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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/145,265	08/04/2020	10735488	141-1 US CON6	3815

24949 7590 07/15/2020
TEITELBAUM & BOUEVITCH
834 Colonel By Drive
Ottawa, ONTARIO 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 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

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

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

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

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

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

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PART B - FEE(S) TRANSMITTAL

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

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

By fax, send to: (571)-273-2885

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

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

24949 7590 03/25/2020
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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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/145,265	09/28/2018	John McCue	141-1 US CON6	3815

TITLE OF INVENTION: METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	06/25/2020

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 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(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 & Bouevitch

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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

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

Audio Pod Inc.

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. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

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

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature /Neil Teitelbaum/

Date June 25, 2020

Typed or printed name Neil Teitelbaum

Registration No. 38,793

Electronic Patent Application Fee Transmittal				
Application Number:		16145265		
Filing Date:		28-Sep-2018		
Title of Invention:		METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED		
First Named Inventor/Applicant Name:		John McCue		
Filer:		Neil Teitelbaum/Melanie Budarick		
Attorney Docket Number:		141-1 US CON6		
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	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				500

Electronic Acknowledgement Receipt

EFS ID:	39822390
Application Number:	16145265
International Application Number:	
Confirmation Number:	3815
Title of Invention:	METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED
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 CON6
Receipt Date:	25-JUN-2020
Filing Date:	28-SEP-2018
Time Stamp:	08:57:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 500
RAM confirmation Number	E202060957302521
Deposit Account	502810
Authorized User	Melanie Budarick

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

37 CFR 1.21 (Miscellaneous fees and charges)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.19 (Document supply fees)
 37 CFR 1.17 (Patent application and reexamination processing fees)
 37 CFR 1.16 (National application filing, search, and examination fees)

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)	141-1USCON6IssueFeeTransmittal.pdf	1111548	no	1
			43ea514174a1626b3726c5cdae00c30c7bc1642d		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30397	no	2
			d46261c8e71e1b1991b950168ac09d696d361403		

Warnings:

Information:

Total Files Size (in bytes):			1141945
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/145,265	09/28/2018	John McCue	141-1 US CON6	3815
24949 7590 05/22/2020 TEITELBAUM & BOUEVITCH 834 Colonel By Drive Ottawa, ONTARIO K1S 5C4 CANADA			EXAMINER BATURAY, ALICIA	
			ART UNIT 2441	PAