick
Filer Authorized By:	Neil Teitelbaum
Attorney Docket Number:	141-1 US CON2 DIV CON
Receipt Date:	13-MAR-2018
Filing Date:	26-FEB-2016
Time Stamp:	15:37:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$480
RAM confirmation Number	031418INTEFSW15381700
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	141-1USCON2DIVCONIssueFee Transmittal.pdf	107807	no	1
			d794b65f73bad41fd361b1228d533f054ad8e906		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30512	no	2
			6a50dfb21dd01ec5a9ea15c6d73403490a11608b		
Warnings:					
Information:					
Total Files Size (in bytes):			138319		
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. <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. <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. <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.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: McCue et al. **Atty Docket No.: 141-1 US CON2 DIV CON**
Serial No.: 15/054,756 **Art Unit: 2441**
Filing Date: February 26, 2016 **Examiner: Baturay, Alicia**
Confirmation No.: 9058
For: METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT
ACROSS MULTIPLE CLIENT DEVICES

March 9, 2018

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

EFILED
Commissioner of Patents

Sir:

Responsive to the Notice to File Corrected Application Papers mailed January 17, 2018, please replace Table 1, with the enclosed Table 1, on a separate sheet. The shading in the cells that was objected to has been removed.

Also, please replace Table 2, with the enclosed Table 2. The paragraph numbering in original cells **[0104]** and **[0126]** has been crossed-out, since these cells are blank. There is no missing text.

There is no fee required for this response, however, if any extension fee is required, or if any additional claim fee is required, authorization is given to charge Deposit Account No: **50-2810**.

Please associate this application with Customer No: 24949.

US Appln No. 15/054,756

Respectfully,



Neil Teitelbaum

Regn No: 38,793

Customer No: 24949

Teitelbaum & MacLean
834 Colonel By Drive
Ottawa, Ontario
Canada K1S 5C4

Tel: (613) 302 2273

Fax: (613) 523 6799

Email: nt@patents.org
www.patents.org

After paragraph [0066], please replace Table 1, with the following table.

[067] Information Type	[068] Content
[069] Administrative	[070] Contains information, structures and files that are used to facilitate access to media contained within the library and maintain the operational environment status of the client software.
[071] Announcements	[072] Contains announcements that could be used in a number of ways, typically to inform users and keep them up to date on current or upcoming events or news.
[073] Server List	[074] Contains the primary server site and a list of library mirror sites capable of maintaining audio stream continuity for the consumer in the event of degraded or interrupted service.
[075] Performance History	[076] Contains a list of historical throughput performance and failure rate metrics for the library primary and mirror sites. Present only on the client platform.
[077] Updates	[078] Contains the actual files and information needed to perform network-based updates while online using automated routines provided.
[079] Catalog Index	[080] Contains the cross-reference information needed to access subordinate catalog indexes and to access virtual audio stream descriptors.
[081] Virtual Reference	[082] Contains information, structures and files used to provide access to and delivery of specific audio streams.
[083] Bookmark	[084] Contains the information needed to restart a specific audio stream at a specific point.
[085] Virtual Audio Stream Descriptor	[086] Contains the information that describes all aspects of an audio stream and the information needed to access and use the actual audio stream.
[087] Cover Art Image	[088] Contains a graphic or image that is used to represent the entire audio stream to the user in their own mind similar to the task accomplished by the cover art graphics on a printed book.
[089] Actual audio	[090] Contains the actual media content and supportive graphics and/or audio/video content
[091] Actual audio Stream	[092] Contains one or more small audio files that comprise the entire audio stream and that when played in order form a seamless audio experience.
[093] Illustrations	[094] If present, contains one or more graphic, image, video or audio/video portions of multimedia content intended for use with and in support of the actual audio stream.
[095] Ancillary	[096] Contains other information, structures and files used in the delivery of content not considered actual content within audio streams.

[097] Advertisements	[098] If present, contains one or more graphic, image, video or audio/video portions of multimedia content intended to be used before, during and after presentation of any audio stream subject to the requirements described in the virtual audio stream descriptor.
-----------------------------	---

Table 1. Various types of information, structures, and files

After paragraph [0100], please replace Table 2, with the following table.

[0101] Filename(s)	[0102] Contents
[0103] Static Files	~~[0104]~~
[0104] Audio Pod Directory	[0105] The directory that contains all files that are static in their existence
[0106] Spooler Directory	[0107] The directory that contains all files that are volatile in their existence
[0108] AudioPod.exe	[0109] The Audio Pod executable image
[0110] AudioPod.xml	[0111] The Audio Pod startup initialization file; in XML format
[0112] UpdateManager.exe	[0113] The Audio Pod Update Manager executable image
[0114] ServerList.xml	[0115] The list of libraries, mirrors and servers that are available on the network as targets for the Audio Pod Performance/Load manager; in XML format
[0116] ServerStats.xml	[0117] The historical rate of response statistics for all library servers; in XML format
[0118] BookMarks.xml	[0119] The list of active bookmarks; in XML format
[0120] TheEnd.mp3	[0121] The audio stream to be played on completion of an audio stream (book)
[0122] ErrorAlert.mp3	[0123] The audio stream to play when the Audio Pod must attract the attention of the user while listening to another audio stream (book)
[0124] Volatile Files	~~[0126]~~
[0125] Small Audio Files	[0126] Audio files that make up the various open audio streams (book); in MP3 format
[0127] Cover Art Graphic Files	[0128] Graphic files that contain images of book covers; in jpg graphic format
[0129] Card Catalog Index Files	[0130] Files containing Card Catalog indexes; in XML format
[0131] Book Profiles	[0132] Files containing Book Profiles; in XML format
[0133] Announcement File	[0134] File containing a notice or announcement; in XML format
[0135] Update File	[0136] File containing components needed to perform an update to the Audio Pod and/or any of its' components

Table 2. List of Possible Static and Volatile Files

Electronic Acknowledgement Receipt

EFS ID:	32009034
Application Number:	15054756
International Application Number:	
Confirmation Number:	9058
Title of Invention:	METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES
First Named Inventor/Applicant Name:	John McCue
Customer Number:	24949
Filer:	Neil Teitelbaum/Melanie Budarick
Filer Authorized By:	Neil Teitelbaum
Attorney Docket Number:	141-1 US CON2 DIV CON
Receipt Date:	09-MAR-2018
Filing Date:	26-FEB-2016
Time Stamp:	14:13:16
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	Request/Corrected Patent Application Publications	141-1USCON2DIVCONResponsetoNoticetofilecorrectedpapers.pdf	102679 4f67ce72a5fa22f5e622006d36acfb0f562fb8e1	no	5

Warnings:

Information:	
Total Files Size (in bytes):	102679
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. <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. <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. <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.	



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/054,756	02/26/2016	John McCue	141-I US CON2 DIV CON	9058

24949	7590	01/17/2018
TEITELBAUM & MACLEAN		
834 Colonel By Drive		
OTTAWA, ON K1S 5C4		
CANADA		

EXAMINER	
BATURAY, ALICIA	

ART UNIT	PAPER NUMBER
2441	

NOTIFICATION DATE	DELIVERY MODE
01/17/2018	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):

ANNETTE@PATENTS.ORG



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Application No. : 15054756
Applicant : McCue
Filing Date : 02/26/2016
Date Mailed : 01/17/2018

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

*A copy of this notice **MUST** be returned with the reply. Please address response to
"Mail Stop Issue Fee, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450".*

/Shirley Winslow/
Publication Branch
Office of Data Management
(571) 272-4200

NON-COMPLIANT ILLUSTRATIONS IN SPECIFICATION OR CLAIMS

☐ The illustration(s) in the location(s) referenced below do not come within the exceptions of 37 CFR 1.58(a). Please delete the illustration(s) from the specification or claims, provided the illustration(s) as part of the formal drawing(s) in accordance with 37 CFR 1.84, and amend the specification to provide a brief description of the drawings in accordance with 37 CFR 1.74. Please see the following item(s):

☐ Specification document coded dated , page(s) .

☐ Claims document coded dated , claim(s) .

☐ Amendment document coded dated .

☐ Other: .

☒ The chemical formula(s), mathematical formula(s), or table(s) in the location(s) referenced below contain shading (color/grayscale) and therefore do not comply with 37 CFR 1.52 and do not come within the exceptions of 37 CFR 1.58(a). Please delete chemical formula(s), mathematical formula(s), or table(s) with shading from the specification or claims, provide them as formal color drawing(s) in accordance with 37 CFR 1.84, including petition, fee, and amendment in accordance with 37 CFR 1.84(a)(2), and amend the specification to provide a brief description of the drawings in accordance with 37 CFR 1.74. Please see the following item(s):

☒ Specification document coded SPEC dated 02/26/2016, page(s) 16 - 17.

☐ Claims document coded dated , claim(s) .

☐ Amendment document coded dated .

☐ Other: .

Application No. 15054756

**IDENTIFICATION OF APPLICATION DEFICIENCIES
IN APPLICATION FILED ON OR AFTER SEPTEMBER 16, 2012**

- ☐ Applicant must provide legible text for the following item(s).
- ☐ Specification filed , page(s) .
- ☐ Claims filed , claim(s) .
- ☐ Other: .
- ☒ Applicant must provide missing information on the following page(s) of the specification by amending the specification to add the missing text. No new matter may be added.
Page/line no(s). p. 18 (Paragraph Nos. 0104 & 0126 in Table 2 missing data)
- ☐ The specification refers to one or more applications by attorney docket number and does not show the U.S. application number(s). Applicant must supply the U.S. application number in place of each attorney docket number.
Page/line no(s).
- ☐ Applicant must provide an Abstract of the Disclosure.
- ☐ The Application Data Sheet (ADS dated) does not supply the inventor's city and/or does not supply the inventor's U.S. state and/or does not supply the inventor's country. Applicant must submit a signed, in accordance with 37 CFR 1.76(e) and 1.33(b), application data sheet that corrects this deficiency. To be in compliance with 37 CFR 1.76, the corrected application data sheet must identify the information being changed by using underlining for additions and strikethroughs or brackets for deletions.
- ☐ Other:



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

24949 7590 01/05/2018
TEITELBAUM & MACLEAN
834 Colonel By Drive
OTTAWA, ON K1S 5C4
CANADA

EXAMINER

BATURAY, ALICIA

ART UNIT

PAPER NUMBER

2441

DATE MAILED: 01/05/2018

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/054,756	02/26/2016	John McCue	141-1 US CON2 DIV CON	9058

TITLE OF INVENTION: METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	04/05/2018

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), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

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

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

24949 7590 01/05/2018
TEITELBAUM & MACLEAN
834 Colonel By Drive
OTTAWA, ON K1S 5C4
CANADA

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/054,756	02/26/2016	John McCue	141-1 US CON2 DIV CON	9058

TITLE OF INVENTION: METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	04/05/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
BATURAY, ALICIA	2441	709-219000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

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

2. For printing on the patent front page, list

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

1 _____

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

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

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ 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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/054,756	02/26/2016	John McCue	141-1 US CON2 DIV CON	9058
24949 7590 01/05/2018 TEITELBAUM & MACLEAN 834 Colonel By Drive OTTAWA, ON K1S 5C4 CANADA			EXAMINER BATURAY, ALICIA	
			ART UNIT	PAPER NUMBER
			2441	

DATE MAILED: 01/05/2018

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(Applications filed on or after May 29, 2000)

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 15/054,756	Applicant(s) MCCUE ET AL.	
	Examiner Alicia Baturay	Art Unit 2441	AIA (First Inventor to File) Status No

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

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

1. ☒ This communication is responsive to the amendments filed 17 October 2017.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 29-40 and 42-49 (renumbered 1-20). 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 _____. | |

/Alicia Baturay/
Primary Examiner, Art Unit 2441

Notice of References Cited	Application/Control No. 15/054,756		Applicant(s)/Patent Under Reexamination MCCUE ET AL.	
	Examiner Alicia Baturay		Art Unit 2441	Page 1 of 5

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-5,533,182 A	07-1996	Bates; Cary L.	G06F3/04812	715/727
*	B	US-5,724,475 A	03-1998	Kirsten; Jeff P.	G08B13/19645	348/E7.086
*	C	US-6,452,609 B1	09-2002	Katinsky; Steve	G06F17/30053	707/E17.001
*	D	US-6,542,869 B1	04-2003	Footo; Jonathan	G06F17/30743	704/200.1
*	E	US-6,697,564 B1	02-2004	Toklu; Candemir	G06F17/30787	348/E5.067
*	F	US-6,810,409 B1	10-2004	Fry; Michael	H04L29/06	709/202
*	G	US-6,816,834 B2	11-2004	Jaroker; Jon	G10L15/26	704/235
*	H	US-6,850,982 B1	02-2005	Siegel; Kenneth P.	H04L67/1002	709/203
*	I	US-6,868,225 B1	03-2005	Brown; David Avraham	G11B27/034	348/E7.061
*	J	US-6,961,751 B1	11-2005	Bates; Cary Lee	G06F17/30884	707/999.003
*	K	US-6,988,169 B2	01-2006	Burger; Eric W.	G06F12/0862	711/137
*	L	US-7,143,353 B2	11-2006	McGee; Thomas	G06F17/30814	348/E5.108
*	M	US-7,242,809 B2	07-2007	Hunter; Kurt M.	G06K9/00711	375/240.16

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	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.

Notice of References Cited	Application/Control No. 15/054,756		Applicant(s)/Patent Under Reexamination MCCUE ET AL.	
	Examiner Alicia Baturay		Art Unit 2441	Page 2 of 5

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7,379,875 B2	05-2008	Burges; Christopher J. C.	G06F17/30743	700/94
*	B	US-7,466,898 B2	12-2008	Ohashi; Takeshi	H04N7/163	386/241
*	C	US-7,539,086 B2	05-2009	Jaroker; Jon	G06Q10/00	369/1
*	D	US-7,546,118 B2	06-2009	Camp, Jr.; William O.	H04L29/06027	455/418
*	E	US-7,610,394 B2	10-2009	Katinsky; Steve	G06F17/30053	709/217
*	F	US-7,680,849 B2	03-2010	Heller; David	G06F17/30569	707/621
*	G	US-7,686,215 B2	03-2010	Jones; Anne	G06F17/30899	235/375
*	H	US-7,730,407 B2	06-2010	Chiu; Patrick	G06F17/30017	715/721
*	I	US-7,797,446 B2	09-2010	Heller; David	G11B27/002	707/E17.109
*	J	US-7,958,441 B2	06-2011	Heller; David	G11B27/105	715/201
*	K	US-7,966,577 B2	06-2011	Chaudhri; Imran	G06F3/0482	345/473
*	L	US-8,009,961 B2	08-2011	Watanabe; Katsuhiko	G11B27/34	386/243
*	M	US-8,191,103 B2	05-2012	Hofrichter; Klaus	G06F17/30017	725/131

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	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.

Notice of References Cited	Application/Control No. 15/054,756		Applicant(s)/Patent Under Reexamination MCCUE ET AL.	
	Examiner Alicia Baturay		Art Unit 2441	Page 3 of 5

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-8,225,194 B2	07-2012	Rechsteiner; Paul	G11B27/034	707/805
*	B	US-8,285,809 B2	10-2012	McCue; John	G10L25/78	709/217
*	C	US-8,363,084 B2	01-2013	Cockerton; Craig George	G06F17/30817	348/14.01
*	D	US-8,370,888 B2	02-2013	Zimmermann; Roger	H04N21/2187	709/226
*	E	US-8,738,740 B2	05-2014	McCue; John	G10L25/78	709/219
*	F	US-9,203,884 B2	12-2015	McCue; John	G10L25/78	1/1
*	G	US-9,412,417 B2	08-2016	Jobs; Steven P.	G06F17/30053	1/1
*	H	US-2003/0046348 A1	03-2003	Pinto, Albert Gregory	G06Q10/107	709/206
*	I	US-2003/0221194 A1	11-2003	Thiagarajan, Balaji	H04N5/76	725/55
*	J	US-2004/0169683 A1	09-2004	Chiu, Patrick	G06F17/30017	715/776
*	K	US-2005/0144305 A1	06-2005	Fegan, Michael P. II	H04L29/06027	709/231
*	L	US-2005/0171763 A1	08-2005	Zhou, Jin Feng	G11B20/10527	704/201
*	M	US-2005/0245243 A1	11-2005	Zuniga, Michael A.	H04N21/26208	455/414.3

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	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.

Notice of References Cited	Application/Control No. 15/054,756		Applicant(s)/Patent Under Reexamination MCCUE ET AL.	
	Examiner Alicia Baturay		Art Unit 2441	Page 4 of 5

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2005/0250439 A1	11-2005	Leslie, Garthen	H04H20/71	455/11.1
*	B	US-2006/0015914 A1	01-2006	Lee; Jung-won	G11B27/034	725/101
*	C	US-2006/0140162 A1	06-2006	Vasa; Yojak	H04L51/38	370/338
*	D	US-2006/0265409 A1	11-2006	Neumann; David Lawrence	G06F17/30058	1/1
*	E	US-2007/0016636 A1	01-2007	Boerries; Marco	G06Q10/107	709/200
*	F	US-2007/0041356 A1	02-2007	Fontijn; Wilhelmus Franciscus Johannes	G11B27/105	370/352
*	G	US-2007/0083911 A1	04-2007	Madden; Thomas	G06F3/0482	725/135
*	H	US-2007/0100833 A1	05-2007	Chen; Xin	G06F17/30884	1/1
*	I	US-2007/0106675 A1	05-2007	Watanabe; Katsuhiko	G11B27/322	1/1
*	J	US-2007/0118657 A1	05-2007	Kreitzer; Stuart S.	G06F17/30038	709/227
*	K	US-2010/0174717 A1	07-2010	Fambon; Olivier	G06F9/548	707/741
*	L	US-2016/0050250 A1	02-2016	McCue; John	G10L25/78	709/219
*	M	US-2016/0182589 A1	06-2016	McCue; John	G10L25/78	709/219

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	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.

Notice of References Cited	Application/Control No. 15/054,756		Applicant(s)/Patent Under Reexamination MCCUE ET AL.	
	Examiner Alicia Baturay		Art Unit 2441	Page 5 of 5

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2017/0078357 A1	03-2017	McCue; John	G10L25/78	1/1
	B	US-				
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	JP 2003339010 A	11-2003	N/A	ABE, MOTOTSUGU	G11B27/105
	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.

Search Notes 	Application/Control No. 15054756	Applicant(s)/Patent Under Reexamination MCCUE ET AL.
	Examiner ALICIA BATURAY	Art Unit 2441

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	219	07/13/2017	AB
709	219	12/11/2017	AB

* 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
Searched EAST (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	07/13/2017	AB
Conducted Inventor Name Search	07/13/2017	AB
Conducted Class/Subclass Search	07/13/2017	AB
Updated EAST Search (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	12/11/2017	AB
Updated Inventor Name Search	12/11/2017	AB
Updated Class/Subclass Search	12/11/2017	AB
Conducted Interference Search	12/11/2017	AB

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
PG-PUB	See Search History	12/11/2017	AB

--	--



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

BIB DATA SHEET

CONFIRMATION NO. 9058

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
15/054,756	02/26/2016	709	2441	141-1 US CON2 DIV CON		
APPLICANTS Audio Pod Inc., Ottawa, CANADA INVENTORS John McCue, Ottawa, CANADA; Robert McCue,, Ottawa, CANADA; Gregory Shostakovsky, Kanata, CANADA; Glenn McCue, Ottawa, CANADA; ** CONTINUING DATA ***** This application is a CON of 14/924,028 10/27/2015 which is a DIV of 14/250,591 04/11/2014 PAT 9203884 which is a CON of 13/588,084 08/17/2012 PAT 8738740 which is a CON of 12/096,933 06/11/2008 PAT 8285809 which is a 371 of PCT/CA2006/002046 12/12/2006 which claims benefit of 60/749,632 12/13/2005 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 03/11/2016						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/ALICIA BATURAY/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY CANADA	SHEETS DRAWINGS 15	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 2
ADDRESS TEITELBAUM & MACLEAN 834 Colonel By Drive OTTAWA, ON K1S 5C4 CANADA						
TITLE METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES						
FILING FEE RECEIVED 730	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

Index of Claims 	Application/Control No. 15054756	Applicant(s)/Patent Under Reexamination MCCUE ET AL.
	Examiner ALICIA BATURAY	Art Unit 2441

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

☐ Claims renumbered in the same order as presented by applicant				☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE							
Final	Original	07/13/2017	12/11/2017						
	1	-	-						
	2	-	-						
	3	-	-						
	4	-	-						
	5	-	-						
	6	-	-						
	7	-	-						
	8	-	-						
	9	-	-						
	10	-	-						
	11	-	-						
	12	-	-						
	13	-	-						
	14	-	-						
	15	-	-						
	16	-	-						
	17	-	-						
	18	-	-						
	19	-	-						
	20	-	-						
	21	-	-						
	22	-	-						
	23	-	-						
	24	-	-						
	25	-	-						
	26	-	-						
	27	-	-						
	28	-	-						
1	29	✓	=						
2	30	✓	=						
3	31	✓	=						
4	32	✓	=						
5	33	✓	=						
7	34	✓	=						
8	35	✓	=						
9	36	✓	=						

<i>Index of Claims</i> 	Application/Control No. 15054756	Applicant(s)/Patent Under Reexamination MCCUE ET AL.
	Examiner ALICIA BATURAY	Art Unit 2441

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

☐ Claims renumbered in the same order as presented by applicant				☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE							
Final	Original	07/13/2017	12/11/2017						
10	37	✓	=						
11	38	✓	=						
12	39	✓	=						
13	40	✓	=						
	41	✓	-						
14	42	✓	=						
15	43	✓	=						
16	44	✓	=						
17	45	✓	=						
18	46	✓	=						
19	47	✓	=						
20	48	✓	=						
6	49		=						

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	726	McQue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 08:43
L2	14	709/217.cds. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 08:43
L4	38391	(book and mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 08:43
L5	8895	L4 AND (G06F3/04817 OR G06F17/30864 OR G06F3/0482 OR G06F17/2235 OR G06F17/24 OR G06F17/30554 OR G06F17/30867 OR G06F3/0484 OR G06F3/0488 OR G06F17/243 OR G06F17/2705 OR G06F17/30312 OR G06F17/3053 OR G06F17/30598 OR G06F21/10 OR G06F2203/04805 OR G06F3/0412 OR G06F3/0416 OR G06F3/0481 OR G06F3/04812 OR G06F3/0483 OR G06F3/04842 OR G06F3/04847 OR G06F11/3668 OR G06F12/0813 OR G06F12/10 OR G06F12/122 OR G06F17/214 OR G06F17/2247 OR G06F17/2288 OR G06F17/245 OR G06F17/246 OR G06F17/2735 OR G06F17/2785 OR G06F17/30011 OR G06F17/30165 OR G06F17/30241 OR G06F17/30256 OR G06F17/30259 OR G06F17/30303 OR G06F17/30315 OR G06F17/30339 OR G06F17/30424 OR G06F17/30545 OR G06F17/3056 OR G06F17/30572 OR G06F17/30601 OR G06F17/3064 OR G06F17/3066 OR G06F17/30696 OR G06F17/3087 OR G06F17/30905 OR G06F17/30943 OR G06F17/3097 OR G06F17/50 OR G06F2009/45562 OR G06F2009/45587 OR G06F21/16 OR G06F21/53 OR G06F21/602 OR G06F21/6209 OR G06F2203/04102 OR G06F2203/04806 OR G06F2212/154 OR G06F2212/60 OR G06F2212/62 OR G06F2212/69 OR G06F2216/03 OR G06F2221/034 OR G06F2221/2111 OR G06F2221/2133 OR G06F2221/2151 OR G06F3/016 OR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 08:43

		G06F3/0346 OR G06F3/0362 OR G06F3/0418 OR G06F3/044 OR G06F3/047 OR G06F3/04855 OR G06F3/04886 OR G06F3/0608 OR G06F3/0641 OR G06F3/065 OR G06F3/068 OR G06F3/14 OR G06F8/35 OR G06F8/41 OR G06F8/48 OR G06F8/60 OR G06F8/65 OR G06F8/67 OR G06F8/71 OR G06F9/4406 OR G06F9/4443 OR G06F9/4446 OR G06F9/45558 OR G06F9/485).CPC.)				
S1	1816	(segment\$7 or break\$3 or reduc\$3) same audio same (silence or "low decibel" or gaps)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 10:55
S2	1334	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same audio same (silence or "low decibel" or gaps))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 10:57
S3	3547	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same (silence or "low decibel" or gaps))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 10:58
S4	4	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same (silence or "low decibel" or gaps) same (natural adj language))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 10:58
S5	24	("5586264", "6621980", "20020184189", "20030091338", "20030172346", "20050061873", "20050091062", "20050111824", "20050250439", "20060236219", "20060242550", "20060271989").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:00
S6	0	audio-pod.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:03
S7	496	McQue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:04
S8	0	(McQue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:04
S9	552	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same (silence or "low decibel" or gaps) same (language or speech))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:06
S10	23	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2010/01/26 14:07

		(silence or "low decibel" or gaps) adj (language or speech))	DERWENT; IBM_TDB			
S11	3	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same (silence or "low decibel" or gaps) adj (language or speech))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:13
S12	8403	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:16
S13	268	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same (descriptor or index))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:17
S14	47	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same (descriptor or index) same (start or end or play))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:17
S15	4	("7379875", "7242809").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 11:24
S16	7	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same purg\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:58
S17	8403	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:58
S18	1060	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same buffer\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:58
S19	2167	@ad<"20051213" and (stream\$3 same buffer\$3 same (purg\$3 or empty\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:59
S20	450	@ad<"20051213" and (stream\$3 same buffer\$3 adj (purg\$3 or empty\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:59
S21	50	@ad<"20051213" and (audio same stream\$3 same buffer\$3 adj (purg\$3 or empty\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:59
S22	11	@ad<"20051213" and (audio same stream\$3 same used same buffer\$3 adj (purg\$3 or empty\$3))	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2010/01/27 16:01

			DERWENT; IBM_TDB			
S23	14	@ad<"20051213" and (stream\$3 same buffer\$3 same bookmark)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:04
S24	47	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same transfer adj rate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:09
S25	10	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same transfer adj rate and transaction)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:10
S26	1082	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:12
S27	207	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same audio same server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:12
S28	6	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same audio same server same (choice or choose or choosing))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:13
S29	0	@ad<"20051213" and (((Quality adj service) or QoS) same transfer adj rate and transaction adj rate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:15
S30	50	@ad<"20051213" and (((Quality adj service) or QoS) and transfer adj rate and transaction adj rate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:15
S31	10	@ad<"20051213" and (((Quality adj service) or QoS) or ((Service adj level adj agreement) or SLA)) same (choose adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:18
S32	2	"20080301318".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/20 13:42
S33	74	small adj audio adj files	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/20 16:11
S34	6	@ad<"20051213" and (book adj mark) same (audio adj stream)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2010/07/21 11:09

			DERWENT; IBM_TDB			
S35	58	@ad<"20051213" and (book adj mark) same audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:22
S36	3	@ad<"20051213" and (book adj mark) and (time adj offset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:22
S37	345	@ad<"20051213" and ((book adj mark) or mark\$3) same (time adj offset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:23
S38	76	@ad<"20051213" and ((book adj mark) or mark\$3) same (time adj offset) same position	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:23
S39	14	@ad<"20051213" and ((book adj mark) or mark\$3) and (time adj offset) same current adj position	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:24
S40	509	McQue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 16:09
S41	8	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 16:10
S42	21	("20050091062" "6621980" "20050061873" "20060271989" "0118858" "0281509" "20050111824" "20060242550" "6850982" "5586264" "20030221194" "20060140162" "20070041356" "20030172346" "20060236219" "7242809" "20020184189" "20030091338" "20050250439" "20050245243" "20070083911").PN.	US-PGPUB; USPAT	OR	OFF	2012/06/18 14:27
S43	0	(McQue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/06/18 14:27
S44	9	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/06/18 14:27
S45	185	(book adj mark\$3).clm.	US-PGPUB; USPAT; EPO; JPO;	OR	OFF	2012/06/18 14:38

			DERWENT; IBM_TDB			
S46	3	((audio or mp3 or mpeg or sound) same (book adj mark\$3)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/06/18 14:38
S52	1	"8285809".pn.	USPAT	OR	ON	2017/06/07 07:55
S53	1	"8738740".pn.	USPAT	OR	ON	2017/06/07 07:56
S54	1	"9203884".pn.	USPAT	OR	ON	2017/06/07 07:57
S55	1	"20160050250".pn.	US-PGPUB	OR	ON	2017/06/07 07:58
S56	716	McQue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:21
S57	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:21
S58	36366	(book and mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:21
S59	8316	S58 AND (G06F3/04817 OR G06F17/30864 OR G06F3/0482 OR G06F17/2235 OR G06F17/24 OR G06F17/30554 OR G06F17/30867 OR G06F3/0484 OR G06F3/0488 OR G06F17/243 OR G06F17/2705 OR G06F17/30312 OR G06F17/3053 OR G06F17/30598 OR G06F21/10 OR G06F2203/04805 OR G06F3/0412 OR G06F3/0416 OR G06F3/0481 OR G06F3/04812 OR G06F3/0483 OR G06F3/04842 OR G06F3/04847 OR G06F11/3668 OR G06F12/0813 OR G06F12/10 OR G06F12/122 OR G06F17/214 OR G06F17/2247 OR G06F17/2288 OR G06F17/245 OR G06F17/246 OR G06F17/2735 OR G06F17/2785 OR G06F17/30011 OR G06F17/30165 OR G06F17/30241 OR G06F17/30256 OR G06F17/30259 OR G06F17/30303 OR G06F17/30315 OR G06F17/30339 OR G06F17/30424 OR G06F17/30545 OR G06F17/3056 OR G06F17/30572 OR G06F17/30601 OR G06F17/3064 OR G06F17/3066 OR G06F17/30696 OR G06F17/3087 OR G06F17/30905 OR G06F17/30943 OR G06F17/3097 OR G06F17/50 OR G06F2009/45562 OR G06F2009/45587 OR G06F21/16 OR G06F21/53 OR G06F21/602 OR G06F21/6209 OR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:22

		G06F2203/04102 OR G06F2203/04806 OR G06F2212/154 OR G06F2212/60 OR G06F2212/62 OR G06F2212/69 OR G06F2216/03 OR G06F2221/034 OR G06F2221/2111 OR G06F2221/2133 OR G06F2221/2151 OR G06F3/016 OR G06F3/0346 OR G06F3/0362 OR G06F3/0418 OR G06F3/044 OR G06F3/047 OR G06F3/04855 OR G06F3/04886 OR G06F3/0608 OR G06F3/0641 OR G06F3/065 OR G06F3/068 OR G06F3/14 OR G06F8/35 OR G06F8/41 OR G06F8/48 OR G06F8/60 OR G06F8/65 OR G06F8/67 OR G06F8/71 OR G06F9/4406 OR G06F9/4443 OR G06F9/4446 OR G06F9/45558 OR G06F9/485).CPC.)				
S60	23	("20020069218" "20020184189" "20030091338" "20030167262" "20030172346" "20030221194" "20050061873" "20050091062" "20060236219" "20060242550" "20060271989" "20070041356" "20070067267" "20070083911" "20070124331" "20090171750" "20100281509" "20110118858" "5586264" "6621980" "6850982" "7242809" "7984147").PN.	US-PGPUB; USPAT	OR	ON	2017/06/07 08:30
S61	3	@ad<"20051213" and (open adj media adj stream)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:43
S62	784	@ad<"20051213" and (stream\$3 same (memory adj management))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:58
S63	748	@ad<"20051213" and (stream\$3 same (memory adj management) and tim\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:59
S64	218	@ad<"20051213" and (stream\$3 same (memory adj management) same tim\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:59
S65	3	@ad<"20051213" and (audio adj stream\$3 same (memory adj management))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:11
S66	978	@ad<"20051213" and (stream\$3 same ((memory adj management) or (garbage adj collect\$5)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:23
S67	101	@ad<"20051213" and (stream\$3 same network same ((memory adj management) or (garbage adj	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2017/06/07 09:24

		collect\$5)))	DERWENT; IBM_TDB			
S68	12	@ad<"20051213" and (stream\$3 same ((memory adj management) or (garbage adj collect\$5)) and ((book adj mark) or bookmark))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:33
S69	479	@ad<"20051213" and (stream\$3 same ((book adj mark) or bookmark))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:37
S70	726	(book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:39
S71	269	@ad<"20051213" and ((book adj mark) and audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:39
S72	1	"7466898".pn.	USPAT	OR	ON	2017/06/07 10:01
S73	763	"20000910".pd.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 10:06
S74	1	"20000910".pd. and playback.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 10:07
S75	153	@ad<"20051213" and (limited adj storage adj devices)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 13:49
S77	208	@ad<"20051213" and (stream\$3 same (limited adj storage))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 13:51
S78	7	@ad<"20051213" and (stream\$3 same (storage adj replac\$9))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 13:51
S79	550	@ad<"20051213" and (stream\$3 same (bookmark\$3 or book-mark\$3 or (book adj mark\$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 13:54
S80	1	"7143353".pn.	USPAT	OR	ON	2017/06/07 13:57
S81	1	"8009961".pn.	USPAT	OR	ON	2017/06/07 14:00
S82	1	"8191103".pn.	USPAT	OR	ON	2017/06/07

						14:12
S83	1	"7730407".pn.	USPAT	OR	ON	2017/06/07 14:37
S84	1	"20060015914".pn.	US-PGPUB	OR	ON	2017/06/07 16:29
S85	1	"20160182589".pn.	US-PGPUB	OR	ON	2017/07/13 08:23
S86	170	@ad<"20051213" and podcast\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 08:46
S87	25	@ad<"20051213" and Apple.as. and Podcasts	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 08:48
S88	1	"20060265409".pn.	US-PGPUB	OR	ON	2017/07/13 08:52
S89	1	"20060265637".pn.	US-PGPUB	OR	ON	2017/07/13 08:55
S90	29	@ad<"20051213" and Podcasts and bookmark\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 09:16
S91	1	"7624337".pn.	USPAT	OR	ON	2017/07/13 10:35
S92	5	@ad<"20051213" and Podcasts and bookmark\$3 and delet\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 15:27
S93	10	@ad<"20051213" and Apple.as. and Podcasts and delet\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 15:27

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	21	(Podcasts and delet\$7).clm.	US-PGPUB	OR	ON	2017/12/11 08:44
L7	1	(Podcasts and bookmark\$3 and delet\$3).clm.	US-PGPUB	OR	ON	2017/12/11 08:44
L8	6	(Audible and bookmark\$3 and delet\$3).clm.	US-PGPUB	OR	ON	2017/12/11 08:45
L9	405	podcast\$3.clm.	US-PGPUB	OR	ON	2017/12/11 08:45
L11	1781	(limited and storage and devices).clm.	US-PGPUB	OR	ON	2017/12/11 08:45
S47	3	((audio or mp3 or mpeg or sound) same (book adj mark\$3)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:39
S48	19	(small adj (audio or sound or mp3 or mpeg)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:39

S49	0	((book adj mark\$3) same (off adj set)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:40
S50	0	((book adj mark\$3) and (off adj set)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:41
S51	36	((small or short or miniscule) adj (audio or sound or mp3 or mpeg)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:41

12/ 11/ 2017 8:46:26 AM

C:\ Users\ abaturay\ Alicia's Documents\ EAST Searches\ 15054756-NaturalLanguageAudioGapsAudioOnDemandCON.wsp

Issue Classification 	Application/Control No. 15054756	Applicant(s)/Patent Under Reexamination MCCUE ET AL.	
	Examiner ALICIA BATURAY	Art Unit 2441	

CPC						
Symbol					Type	Version
H04L		65	/	607	F	2013-01-01
G10L		25	/	78	I	2013-01-01
H04L		29	/	06027	I	2013-01-01
H04L		65	/	4092	I	2013-01-01
H04L		65	/	602	I	2013-01-01
H04L		65	/	608	I	2013-01-01
H04L		65	/	60	I	2013-01-01
H04L		67	/	42	I	2013-01-01
H04L		65	/	4069	I	2013-01-01
			/			
			/			
			/			
			/			
			/			
			/			
			/			

CPC Combination Sets						
Symbol			Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/ALICIA BATURAY/ Primary Examiner.Art Unit 2441	12/11/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	29	7

Issue Classification 	Application/Control No. 15054756	Applicant(s)/Patent Under Reexamination MCCUE ET AL.
	Examiner ALICIA BATURAY	Art Unit 2441

US ORIGINAL CLASSIFICATION						INTERNATIONAL CLASSIFICATION													
CLASS		SUBCLASS				CLAIMED					NON-CLAIMED								
709		219				G	0	6	F	15 / 16 (2006.01.01)									
CROSS REFERENCE(S)																			
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)																		

NONE		Total Claims Allowed:	
		20	
(Assistant Examiner) /ALICIA BATURAY/ Primary Examiner.Art Unit 2441	(Date) 12/11/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	29	7

Issue Classification 	Application/Control No. 15054756	Applicant(s)/Patent Under Reexamination MCCUE ET AL.
	Examiner ALICIA BATURAY	Art Unit 2441

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		17	5	33	6	49								
	2		18	7	34										
	3		19	8	35										
	4		20	9	36										
	5		21	10	37										
	6		22	11	38										
	7		23	12	39										
	8		24	13	40										
	9		25		41										
	10		26	14	42										
	11		27	15	43										
	12		28	16	44										
	13	1	29	17	45										
	14	2	30	18	46										
	15	3	31	19	47										
	16	4	32	20	48										

NONE		Total Claims Allowed:	
(Assistant Examiner)		20	
(Date)			
/ALICIA BATURAY/ Primary Examiner.Art Unit 2441		12/11/2017	
(Primary Examiner)		(Date)	
		O.G. Print Claim(s)	O.G. Print Figure
		29	7

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: **McCue et al.**

Atty Docket No.: **141-1 US CON2 DIV CON**

Serial No.: **15/054,756**

Art Unit: **2441**

Filing Date: **February 26, 2016**

Examiner: **Baturay, Alicia**

Confirmation No.: **9058**

For: **METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS
MULTIPLE CLIENT DEVICES**

October 17, 2017

E-filed

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

AMENDMENT

Dear Commissioner:

In response to the Office Action dated July 19, 2017, 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 begin on page 8 of this paper.

Amendments to the Claims

1.-28. (Canceled)

29. (Currently amended) A method of rendering digital content across multiple client devices comprising:

 downloading first digital content corresponding to a media work from a network accessible library to a first client device via a network, the first digital content including at least a first portion of a first media stream;

 storing the first digital content on the first client device;

 rendering at least a portion of the first digital content on the client device;

 tracking a current position in the first media stream as the first digital content is rendered;

 creating a bookmark by setting the current position as a bookmarked position, the bookmark including information for identifying the media work and the bookmarked position;

 transferring the bookmark to a second client device via the network;

 downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position;

 storing the second digital content on the second client device;~~and~~

 rendering at least a portion of the second digital content on the second client device in dependence upon the bookmarked position;

identifying a range of content surrounding the bookmarked position in the second digital content as content to be retained;

releasing storage resources allocated to all content of the second digital content that is not identified as content to be retained on the second client device;

determining whether sufficient storage is available on the second client device to meet storage demand after releasing the storage resources allocated to the content of the second digital content that is not identified as content to be retained; and
if insufficient storage is available, narrowing the range of content surrounding the bookmarked position that is identified as content to be retained.

30. (Currently amended) The method of claim 29, wherein the network accessible library includes one or more server devices at one or more network addresses, and wherein the one or more server devices are each capable of serving digital content.

31. (Previously presented) The method of claim 30, wherein the first digital content is downloaded from at least one of the one or more server devices, and wherein the second digital content is downloaded from at least one of the one or more server devices.

32. (Previously presented) The method of claim 31, further comprising managing and optimizing network connections between the first client device and the one or more server devices and between the second client device and the one or more server devices, without user interaction.

33. (Previously presented) The method of claim 32, wherein the network connections are managed and optimized to maintain uninterrupted rendering of the first digital content and the second digital content.

34. (Previously presented) The method of claim 29, wherein the first digital content and the second digital content each include audio content, illustration content, video content, audio/video content, advertising content, static graphic content, moving graphic content, or a combination thereof.

35. (Previously presented) The method of claim 29, wherein the first media stream and the second media stream each include a plurality of digital media segments.

In re Patent Application of: **McCue et al.**
Serial No.: **15/054,756**
Filing Date: **February 26, 2016**

36. (Previously presented) The method of claim 35, wherein the digital media segments are directly addressable.

37. (Previously presented) The method of claim 35, wherein the digital media segments have sizes that are dependent on a network throughput rate, a media stream size, natural language gaps, a target segment size, a target segment size range, or a combination thereof.

38. (Previously presented) The method of claim 29, wherein the bookmark is transferred from the first client device to the second client device via the network accessible library.

39. (Previously presented) The method of claim 29, wherein the bookmark is transferred from the first client device to the second client device by bypassing the network accessible library.

40. (Previously presented) The method of claim 29, wherein transferring the bookmark includes sending the bookmark from the first client device while the first client device is connected to the network, and receiving the bookmark by the second client device while the second client device is connected to the network; and wherein the bookmark is transferred without requiring a simultaneous connection of the first client device and the second client device to the network.

41. (Canceled)

42. (Currently amended) The method of claim ~~41~~ 29, ~~wherein the storage resources are managed in dependence upon the bookmarked position, the current position in the first media stream, or a current position in the second media stream~~ further comprising:

identifying a range of content surrounding the current position in the first digital content as content to be retained;

releasing storage resources allocated to all content of the first digital content that is not identified as content to be retained on the first client device;

determining whether sufficient storage is available on the first client device to meet storage demand after releasing the storage resources allocated to the content of the first digital content that is not identified as content to be retained; and
if insufficient storage is available, narrowing the range of content surrounding the current position that is identified as content to be retained.

43. (Currently amended) The method of claim ~~41~~ 29, ~~wherein managing the storage resources includes, further comprising:~~

deleting the bookmark from the second client device; and
upon deleting the bookmark, deleting the first digital content from the first client device and the second digital content from the second client device.

44. (Previously presented) The method of claim 29, wherein the second digital content is rendered starting from a start position, and wherein the start position corresponds to the bookmarked position adjusted by an arbitrary value.

45. (Previously presented) The method of claim 29, further comprising downloading third digital content corresponding to the media work from the network accessible library to the first client device via the network, the third digital content including at least a portion of a third media stream, the portion of the third media stream including the bookmarked position, the first media stream and the third media stream having different data formats; and storing the third digital content on the first client device.

46. (Currently amended) The method of claim 45, further comprising ~~managing storage resources used to store the first digital content and the third digital content on the first client device and the second digital content on the second client device, in dependence upon the bookmarked position, the current position in the first media stream, or a current position in the second media stream;~~

identifying a range of content surrounding the bookmarked position in the first digital content as content to be retained;

identifying a range of content surrounding the current position in the first digital content as content to be retained;

identifying a range of content surrounding the bookmarked position in the third digital content as content to be retained; and

releasing storage resources allocated to all content of the first digital content and the third digital content that is not identified as content to be retained on the first client device.

47. (Previously presented) The method of claim 29, wherein the second digital content includes a second media stream, and wherein the first media stream and the second media stream have different data formats.

48. (Currently amended) A system for rendering digital content across multiple client devices comprising:

a first client device;

a second client device; and

a network accessible library accessible by the first and second client devices via a network;

wherein the first client device is configured to:

download first digital content corresponding to a media work from the network accessible library via the network, the first digital content including at least a first portion of a first media stream;

store the first digital content;

render at least a portion of the first digital content;

track a current position in the first media stream as the first digital content is rendered;

create a bookmark by setting the current position as a bookmarked position, the bookmark including information for identifying the media work and the bookmarked position; and

transfer the bookmark to the second client device via the network; and

wherein the second client device is configured to:

download second digital content corresponding to the media work from the network accessible library via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position;

store the second digital content;~~and~~

render at least a portion of the second digital content in dependence upon the bookmarked position;

identify a range of content surrounding the bookmarked position in the second digital content as content to be retained;

release storage resources allocated to all content of the second digital content that is not identified as content to be retained on the second client device;

determine whether sufficient storage is available on the second client device to meet storage demand after releasing the storage resources allocated to the content of the second digital content that is not identified as content to be retained; and

if insufficient storage is available, narrow the range of content surrounding the bookmarked position that is identified as content to be retained.

49. (New) The method of claim 30, wherein the network accessible library includes a plurality of server devices, further comprising:

collecting, by the second client device, performance metrics for each of the server devices in the network accessible library; and

selecting, by the second client device, one of the server devices in the network accessible library on the basis of the collected performance metrics, wherein the second digital content is downloaded from the selected server device.

Remarks

This Amendment and these Remarks are intended to be responsive to the Office Action dated July 19, 2017. By this Amendment, claims 29, 30, 42, 43, 46, and 48 are amended, claim 41 is canceled, and new claim 49 is added. Claims 29–40 and 42–49 are now pending in the present application.

1. Claim Amendments

Independent claims 29 and 48 have been amended to specify that a range of content surrounding the bookmarked position in the second digital content is identified as content to be retained, that storage resources allocated to all content of the second digital content that is not identified as content to be retained are released on the second client device, that whether sufficient storage is available on the second client device to meet storage demand after releasing the storage resources allocated to the content of the second digital content that is not identified as content to be retained is determined, and that, if insufficient storage is available, the range of content surrounding the bookmarked position that is identified as content to be retained is narrowed. Support for this amendment is found at paragraphs [099] and [0139]–[0144] of the original specification, for example.

Accordingly, claim 41 has been canceled.

New claim 49 has been added to define an embodiment in which performance metrics for each of the server devices in the network accessible library are collected by the second client device, one of the server devices in the network accessible library is selected by the second client device on the basis of the collected performance metrics, and the second digital content is downloaded from the selected server device. Support for this claim is found at paragraphs [062]–[064] of the original specification, for example.

In re Patent Application of: **McCue et al.**
Serial No.: **15/054,756**
Filing Date: **February 26, 2016**

The claims as a whole have also been amended for clarity and consistency. No new matter has been added.

2. Claim Rejections under 35 U.S.C. 103

Claims 29, 34–40, 42, 44, and 48 stand rejected under pre-AIA 35 USC 103(a) as being unpatentable over U.S. Patent Application Publication No. 2007/0124331 to Griffin ("Griffin") in view of U.S. Patent No. 8,392,528 to Kreitzer et al. ("Kreitzer"). Claims 30–33 stand rejected under pre-AIA 35 USC 103(a) as being unpatentable over Griffin, in view of Kreitzer, and further in view of U.S. Patent No. 7,984,147 to Daoud et al. ("Daoud"). Claim 43 stands rejected under pre-AIA 35 USC 103(a) as being unpatentable over Griffin, in view of Kreitzer, further in view of U.S. Patent No. 7,624,337 to Sull et al. ("Sull"), and further in view of U.S. Patent Application Publication No. 2006/0265637 to Marriott et al. ("Marriott"). Claims 45–47 stand rejected under pre-AIA 35 USC 103(a) as being unpatentable over Griffin, in view of Kreitzer, in view of Sull.

The Applicants respectfully traverse all of these rejections for at least the following reasons.

2.1. Independent Claims 29 and 48

Among other things, independent claims 29 and 48, as amended, each require:

identifying a range of content surrounding the bookmarked position in the second digital content as content to be retained;

releasing storage resources allocated to all content of the second digital content that is not identified as content to be retained on the second client device;

determining whether sufficient storage is available on the second client device to meet storage demand after releasing the storage resources allocated to the content of the second digital content that is not identified as content to be retained; and

In re Patent Application of: **McCue et al.**
Serial No.: **15/054,756**
Filing Date: **February 26, 2016**

if insufficient storage is available, narrowing the range of content surrounding the bookmarked position that is identified as content to be retained.

These features are analogous to inventive features of claims 30 and 32 in co-pending, co-owned U.S. Patent Application Serial No. 14/924,028 to McCue et al., which were found to be allowable in the Final Action of September 27, 2017, where Griffin and Kreitzer were also cited.

Therefore, the proposed combination of Griffin and Kreitzer does not teach or suggest all the elements of claims 29 and 48. Accordingly, claims 29 and 48 are patentable over the cited references. The Applicants respectfully request that the rejections of these claims be withdrawn.

2.2. Dependent Claims 30–40 and 42–47

Claims 30–40 and 42–47 ultimately depend from claim 29. Therefore, these claims are patentable for at least the reasons set forth above with respect to claim 29.

3. New Claim 49

New claim 49 ultimately depends from claim 29. Therefore, this claim is patentable for at least the reasons set forth above with respect to claim 29.

4. Conclusion

Reconsideration of the present application is respectfully requested in light of the amendments to the claims and the accompanying remarks.

Should any minor informalities need to be addressed, the Examiner is encouraged to contact the undersigned attorney at the telephone number listed below.

In re Patent Application of: **McCue et al.**
Serial No.: **15/054,756**
Filing Date: **February 26, 2016**

The Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Deposit Account No. 50-2810.

Please associate this application with Customer No. 24949.

Respectfully submitted,



Neil Teitelbaum
Reg. No. 38,793

Teitelbaum & MacLean
Registered Patent Agents Limited
834 Colonel By Drive
Ottawa, ON
Canada
K1S 5C4

Tel: (613) 302 2273
Fax: (613) 523-6799
Email: nt@patents.org

Electronic Acknowledgement Receipt

EFS ID:	30673941
Application Number:	15054756
International Application Number:	
Confirmation Number:	9058
Title of Invention:	METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES
First Named Inventor/Applicant Name:	John McCue
Customer Number:	24949
Filer:	Neil Teitelbaum/Melanie Budarick
Filer Authorized By:	Neil Teitelbaum
Attorney Docket Number:	141-1 US CON2 DIV CON
Receipt Date:	17-OCT-2017
Filing Date:	26-FEB-2016
Time Stamp:	09:51:26
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	Amendment/Req. Reconsideration-After Non-Final Reject	141-1USCON2DIVCONOAResponse_final.pdf	128179 44975bd837e2da42d0e66875191d7d313a8c27c1	no	11

Warnings:

Information:	
Total Files Size (in bytes):	128179
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. <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. <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. <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.	

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/054,756	Filing Date 02/26/2016	☐ To be Mailed
---	---	----------------------------------	---------------------------------------

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

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

APPLICATION AS AMENDED – PART II

AMENDMENT	(Column 1)	(Column 2)	(Column 3)	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	10/17/2017	CLAIMS REMAINING AFTER AMENDMENT					
	Total (37 CFR 1.16(j))	* 20	Minus	** 20	= 0	x \$40 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	x \$210 =	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)	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
		CLAIMS REMAINING AFTER AMENDMENT					
	Total (37 CFR 1.16(j))	*	Minus	**	=	X \$ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
ANNIE C. SINGLETON

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/054,756	02/26/2016	John McCue	141-1 US CON2 DIV CON	9058
24949 7590 07/19/2017 TEITELBAUM & MACLEAN 834 Colonel By Drive OTTAWA, ON K1S 5C4 CANADA			EXAMINER BATURAY, ALICIA	
			ART UNIT 2441	PAPER NUMBER
			NOTIFICATION DATE 07/19/2017	DELIVERY MODE 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):

ANNETTE@PATENTS.ORG

Office Action Summary	Application No. 15/054,756	Applicant(s) MCCUE ET AL.	
	Examiner Alicia Baturay	Art Unit 2441	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2016.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ 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.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 29-48 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 29-48 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 26 February 2016 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____. | 4) ☐ Other: ____. |

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.
2. Claims 29-48 are presented for examination.

Claim Rejections - 35 USC § 103

3. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

4. The following is a quotation of pre-AIA 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, 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.

5. **Claims 29, 34-42, 44, and 48 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Griffin (U.S. 2007/0124331) and further in view of Kreitzer et al. (U.S. 8,392,528).**

Griffin was cited in the IDS filed on 26 February 2016.

6. With respect to claim 29, Griffin teaches a method of rendering digital content across multiple client devices (Griffin, page 1, paragraph 5) comprising: downloading first digital content (Griffin, Fig. 1, element 140; pages 2-3, paragraph 20) corresponding to a media work (Griffin, page 1, paragraphs 2, 4, and 9) from a network accessible library (Griffin, pages 2-3, paragraphs 13 and 20) to a first client device (Griffin, Fig. 1, element 100; pages 1-2, paragraphs 9-14) via a network (Griffin, Fig. 1, element 134; pages 2-3, paragraphs 14, 18, and 20), the first digital content including at least a first portion of a first media stream (Griffin, Fig. 1, element 140; pages 2-3, paragraph 20); storing the first digital content on the first client device (Griffin, Fig. 1, elements 100, 132, and 140; pages 2-3, paragraph 20); rendering at least a portion of the first digital content on the client device; tracking a current position in the first media stream as the first digital content is rendered; creating a bookmark by setting the current position as a bookmarked position, the bookmark including information for identifying the media work and the bookmarked position (Griffin, pages 2-3, paragraph 20); transferring the bookmark (Griffin, page 3, paragraph 22) to a second client device via the network (Griffin, Fig. 1, element 200; page 2, paragraphs 15-18); storing the second digital content on the second client device (Griffin, Fig. 1, elements 200, 232, and 240; page 3, paragraph 22); and rendering at least a portion of the second digital content on the second client device in dependence upon the bookmarked position (Griffin, page 3, paragraph 22).

Griffin does not explicitly teach downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second portion of the first media stream or at least a

portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position.

However, Kreitzer teaches downloading second digital content corresponding to the media work (Kreitzer, col. 5, line 34 – col. 6, line 9) from the network accessible library (Kreitzer, col. 5, lines 57-61) to the second client device (Kreitzer, col. 5, line 45 – col. 6, line 9) via the network (Kreitzer, col. 5, lines 33-35), the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position (Kreitzer, col. 5, line 34 – col. 6, line 9).

It would have been obvious to one of ordinary skill in the art before the time the invention was made to modify Griffin in view of Kreitzer in order to enable downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position. One would be motivated to do so in order to provide a data construct and a way to easily share great podcasts (or easy access thereto) with their friends and colleagues. If a listener enjoys a particular podcast on a mobile phone and would like to share or refer the podcast to another user perhaps because it is very entertaining or contains information that would be of interest to the other party, then embodiments herein enable such access to other users along with the ability to annotate or comment on such podcasts and transmit such annotation or commentary with others (Kreitzer, col. 1, lines 39-47).

7. With respect to claim 34, the combination of Griffin and Kreitzer teaches the invention described in claim 29, including the method wherein the first digital content and the second digital content each include audio content, illustration content, video content, audio/video content, advertising content, static graphic content, moving graphic content, or a combination thereof (Griffin, pages 1-2, paragraphs 2, 3, 9, 13, and 19).

8. With respect to claim 35, the combination of Griffin and Kreitzer teaches the invention described in claim 29, including the method wherein the first media stream and the second media stream each include a plurality of digital media segments (Kreitzer, col. 4, lines 34-35).

9. With respect to claim 36, the combination of Griffin and Kreitzer teaches the invention described in claim 35, including the method wherein the digital media segments (Kreitzer, col. 4, lines 34-35) are directly addressable (Kreitzer, col. 5, line 34 – col. 6, line 9).

10. With respect to claim 37, the combination of Griffin and Kreitzer teaches the invention described in claim 35, including the method wherein the digital media segments have sizes that are dependent on a network throughput rate, a media stream size, natural language gaps, a target segment size, a target segment size range (Kreitzer, col. 5, line 34 – col. 6, line 9), or a combination thereof.

11. With respect to claim 38, the combination of Griffin and Kreitzer teaches the invention described in claim 29, including the method wherein the bookmark is transferred from the first

client device to the second client device via the network accessible library (Kreitzer, col. 5, line 34 – col. 6, line 9).

12. With respect to claim 39, the combination of Griffin and Kreitzer teaches the invention described in claim 29, including the method wherein the bookmark is transferred from the first client device to the second client device by bypassing the network accessible library (Griffin, page 3, paragraph 22).

13. With respect to claim 40, the combination of Griffin and Kreitzer teaches the invention described in claim 29, including the method wherein transferring the bookmark includes sending the bookmark from the first client device while the first client device is connected to the network, and receiving the bookmark by the second client device while the second client device is connected to the network; and wherein the bookmark is transferred without requiring a simultaneous connection of the first client device and the second client device to the network (Griffin, page 3, paragraph 22).

14. With respect to claim 41, the combination of Griffin and Kreitzer teaches the invention described in claim 29, including the method further comprising managing storage resources used to store the first digital content on the first client device (Griffin, Fig. 1, elements 100, 132, and 140; pages 2-3, paragraph 20) and the second digital content on the second client device (Griffin, Fig. 1, elements 200, 232, and 240; page 3, paragraph 22).

15. With respect to claim 42, the combination of Griffin and Kreitzer teaches the invention described in claim 41, including the method wherein the storage resources are managed in dependence upon the bookmarked position, the current position in the first media stream, or a current position in the second media stream (Griffin, page 3, paragraph 22).

16. With respect to claim 44, the combination of Griffin and Kreitzer teaches the invention described in claim 29, including the method wherein the second digital content is rendered starting from a start position, and wherein the start position corresponds to the bookmarked position adjusted by an arbitrary value (Griffin, page 3, paragraph 22).

17. With respect to claim 48, Griffin teaches a system for rendering digital content across multiple client devices (Griffin, page 1, paragraph 5) comprising: a first client device (Griffin, Fig. 1, element 100; pages 1-2, paragraphs 9-14); a second client device (Griffin, Fig. 1, element 200; page 2, paragraphs 15-18); and a network accessible library accessible by the first client device (Griffin, pages 2-3, paragraphs 13 and 20) via a network (Griffin, Fig. 1, element 134; pages 2-3, paragraphs 14, 18, and 20); wherein the first client device is configured to: download first digital content (Griffin, Fig. 1, element 140; pages 2-3, paragraph 20) corresponding to a media work (Griffin, page 1, paragraphs 2, 4, and 9) from a network accessible library (Griffin, pages 2-3, paragraphs 13 and 20) via a network (Griffin, Fig. 1, element 134; pages 2-3, paragraphs 14, 18, and 20), the first digital content including at least a first portion of a first media stream (Griffin, Fig. 1, element 140; pages 2-3, paragraph 20); store the first digital content (Griffin, Fig. 1, elements 100, 132, and 140; pages 2-3, paragraph 20); render at least a portion of

the first digital content; track a current position in the first media stream as the first digital content is rendered; create a bookmark by setting the current position as a bookmarked position, the bookmark including information for identifying the media work and the bookmarked position (Griffin, pages 2-3, paragraph 20); and transfer the bookmark (Griffin, page 3, paragraph 22) to the second client device via the network (Griffin, Fig. 1, element 200; page 2, paragraphs 15-18); wherein the second client device is configured to: store the second digital content (Griffin, Fig. 1, elements 200, 232, and 240; page 3, paragraph 22); and render at least a portion of the second digital content in dependence upon the bookmarked position (Griffin, page 3, paragraph 22).

Griffin does not explicitly teach a network accessible library accessible by the second client device via a network; download second digital content corresponding to the media work from the network accessible library via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position.

However, Kreitzer teaches a network accessible library accessible by the second client device via a network (Kreitzer, col. 5, lines 57-61); download second digital content corresponding to the media work (Kreitzer, col. 5, line 34 – col. 6, line 9) from the network accessible library (Kreitzer, col. 5, lines 57-61) via the network (Kreitzer, col. 5, lines 33-35), the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position (Kreitzer, col. 5, line 34 – col. 6, line 9).

It would have been obvious to one of ordinary skill in the art before the time the invention was made to modify Griffin in view of Kreitzer in order to enable a network accessible library accessible by the second client device via a network; download second digital content corresponding to the media work from the network accessible library via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position. One would be motivated to do so in order to provide a data construct and a way to easily share great podcasts (or easy access thereto) with their friends and colleagues. If a listener enjoys a particular podcast on a mobile phone and would like to share or refer the podcast to another user perhaps because it is very entertaining or contains information that would be of interest to the other party, then embodiments herein enable such access to other users along with the ability to annotate or comment on such podcasts and transmit such annotation or commentary with others (Kreitzer, col. 1, lines 39-47).

18. Claims 30-33 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Griffin and Kreitzer and further in view of Daoud et al. (U.S. 7,984,147).

Daoud was cited in the IDS filed on 26 February 2016.

19. With respect to claim 30, Griffin teaches the invention described in claim 29, including a method of rendering digital content across multiple client devices (Griffin, page 1, paragraph 5) comprising: downloading first digital content (Griffin, Fig. 1, element 140; pages 2-3, paragraph

20) corresponding to a media work (Griffin, page 1, paragraphs 2, 4, and 9) from a network accessible library (Griffin, pages 2-3, paragraphs 13 and 20) to a first client device (Griffin, Fig. 1, element 100; pages 1-2, paragraphs 9-14) via a network (Griffin, Fig. 1, element 134; pages 2-3, paragraphs 14, 18, and 20), the first digital content including at least a first portion of a first media stream (Griffin, Fig 1, element 140; pages 2-3, paragraph 20); storing the first digital content on the first client device (Griffin, Fig. 1, elements 100, 132, and 140; pages 2-3, paragraph 20); rendering at least a portion of the first digital content on the client device; tracking a current position in the first media stream as the first digital content is rendered; creating a bookmark by setting the current position as a bookmarked position, the bookmark including information for identifying the media work and the bookmarked position (Griffin, pages 2-3, paragraph 20); transferring the bookmark (Griffin, page 3, paragraph 22) to a second client device via the network (Griffin, Fig. 1, element 200; page 2, paragraphs 15-18); storing the second digital content on the second client device (Griffin, Fig. 1, elements 200, 232, and 240; page 3, paragraph 22); and rendering at least a portion of the second digital content on the second client device in dependence upon the bookmarked position (Griffin, page 3, paragraph 22).

Griffin does not explicitly teach downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position.

However, Kreitzer teaches downloading second digital content corresponding to the media work (Kreitzer, col. 5, line 34 – col. 6, line 9) from the network accessible library

(Kreitzer, col. 5, lines 57-61) to the second client device (Kreitzer, col. 5, line 45 – col. 6, line 9) via the network (Kreitzer, col. 5, lines 33-35), the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position (Kreitzer, col. 5, line 34 – col. 6, line 9).

It would have been obvious to one of ordinary skill in the art before the time the invention was made to modify Griffin in view of Kreitzer in order to enable downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position. One would be motivated to do so in order to provide a data construct and a way to easily share great podcasts (or easy access thereto) with their friends and colleagues. If a listener enjoys a particular podcast on a mobile phone and would like to share or refer the podcast to another user perhaps because it is very entertaining or contains information that would be of interest to the other party, then embodiments herein enable such access to other users along with the ability to annotate or comment on such podcasts and transmit such annotation or commentary with others (Kreitzer, col. 1, lines 39-47).

The combination of Griffin and Kreitzer does not explicitly teach the method wherein the network accessible library includes one or more server devices at one or more network addresses, wherein the one or more server devices are each capable of serving digital content.

However, Daoud teaches the method wherein the network accessible library includes one or more server devices at one or more network addresses, wherein the one or more server devices are each capable of serving digital content (Daoud, Fig. 6; col. 8, lines 31-50).

It would have been obvious to one of ordinary skill in the art before the time the invention was made to modify the combination of Griffin and Kreitzer in view of Daoud in order to enable the method wherein the network accessible library includes one or more server devices at one or more network addresses, wherein the one or more server devices are each capable of serving digital content. One would be motivated to do so in order to provide load balancing tools to direct incoming transactions to the server in the server pool in such a way that the traffic is balanced across all the servers in the pool (Daoud, col. 1, lines 23-26).

20. With respect to claim 31, the combination of Griffin, Kreitzer, Daoud teaches the invention described in claim 30, including the method wherein the first digital content is downloaded from at least one of the one or more server devices, and wherein the second digital content is downloaded from at least one of the one or more server devices (Daoud, Fig. 6; col. 8, lines 31-50).

21. With respect to claim 32, the combination of Griffin, Kreitzer, Daoud teaches the invention described in claim 31, including the method further comprising managing and optimizing network connections between the first client device and the one or more server devices and between the second client device and the one or more server devices, without user interaction (Daoud, Fig. 6; col. 8, lines 31-50).

22. With respect to claim 33, the combination of Griffin, Kreitzer, Daoud teaches the invention described in claim 32, including the method wherein the network connections are managed and optimized to maintain uninterrupted rendering of the first digital content and the second digital content (Daoud, Fig. 6; col. 8, lines 31-50).

23. Claim 43 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Griffin and Kreitzer in view of Sull et al. (U.S. 7,624,337) and further in view of Marriott et al. (U.S. 2006/0265637).

24. With respect to claim 43, Griffin teaches the invention described in claim 41, including a method of rendering digital content across multiple client devices (Griffin, page 1, paragraph 5) comprising: downloading first digital content (Griffin, Fig. 1, element 140; pages 2-3, paragraph 20) corresponding to a media work (Griffin, page 1, paragraphs 2, 4, and 9) from a network accessible library (Griffin, pages 2-3, paragraphs 13 and 20) to a first client device (Griffin, Fig. 1, element 100; pages 1-2, paragraphs 9-14) via a network (Griffin, Fig. 1, element 134; pages 2-3, paragraphs 14, 18, and 20), the first digital content including at least a first portion of a first media stream (Griffin, Fig 1, element 140; pages 2-3, paragraph 20); storing the first digital content on the first client device (Griffin, Fig. 1, elements 100, 132, and 140; pages 2-3, paragraph 20); rendering at least a portion of the first digital content on the client device; tracking a current position in the first media stream as the first digital content is rendered; creating a bookmark by setting the current position as a bookmarked position, the bookmark

including information for identifying the media work and the bookmarked position (Griffin, pages 2-3, paragraph 20); transferring the bookmark (Griffin, page 3, paragraph 22) to a second client device via the network (Griffin, Fig. 1, element 200; page 2, paragraphs 15-18); storing the second digital content on the second client device (Griffin, Fig. 1, elements 200, 232, and 240; page 3, paragraph 22); and rendering at least a portion of the second digital content on the second client device in dependence upon the bookmarked position (Griffin, page 3, paragraph 22).

Griffin does not explicitly teach downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position.

However, Kreitzer teaches downloading second digital content corresponding to the media work (Kreitzer, col. 5, line 34 – col. 6, line 9) from the network accessible library (Kreitzer, col. 5, lines 57-61) to the second client device (Kreitzer, col. 5, line 45 – col. 6, line 9) via the network (Kreitzer, col. 5, lines 33-35), the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position (Kreitzer, col. 5, line 34 – col. 6, line 9).

It would have been obvious to one of ordinary skill in the art before the time the invention was made to modify Griffin in view of Kreitzer in order to enable downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second

portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position. One would be motivated to do so in order to provide a data construct and a way to easily share great podcasts (or easy access thereto) with their friends and colleagues. If a listener enjoys a particular podcast on a mobile phone and would like to share or refer the podcast to another user perhaps because it is very entertaining or contains information that would be of interest to the other party, then embodiments herein enable such access to other users along with the ability to annotate or comment on such podcasts and transmit such annotation or commentary with others (Kreitzer, col. 1, lines 39-47).

The combination of Griffin and Kreitzer does not explicitly teach the method wherein managing the storage resources includes, upon deleting the bookmark.

However, Sull teaches the method wherein managing the storage resources includes, upon deleting the bookmark (Sull, col. 30, lines 46-56).

It would have been obvious to one of ordinary skill in the art before the time the invention was made to modify the combination of Griffin and Kreitzer in view of Sull in order to enable the method wherein managing the storage resources includes, upon deleting the bookmark. One would be motivated to do so in order to facilitate the storing, searching, and retrieving of the multimedia information. There are occasions where a user who once accessed particular multimedia content needs or desires to access the content again at a later time, possibly at or from a different place. In another case, a user who once viewed multimedia content at work may want to continue to view the content at home. Most users would want to restart accessing the content from the point where they had left off (Sull, col. 1, lines 23-37).

The combination of Griffin, Kreitzer, and Sull does not explicitly teach deleting the first digital content from the first client device and the second digital content from the second client device.

However, Marriot teaches deleting the first digital content from the first client device and the second digital content from the second client device (Marriot, page 8, paragraph 95).

It would have been obvious to one of ordinary skill in the art before the time the invention was made to modify the combination of Griffin, Kreitzer, and Sull in view of Marriot in order to enable deleting the first digital content from the first client device and the second digital content from the second client device. One would be motivated to do so in order to facilitate use of podcasts on a portable media device (Marriot, page 1, paragraph 10).

25. Claims 45-57 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Griffin and Kreitzer and further in view of Sull.

26. With respect to claim 45, Griffin teaches the invention described in claim 29, including a method of rendering digital content across multiple client devices (Griffin, page 1, paragraph 5) comprising: downloading first digital content (Griffin, Fig. 1, element 140; pages 2-3, paragraph 20) corresponding to a media work (Griffin, page 1, paragraphs 2, 4, and 9) from a network accessible library (Griffin, pages 2-3, paragraphs 13 and 20) to a first client device (Griffin, Fig. 1, element 100; pages 1-2, paragraphs 9-14) via a network (Griffin, Fig. 1, element 134; pages 2-3, paragraphs 14, 18, and 20), the first digital content including at least a first portion of a first

media stream (Griffin, Fig 1, element 140; pages 2-3, paragraph 20); storing the first digital content on the first client device (Griffin, Fig. 1, elements 100, 132, and 140; pages 2-3, paragraph 20); rendering at least a portion of the first digital content on the client device; tracking a current position in the first media stream as the first digital content is rendered; creating a bookmark by setting the current position as a bookmarked position, the bookmark including information for identifying the media work and the bookmarked position (Griffin, pages 2-3, paragraph 20); transferring the bookmark (Griffin, page 3, paragraph 22) to a second client device via the network (Griffin, Fig. 1, element 200; page 2, paragraphs 15-18); storing the second digital content on the second client device (Griffin, Fig. 1, elements 200, 232, and 240; page 3, paragraph 22); and rendering at least a portion of the second digital content on the second client device in dependence upon the bookmarked position (Griffin, page 3, paragraph 22).

Griffin does not explicitly teach downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position.

However, Kreitzer teaches downloading second digital content corresponding to the media work (Kreitzer, col. 5, line 34 – col. 6, line 9) from the network accessible library (Kreitzer, col. 5, lines 57-61) to the second client device (Kreitzer, col. 5, line 45 – col. 6, line 9) via the network (Kreitzer, col. 5, lines 33-35), the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the

second portion of the first media stream or the portion of the second media stream including the bookmarked position (Kreitzer, col. 5, line 34 – col. 6, line 9).

It would have been obvious to one of ordinary skill in the art before the time the invention was made to modify Griffin in view of Kreitzer in order to enable downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position. One would be motivated to do so in order to provide a data construct and a way to easily share great podcasts (or easy access thereto) with their friends and colleagues. If a listener enjoys a particular podcast on a mobile phone and would like to share or refer the podcast to another user perhaps because it is very entertaining or contains information that would be of interest to the other party, then embodiments herein enable such access to other users along with the ability to annotate or comment on such podcasts and transmit such annotation or commentary with others (Kreitzer, col. 1, lines 39-47).

The combination of Griffin and Kreitzer does not explicitly teach the method further comprising downloading third digital content corresponding to the media work from the network accessible library to the first client device via the network, the third digital content including at least a portion of a third media stream, the portion of the third media stream including the bookmarked position, the first media stream and the third media stream having different data formats; and storing the third digital content on the first client device.

However, Sull teaches the method further comprising downloading third digital content corresponding to the media work from the network accessible library to the first client device via the network, the third digital content including at least a portion of a third media stream, the portion of the third media stream including the bookmarked position (Sull, col. 23, lines 25-48 and col. 24, lines 14-38), the first media stream and the third media stream having different data formats (Sull, Fig. 5; col. 23, lines 25-48); and storing the third digital content on the first client device (Sull, col. 24, lines 14-38).

It would have been obvious to one of ordinary skill in the art before the time the invention was made to modify the combination of Griffin and Kreitzer in view of Sull in order to enable the method further comprising downloading third digital content corresponding to the media work from the network accessible library to the first client device via the network, the third digital content including at least a portion of a third media stream, the portion of the third media stream including the bookmarked position, the first media stream and the third media stream having different data formats; and storing the third digital content on the first client device. One would be motivated to do so in order to facilitate the storing, searching, and retrieving of the multimedia information. There are occasions where a user who once accessed particular multimedia content needs or desires to access the content again at a later time, possibly at or from a different place. In another case, a user who once viewed multimedia content at work may want to continue to view the content at home. Most users would want to restart accessing the content from the point where they had left off (Sull, col. 1, lines 23-37).

27. With respect to claim 46, the combination of Griffin, Kreitzer, and Sull teaches the invention described in claim 45, including the method further comprising managing storage resources used to store the first digital content and the third digital content on the first client device and the second digital content on the second client device, in dependence upon the bookmarked position, the current position in the first media stream, or a current position in the second media stream (Sull, col. 23, lines 25-48 and col. 24, lines 14-38).

28. With respect to claim 47, the combination of Griffin, Kreitzer, and Sull teaches the invention described in claim 29, including the method wherein the second digital content includes a second media stream, and wherein the first media stream and the second media stream have different data formats (Sull, Fig. 5; col. 23, lines 25-48).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Baturay whose telephone number is (571) 272-3981. The examiner can normally be reached at 7am - 4:30pm, Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Alicia Baturay/
Primary Examiner, Art Unit 2441

July 13, 2017

Notice of References Cited	Application/Control No. 15/054,756		Applicant(s)/Patent Under Reexamination MCCUE ET AL.	
	Examiner Alicia Baturay		Art Unit 2441	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-7,624,337 B2	11-2009	Sull; Sanghoon	G06F17/30796	715/201
*	B	US-7,984,147 B2	07-2011	Daoud; Raja	H04L47/10	709/226
*	C	US-8,392,528 B2	03-2013	Kreitzer; Stuart S.	H04L29/06027	709/217
*	D	US-2006/0265637 A1	11-2006	Marriott; Greg	G06F17/30867	715/210
*	E	US-2007/0124331 A1	05-2007	Griffin; Jeffrey Jason	G06F17/30017	1/1
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	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.



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

BIB DATA SHEET

CONFIRMATION NO. 9058

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
15/054,756	02/26/2016	709	2441	141-1 US CON2 DIV CON		
APPLICANTS Audio Pod Inc., Ottawa, CANADA INVENTORS John McCue, Ottawa, CANADA; Robert McCue,, Ottawa, CANADA; Gregory Shostakovsky, Kanata, CANADA; Glenn McCue, Ottawa, CANADA; ** CONTINUING DATA ***** This application is a CON of 14/924,028 10/27/2015 which is a DIV of 14/250,591 04/11/2014 PAT 9203884 which is a CON of 13/588,084 08/17/2012 PAT 8738740 which is a CON of 12/096,933 06/11/2008 PAT 8285809 which is a 371 of PCT/CA2006/002046 12/12/2006 which claims benefit of 60/749,632 12/13/2005 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** * SMALL ENTITY ** 03/11/2016						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/ALICIA BATURAY/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY CANADA	SHEETS DRAWINGS 15	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 2
ADDRESS TEITELBAUM & MACLEAN 834 Colonel By Drive OTTAWA, ON K1S 5C4 CANADA						
TITLE METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES						
FILING FEE RECEIVED 730	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

Search Notes 	Application/Control No. 15054756	Applicant(s)/Patent Under Reexamination MCCUE ET AL.
	Examiner ALICIA BATURAY	Art Unit 2441

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	219	07/13/2017	AB

* 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
Searched EAST (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	07/13/2017	AB
Conducted Inventor Name Search	07/13/2017	AB
Conducted Class/Subclass Search	07/13/2017	AB

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

--	--

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	5	@ad<"20051213" and Podcasts and bookmark\$3 and delet\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 15:27
L6	10	@ad<"20051213" and Apple.as. and Podcasts and delet\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 15:27
S1	1816	(segment\$7 or break\$3 or reduc\$3) same audio same (silence or "low decibel" or gaps)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 10:55
S2	1334	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same audio same (silence or "low decibel" or gaps))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 10:57
S3	3547	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same (silence or "low decibel" or gaps))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 10:58
S4	4	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same (silence or "low decibel" or gaps) same (natural adj language))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 10:58
S5	24	("5586264", "6621980", "20020184189", "20030091338", "20030172346", "20050061873", "20050091062", "20050111824", "20050250439", "20060236219", "20060242550", "20060271989").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:00
S6	0	audio-pod.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:03
S7	496	McQue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:04
S8	0	(McQue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2010/01/26 11:04

			IBM_TDB			
S9	552	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same (silence or "low decibel" or gaps) same (language or speech))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:06
S10	23	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same (silence or "low decibel" or gaps) adj (language or speech))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:07
S11	3	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same (silence or "low decibel" or gaps) adj (language or speech))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:13
S12	8403	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:16
S13	268	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same (descriptor or index))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:17
S14	47	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same (descriptor or index) same (start or end or play))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 14:17
S15	4	("7379875", "7242809").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 11:24
S16	7	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same purg\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:58
S17	8403	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:58
S18	1060	@ad<"20051213" and ((segment\$7 or break\$3 or reduc\$3) same (audio or (multi adj media) or mp3 or sound) same stream\$3 same buffer\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:58
S19	2167	@ad<"20051213" and (stream\$3 same buffer\$3 same (purg\$3 or empty\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:59
S20	450	@ad<"20051213" and (stream\$3 same buffer\$3 adj (purg\$3 or empty\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2010/01/27 15:59

			IBM_TDB			
S21	50	@ad<"20051213" and (audio same stream\$3 same buffer\$3 adj (purg\$3 or empty\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 15:59
S22	11	@ad<"20051213" and (audio same stream\$3 same used same buffer\$3 adj (purg\$3 or empty\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:01
S23	14	@ad<"20051213" and (stream\$3 same buffer\$3 same bookmark)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:04
S24	47	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same transfer adj rate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:09
S25	10	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same transfer adj rate and transaction)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:10
S26	1082	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:12
S27	207	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same audio same server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:12
S28	6	@ad<"20051213" and (((Quality adj service) or QoS) same (stream\$3) same audio same server same (choice or choose or choosing))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:13
S29	0	@ad<"20051213" and (((Quality adj service) or QoS) same transfer adj rate and transaction adj rate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:15
S30	50	@ad<"20051213" and (((Quality adj service) or QoS) and transfer adj rate and transaction adj rate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:15
S31	10	@ad<"20051213" and (((Quality adj service) or QoS) or ((Service adj level adj agreement) or SLA)) same (choose adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/27 16:18
S32	2	"20080301318".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2010/04/20 13:42

			IBM_TDB			
S33	74	small adj audio adj files	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/20 16:11
S34	6	@ad<"20051213" and (book adj mark) same (audio adj stream)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:09
S35	58	@ad<"20051213" and (book adj mark) same audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:22
S36	3	@ad<"20051213" and (book adj mark) and (time adj offset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:22
S37	345	@ad<"20051213" and ((book adj mark) or mark\$3) same (time adj offset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:23
S38	76	@ad<"20051213" and ((book adj mark) or mark\$3) same (time adj offset) same position	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:23
S39	14	@ad<"20051213" and ((book adj mark) or mark\$3) and (time adj offset) same current adj position	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 11:24
S40	509	McQue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 16:09
S41	8	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/21 16:10
S42	21	("20050091062" "6621980" "20050061873" "20060271989" "0118858" "0281509" "20050111824" "20060242550" "6850982" "5586264" "20030221194" "20060140162" "20070041356" "20030172346" "20060236219" "7242809" "20020184189" "20030091338" "20050250439" "20050245243" "20070083911").PN.	US-PGPUB; USPAT	OR	OFF	2012/06/18 14:27
S43	0	(McQue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2012/06/18 14:27

			IBM_TDB			
S44	9	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/06/18 14:27
S45	185	(book adj mark\$3).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/06/18 14:38
S46	3	((audio or mp3 or mpeg or sound) same (book adj mark\$3)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/06/18 14:38
S52	1	"8285809".pn.	USPAT	OR	ON	2017/06/07 07:55
S53	1	"8738740".pn.	USPAT	OR	ON	2017/06/07 07:56
S54	1	"9203884".pn.	USPAT	OR	ON	2017/06/07 07:57
S55	1	"20160050250".pn.	US-PGPUB	OR	ON	2017/06/07 07:58
S56	716	McQue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:21
S57	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:21
S58	36366	(book and mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:21
S59	8316	S58 AND ((G06F3/04817 OR G06F17/30864 OR G06F3/0482 OR G06F17/2235 OR G06F17/24 OR G06F17/30554 OR G06F17/30867 OR G06F3/0484 OR G06F3/0488 OR G06F17/243 OR G06F17/2705 OR G06F17/30312 OR G06F17/3053 OR G06F17/30598 OR G06F21/10 OR G06F2203/04805 OR G06F3/0412 OR G06F3/0416 OR G06F3/0481 OR G06F3/04812 OR G06F3/0483 OR G06F3/04842 OR G06F3/04847 OR G06F11/3668 OR G06F12/0813 OR G06F12/10 OR G06F12/122 OR G06F17/214 OR G06F17/2247 OR G06F17/2288 OR G06F17/245 OR G06F17/246 OR G06F17/2735 OR G06F17/2785 OR G06F17/30011 OR G06F17/30165 OR G06F17/30241 OR G06F17/30256 OR G06F17/30259 OR G06F17/30303 OR G06F17/30315 OR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:22

		G06F17/30339 OR G06F17/30424 OR G06F17/30545 OR G06F17/3056 OR G06F17/30572 OR G06F17/30601 OR G06F17/3064 OR G06F17/3066 OR G06F17/30696 OR G06F17/3087 OR G06F17/30905 OR G06F17/30943 OR G06F17/3097 OR G06F17/50 OR G06F2009/45562 OR G06F2009/45587 OR G06F21/16 OR G06F21/53 OR G06F21/602 OR G06F21/6209 OR G06F2203/04102 OR G06F2203/04806 OR G06F2212/154 OR G06F2212/60 OR G06F2212/62 OR G06F2212/69 OR G06F2216/03 OR G06F2221/034 OR G06F2221/2111 OR G06F2221/2133 OR G06F2221/2151 OR G06F3/016 OR G06F3/0346 OR G06F3/0362 OR G06F3/0418 OR G06F3/044 OR G06F3/047 OR G06F3/04855 OR G06F3/04886 OR G06F3/0608 OR G06F3/0641 OR G06F3/065 OR G06F3/068 OR G06F3/14 OR G06F8/35 OR G06F8/41 OR G06F8/48 OR G06F8/60 OR G06F8/65 OR G06F8/67 OR G06F8/71 OR G06F9/4406 OR G06F9/4443 OR G06F9/4446 OR G06F9/45558 OR G06F9/485).CPC.)				
S60	23	("20020069218" "20020184189" "20030091338" "20030167262" "20030172346" "20030221194" "20050061873" "20050091062" "20060236219" "20060242550" "20060271989" "20070041356" "20070067267" "20070083911" "20070124331" "20090171750" "20100281509" "20110118858" "5586264" "6621980" "6850982" "7242809" "7984147").PN.	US-PGPUB; USPAT	OR	ON	2017/06/07 08:30
S61	3	@ad<"20051213" and (open adj media adj stream)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:43
S62	784	@ad<"20051213" and (stream\$3 same (memory adj management))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:58
S63	748	@ad<"20051213" and (stream\$3 same (memory adj management) and tim\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:59
S64	218	@ad<"20051213" and (stream\$3 same (memory adj management) same tim\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:59
S65	3	@ad<"20051213" and (audio adj stream\$3 same (memory adj management))	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2017/06/07 09:11

			IBM_TDB			
S66	978	@ad<"20051213" and (stream\$3 same ((memory adj management) or (garbage adj collect\$5)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:23
S67	101	@ad<"20051213" and (stream\$3 same network same ((memory adj management) or (garbage adj collect\$5)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:24
S68	12	@ad<"20051213" and (stream\$3 same ((memory adj management) or (garbage adj collect\$5)) and ((book adj mark) or bookmark))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:33
S69	479	@ad<"20051213" and (stream\$3 same ((book adj mark) or bookmark))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:37
S70	726	(book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:39
S71	269	@ad<"20051213" and ((book adj mark) and audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 09:39
S72	1	"7466898".pn.	USPAT	OR	ON	2017/06/07 10:01
S73	763	"20000910".pd.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 10:06
S74	1	"20000910".pd. and playback.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 10:07
S75	153	@ad<"20051213" and (limited adj storage adj devices)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 13:49
S77	208	@ad<"20051213" and (stream\$3 same (limited adj storage))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 13:51
S78	7	@ad<"20051213" and (stream\$3 same (storage adj replac\$9))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 13:51
S79	550	@ad<"20051213" and (stream\$3 same	US-PGPUB;	OR	ON	2017/06/07

		(bookmark\$3 or book-mark\$3 or (book adj mark\$3)))	USPAT; EPO; JPO; DERWENT; IBM_TDB			13:54
S80	1	"7143353".pn.	USPAT	OR	ON	2017/06/07 13:57
S81	1	"8009961".pn.	USPAT	OR	ON	2017/06/07 14:00
S82	1	"8191103".pn.	USPAT	OR	ON	2017/06/07 14:12
S83	1	"7730407".pn.	USPAT	OR	ON	2017/06/07 14:37
S84	1	"20060015914".pn.	US-PGPUB	OR	ON	2017/06/07 16:29
S85	1	"20160182589".pn.	US-PGPUB	OR	ON	2017/07/13 08:23
S86	170	@ad<"20051213" and podcast\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 08:46
S87	25	@ad<"20051213" and Apple.as. and Podcasts	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 08:48
S88	1	"20060265409".pn.	US-PGPUB	OR	ON	2017/07/13 08:52
S89	1	"20060265637".pn.	US-PGPUB	OR	ON	2017/07/13 08:55
S90	29	@ad<"20051213" and Podcasts and bookmark\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/07/13 09:16
S91	1	"7624337".pn.	USPAT	OR	ON	2017/07/13 10:35

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S47	3	((audio or mp3 or mpeg or sound) same (book adj mark\$3)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:39
S48	19	(small adj (audio or sound or mp3 or mpeg)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:39
S49	0	((book adj mark\$3) same (off adj set)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:40
S50	0	((book adj mark\$3) and (off adj set)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:41
S51	36	((small or short or miniscule) adj (audio or sound or mp3 or mpeg)).clm.	US-PGPUB	OR	OFF	2012/06/18 14:41

7/13/2017 4:33:46 PM

C:\Users\abaturay\Alicia's Documents\EAST Searches\15054756-NaturalLanguageAudioGapsAudioOnDemandCON.wsp

Form PTO 1449A U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	ATTY. DOCKET NUMBER: 141-1 US CON2 DIV CON	SERIAL NUMBER: 15/054,756
	APPLICANT: McCue et al.	
	FILING DATE: 02/26/2016	GROUP: ~~2447~~ 2441

U.S. Patent Documents

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILED APPR

Foreign Patent Documents

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		01/58165 A2	Aug 8/2001	WO	H04N	7/24		
		02/08948 A2	Jan 31/2002	WO	G06F	17/00		
		02/080524 A2	Oct 10/2002	WO	H04N	5/00		
		1463258 A1	Sep 29/2004	EP	H04L	29/06		

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)

		EP search report from related EP application no. EP06840473
		Delacourt P. et al, "A speaker-based segmentation for audio data indexing", Speech Communication, Elsevier Science Publishers, Amsterdam, NL, vol. 32, no. 1-2, pp 111-126, September 1, 2000
EXAMINER	/ALICIA BATURAY/	DATE CONSIDERED 07/13/2017
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant		

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

Form PTO 1449A U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	ATTY. DOCKET NUMBER: 141-1 US CON2 DIV CON	SERIAL NUMBER: ~~New Application~~ 15/054,756
	APPLICANT: McCue et al.	
	FILING DATE: Herewith	GROUP: ~~New Application~~ 2441

U.S. Patent Documents

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILE APP
		5,586,264	Dec 17, 1996	Belknap et al	395	200.08	
		6,621,980	Sep 16, 2003	Gould et al	386	69	
		6,850,982	Feb 1, 2005	Siegel	709	227	
		7,242,809	Jul 10, 2001	Hunter et al	382	224	
		7,721,301	May 18, 2010	Wong et al	719	322	
		7,984,147	Jul 19, 2011	Daoud et al	709	226	
		20020069218	Jun 6, 2002	Sull et al	715	202	
		20020087694	Jul 4, 2002	Daoud et al	709	226	
		20020184189	Dec 5, 2002	Hay et al	707	1	
		20030091338	May 15, 2003	Snow et al	386	96	
		20030167262	Sep 4, 2003	Iida et al	1	1	
		20030172346	Sep 11, 2003	Gould et al	715	501.1	
		20030221194	Nov 27, 2003	Thiagarajan et al	725	55	
		20050061873	Mar 24, 2005	Pirillo	235	380	
		20050091062	Apr 28, 2005	Burges et al	704	273	
		20050111824	May 26, 2005	Hunter et al	386	52	
		20050245243	Nov 3, 2005	Zuniga	455	414.3	
		20050250439	Nov 10, 2005	Leslie	455	11.1	
		20050276570	Dec 15, 2005	Reed JR et al	386	46	
		20060140162	Jun 29, 2006	Vasa	370	338	
		20060236219	Oct 19, 2006	Grigorovitch et al	715	500.1	
		20060242550	Oct 26, 2006	Rahman et al	715	500.1	
		20060271989	Nov 30, 2006	Glaser et al	725	111	
		20070041356	Feb 22, 2007	Fontijn	370	352	
		20070067267	Mar 22, 2007	Ives	1	1	
		20070083354	Apr 12, 2007	Collins et al	703	23	
		20070083911	Apr 12, 2007	Madden et al	725	135	

/ALICIA BATURAY/

07/13/2017

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

		20070112837	May 17, 2007	Houh et al	707	102	
		20070124331	May 31, 2017	Griffin	1	1	
		20090171750	Jul 2, 2009	Zhou et al	705	14.53	
		20090177996	Jul 9, 2009	Hunt et al	715	788	
		20100281509	Nov 4, 2010	Yu et al.	725	100	
		20110118858	May 19, 2011	Rottler et al.	700	94	

Foreign Patent Documents

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)

		"SpeechSkimmer: A System for Interactively Skimming Recorded Speech" by Barry Arons, MIT Media Lab, ACM Transactions on Computer-Human Interaction, Vol. 4, No. 1, March 1997, Pages 3-38
		EPUB Media Overlays 3.0", International Digital Publishing Forum, (http://idpf.org/enub/30/spec/enub30-mediaoverlays-20110516.html), 16 May 2011
EXAMINER		DATE CONSIDERED
/ALICIA BATURAY/		07/13/2017
<i>EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant</i>		

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

<i>Index of Claims</i> 	Application/Control No. 15054756	Applicant(s)/Patent Under Reexamination MCCUE ET AL.
	Examiner ALICIA BATURAY	Art Unit 2441

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

☐ Claims renumbered in the same order as presented by applicant											☐ CPA											☐ T.D.											☐ R.1.47										
CLAIM			DATE																																								
Final	Original	07/13/2017																																									
	1	-																																									
	2	-																																									
	3	-																																									
	4	-																																									
	5	-																																									
	6	-																																									
	7	-																																									
	8	-																																									
	9	-																																									
	10	-																																									
	11	-																																									
	12	-																																									
	13	-																																									
	14	-																																									
	15	-																																									
	16	-																																									
	17	-																																									
	18	-																																									
	19	-																																									
	20	-																																									
	21	-																																									
	22	-																																									
	23	-																																									
	24	-																																									
	25	-																																									
	26	-																																									
	27	-																																									
	28	-																																									
	29	✓																																									
	30	✓																																									
	31	✓																																									
	32	✓																																									
	33	✓																																									
	34	✓																																									
	35	✓																																									
	36	✓																																									

<i>Index of Claims</i> 	Application/Control No. 15054756	Applicant(s)/Patent Under Reexamination MCCUE ET AL.
	Examiner ALICIA BATURAY	Art Unit 2441

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

☐ Claims renumbered in the same order as presented by applicant			☐ CPA			☐ T.D.			☐ R.1.47		
CLAIM		DATE									
Final	Original	07/13/2017									
	37	✓									
	38	✓									
	39	✓									
	40	✓									
	41	✓									
	42	✓									
	43	✓									
	44	✓									
	45	✓									
	46	✓									
	47	✓									
	48	✓									

PLUS Search Results for S/N 15054756, Searched Tue Jun 13 09:25:51 EDT 2017
The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5404362 99	6385394 85
5598423 99	
6069956 99	
6243032 99	
6922213 99	
6968059 99	
8254764 99	
20020140868 99	
20080232782 99	
20080263588 99	
20110138022 99	
5936859 85	
6205524 85	
5400401 85	
5528311 85	
5574505 85	
5583652 85	
5594442 85	
5621463 85	
5657092 85	
5664044 85	
5680266 85	
5751890 85	
5801782 85	
5819211 85	
5832427 85	
5920673 85	
5923812 85	
5930251 85	
5933805 85	
5949891 85	
5986588 85	
6018369 85	
6049572 85	
6061007 85	
6134272 85	
6144328 85	
6157978 85	
6208665 85	
6266483 85	
6266753 85	
6282209 85	
6285408 85	
6295380 85	
6339670 85	
6353703 85	
6356639 85	
6359910 85	
6374037 85	



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/054,756	02/26/2016	John McCue	141-1 US CON2 DIV CON CONFIRMATION NO. 9058 POA ACCEPTANCE LETTER

24949
TEITELBAUM & MACLEAN
280 SUNNYSIDE AVENUE
OTTAWA, ON K1S 0R8
CANADA



OC000000085391671

Date Mailed: 08/29/2016

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/17/2016.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/tnguyen/

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	15/054,756
Filing Date	February 26, 2016
First Named Inventor	John McCUE
Title	METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES
Art Unit	2441
Examiner Name	Alicia Baturay
Attorney Docket Number	141-1 US CON2 DIV CON

SIGNATURE of Applicant or Patent Practitioner

Signature	/Neil Teitelbaum/	Date (Optional)	08/17/2016
Name	Neil Teitelbaum	Registration Number	38,793
Title (if Applicant is a juristic entity)	Agent of Record		
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐

*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number

Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)



I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

24949

OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR

Firm or
Individual Name

Address

City

Ottawa

State

Ontario

Zip

K2J 4P6

Country

Canada

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Audio Pod Inc., 606-900 Greenbank Road, Ottawa, Ontario, Canada, K2J 4P6



Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

Name

John McCue

Title

PRESIDENT, CEO & CO.

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.



Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. This information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	26668224
Application Number:	15054756
International Application Number:	
Confirmation Number:	9058
Title of Invention:	METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES
First Named Inventor/Applicant Name:	John McCue
Customer Number:	24949
Filer:	Neil Teitelbaum/Lisa Fader
Filer Authorized By:	Neil Teitelbaum
Attorney Docket Number:	141-1 US CON2 DIV CON
Receipt Date:	17-AUG-2016
Filing Date:	26-FEB-2016
Time Stamp:	15:08:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	aia0082.pdf	742706	no	2
			81b22ffabbe026a524a78aa115a10dec946437f6		

Warnings:

Information:	
Total Files Size (in bytes):	742706
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. <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. <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. <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.	



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/054,756	02/26/2016	John McCue	141-1 US CON2 DIV CON

24949
TEITELBAUM & MACLEAN
280 SUNNYSIDE AVENUE
OTTAWA, ON K1S 0R8
CANADA

CONFIRMATION NO. 9058
PUBLICATION NOTICE



OC00000083897394

Title:METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES

Publication No.US-2016-0182589-A1

Publication Date:06/23/2016

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <http://pair.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: McCue et al. OUR FILE NO: 141-1 US CON2 DIV CON
SERIAL NUMBER: 15/054,756 GROUP: 2447
FILED: February 26, 2016 EXAMINER: Unassigned
TITLE: METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS
MULTIPLE CLIENT DEVICES

Information Disclosure Statement #2

May 11, 2016

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

Dear Sir:

Transmitted herewith is an Information Disclosure Statement (Form PTO-1449A) in the above-captioned application with references. In accordance with current USPTO procedures published 05 AUG 2003, in 1276 OG 55, copies of the U.S. patent documents cited in the form 1449 are not attached.

Certification

X This Information Disclosure Statement is submitted within three months of:

- (i) the filing date of the above-identified U.S. National Patent application, or
- (ii) the date of entry into the U.S. National Stage of the above-identified International Application, or
- (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies.

_____ This Information Disclosure Statement is submitted prior to the mailing date of the first Office Action on the merits received by Applicant in the above-identified application.

_____ This Information Disclosure Statement is submitted after three months from

- (i) the filing date of the above-identified U.S. National Patent application, or
- (ii) after three months from entry into the U.S. National Stage of the above-identified International Application; or
- (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies; and after the mailing date of the first Office Action on the merits of the above-identified application, but prior to issuance of the earlier of any Final Action or Notice of Allowance sent in such application. The certification under 37 C.F.R. § 1.97(e) is submitted separately or below, or the fee required under 37 C.F.R. § 1.97(c) and § 1.17(p) is submitted herewith.

_____ This Information Disclosure Statement is submitted after the earlier of the mailing date of a final rejection or Notice of Allowance sent in this application but before payment of the Issue Fee. The certification required under 37 C.F.R. § 1.97(e) is submitted separately or below. A petition to the Commissioner and the appropriate fee pursuant to § 1.17(i) (1) are submitted herewith.

_____ A certification under 37 C.F.R. §1.97 is submitted herewith separately from this paper.

_____ It is hereby certified that each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.

_____ No item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this statement.

The Commissioner is hereby authorized to charge any fees which may be required to our VISA Account.

The Commissioner is hereby authorized to charge any further fees which may be required, or credit any overpayment to Deposit Account No: 50-2810.

Please associate this application with Customer No: 24949

Yours very truly,



Neil Teitelbaum
Regn No: 38,793

Teitelbaum & MacLean
Registered Patent Agents Limited
280 Sunnyside Avenue
Ottawa, Ontario
Canada
K1S 0R8

Tel: (613) 523 3784
Fax: (613) 523 6799
Email: nt@patents.org
Website: www.patents.org

/lmf

Form PTO 1449A U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	ATTY. DOCKET NUMBER: 141-1 US CON2 DIV CON	SERIAL NUMBER: 15/054,756
	APPLICANT: McCue et al.	
	FILING DATE: 02/26/2016	GROUP: 2447

U.S. Patent Documents

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILE APP

Foreign Patent Documents

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		01/58165 A2	Aug 8/2001	WO	H04N	7/24		
		02/08948 A2	Jan 31/2002	WO	G06F	17/00		
		02/080524 A2	Oct 10/2002	WO	H04N	5/00		
		1463258 A1	Sep 29/2004	EP	H04L	29/06		

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)

		EP search report from related EP application no. EP06840473
		Delacourt P. et al, "A speaker-based segmentation for audio data indexing", Speech Communication, Elsevier Science Publishers, Amsterdam, NL, vol. 32, no. 1-2, pp 111-126, September 1, 2000
EXAMINER		DATE CONSIDERED
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant		

Electronic Acknowledgement Receipt

EFS ID:	25744977
Application Number:	15054756
International Application Number:	
Confirmation Number:	9058
Title of Invention:	METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES
First Named Inventor/Applicant Name:	John McCue
Customer Number:	24949
Filer:	Neil Teitelbaum/Lisa Fader
Filer Authorized By:	Neil Teitelbaum
Attorney Docket Number:	141-1 US CON2 DIV CON
Receipt Date:	11-MAY-2016
Filing Date:	26-FEB-2016
Time Stamp:	12:37:59
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	Transmittal Letter	IDS2fromEESR.pdf	120754 efead8b46d41b2f66b2005c6b59d8e515bf b61f0	no	3

Warnings:

Information:

2	Other Reference-Patent/App/Search documents	EESR.pdf	639535	no	16
			c1ee2570edea696bda96d7842cdb2796f1fcacd7		
Warnings:					
Information:					
3	Foreign Reference	WO0158165A2.pdf	8852872	no	105
			03d7f6d359c651b664707def1e02fe2957b9e578		
Warnings:					
Information:					
4	Foreign Reference	WO0208948A2.pdf	9779546	no	210
			2446ff5f4327f337d7a262cef5ad1a907106f236		
Warnings:					
Information:					
5	Foreign Reference	WO02080524A2.pdf	1529922	no	33
			f1dcbf6bb6bc371e4c8f2c72bdb6ee3499c68529		
Warnings:					
Information:					
6	Foreign Reference	EP146325A1.pdf	1076656	no	18
			addea0e077deb59c8fb9c5f38e7c212d5a375390		
Warnings:					
Information:					
7	Non Patent Literature	Delacourt.pdf	1364863	no	16
			fb52457a0a8a89de8a683196b734b0c55be53a0a		
Warnings:					
Information:					
Total Files Size (in bytes):			23364148		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 15/054,756			
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	300		N/A			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A			
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *	x 40 =	0.00	OR				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *	x 210 =	0.00	OR				
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).			0.00					
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00					
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	730		TOTAL			
APPLICATION AS AMENDED - PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus **	x	=	OR	x	=	
	Independent (37 CFR 1.16(h))	*	Minus ***	x	=	OR	x	=	
	Application Size Fee (37 CFR 1.16(s))					OR			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR			
			TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE			
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus **	x	=	OR	x	=	
	Independent (37 CFR 1.16(h))	*	Minus ***	x	=	OR	x	=	
	Application Size Fee (37 CFR 1.16(s))					OR			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR			
			TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
15/054,756	02/26/2016	2447	730	141-1 US CON2 DIV CON	20	2

CONFIRMATION NO. 9058

FILING RECEIPT



CC000000081372994

24949

TEITELBAUM & MACLEAN
280 SUNNYSIDE AVENUE
OTTAWA, ON K1S 0R8
CANADA

Date Mailed: 03/15/2016

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

John McCue, Ottawa, CANADA;
Robert McCue,, Ottawa, CANADA;
Gregory Shostakovsky, Kanata, CANADA;
Glenn McCue, Ottawa, CANADA;

Applicant(s)

Audio Pod Inc., Ottawa, CANADA

Assignment For Published Patent Application

Audio Pod Inc., Ottawa, CANADA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 14/924,028 10/27/2015
which is a DIV of 14/250,591 04/11/2014 PAT 9203884
which is a CON of 13/588,084 08/17/2012 PAT 8738740
which is a CON of 12/096,933 06/11/2008 PAT 8285809
which is a 371 of PCT/CA2006/002046 12/12/2006
which claims benefit of 60/749,632 12/13/2005

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 03/11/2016

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/054,756**

Projected Publication Date: 06/23/2016

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor

community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: McCue et al

File No.: 141-1 US CON2 DIV CON

**This application is a Rule 53 Continuation of
US Serial No. 14/924,028**

Art Unit: Unassigned

FILED October 27, 2015

Examiner: Unassigned

Confirmation No.: Unassigned

**For: METHOD AND SYSTEM FOR RENDERING CONTENT ACROSS MULTIPLE
CLIENT DEVICES**

February 26, 2016

E-filed

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

PRELIMINARY AMENDMENT

Dear Sir:

Prior to examining the above-identified patent application on the merits and calculating the fees due at filing, please enter the following amendments and consider the remarks set out below.

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims, which begins on page 4 of this paper.

Remarks begin on page 8 of this paper.

IN THE SPECIFICATION

Please replace the pending title on page 1 of the specification, with the following replacement title:

~~MEMORY MANAGEMENT OF DIGITAL AUDIO DATA~~

METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS
MULTIPLE CLIENT DEVICES

Please replace paragraph [0001] with the following amended paragraph [0001]:

This application is a continuation of U.S. Pat. Appln. No. 14/924,028 filed on October 27, 2015, which is a divisional of U.S. Pat. Appln. No. 14/250,591 filed on April 11, 2014, which is a continuation of U.S. Pat. Appl. No. 13/588,084 filed on August 17, 2012, which is a continuation of U.S. Pat. Appl. No. 12/096,933 filed on June 11, 2008, which was the National Stage Entry of International Application No. PCT/CA2006/002046 filed on December 12, 2006, which claims priority from ~~US Pat. Appl. Ser. No.~~ U.S. Provisional Appln. No. 60/749,632 filed on December 13, 2005, all of which are hereby incorporated by reference in their entireties.

IN THE ABSTRACT

Please replace the pending ABSTRACT with the following replacement ABSTRACT:

A method and a system for rendering digital content across multiple client devices are provided. Digital content is downloaded to a first client device from a network accessible library. As the digital content is rendered, a current position is tracked. A bookmark is created by setting the current position as a bookmarked position. The bookmark is transferred to a second client device, and digital content including the bookmarked position is downloaded to the second client device from the network accessible library, enabling a continuous user experience across multiple client devices. ~~A system, method and computer readable code for the management of digital media on a device with memory and storage restrictions. As with any device, memory and storage is limited. With the ultimate goal of providing a user with a hands-off literary experience involving multiple media types, it is necessary to automate the clean-up of unneeded content that has previously been transferred to the device. Utilizing bookmark information that describes various positions in one or more media streams, time information that describes the various media streams and related content used to integrate various types of content for each media stream, content and storage can be managed such that the user never has to interact directly with stored content beyond the controls provided with a basic media player. The user still experiences a completely automated and seamless literary experience regardless of the number of open media streams, bookmarks and various related content the user has. The result is a fully automated context aware memory and content manager.~~

Amendments to the Claims

1-28 (cancelled)

29. (New) A method of rendering digital content across multiple client devices comprising:

- downloading first digital content corresponding to a media work from a network accessible library to a first client device via a network, the first digital content including at least a first portion of a first media stream;
- storing the first digital content on the first client device;
- rendering at least a portion of the first digital content on the client device;
- tracking a current position in the first media stream as the first digital content is rendered;
- creating a bookmark by setting the current position as a bookmarked position, the bookmark including information for identifying the media work and the bookmarked position;
- transferring the bookmark to a second client device via the network;
- downloading second digital content corresponding to the media work from the network accessible library to the second client device via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position;
- storing the second digital content on the second client device; and
- rendering at least a portion of the second digital content on the second client device in dependence upon the bookmarked position.

30. (New) The method of claim 29, wherein the network accessible library includes one or more server devices at one or more network addresses, wherein the one or more server devices are each capable of serving digital content.

31. (New) The method of claim 30, wherein the first digital content is downloaded from at least one of the one or more server devices, and wherein the second digital content is downloaded from at least one of the one or more server devices.

32. (New) The method of claim 31, further comprising managing and optimizing network connections between the first client device and the one or more server devices and between the second client device and the one or more server devices, without user interaction.

33. (New) The method of claim 32, wherein the network connections are managed and optimized to maintain uninterrupted rendering of the first digital content and the second digital content.

34. (New) The method of claim 29, wherein the first digital content and the second digital content each include audio content, illustration content, video content, audio/video content, advertising content, static graphic content, moving graphic content, or a combination thereof.

35. (New) The method of claim 29, wherein the first media stream and the second media stream each include a plurality of digital media segments.

36. (New) The method of claim 35, wherein the digital media segments are directly addressable.

37. (New) The method of claim 35, wherein the digital media segments have sizes that are dependent on a network throughput rate, a media stream size, natural language gaps, a target segment size, a target segment size range, or a combination thereof.

38. (New) The method of claim 29, wherein the bookmark is transferred from the first client device to the second client device via the network accessible library.

39. (New) The method of claim 29, wherein the bookmark is transferred from the first client device to the second client device by bypassing the network accessible library.

40. (New) The method of claim 29, wherein transferring the bookmark includes sending the bookmark from the first client device while the first client device is connected to the network, and receiving the bookmark by the second client device while the second client device is

connected to the network; and wherein the bookmark is transferred without requiring a simultaneous connection of the first client device and the second client device to the network.

41. (New) The method of claim 29, further comprising managing storage resources used to store the first digital content on the first client device and the second digital content on the second client device.

42. (New) The method of claim 41, wherein the storage resources are managed in dependence upon the bookmarked position, the current position in the first media stream, or a current position in the second media stream.

43. (New) The method of claim 41, wherein managing the storage resources includes, upon deleting the bookmark, deleting the first digital content from the first client device and the second digital content from the second client device.

44. (New) The method of claim 29, wherein the second digital content is rendered starting from a start position, and wherein the start position corresponds to the bookmarked position adjusted by an arbitrary value.

45. (New) The method of claim 29, further comprising downloading third digital content corresponding to the media work from the network accessible library to the first client device via the network, the third digital content including at least a portion of a third media stream, the portion of the third media stream including the bookmarked position, the first media stream and the third media stream having different data formats; and storing the third digital content on the first client device.

46. (New) The method of claim 45, further comprising managing storage resources used to store the first digital content and the third digital content on the first client device and the second digital content on the second client device, in dependence upon the bookmarked position, the current position in the first media stream, or a current position in the second media stream.

47. (New) The method of claim 29, wherein the second digital content includes a second media stream, and wherein the first media stream and the second media stream have different data formats.

48. (New) A system for rendering digital content across multiple client devices comprising:
a first client device;
a second client device; and
a network accessible library accessible by the first and second client devices via a network;

wherein the first client device is configured to:

download first digital content corresponding to a media work from the network accessible library via the network, the first digital content including at least a first portion of a first media stream;

store the first digital content;

render at least a portion of the first digital content;

track a current position in the first media stream as the first digital content is rendered;

create a bookmark by setting the current position as a bookmarked position, the bookmark including information for identifying the media work and the bookmarked position; and

transfer the bookmark to the second client device via the network; and

wherein the second client device is configured to:

download second digital content corresponding to the media work from the network accessible library via the network, the second digital content including at least a second portion of the first media stream or at least a portion of a second media stream, the second portion of the first media stream or the portion of the second media stream including the bookmarked position;

store the second digital content; and

render at least a portion of the second digital content in dependence upon the bookmarked position.

In re Patent Application of: McCue et al
NEW Continuation Application of U.S. Pat. Appl. No. 14/924,028 filed October 27, 2015

REMARKS

Claims 1-28 have been cancelled. New claims 29-48 have been added. No new subject matter has been added.

The title of the application has been amended. The specification has been amended to modify the cross-reference to related patent applications. The abstract has been amended to make it consistent with the new claims. No new subject matter has been added.

Entry and consideration of this Preliminary Amendment and early and favorable action on the merits are respectfully requested.

Should any minor informalities need to be addressed, the Examiner is encouraged to contact the undersigned attorney at the telephone number listed below.

The Commissioner is hereby authorized to charge any fees which may be required to our VISA Account.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No: 50-2810.

Please associate this application with Customer No: 24949.

Respectfully submitted,



Neil Teitelbaum
Regn No. 38,793

Teitelbaum & MacLean
280 Sunnyside Avenue
Ottawa, ON
Canada K1S 0R8

Tel: (613) 523-3784 Ext. 100
Fax: (613) 523-6799

AM/lmf

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: McCue et al. OUR FILE NO: 141-1 US CON2 DIV CON
SERIAL NUMBER: New Application GROUP: New Application
FILED: Herewith EXAMINER: New Application
TITLE: METHOD AND SYSTEM FOR RENDERING CONTENT ACROSS MULTIPLE CLIENT
DEVICES

Information Disclosure Statement #1

February 26, 2016

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

Dear Sir:

Transmitted herewith is an Information Disclosure Statement (Form PTO-1449A) in the above-captioned application with references. In accordance with current USPTO procedures published 05 AUG 2003, in 1276 OG 55, copies of the U.S. patent documents cited in the form 1449 are not attached.

Certification

X This Information Disclosure Statement is submitted within three months of:

- (i) the filing date of the above-identified U.S. National Patent application, or
- (ii) the date of entry into the U.S. National Stage of the above-identified International Application, or
- (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies.

_____ This Information Disclosure Statement is submitted prior to the mailing date of the first Office Action on the merits received by Applicant in the above-identified application.

_____ This Information Disclosure Statement is submitted after three months from

- (i) the filing date of the above-identified U.S. National Patent application, or
- (ii) after three months from entry into the U.S. National Stage of the above-identified International Application; or
- (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies; and after the mailing date of the first Office Action on the merits of the above-identified application, but prior to issuance of the earlier of any Final Action or Notice of Allowance sent in such application. The certification under 37 C.F.R. §1.97(e) is submitted separately or below, or the fee required under 37 C.F.R. §1.97(c) and § 1.17(p) is submitted herewith.

_____ This Information Disclosure Statement is submitted after the earlier of the mailing date of a final rejection or Notice of Allowance sent in this application but before payment of the Issue Fee. The certification required under 37 C.F.R. § 1.97(e) is submitted separately or below. A petition to the Commissioner and the appropriate fee pursuant to §1.17(i) (1) are submitted herewith.

_____ A certification under 37 C.F.R. §1.97 is submitted herewith separately from this paper.

_____ It is hereby certified that each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.

_____ No item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this statement.

The Commissioner is hereby authorized to charge any fees which may be required to our VISA Account.

The Commissioner is hereby authorized to charge any further fees which may be required, or credit any overpayment to Deposit Account No: 50-2810.

Please associate this application with Customer No: 24949

Yours very truly,



Neil Teitelbaum
Regn No: 38,793

Teitelbaum & MacLean
Registered Patent Agents Limited
280 Sunnyside Avenue
Ottawa, Ontario
Canada
K1S 0R8

Tel: (613) 523 3784
Fax: (613) 523 6799
Email: nt@patents.org
Website: www.patents.org

/lmf

Form PTO 1449A U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	ATTY. DOCKET NUMBER: 141-1 US CON2 DIV CON	SERIAL NUMBER: New Application
	APPLICANT: McCue et al.	
	FILING DATE: Herewith	GROUP: New Application

U.S. Patent Documents

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILE APP
		5,586,264	Dec 17, 1996	Belknap et al	395	200.08	
		6,621,980	Sep 16, 2003	Gould et al	386	69	
		6,850,982	Feb 1, 2005	Siegel	709	227	
		7,242,809	Jul 10, 2001	Hunter et al	382	224	
		7,721,301	May 18, 2010	Wong et al	719	322	
		7,984,147	Jul 19, 2011	Daoud et al	709	226	
		20020069218	Jun 6, 2002	Sull et al	715	202	
		20020087694	Jul 4, 2002	Daoud et al	709	226	
		20020184189	Dec 5, 2002	Hay et al	707	1	
		20030091338	May 15, 2003	Snow et al	386	96	
		20030167262	Sep 4, 2003	Iida et al	1	1	
		20030172346	Sep 11, 2003	Gould et al	715	501.1	
		20030221194	Nov 27, 2003	Thiagarajan et al	725	55	
		20050061873	Mar 24, 2005	Pirillo	235	380	
		20050091062	Apr 28, 2005	Burges et al	704	273	
		20050111824	May 26, 2005	Hunter et al	386	52	
		20050245243	Nov 3, 2005	Zuniga	455	414.3	
		20050250439	Nov 10, 2005	Leslie	455	11.1	
		20050276570	Dec 15, 2005	Reed JR et al	386	46	
		20060140162	Jun 29, 2006	Vasa	370	338	
		20060236219	Oct 19, 2006	Grigorovitch et al	715	500.1	
		20060242550	Oct 26, 2006	Rahman et al	715	500.1	
		20060271989	Nov 30, 2006	Glaser et al	725	111	
		20070041356	Feb 22, 2007	Fontijn	370	352	
		20070067267	Mar 22, 2007	Ives	1	1	
		20070083354	Apr 12, 2007	Collins et al	703	23	
		20070083911	Apr 12, 2007	Madden et al	725	135	

		20070112837	May 17, 2007	Houh et al	707	102	
		20070124331	May 31, 2017	Griffin	1	1	
		20090171750	Jul 2, 2009	Zhou et al	705	14.53	
		20090177996	Jul 9, 2009	Hunt et al	715	788	
		20100281509	Nov 4, 2010	Yu et al.	725	100	
		20110118858	May 19, 2011	Rottler et al.	700	94	

Foreign Patent Documents

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)

		“SpeechSkimmer: A System for Interactively Skimming Recorded Speech” by Barry Arons, MIT Media Lab, ACM Transactions on Computer-Human Interaction, Vol. 4, No. 1, March 1997, Pages 3-38
		EPUB Media Overlays 3.0”, International Digital Publishing Forum, (http://idpf.org/epub/30/spec/epub30-mediaoverlays-20110516.html), 16 May 2011
EXAMINER		DATE CONSIDERED
<i>EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant</i>		

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		METHOD AND SYSTEM FOR RENDERING CONTENT ACROSS MULTIPLE CLIENT DEVICES		
First Named Inventor/Applicant Name:		John McCue		
Filer:		Neil Teitelbaum/Lisa Fader		
Attorney Docket Number:		141-1 US CON2 DIV CON		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				730

Electronic Acknowledgement Receipt

EFS ID:	25035705
Application Number:	15054756
International Application Number:	
Confirmation Number:	9058
Title of Invention:	METHOD AND SYSTEM FOR RENDERING CONTENT ACROSS MULTIPLE CLIENT DEVICES
First Named Inventor/Applicant Name:	John McCue
Customer Number:	24949
Filer:	Neil Teitelbaum/Lisa Fader
Filer Authorized By:	Neil Teitelbaum
Attorney Docket Number:	141-1 US CON2 DIV CON
Receipt Date:	26-FEB-2016
Filing Date:	
Time Stamp:	15:18:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 730
RAM confirmation Number	1775
Deposit Account	502810
Authorized User	FADER, LISA

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees)

Charge any Additional Fees required under 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	Application Data Sheet	ADS.pdf	78832	no	2
			3e136098c1e54e2979a3109bc97066d5802decda		
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2	Oath or Declaration filed	DECLARATION_John.pdf	340137	no	1
			26a91ef238631eaca0baaa8da2f14d38d18d8cda		
Warnings:					
Information:					
3	Oath or Declaration filed	DECLARATION_Robert.pdf	340371	no	1
			d817cdc4474796dd521e66909e21c9485dede7b7		
Warnings:					
Information:					
4	Oath or Declaration filed	DECLARATION_Glenn.pdf	340645	no	1
			dc0621c2dd4eba86740c17f1c858136b711c4255		
Warnings:					
Information:					
5	Oath or Declaration filed	aia0002_sub_stmt_in_lieu.pdf	898401	no	2
			d76d7282e6173a14e9c291fbbd188edcd50afd76		
Warnings:					
Information:					
6	Specification	DIVSpecification.pdf	176868	no	29
			a680acbfdeedb26cd2c807a442a849ef54391ef7		
Warnings:					
Information:					
7	Drawings-only black and white line drawings	FiguresFinal.pdf	147686	no	15
			c431861af6440a08f45a3e4fbadd7bd04687b5c		
Warnings:					
Information:					

8	Preliminary Amendment	PrelimAmend.pdf	105181 d8161bdec0714dd3312f986665979773833695	no	8
Warnings:					
Information:					
9	Transmittal Letter	IDS.pdf	127108 9b6b85cb1a3580b8f5e8a0761ceaa95154216b43	no	4
Warnings:					
Information:					
10	Non Patent Literature	Arons_SpeechSkimmer.pdf	2329871 e2e075c1438606efd84227c6b5f76427936117c3	no	36
Warnings:					
Information:					
11	Non Patent Literature	EPUB_Media_Overlays.pdf	584080 4252b10eb45e0400d4bc5de6d6facfa77f8162d1	no	35
Warnings:					
Information:					
12	Fee Worksheet (SB06)	fee-info.pdf	34984 63f8f67766591150bd38138caf8fc50cd40f0f96	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			5504164		
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. <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. <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. <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.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	:	Examiner: N/A
McCue et al.	:	
	:	Art Unit: N/A
Application Serial No.: New	:	
	:	Atty. Dkt. No.: 141-1 US CON2 DIV CON
Filing Date: New	:	

For: **METHOD AND SYSTEM FOR RENDERING CONTENT ACROSS MULTIPLE
CLIENT DEVICES**

EFILED

Commissioner for Patents

APPLICATION DATA SHEET

Applicant Information

Audio Pod Inc., 606-900 Greenbank Road, Ottawa, Ontario, K2J 4P6, Canada

Inventor Information

Inventor(s):

John McCue, 103 Thistledown Court, Ottawa, Ontario, K2J 1J5, Canada

Robert McCue, 9 Amherst Crescent, Ottawa, Ontario, K2J 1S7

Gregory Shostakovsky, 27 Morgan's Grant Way, Kanata, Ontario, K2K 2G2

Glenn McCue, 103 Thistledown Court, Ottawa, Ontario, K2J 1J5, Canada

Correspondence Information

Direct all correspondence to the address associated with Customer No.: 24949

Attorney contact for this case: Neil Teitelbaum

Email Address: nt@patents.org

Application Information

Title: **METHOD AND SYSTEM FOR RENDERING CONTENT ACROSS MULTIPLE
CLIENT DEVICES**

Attorney Docket No.: 141-1 US CON2 DIV CON

Application Type: Nonprovisional

Subject Matter: Utility

Total No. of Drawing Sheets: 15

Suggested Figure for Publication: 3

Representative Information

The attorneys associated with Customer No.: 24949

Domestic Priority Information

This application is a continuation of U.S. Pat. Appln. No. 14/924,028, filed on October 27, 2015, which is a divisional application of U.S. Pat. Appln No. 14/250,591 filed April 11, 2014, which is a continuation of U.S. Pat. Appl. No.13/588,084 filed August 17, 2012, which is a continuation of U.S. Pat. Appl. No. 12/096,933 filed June 11, 2008, which was the National Stage of International Application No. PCT/CA2006/002046 filed December 12, 2006, which claims priority from US Pat. Appl. Ser. No. 60/749,632 filed December 13, 2005, all of which are hereby incorporated by reference in their entireties.

Foreign Priority Information

None

Assignee Information

Assignors:

John McCue, 103 Thistledown Court, Ottawa, Ontario, K2J 1J5, Canada
Citizenship: Canada

Robert McCue, 9 Amherst Crescent, Ottawa, Ontario, K2J 1S7
Citizenship: Canada

Gregory Shostakovsky, 27 Morgan's Grant Way, Kanata, Ontario, K2K 2G2
Citizenship: Canada

Glenn McCue, 103 Thistledown Court, Ottawa, Ontario, K2J 1J5, Canada
Citizenship: Canada

Assignee:

Audio Pod Inc., 606-900 Greenbank Road, Ottawa, Ontario, K2J 4P6, Canada

RESPECTFULLY SUBMITTED,

February 26, 2016

By: /Neil Teitelbaum/
Neil Teitelbaum
Regn No. 38,793

Teitelbaum & MacLean
280 Sunnyside Avenue
Ottawa, ON
K1S 0R8 Canada
Phone: 613-523-3784 ext 100
Fax: 613-523-6799
E-mail: nt@patents.org

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Title of Invention: METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT
ACROSS MULTIPLE CLIENT DEVICES

As a below named inventor, I hereby declare that:

This declaration is directed to (check appropriate box):

☒ The attached application,

OR

☐ United States Application Number or PCT International application number

_____ filed on _____.

I hereby authorize my attorney to insert in the above blank spaces the filing date and application number of said application, when known.

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56 (a).

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: the attorneys associated with Customer Number 24949. Direct all telephone calls to Neil Teitelbaum or Doug MacLean at (613) 523-3784. Address all correspondence to the address associated with Customer Number 24949.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal Name of Inventor: John McCue

Date (Optional): _____

Signature of Inventor: _____

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Title of Invention: METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT
ACROSS MULTIPLE CLIENT DEVICES

As a below named inventor, I hereby declare that:

This declaration is directed to (check appropriate box):

☒ The attached application.

OR

☐ United States Application Number or PCT International application number

_____ filed on _____.

I hereby authorize my attorney to insert in the above blank spaces the filing date and application number of said application, when known.

The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56 (a).

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: the attorneys associated with Customer Number 24949. Direct all telephone calls to Neil Teitelbaum or Doug MacLean at (613) 523-3784. Address all correspondence to the address associated with Customer Number 24949.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal Name of Inventor: Robert McCue

Date (Optional): _____

Signature of Inventor: Robert McCue

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Title of Invention: METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT
ACROSS MULTIPLE CLIENT DEVICES

As a below named inventor, I hereby declare that:

This declaration is directed to (check appropriate box):

☒ The attached application,

OR

☐ United States Application Number or PCT International application number

_____ filed on _____.

I hereby authorize my attorney to insert in the above blank spaces the filing date and application number of said application, when known.

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56 (a).

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: the attorneys associated with Customer Number 24949. Direct all telephone calls to Neil Teitelbaum or Doug MacLean at (613) 523-3784. Address all correspondence to the address associated with Customer Number 24949.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal Name of Inventor: Glenn McCue

Date (Optional): _____

Signature of Inventor: Glenn McCue

Doc code: Oath

Document Description: Oath or declaration filed

PTO/AIA/02 (07-10)

Approved for use through 01/31/2014. OMB 0651-0032

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

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	METHOD AND SYSTEM FOR RENDERING DIGITAL CONTENT ACROSS MULTIPLE CLIENT DEVICES		
This statement is directed to:			
☒ The attached application, OR ☐ United States application or PCT international application number _____ filed on _____			
LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Gregory Shostakovsky			
Residence (except for a deceased or legally incapacitated inventor):			
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
City	State	Zip	Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
☐ Legal Representative (for deceased or legally incapacitated inventor only), ☒ Assignee, ☐ Person to whom the inventor is under an obligation to assign, ☐ Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or ☐ Joint Inventor.			

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute 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 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☒ Inventor is deceased,
☐ Inventor is under legal incapacity,
☐ Inventor cannot be found or reached after diligent effort, or
☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

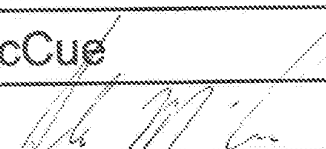
If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.
- OR
- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: **John McCue** Date (Optional):
 Signature: 

APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

If the applicant is a juridic entity, list the applicant name and the title of the signer:

Applicant Name: **Audio Pod Inc.**
 Title of Person Executing This Substitute Statement: **Chief Technology Officer**
 The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City	State	Country
Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)		
City	State	Country
City	State	Zip
City	State	Country

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

MEMORY MANAGEMENT OF DIGITAL AUDIO DATA

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a divisional application of U.S. Pat. Appln No. 14/250,591 filed April 11, 2014, which is a continuation of U.S. Pat. Appl. No.13/588,084 filed August 17, 2012, which is a continuation of U.S. Pat. Appl. No. 12/096,933 filed June 11, 2008, which was the National Stage of International Application No. PCT/CA2006/002046 filed December 12, 2006, which claims priority from US Pat. Appl. Ser. No. 60/749,632 filed December 13, 2005, all of which are hereby incorporated by reference in their entireties.

TECHNICAL FIELD

[0002] The present application relates generally to the memory management of digital audio data, and in particular, to memory management of an open media stream stored on an electronic device.

BACKGROUND OF THE INVENTION

[0003] Traditionally, there have been two different approaches for delivering digital audio data. In the first approach, the digital audio data is mass downloaded. More specifically, and as shown schematically in Fig. 1, one or more files corresponding to an entire audio stream 10 is transmitted one frame 12 at a time from the server to the client. Once the entire audio stream 10 has been received and reassembled to form a continuous, contiguous audio stream, it is stored in storage 14 prior to being transmitted to a media player 16.

[0004] In the second approach, streaming technology is used to deliver the digital audio data 'just-in-time'. More specifically, and as shown schematically in Fig. 2, an entire audio stream 20 is transmitted one frame 22 at a time from the server to the client, where it is received and reassembled, in part, to provide a continuous, contiguous audio stream (i.e., a small portion of audio stream continuity is preserved). Once each frame is played by the media player 26, it is then discarded from the buffer.

[0005] Small audio streams, or audio-video streams, which for example correspond to individual songs, very short movies, and music videos, are typically transmitted using the first approach. In terms of the delivery of these smaller streams of media, the delays experienced by the users are generally tolerated because they are relatively short in nature. Typically, time delays are measured as one or two minutes, and although possible, tend not to exceed this.

[0006] The delivery of larger audio streams, which for example include books and radio shows, presents a problem for the user community. Whereas a single song that plays for 4 minutes may take 1 minute to download, an audio book that plays for 12 hours may take 3 to 4 hours to download. Although the general performance is relatively the same in terms of throughput rate, users of this media complain about the hours of waiting to receive and use the media selected.

[0007] While streaming technology obviates the waiting associated with mass download, any degradation experienced in the delivery of the content in real time introduces interruptions in the audio stream, causing breaks and interruptions in the users experience of that audio stream. Moreover, since the digital audio data is not stored, repositioning within the audio stream (e.g., using rewind or fast forward functions) interrupts the just-in-time nature of content delivery, and thus, may introduce significant delays and/or be inefficient. For example, in the case of rewinding a streamed audio stream, the content associated with the new position selected in the audio stream will need to be downloaded a second time and the future content temporarily stored in the buffer will be discarded.

[0008] In both of the existing technologies, great effort is made to reassemble the audio stream into a continuous, contiguous audio stream prior to being presented to the media player. In the case of the mass download approach, the entire audio stream is downloaded and reassembled prior to use. In streaming technologies, a very small portion of the audio stream is downloaded and reassembled prior to use with additional content delivered and already played content discarded continuously, to maintain a very small portion of continuity in the audio stream. Notably, this reconstruction of the audio stream complicates the digital audio data delivery and increases delivery time.

[0009] In addition, in both of the existing technologies, the user has limited tracking options. For example, ‘The Godfather’ is an audio book that, as commercially released, contains 24 MP3 files that require 80 megabytes of storage and plays at normal speed for a total of almost 9 hours. In order to use these files with existing mass download technology, the user must manually keep track of which file is currently being listened to and where one is in that particular file.

[0010] Tracking problems also develop if the users audio player automatically changes files, if the user is listening to multiple audio streams and/or if the user listens to audio streams on more than one client device (e.g. if a user is listening to the audio stream at work and wants to resume play at home). It can be particularly difficult and time consuming for the user to resume listening to an audio stream at a specific position.

SUMMARY OF THE INVENTION

[0011] The instant invention obviates some of the above-described disadvantages by segmenting an audio stream into a plurality of small digital audio files using gaps in the natural language of the audio stream. These small digital audio files are transmitted, loaded, and played, in a specific order, such that from the user’s perspective, the audio stream is reproduced in an apparently seamless manner. Advantageously, this is done without reassembling the audio stream, either in whole or in part. Further advantageously, since the small digital audio files are created using natural language gaps, they can be sufficiently small to ensure that a first small digital audio file is downloaded and played without significant delay, while successive small digital audio files are downloaded to be played in the future. Accordingly, the user receives the audio-on-demand in a timely manner.

[0012] The instant invention further obviates some of the above-described disadvantages by providing a virtual audio stream descriptor, which includes a record of the position of each small digital audio file in the audio stream, to increase tracking options. More specifically, the virtual audio stream descriptor and one or more predetermined time offsets into the audio stream are used to position or reposition the audio stream at will. The predetermined time offsets are typically provided via internal media marks, external media marks, and/or rewind/fast-forward functions.

[0013] In a system as described in this specification, there is a requirement to free-up or make available memory storing data that is no longer required. In this regard, and in accordance with an aspect of this invention there is provided an electronic device including a non-transitory computer readable storage medium having computer readable code which when executed by a processor, causes said electronic device to: identify a portion of an open media stream that is stored on the electronic device; identify bookmark information and related time metrics information related to the open media stream stored on the electronic device so as to identify content within or related to the open media stream that is no longer required; and manage the memory so as to allow new data to be stored where the content that is no longer required was stored.

[0014] In accordance with another aspect of the instant invention there is provided a non-transitory computer readable storage medium having computer readable code which when executed by a processor on an electronic device, causes the electronic device to: identify a portion of an open media stream that is stored on the electronic device; identify bookmark information and related time metrics information related to the open media stream stored on the electronic device so as to identify content within or related to the open media stream that is no longer required; and, manage the memory so as to allow new data to be stored where the content that is no longer required was stored.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] Further features and advantages of the present invention will become apparent from the following detailed description, taken in combination with the appended drawings, in which:

[0016] FIG. 1 is a schematic diagram showing the prior art mass download of an audio stream;

[0017] FIG. 2 is a schematic diagram showing prior art streaming of an audio stream;

[0018] FIG. 3 is a schematic diagram illustrating the transmission of an audio stream in accordance with one embodiment of the instant invention;

[0019] FIG. 4 is a schematic diagram of one embodiment of a network based library;

- [0020]** FIG. 5a shows an embodiment of an actual audio stream structure;
- [0021]** FIG. 5b shows an embodiment of a small digital audio file structure;
- [0022]** FIG. 5c shows an embodiment of a virtual audio stream descriptor structure;
- [0023]** FIG. 5d shows an embodiment of an illustration structure;
- [0024]** FIG. 5e shows an embodiment of an advertising structure;
- [0025]** FIG. 5f shows an embodiment of a catalog index structure;
- [0026]** FIG. 5g shows an embodiment of a server list structure;
- [0027]** FIG. 6 is a schematic diagram showing card catalog index structure relationships;
- [0028]** FIG. 7 is a schematic diagram illustrating one embodiment of a library creation process;
- [0029]** FIG. 8 is a schematic diagram illustrating one embodiment of an audio stream splitter process;
- [0030]** FIG. 9 shows an embodiment of a bookmark structure;
- [0031]** FIG. 10 is a schematic diagram showing virtual audio stream structure relationships;
- [0032]** FIG. 11 is a schematic diagram illustrating one embodiment of a performance management process;
- [0033]** FIG. 12 is a schematic diagram illustrating information transfer and client memory status;
- [0034]** FIG. 13 is a schematic diagram illustrating one embodiment of a bookmarked audio stream purge process;
- [0035]** FIG. 14 is a schematic diagram illustrating one embodiment of an active audio stream purging process;

[0036] FIG. 15 is a schematic diagram illustrating one embodiment of a memory manager process;

[0037] FIG. 16 is a schematic diagram illustrating one embodiment of a download manager process;

[0038] FIG. 17 is a flow diagram illustrating one embodiment of a process for using the software product;

[0039] FIG. 18 is a flow diagram illustrating one embodiment of the player control process; and

[0040] FIG. 19 is a flow diagram illustrating one embodiment of the general functional process.

[0041] It will be noted that throughout the appended drawings, like features are identified by like reference numerals.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0042] Referring to Fig. 3, there is shown a system for transmitting digital audio data in accordance with one embodiment of the instant invention. The system includes a server 100, a client 150, and a network (not shown) for connecting the server 100 and the client 150.

[0043] On the server side 100, an audio stream analyser 115 is provided for analysing large digital audio files 110 frame by frame 112, and for segmenting the large digital audio files 110 into a plurality of small audio files 122. More specifically, the audio stream analyser 115 locates areas of silence or low decibel levels, hereafter referred to as gaps, within the audio stream. When these natural language gaps are found, and after more than a specific amount of content has been processed, that content is written to a small audio file. This parsing process is repeated until the entire audio stream has been split, or segmented, into the plurality of small audio files 122. In general, the size of each small audio file is selected such that it can be transferred from the server 100 to the client 150 in a period of time that does not cause appreciable consternation on behalf of the user. For example, as a benchmark for success, this time frame is

similar to that used in the telephone industry when a subscriber lifts a receiver and waits for a dial tone. Accordingly, a two second wait is considered to be close to the maximum tolerable delay, with the optimal target being in the sub-second range. The actual size range of the small audio files will be dependent on the network throughput rates. As a result, as network speed increases, the upper limit on the size of the segments will also increase.

[0044] The audio stream analyser 115 also analyses each small digital audio file to determine the start time, end time, and/or play time of the small digital audio file within the audio stream 110. This information is recorded in an index file 124 (e.g., an XML document). The index file 124, which is a virtual description of the actual audio stream, provides the information needed by a media player to reproduce the experience of a contiguous audio stream for the user without reconstructing the audio stream. The term ‘actual audio stream’ as used herein, refers to the plurality of small digital audio files that comprise the entire audio stream, and that when played sequentially, provide an apparently seamless audio experience. According to one embodiment, each of the small digital audio files is named using a number (e.g., eight-digit decimal number) that indicates its logical order in the actual audio stream.

[0045] In addition to providing actual stream details (i.e., the information for locating and managing the plurality of small digital audio files), the virtual audio stream descriptor 124 also typically includes descriptive details used to describe the content of the audio stream, such as the title and/or ISBN. Optionally, the virtual audio stream descriptor 124 also includes internal media marks, illustrations related to the audio stream, and/or internal advertising. Internal media marks are used to identify a specific point in time in the audio stream that is offset from the beginning of the audio stream. More specifically, they generally point to a time offset associated with some user readable tag such as a table of contents, an index, a list of tables, a list of figures, footnotes, quotations, a list of illustrations, etc. Illustrations related to the audio stream and/or internal advertising may include graphics, static images, moving images, and/or other audio-visual content that is displayed for a fixed duration.

[0046] In general, the virtual audio stream descriptor 124 and the actual audio stream 122 will be stored together in a same location 120 on the server 100. For example, according to one embodiment the plurality of small audio files 122 and the virtual audio stream descriptor 124 are

stored in a same directory of a library residing on one or more servers on the Internet. According to the embodiment illustrated in Fig. 4, the plurality of small audio files 122 and the virtual audio stream descriptor 124 are stored in the same library, but in different areas. More specifically, the virtual audio stream descriptors 124 are stored in an area for administrative files 144, whereas the plurality of small audio files 122 is stored in an area for actual audio streams 140. The area for actual audio streams 140 includes n directories for storing n audio streams, each with a corresponding cover art image. The cover art image, which is a graphic file, is intended to provide a user with a familiar look and feel of a book cover and/or to provide easy recognition. Optionally, one or more of the n directories is located at a remote URL.

[0047] The administrative files, which include the virtual audio stream descriptors 124, typically use the electronic equivalent of a card catalog to provide a simple, easy to use method of navigation and access of the actual audio streams. In general, these card catalog index files (e.g., XML documents) will include a hierarchical structure of cascading indexes that relate in various ways. For example, according to one embodiment the card catalogue will include indices based on keywords such as historical, detective, suspense, action, etc. The references contained in each index point to other index structures or to a specific virtual stream descriptor. Each index structure contains a reference to its parent index structure, thus allowing navigation in both directions (i.e., up and down the branch of hierarchy). Each media entry may appear within the structure of the entire index multiple times, to allow reference and/or navigation from many points. The structure of the index is such that endless navigation loops caused by circular definitions are not possible.

[0048] The administrative files also optionally include announcements, updates, and a server list (not shown). Announcements, which for example may be in an XML file, are typically informative or instructive in nature. The updates, which may include programs, data files, instruction files, setup files, and/or other text, typically contain information for providing a maintenance update. The server list (not shown), which may also be an XML document, typically contains a list of servers that are available on the network and that can provide general library and content information. In general, each server listed will be a mirror of the primary server (also included in the list).

[0049] Figs. 5a-g show examples of data structures of: a) an actual audio stream, b) a small digital audio file, c) a virtual stream descriptor, d) illustrations, e) advertising, f) a card catalog, and g) a server list, respectively. Fig. 6, which shows the structure relationships, demonstrates that the actual audio stream, illustration, advertisement, and cover art image structure (not shown) are each referenced as a target structure from the virtual audio stream descriptor. Each of the actual audio stream, illustration, and cover art image structures also contain a reference identifier back to its parent structure. In contrast, the announcement structure (not shown) is functionally independent of other information bearing structures.

[0050] An embodiment of a process used to create an audio book library is shown in Fig. 7. The audio stream, in raw form, is acquired from either a publisher or is imported from an audio media or conversion routine. The raw files are analysed using natural language gaps and are segmented into the plurality of small digital audio files (i.e., segment files) that form the actual audio stream. Book cover art is imported and formatted, if required. The plurality of small digital audio files and cover art image are placed in a unique directory, which is local or at some remote URL. Audio stream information that describes the audio stream is manually entered using the library administrator utility to create a virtual audio stream descriptor for each audio stream. Information that describes the location and structure of the actual audio stream is provided using the audio stream profiler. The administrator utility is also used to build a series of integrated index files that make up the card catalog for the library, and to provide tools to maintain updates, server lists and announcements. Preferably, this master library is replicated on a number of mirror sites that are also made available on the network. Following updates to the master library, an automated verification utility ensures that network accessible copies of the library (i.e., the one or more mirror sites) are also updated to ensure the integrity of the system.

[0051] Referring to Fig. 8, the segmentation of the raw files is discussed in further detail. In a first step, 200, the list of original raw audio files is built in logical order. These files are processed one at a time. More specifically, after confirming the existence of a raw file 202, the raw file is opened 204, a segment file is opened 206, and a frame is obtained from the raw file 208. Assuming the frame does not correspond to the end of the raw file 210, and that the segment file has not reached an arbitrary minimum size 214 (e.g., 100 kilobytes), the frame is written to the segment file 216. After this limit is reached, audio frames are analysed looking for

a period of silence or low decibel levels 218. If this period of silence is found, or if the upper size limit (e.g., 250 kilobytes) of the segment file is exceeded, the current segment file is closed 220 and a new output small audio file is opened 222. In the event that the unprocessed raw file content is less than a slack limit 212 (e.g., 25 kilobytes), the testing for silence and the upper limit testing is not performed and the remaining audio frames are written to the then current segment file. According to one embodiment, this method is used to find periods of silence between chapters, paragraphs, sentences, phrases, words, and/or at punctuation marks. Optionally, the audio stream splitter/analyser 115 searches for long periods of silence, which are subsequently truncated. For example, periods of silence that exceed 2 seconds in length have been found to make users assume that a problem exists in the delivery or replay of the audio stream. In order to eliminate these user concerns, periods of silence that exceed 2 seconds in length can be truncated, and the audio content that has been truncated, discarded.

[0052] Referring again to Fig. 3, the client side includes a memory manager 152, a download manager (not shown), a media coordinator 154, and a media player 156. The memory manager 152 is a complex memory manager used to maintain the integrity of the actual audio stream, which is transferred from the server 100 to the client 150 using a standard transfer utility (e.g., FTP). The function of the memory manager 152 is to ensure that there is sufficient memory available to receive large numbers of small digital audio files, to ensure that sufficient audio content is available when needed, and to ensure that a quantity of already heard audio content is maintained (e.g., so a user can rewind the audio stream to review recently heard content without repeated downloads). The download manager is responsible for obtaining the small audio files that make up the audio stream. The media coordinator 154 delivers the plurality of small digital audio files in the appropriate order to the media player 156. The memory manager 152, download manager (not shown), and media coordinator 154, are all part of an integrated, network-based software product used to control the media player 156.

[0053] According to one embodiment, the software product is a user-friendly interface that allows the user to select an audio stream, to download a small digital audio file representing a selected part of the selected audio stream, to play the small digital audio file relatively quickly (e.g., within 2 to 5 seconds), and to download and play the logically next small digital audio file such that the transition between successive small audio files is apparently seamless.

[0054] According to one embodiment, the software product includes computer-readable code that allows the user to use a plurality of navigation buttons to access a network-based library card catalog, bookmarks, cover art images, and/or announcements/updates. As discussed above, a network-based library card catalog, which may index audio streams in a hierarchical fashion such that there are many possible paths to reach a single audio stream, is typically stored on a network-based library for the navigation thereof. According to one embodiment, once the navigation button for the card catalogue is selected the user is able browse through a series of keywords describing a plurality of audio streams, to select an audio stream from the network based card catalogue, to load a profile of the selected audio stream, and/or to download the selected audio stream. According to one embodiment, the profile includes information obtained from the descriptive details entered into the virtual audio stream descriptor.

[0055] Bookmarks are external media marks (i.e., external to the virtual audio stream descriptor) that allow the user to identify and/or access an audio stream at any point within that audio stream. Similar to internal media marks, each bookmark provides a time offset from the beginning of the audio stream. In other words, if an audio stream starts at time zero and continues for some elapsed time to a maximum duration, the bookmark identifies a specific point in time in the audio stream that is offset from the beginning of that audio stream. The bookmark also identifies and/or points to the virtual audio stream descriptor of the target audio stream (e.g., in a local directory or at some network address). Using the time offset and the information in the virtual audio stream descriptor, the software product is able to select the appropriate small audio file to be played. Moreover, the exact position within the small audio file can also be calculated as a local offset to ensure correct positioning within that small audio file.

[0056] Bookmarks are typically, but not always, created by the client software. For example, if the media player is stopped in the middle of an audio stream, a bookmark is created and stored. Alternatively, the user creates a bookmark using a 'make bookmark' command. More than one bookmark may be created for each audio stream. The bookmark identifies the bookmarked audio stream and the time offset of the bookmarked position. Optionally, to assist the user of the audio stream in 'picking up where you left off', a predetermined time (e.g., 30 seconds) is subtracted from the time offset of the bookmarked position and stored as the new time offset. Optionally, the predetermined time is listener selectable. Fig. 9 shows an example of a data

structure for an external bookmark, whereas Fig. 10 illustrates the structure relationships. Notably, the virtual audio stream descriptor may be addressed from either the integrated card catalog or the bookmark. Optionally, the virtual audio stream descriptor is addressed in another manner.

[0057] Since the bookmark only contains references to the audio stream, and does not contain any part of the audio stream itself, the bookmark can be transferred from client to client or from server to client without violating the copyright of the work product contained within the audio stream. For example, a user can bookmark an audio stream at an interesting point and e-mail that bookmark to friends without violating copyright. Clearly, the ability to position an audio stream at some arbitrary point without the need for that media to be resident provides great flexibility. Moreover, the nature of the bookmark makes it independent of the physical structure of the audio stream. This allows changes in media and format without corrupting the integrity of the mark or the audio stream. Examples of such changes include changing bit and scan rates in MP3 files, changing from MP3 to .wav format, changes to the actual audio stream, small audio file structure, and/or reformatting of the audio stream itself. According to one embodiment, the bookmark is an XML document.

[0058] The bookmark navigation button allows the user to view a list of bookmarks corresponding to open audio streams (e.g., a book that has been accessed and partially read), to select a bookmark, and to play the audio stream at the bookmarked position. For example, the software product may list the bookmarked audio streams in the descending order of the date and time that the audio stream was last read.

[0059] According to one embodiment, the software product includes computer-readable code that allows the user to use a plurality of standard player control buttons to begin playing the audio stream, stop playing the audio stream, and/or fast forward within the audio stream. Notably, the rewind and fast-forward control buttons do not actually act on the audio stream. Rather, these two functions are used to advance or retard the time offset that indicates the then current position in the audio stream. For example, rewind will cause this offset to decrease to a minimum of zero (e.g., seconds), whereas fast forward will increase the time offset to a maximum of the upper limit of the audio stream duration. Accordingly, the user is able to fast

forward and rewind through the audio stream, even if the audio content is not resident. In particular, after the time offset has been adjusted to where the user desires, if the relevant small audio file is not resident, it is obtained from the library, again in the 2 to 5 second range. The small audio file is then loaded, positioned and played.

[0060] According to one embodiment, the software product includes computer-readable code that provides a number of different displays, including for example, a basic display, an introduction display, a bookmark display, a library card catalog display, a book details display, a book player display, and a book cover display. These displays provide appeal and/or familiarity to the user. For example, the basic display may provide a decorative skin or frame to standardize the appearance of the software product when played on different platforms (e.g., desktop, laptop, personal data assistant, cell phone, dedicated device, etc), whereas the introduction display may appear during the start up of the program. Other displays, such as the bookmark display, library card catalog display, and/or book details displays may provide the navigation buttons. The book player display may show the book that is currently loaded into the player, the book title, author, copyright, and/or book length. The book player display may also provide the standard player control buttons discussed above. Optionally, the book player provides a content level indicator, which is a measure of the amount of continuous content that is resident beyond the current position in the book, and/or a positive feedback feature, which is used to inform the user that the player is active. According to one embodiment, the navigation and/or control buttons are selected using standard data entry techniques, which for example, may use a mouse, keyboard, touch pad, and/or touch sensitive screen. If the latter is provided, a virtual keyboard is typically provided.

[0061] According to one embodiment, the software product also provides a number of other displays including a set-up display, a notes display, a quotations display, and/or a contact list display. The set-up display allows the user to enter/change user account name, password, default server information, DNS name of server, communication ports of the server, and/or secure sockets. The notes display allows the user to enter or select personal notes, which may be edited and/or e-mailed to other clients. In general, the note file may include a unique numerical identification of the audio stream, a tag to the audio stream, a user defined title, comments, the author of the comments, and/or the date and time the note was created. The quotation display

allows the user to enter or select various quotations, which may also be edited and/or e-mailed to other clients. In general, the quotation file may include a unique numerical identification of the audio stream, the start and end point of the quotation in the audio stream, a user defined title, and user defined comments. The contact list display allows the user to maintain a list of names and e-mail address used by the software product.

[0062] According to one embodiment, the software product includes computer-readable code that provides client-based performance management. The performance level of the digital audio data delivery is an important factor in ensuring the integrity of the audio stream available to the user. The purpose of client-based performance management is to ensure that the client software receives service at or above minimum levels. According to one embodiment, this service is automated and is provided transparently to the user utilizing any then current available network resource to do so. In other words, the user is not aware of the source of the service or the mechanics of accessing that service.

[0063] For performance management purposes, the client software views the network and library server as a single entity. To ensure performance levels, the client software maintains statistics for service level for each library server. These server statistics are used when attempting to find the historically fastest server. This file is created and maintained in the client only. If service levels fall below a minimum acceptable level, the client software goes through the list of servers described above to determine which server has the best historical record of service. The client software selects this new server as the primary provider. Notably, using performance management may result in the user receiving small digital audio files from more than one server for the same audio stream.

[0064] The performance management logic is built into lower level functions that perform various network and library based functions. These include 1) Logging in to a server; 2) Obtaining a file from the server; 3) Obtaining file size and creation dates. Referring to Fig. 11, the initial steps taken by the client software are to load the list of servers 360 available for use and the historical transfer statistics 362. The fastest server from the list is then selected 364 as the primary server. If the server is not available or fails to respond, the next fastest server is selected. The process continues until a server is reached. If no servers are available, the default

server entered is used. Servers that are found to be slow or are continually in error will have their transfer rate increased based on one of two values 366. The value is either the total elapsed time of the transaction with the server or an error value equal to a predetermined transaction delay (e.g., one minute). As time goes on, these operational statistics are aged 368 to reduce the effect of errors or network delays. Servers are slowly aged until such time as their statistics are not less than the average for all servers. The result of the aging process means that, assuming no additional delays or errors, the operational average will decrease to some baseline average that will be greater than the fastest servers but still make the aged servers available in the future. With the then current fastest server established, that server is used as the target of all library operations. A connection must be established to the network in order to communicate. Each operation including, but not limited to login, get file and get file size are timed to see how long each transaction takes. This testing is built right into the lower level logic of the client software. In the event that a server is failed out as a result of error or degradation, a new server is selected to take its place. This server replacement occurs in the same manner that is customarily used for a non-fatal error. That is, the transaction is retried following the server replacement process without the upper levels of client software logic or the user becoming aware that it has occurred. In this way, the client software is able to balance network and server loads on the basis of performance without intervention from any other level.

[0065] According to one embodiment, the software product uses a universal ISBN server, which is designed to provide a simplified means to locate network-based library services from one or more suppliers on a network. The ISBN server may be located on the Internet for global access or on various intranets for use by various public or private organizations. The purpose of the ISBN server is to receive a request from a client device and return a list of one or more servers. The request from the client device will include a unique ISBN number or other unique identifier. The ISBN server will look up the unique identifier in a preloaded database and assemble or extract a list of servers capable of supporting library services for that identifier. This list is then returned to the client device. Upon receipt of the list of library servers, a selection is made from that list as the preferred provider of library service (e.g., as discussed with regards to client based performance management). The selected server is then accessed to acquire the

virtual audio stream descriptor that goes with the unique identifier originally provided by the client.

[0066] Preferably, the software product, including the computer-readable code, is stored on a computer readable storage medium on the client side of the system 150. The computer readable code is then used to access information structures and files that reside on one or more servers on the server side of the system 100 (e.g., within a server farm). Information transfer from client to server is accomplished using industry standard server software, tools and utilities. A summary of various types of information, structures or files is provided in Table 1.

[0067] Informa tion Type	[0068] Content
[0069] Admini strative	[0070] Contains information, structures and files that are used to facilitate access to media contained within the library and maintain the operational environment status of the client software.
[0071] Announ cements	[0072] Contains announcements that could be used in a number of ways, typically to inform users and keep them up to date on current or upcoming events or news.
[0073] Server List	[0074] Contains the primary server site and a list of library mirror sites capable of maintaining audio stream continuity for the consumer in the event of degraded or interrupted service.
[0075] Perform ance History	[0076] Contains a list of historical throughput performance and failure rate metrics for the library primary and mirror sites. Present only on the client platform.
[0077] Updates	[0078] Contains the actual files and information needed to perform network-based updates while online using automated routines provided.
[0079] Catalog Index	[0080] Contains the cross-reference information needed to access subordinate catalog indexes and to access virtual audio stream descriptors.
[0081] Virtual Reference	[0082] Contains information, structures and files used to provide access to and delivery of specific audio streams.
[0083] Bookma rk	[0084] Contains the information needed to restart a specific audio stream at a specific point.
[0085] Virtual Audio Stream	[0086] Contains the information that describes all aspects of an audio stream and the information needed to access and use

Descriptor	the actual audio stream.
[0087] Cover Art Image	[0088] Contains a graphic or image that is used to represent the entire audio stream to the user in their own mind similar to the task accomplished by the cover art graphics on a printed book.
[0089] Actual audio	[0090] Contains the actual media content and supportive graphics and/or audio/video content
[0091] Actual audio Stream	[0092] Contains one or more small audio files that comprise the entire audio stream and that when played in order form a seamless audio experience.
[0093] Illustrations	[0094] If present, contains one or more graphic, image, video or audio/video portions of multimedia content intended for use with and in support of the actual audio stream.
[0095] Ancillary	[0096] Contains other information, structures and files used in the delivery of content not considered actual content within audio streams.
[0097] Advertisements	[0098] If present, contains one or more graphic, image, video or audio/video portions of multimedia content intended to be used before, during and after presentation of any audio stream subject to the requirements described in the virtual audio stream descriptor.

Table 1. Various types of information, structures, and files

[0099] Fig. 12 shows the information, structures and files contained on the server side generally grouped by function. The same information, structures and files are grouped differently on the client side and, in particular, are grouped by their requirement for retention. More specifically, this schematic diagram illustrates that as information is transferred from the server to the client, it is typically organized based on the priorities defined for the memory manager. The structures used are considered more or less expendable subject to their content. Static structures contain information needed to establish and maintain connections with the servers on the network. The term static indicates that the structures, once defined, remain in place although the content thereof may change. The memory manager will preserve these structures at all costs. The volatile structures include those whose existence is short lived. The memory manager will balance the need for space with the need to retain content surrounding active bookmarks. As the demands for space increase, the content surrounding bookmarks becomes less and less. The structures that are considered dynamic are semi-permanent structures that typically exist for the

duration that an audio stream remains open and bookmarked. The memory manager will make every effort to ensure that these structures are preserved, but may remove them as a final option to obtain space. Typically, the last structures to be purged are the oldest bookmark structures.

[0100] According to one embodiment, the static files are contained in a root directory, while the volatile files are contained in a spooler directory. A list of possible static and/or volatile files that may be used by the software product is provided in Table 2.

[0101]	Filename(s)	[0102]	Contents
[0103]	Static Files	[0104]	
[0105]	Audio Pod Directory	[0106]	The directory that contains all files that are static in their existence
[0107]	Spooler Directory	[0108]	The directory that contains all files that are volatile in their existence
[0109]	AudioPod.exe	[0110]	The Audio Pod executable image
[0111]	AudioPod.xml	[0112]	The Audio Pod startup initialization file; in XML format
[0113]	UpdateManager.exe	[0114]	The Audio Pod Update Manager executable image
[0115]	ServerList.xml	[0116]	The list of libraries, mirrors and servers that are available on the network as targets for the Audio Pod Performance/Load manager; in XML format
[0117]	ServerStats.xml	[0118]	The historical rate of response statistics for all library servers; in XML format
[0119]	BookMarks.xml	[0120]	The list of active bookmarks; in XML format
[0121]	TheEnd.mp3	[0122]	The audio stream to be played on completion of an audio stream (book)
[0123]	ErrorAlert.mp3	[0124]	The audio stream to play when the Audio Pod must attract the attention of the user while listening to another audio stream (book)
[0125]	Volatile Files	[0126]	
[0127]	Small Audio Files	[0128]	Audio files that make up the various open audio streams (book); in MP3 format

[0129] Cover Art Graphic Files	[0130] Graphic files that contain images of book covers; in jpg graphic format
[0131] Card Catalog Index Files	[0132] Files containing Card Catalog indexes; in XML format
[0133] Book Profiles	[0134] Files containing Book Profiles; in XML format
[0135] Announcement File	[0136] File containing a notice or announcement; in XML format
[0137] Update File	[0138] File containing components needed to perform an update to the Audio Pod and/or any of its' components

Table 2. List of Possible Static and Volatile Files

[0139] As discussed above, a memory purge process is used to remove volatile files to ensure that a requested level of free memory is made available. This process works directly on the contents of the spooler directory. The purging process takes different approaches when dealing with the active audio stream, bookmarked audio streams, and ancillary or support files. A demand for a significant quantity of memory is made at the opening of a new audio stream, or reopening a bookmarked audio stream. The size of the demand is subject to the ultimate size of memory available, the size of the audio stream being accessed and the volume of content from the subject audio stream that may already be resident. In the event that sufficient memory is not available, memory is purged in the following order.

[0140] Ancillary or support files that are considered volatile are removed from memory.

[0141] Virtual audio streams, supporting files and related audio content for any audio stream for which there is no bookmark are deleted.

[0142] Bookmarked audio streams are purged with increasing levels of severity until the memory demands are met.

[0143] The content of dynamic memory including virtual audio stream descriptors, and supporting files are deleted, starting with the oldest.

[0144] When purging bookmarked audio streams, the purging process attempts to retain as much resident content as is possible. The purge process focuses on the bookmark position within

the audio stream. Some resident content is retained within the audio stream preceding the bookmarked position. This is to allow the user the ability to rewind the audio stream in an attempt to pick up where they left off. However, this quantity of content is not large and generally will not exceed 5 minutes. The main effort is to preserve as much resident content of the audio stream that follows the position. In order to satisfy the demand for memory, most, if not all, bookmarked audio streams will have some future content purged. In the event that sufficient memory cannot be obtained with an initial purge of content, the level of severity of the purge will be increased and the purge process repeated. The volume of resident content in the bookmarked audio streams is reduced. This reduction is most severe in content preceding bookmarked positions. As the levels of severity increase further, the quantity of content preceding the bookmarked positions prevents further gains through purging, and content that follows the bookmarked positions is aggressively purged. The purging process continues, reducing the quantity of content surrounding bookmarked positions until, at the ultimate extreme, no content remains. Under normal circumstances, the demand for memory will be met and this situation is expected never to arise. This process is shown in Fig. 13.

[0145] When the demand for memory is met, the selected audio stream becomes the focus of the purging process. The effort becomes one of ensuring that sufficient content is maintained around the current player position to ensure a continuous replay of the audio stream. As the player position approaches the end of available resident content, the current audio stream is purged to make room for additional content. Every attempt is made to preserve some content preceding the current player position to allow the user to rewind a few minutes to pick up the story in the event of interruption. Referring to Fig. 14, A shows the normally expected state of memory with already heard content purged and future content loaded as the player position approaches the end of resident content, whereas B-D shows the state of memory that may result when internal media marks, external bookmarks, rewind, or fast forward functions are used. In these situations, the media player position may be outside of resident content or may result in a discontinuity of resident content. In each situation, the content that precedes the current player position typically is purged prior to purging any content that follows the current player position.

[0146] According to one embodiment of the instant invention, a method of using the software product to transmit digital audio data is described as follows. A user selects an audio stream.

Examples of audio streams include audio books, magazines, newscasts, radio shows, lectures, museum tours, etc, or parts thereof. The audio stream typically is selected from a card catalog, a bookmark, or other means. In general, the actual audio format of the sound information is not important.

[0147] Once an audio stream has been selected, a demand is raised to the memory manager for enough space to work with the virtual audio stream descriptor (e.g., about 250K bytes). In normal operation, this quantity of memory is routinely expected to be available resulting in no action taken by the memory manager.

[0148] The software product ensures that the virtual audio stream descriptor has been downloaded. More specifically, the volatile memory is checked for the existence of this structure and, if it is not resident, it is downloaded. A demand is then raised to the memory manager for the lesser of two quantities of memory. The first value is 75 percent of available memory. The second is the ultimate size of the actual audio stream minus the amount of any memory currently consumed by any small audio files that may already be resident.

[0149] The desired position within the actual audio stream is then ascertained. The default position is assumed to correspond a time offset of zero. If the method of selection was a bookmark, or an internal media mark, then the offset position is obtained from that structure. The offset is validated to be in the range from zero to the maximum duration of the audio stream, a value obtained from the virtual audio stream descriptor. The time offset is compared against the list of small audio file metrics stored in the virtual audio stream descriptor. When the time offset falls between the start and end times of a specific small audio file, that small audio file is identified as the target small audio file. A local time offset is calculated by subtracting the start time of that small audio file from the time offset that was the subject of the search. This local offset is retained for use when positioning the target small audio file.

[0150] If the target small audio file is not resident, then it is downloaded. The small audio file is loaded into the media player and the media player is positioned to the calculated local time offset. When the media player is started, the download manager is signalled to commence operations. The download manager purges the current audio stream and then examines the virtual audio stream and the content of volatile memory. Small audio files are downloaded

sequentially. When the end of the audio stream is reached, downloading stops. If memory is exhausted and the download manager indicates that enough continuous audio content is resident, downloading stops. Otherwise, a demand for additional memory is raised with the memory manager, and the process is repeated.

[0151] As the media player advances through the audio stream, the small audio files are successively loaded and played until the end of the audio stream is reached. The current position in the actual audio stream is tracked. If the current position in the actual audio stream approaches the end of resident audio content and the entire audio stream is not downloaded, then the current audio stream is purged to make memory available for new content, and the download manager is started. New content is downloaded until the end of the audio stream is reached or memory is exhausted. This process is repeated as often as is necessary. In this manner, the software product can process complete audio streams that exceed the size of memory available.

[0152] The small audio files are contained within a common spooling area. As the spooling area fills with small audio files, the quantity of unheard audio increases. This quantity is displayed to the user. As a result, the invention can continue to play through resident unheard small audio files even during periods when out of network contact with the library. The memory manager will detect when network service is restored and continue processing as normal.

[0153] If the media player is stopped, a bookmark is created and stored. The bookmark identifies the audio stream and the time offset of the bookmarked position. The offset value stored is the current position in the audio stream less an arbitrary time. This allows the listener to 'pick up the story' when the listener resumes the current audio stream. If the listener changes the time offset into the audio stream using the rewind and fast forward buttons, or any of the media marks that may be available, the new offset position is used to position the audio stream as described above.

[0154] When the end of the audio stream is reached, any bookmarks are removed from dynamic memory. Without a bookmark, the memory manager will purge the audio stream and all references at the next signal to commence operations.

[0155] This approach allows many audio streams to be opened and bookmarked at one time. Given the actual size of these large audio streams, it will be necessary to have a memory manager capable of ensuring sufficient space is available for the most active audio streams while preserving as much physical content surrounding active bookmarks as is possible. The need to preserve actual audio content around bookmarks becomes clear when considering levels of degradation associated with the acquisition of content across the network. The ultimate goal is to have as near zero delay as is possible when resuming an audio stream. Retaining sufficient media allows audio streams to start virtually instantly, and then acquire media content as needed.

[0156] Fig. 15 provides an overview of the memory manager process in greater detail. When activated, the memory manager first checks to see if there is sufficient audio content already resident (e.g., enough for about 5 minutes play time). If there is enough content, the remainder of the audio stream is resident or the download manager is running, then no action is taken. Otherwise, the memory manager purges the content of the audio spooler directory with the goal of freeing a specific amount of memory. With memory available, the memory manager signals the download manager to commence operations.

[0157] Fig. 16 provides an overview of an embodiment of a download manager process. The contents of the spooler directory are compared with the virtual audio stream descriptor and the user's current position in the audio stream. In particular, the spooler content is examined for the first small audio file that is needed to make the audio stream continuous beyond the then current position in the audio stream. If this file is missing, its size and the amount of available memory is obtained. This small audio file is then downloaded and the integrity of the file verified for size. The download manager continues to run until either memory is exhausted, or the end of the audio stream is reached. If the player is stopped while the download manager is running, the process stopping the player will stop the download manager.

[0158] Referring to Figs. 17, 18, and 19, process flow overviews for using the software product are provided. More specifically, Fig. 17 shows an embodiment of a general process for using the software product, from start-up through various navigation steps and associated logic. A series of navigation buttons shown at the bottom of the diagram provide the user with the ability to navigate to various displays. Fig. 18 shows an embodiment of a process for using the

standard control buttons. Fig. 19 shows an embodiment of a general process for loading the actual audio stream.

[0159] In summary, the software product provides the means to deliver large volume audio streams from a central library to the end user, to maintain bookmarks for each audio stream opened and being read regardless of the number of audio streams opened, to switch audio streams anywhere and anytime, to receive library based announcements and updates, to play spooled audio segments even when network service is unavailable, and to provide active management of network resources that balances load between the main library and all mirror sites on the network, and thus ensures fast, reliable service.

[0160] Of course, the above embodiments have been provided as examples only. It will be appreciated by those of ordinary skill in the art that various modifications, alternate configurations, and/or equivalents will be employed without departing from the spirit and scope of the invention. Accordingly, the scope of the invention is therefore intended to be limited solely by the scope of the appended claim

CLAIMS

1. An electronic device including a non-transitory computer readable storage medium having computer readable code which when executed by a processor, causes said electronic device to:

identify a portion of an open media stream that is stored on the electronic device;

identify bookmark information and related time metrics information related to the open media stream stored on the electronic device so as to identify content within or related to the open media stream that is no longer required; and,

manage the memory so as to allow new data to be stored where the content that is no longer required was stored.

2. The electronic device according to claim 1 wherein the open media stream includes bookmarked media stream and/or an active media stream.

3. The electronic device according to claim 2 wherein the bookmark information includes a position determined in dependence upon a current position within the then active media stream.

4. The electronic device according to claim 3 wherein the bookmark information includes more than one position in the media stream.

5. The electronic device according to claim 3 wherein the bookmark information is created on the device or wherein the bookmark information is created on a second other device and transferred to the device.

6. The electronic device according to claim 3, wherein the identified portion of the open media stream is selected in dependence upon the age of the bookmark information.

7. The electronic device according to claim 1, wherein the time metrics information is stored in a descriptor.
8. The electronic device according to claim 7, wherein the descriptor is external to the open media stream.
9. The electronic device according to claim 7, wherein the content no longer required includes the descriptor.
10. The electronic device according to claim 1, wherein the content no longer required includes related illustrations or related advertising or other related ancillary content, and wherein the related illustrations or the related advertising includes graphics, or static images, or moving images and/or other audio visual content, and wherein the other related ancillary content includes user comments.
11. The electronic device according to claim 1, wherein the identified portion of the open media stream is discontinuous.
12. The electronic device according to claim 3, wherein the open media stream is selected in dependence on the age of the bookmark information.
13. The electronic device according to claim 1, wherein the new data contains other data from the same media stream or data from a second other media stream.
14. The electronic device according to claim 1 wherein identifying bookmark information and related time metrics information related to the open media stream stored on the electronic device so as to identify content within or related to the open media stream that is no longer required includes identifying content stored that precedes the bookmark position so that said content can be available for rendering to allow for continuity.

15. A non-transitory computer readable storage medium having computer readable code which when executed by a processor on an electronic device, causes the electronic device to:

identify a portion of an open media stream that is stored on the electronic device;

identify bookmark information and related time metrics information related to the open media stream stored on the electronic device so as to identify content within or related to the open media stream that is no longer required; and,

manage the memory so as to allow new data to be stored where the content that is no longer required was stored.

16. The non-transitory computer readable storage medium according to claim 15 wherein the open media stream includes bookmarked media stream and/or an active media stream.

17. The non-transitory computer readable storage medium according to claim 16 wherein the bookmark information includes a position determined in dependence upon a current position within the then active media stream.

18. The non-transitory computer readable storage medium according to claim 17 wherein the bookmark information includes more than one position in the media stream.

19. The non-transitory computer readable storage medium according to claim 17 wherein the bookmark information is created on the device or wherein the bookmark information is created on a second other device and transferred to the device.

20. The non-transitory computer readable storage medium according to claim 17, wherein the identified portion of the open media stream is selected in dependence upon the age of the bookmark information.

21. The non-transitory computer readable storage medium according to claim 15, wherein the time metrics information is stored in a descriptor.

22. The non-transitory computer readable storage medium according to claim 21, wherein the descriptor is external to the open media stream.

23. The non-transitory computer readable storage medium according to claim 21, wherein the content no longer required includes the descriptor.

24. The non-transitory computer readable storage medium according to claim 15 wherein the content no longer required includes related illustrations or related advertising or other related ancillary content, and wherein the related illustrations or the related advertising includes graphics, static images, moving images and/or other audio visual content, and wherein the other related ancillary content includes user comments.

25. The non-transitory computer readable storage medium according to claim 15, wherein the identified portion of the open media stream is discontinuous.

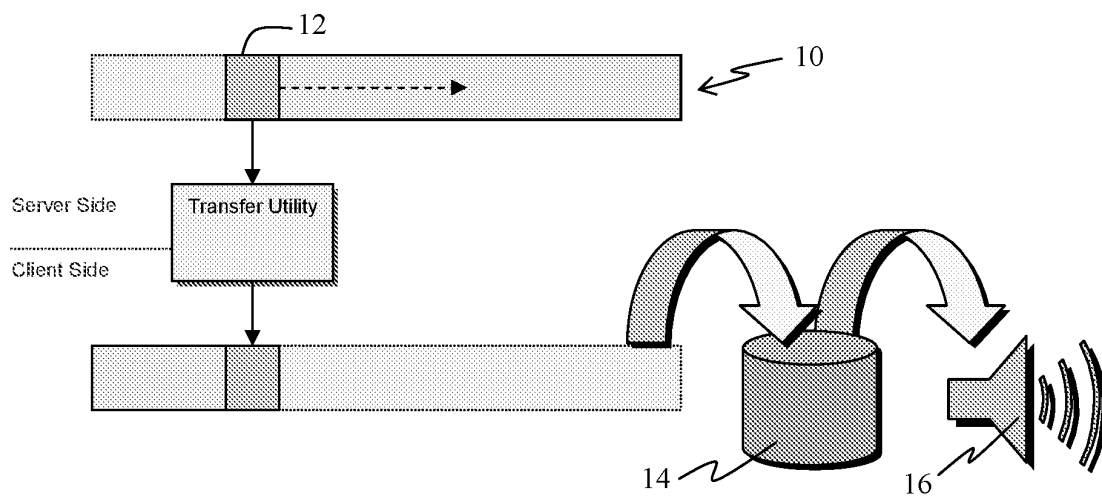
26. The non-transitory computer readable storage medium according to claim 17, wherein the open media stream is selected in dependence on the age of the bookmark information.

27. The non-transitory computer readable storage medium according to claim 15, wherein the new data contains other data from the same media stream or data from a second other media stream.

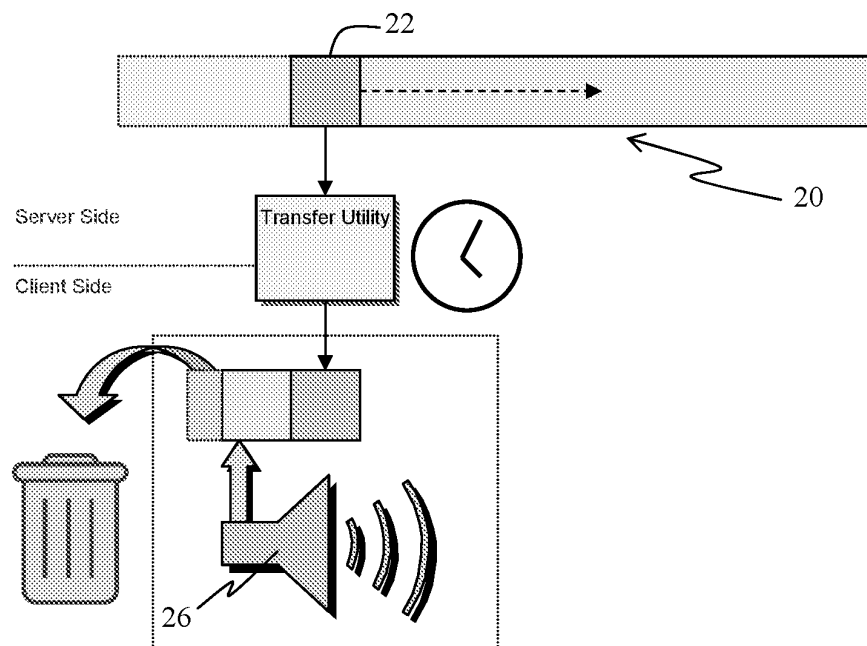
28. The non-transitory computer readable storage medium according to claim 15 wherein identifying bookmark information and related time metrics information related to the open media stream stored on the electronic device so as to identify content within or related to the open media stream that is no longer required includes identifying content stored that precedes the bookmark position so that said content can be available for rendering to allow for continuity.

ABSTRACT

A system, method and computer-readable code for the management of digital media on a device with memory and storage restrictions. As with any device, memory and storage is limited. With the ultimate goal of providing a user with a hands-off literary experience involving multiple media types, it is necessary to automate the clean-up of unneeded content that has previously been transferred to the device. Utilizing bookmark information that describes various positions in one or more media streams, time information that describes the various media streams and related content used to integrate various types of content for each media stream, content and storage can be managed such that the user never has to interact directly with stored content beyond the controls provided with a basic media player. The user still experiences a completely automated and seamless literary experience regardless of the number of open media streams, bookmarks and various related content the user has. The result is a fully automated context aware memory and content manager.



(Prior art)
Fig. 1



(Prior art)
Fig. 2

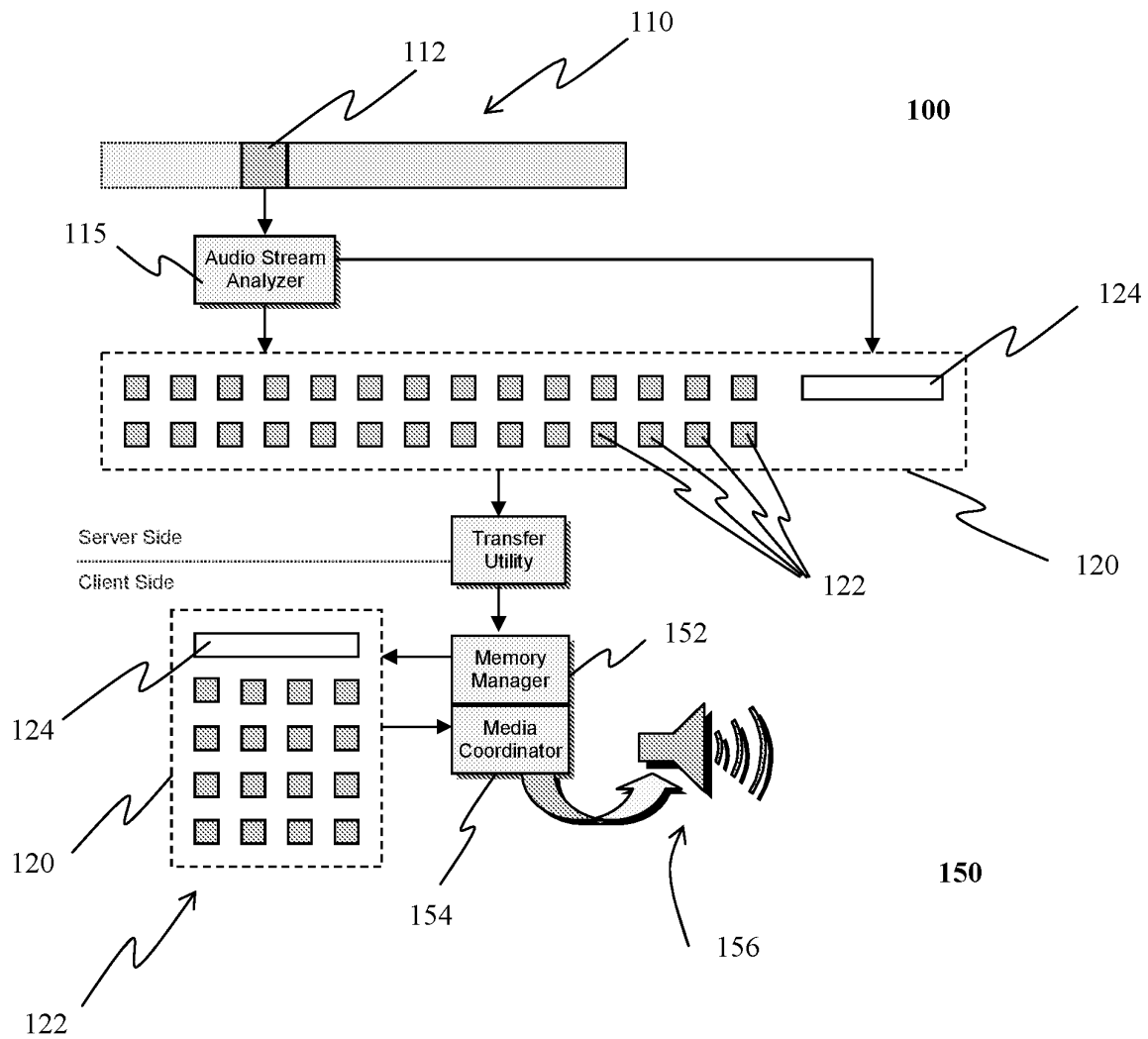


Fig. 3

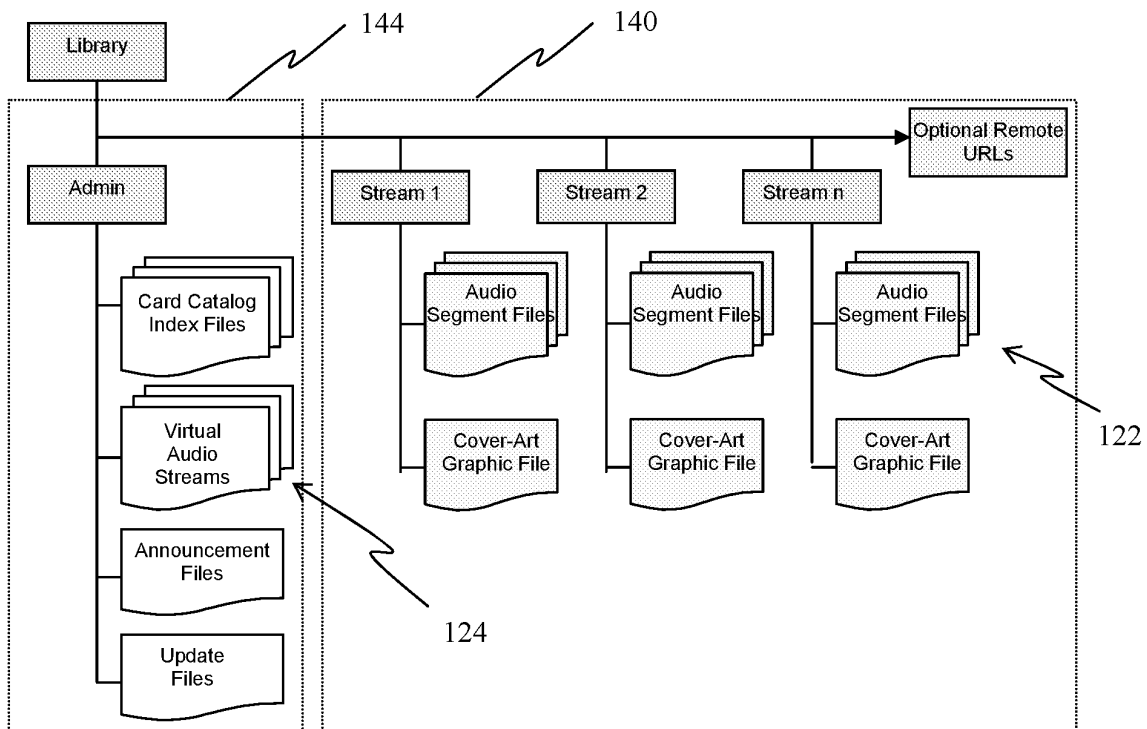


Fig. 4

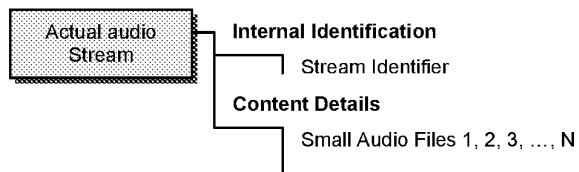


Fig. 5a

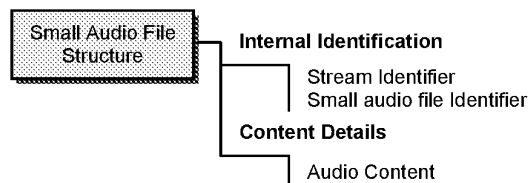


Fig. 5b

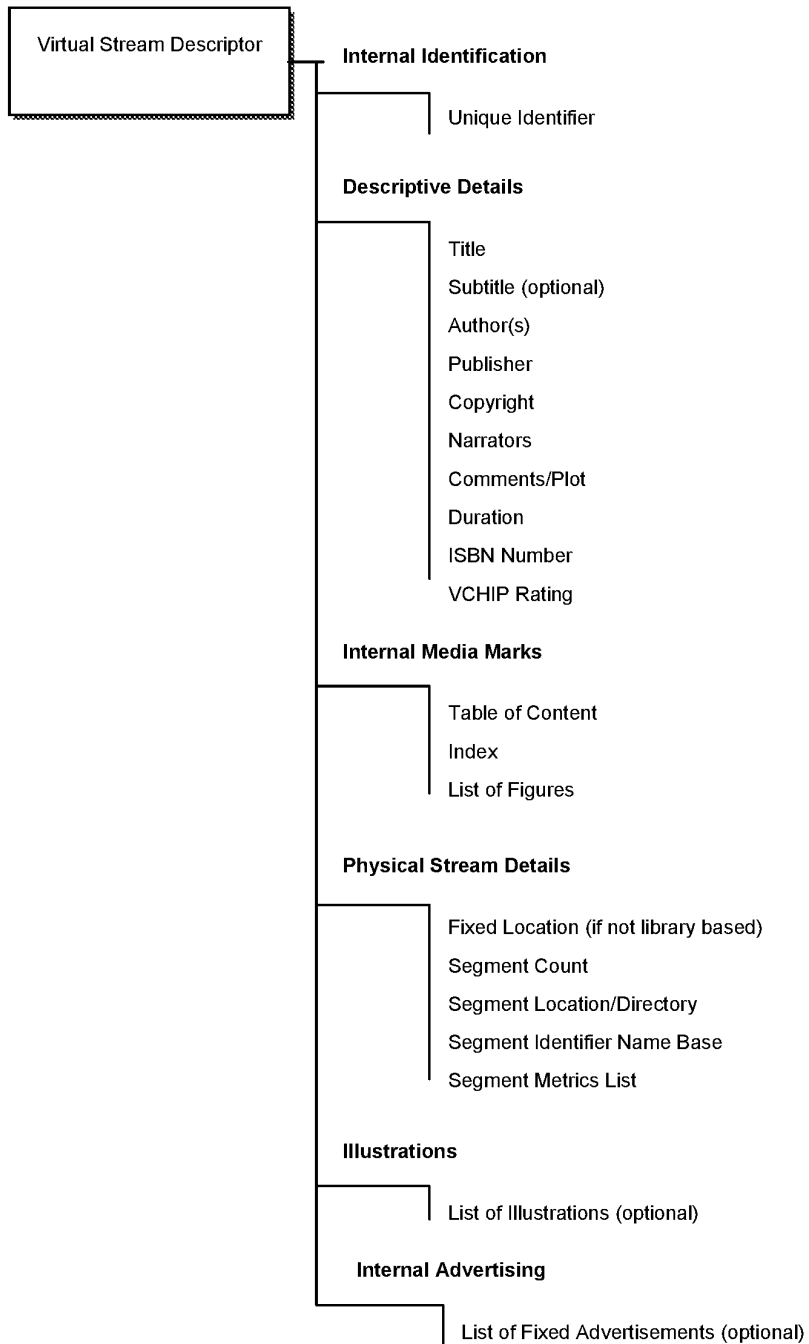


Fig. 5c

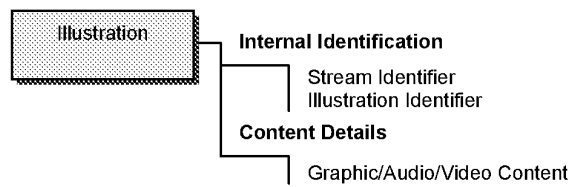


Fig. 5d

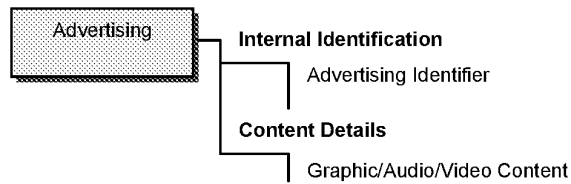


Fig. 5e

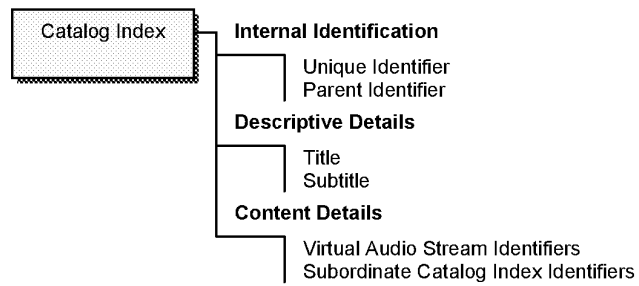


Fig. 5f

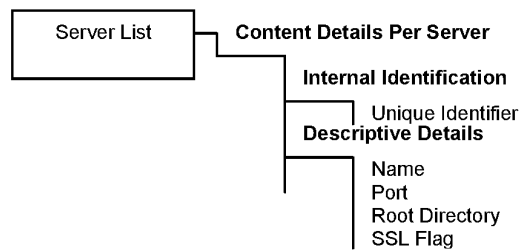


Fig. 5g

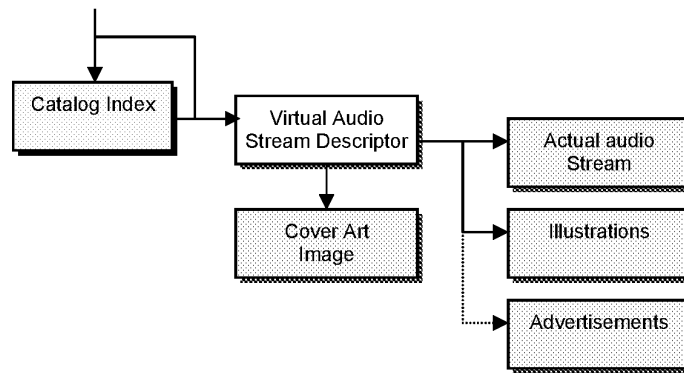


Fig. 6

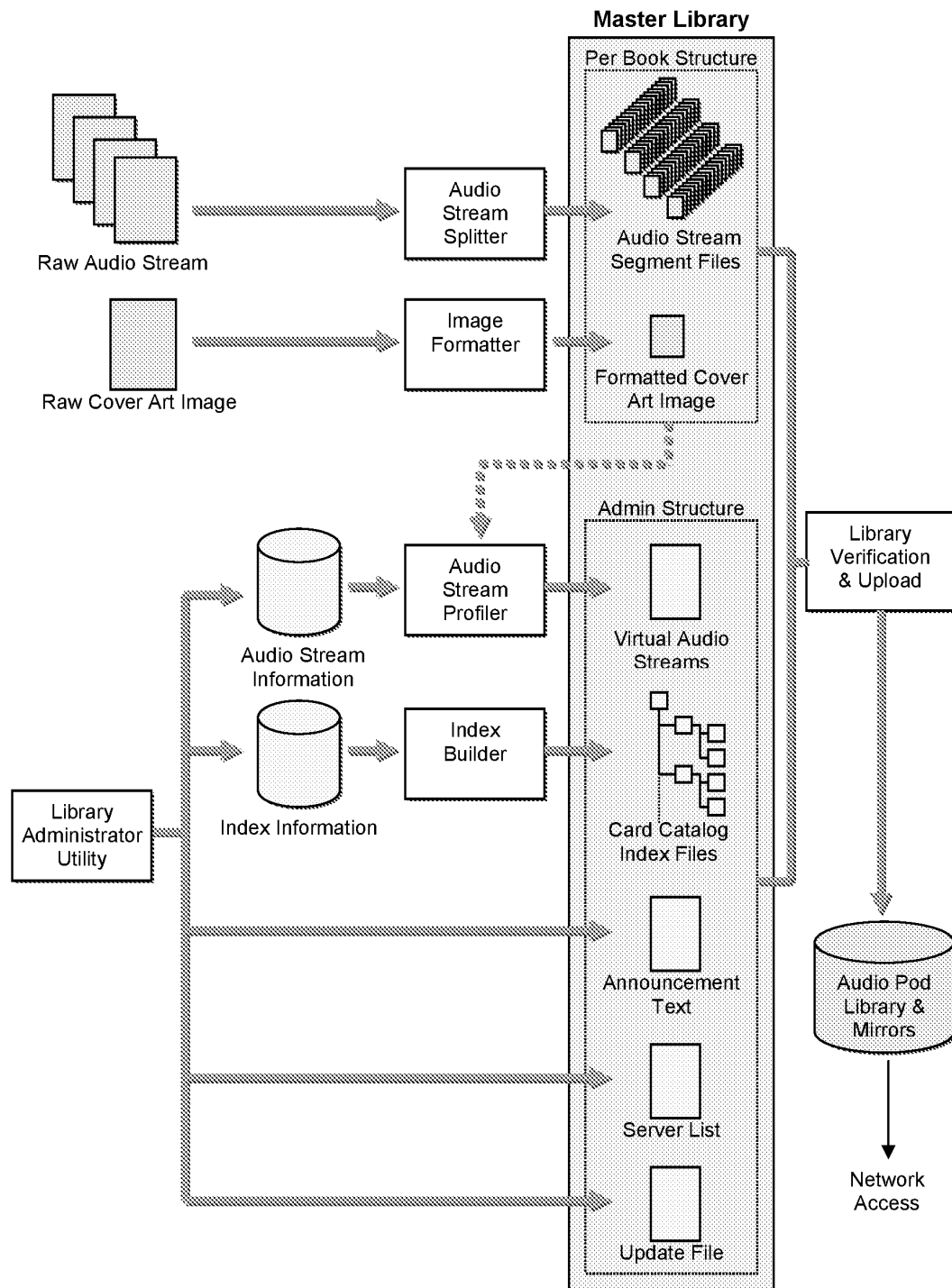


Fig. 7

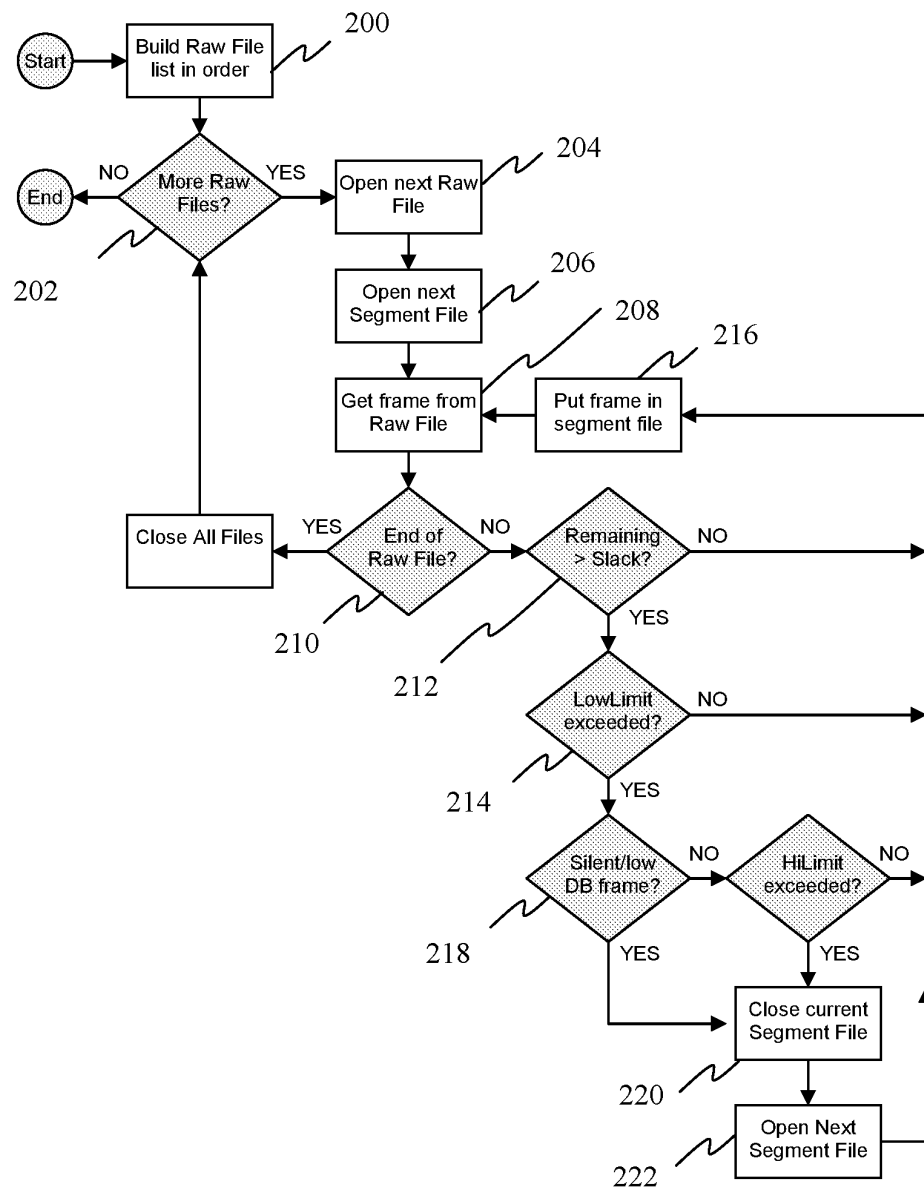


Fig. 8

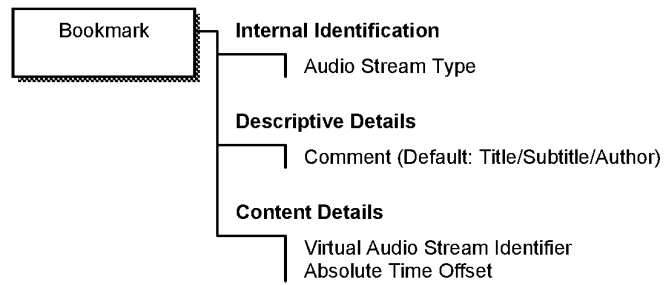


Fig. 9

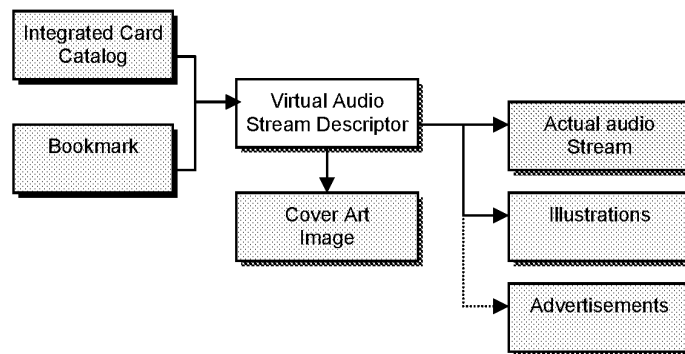


Fig. 10

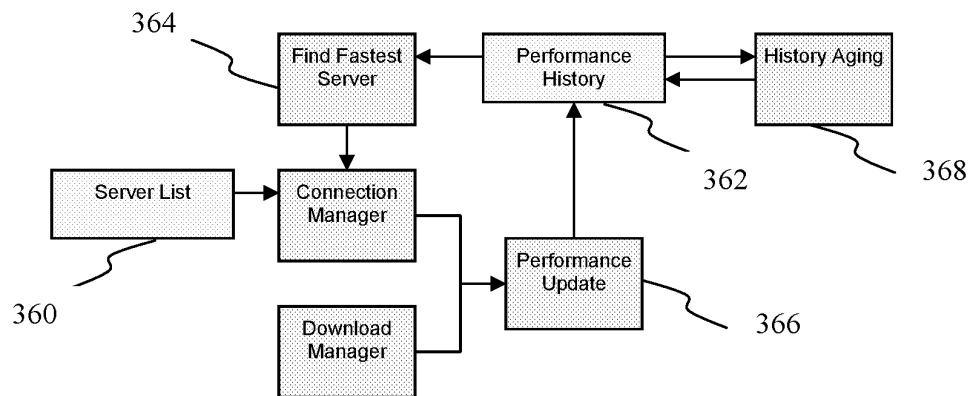


Fig. 11

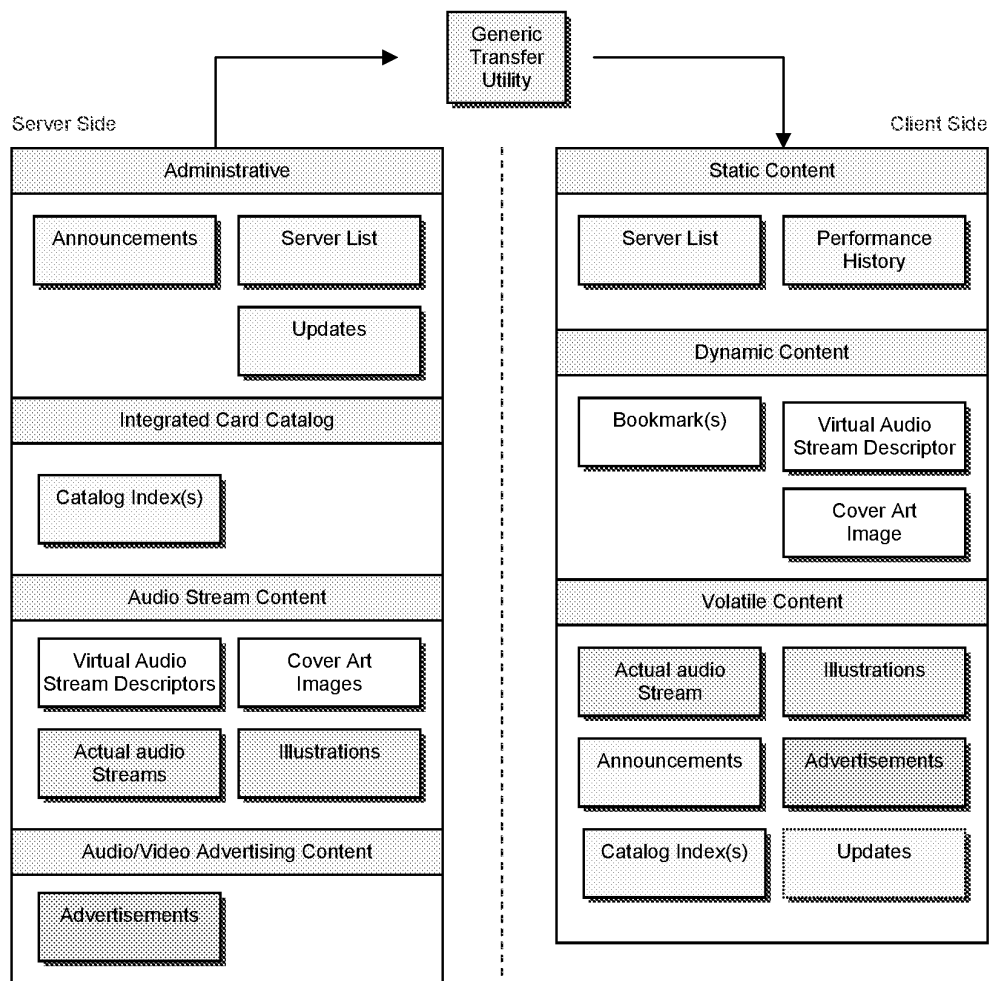


Fig. 12

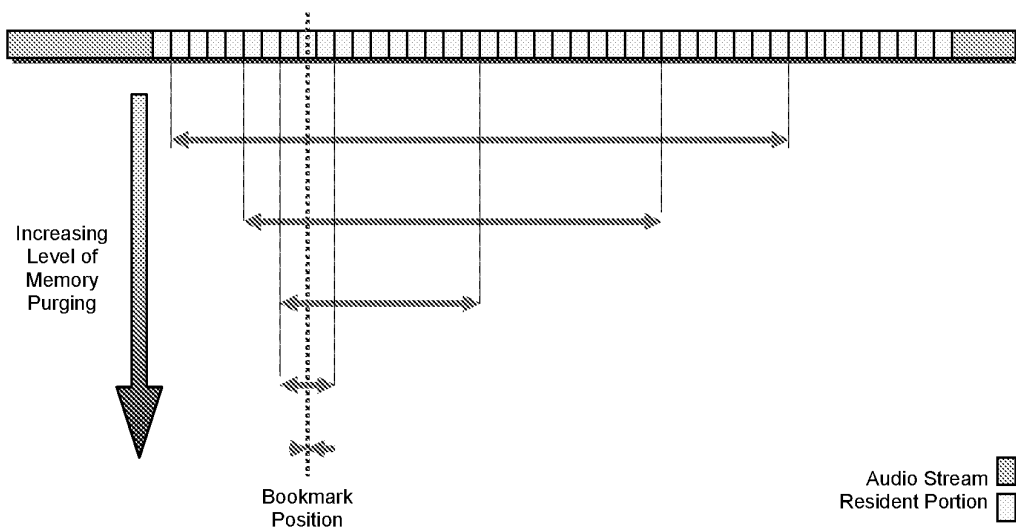


Fig. 13

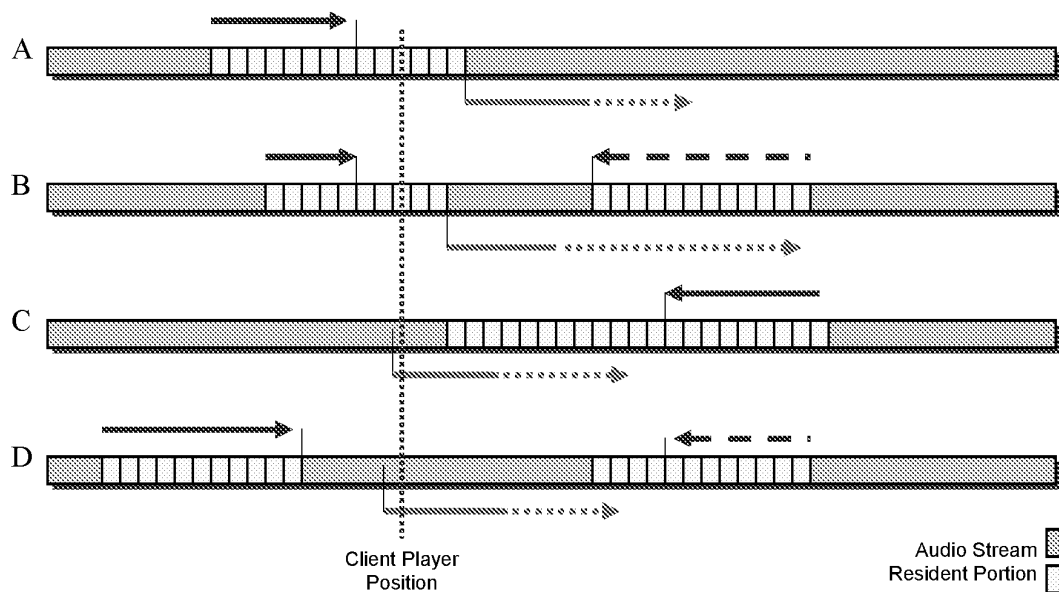


Fig. 14

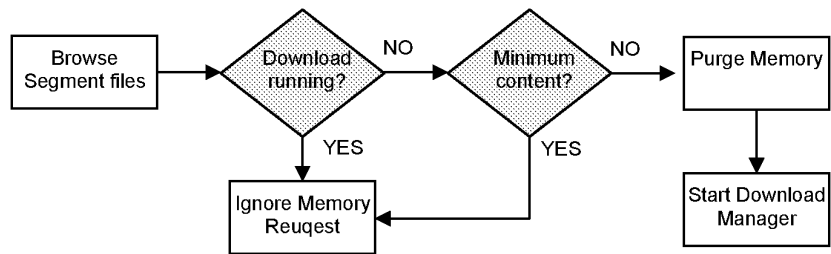


Fig. 15

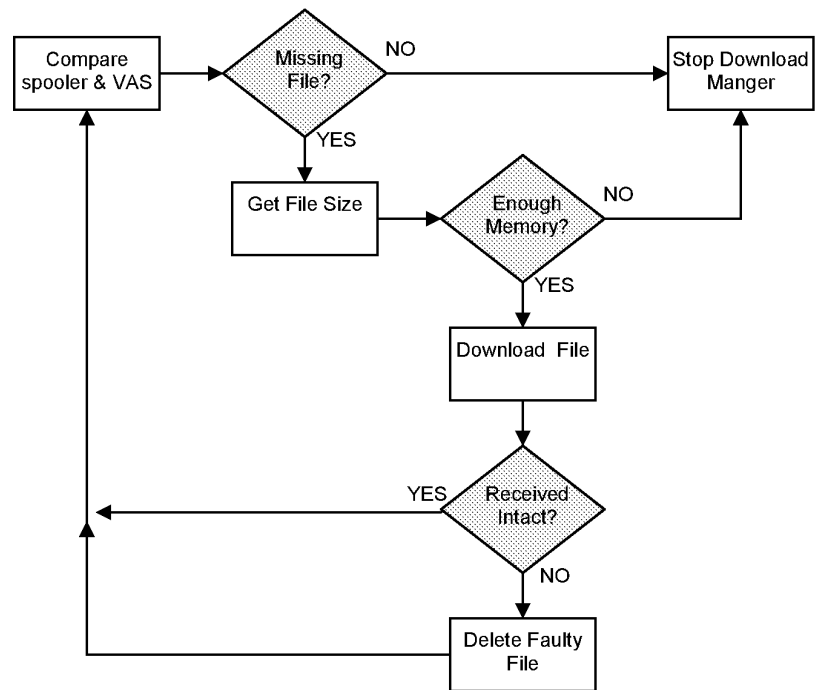


Fig. 16

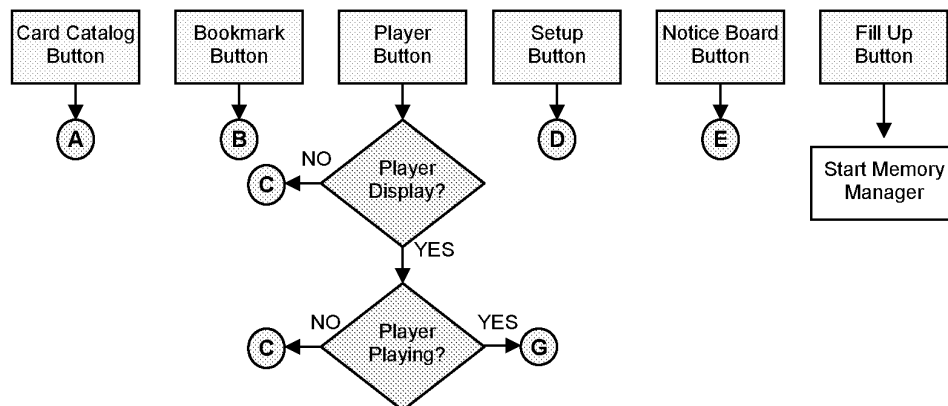
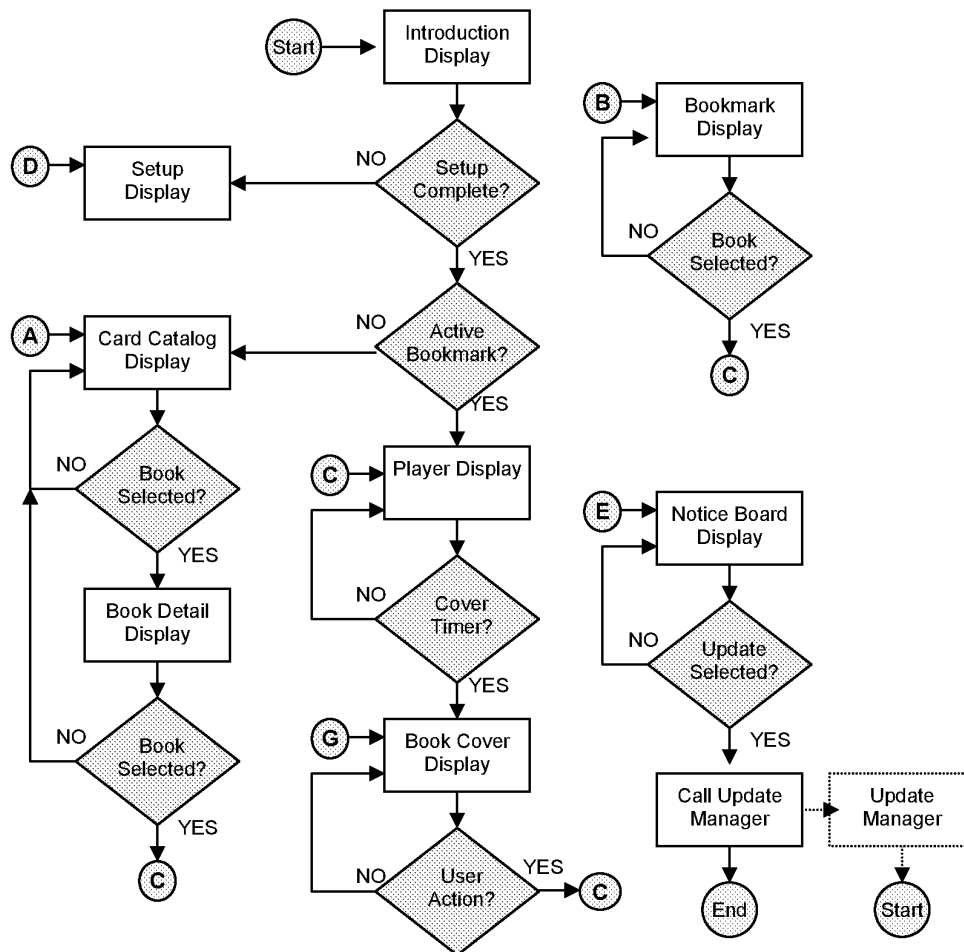


Fig. 17

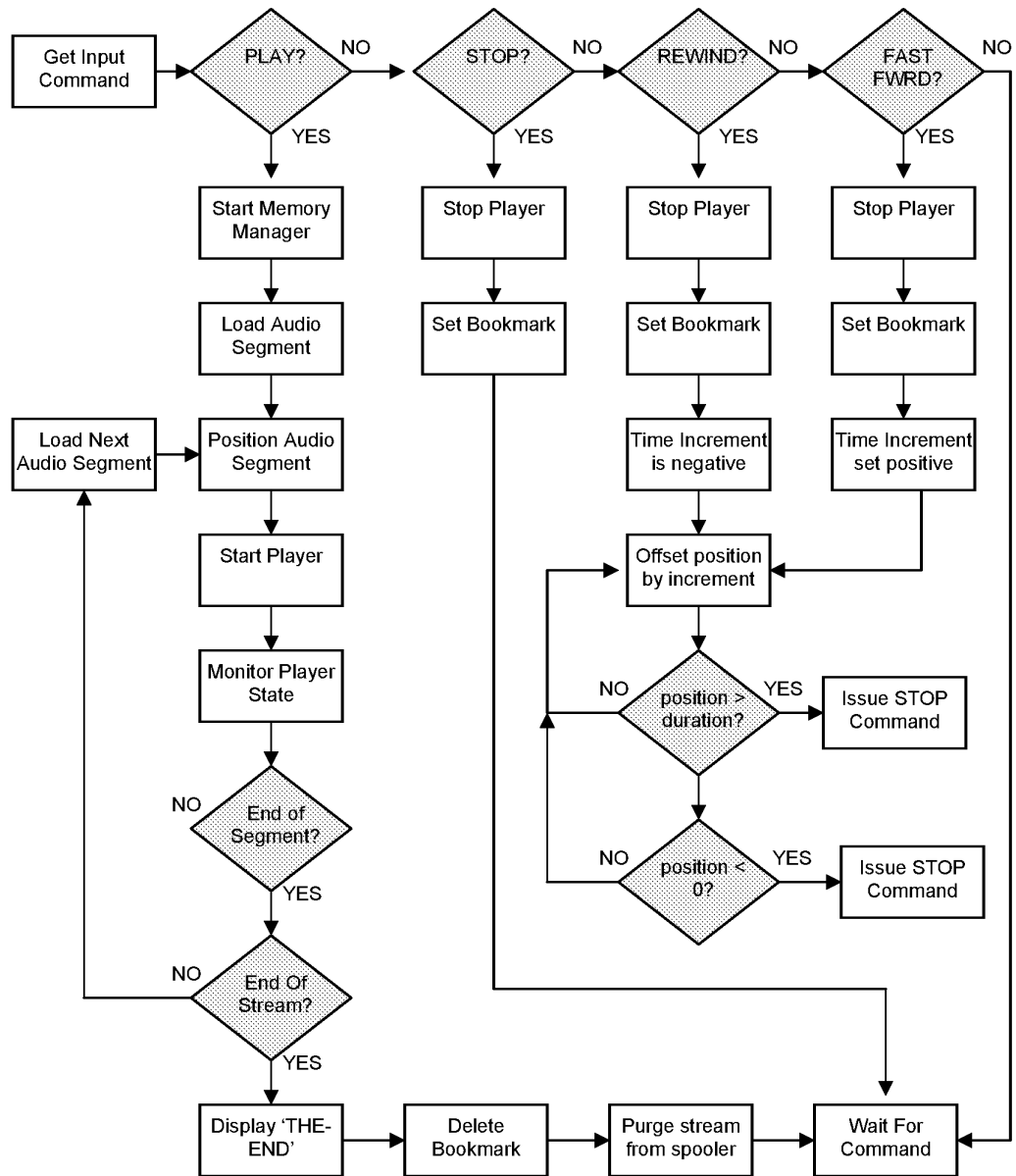


Fig. 18

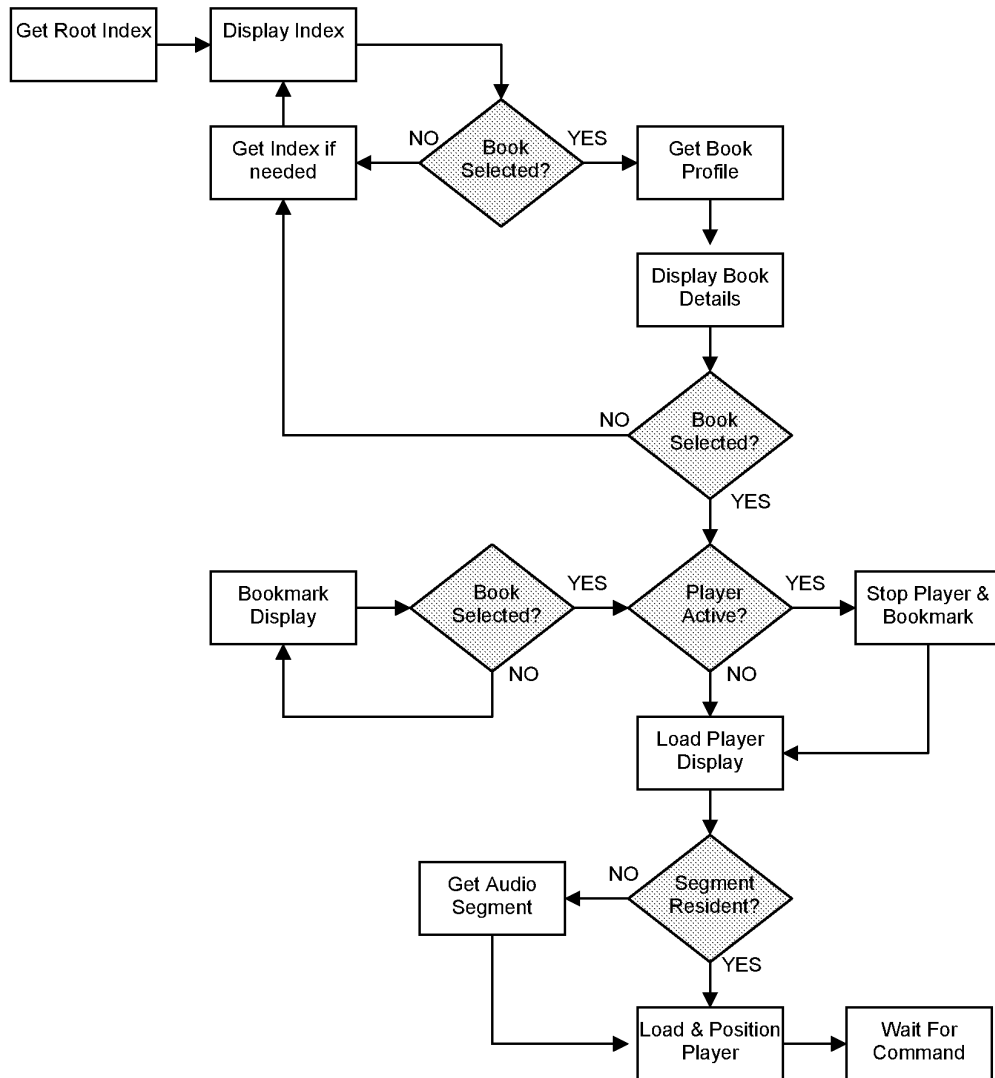


Fig. 19

SCORE Placeholder Sheet for IFW Content

Application Number: 15054756

Document Date: 02/26/2016

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

- Drawings – Other than Black and White Line Drawings

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

To access the documents in the SCORE database, refer to instructions below.

At the time of document entry (noted above):

- Examiners may access SCORE content via the eDAN interface.
- Other USPTO employees can bookmark the current SCORE URL (<http://Score.uspto.gov/ScoreAccessWeb/>).
- External customers may access SCORE content via the Public and Private PAIR interfaces.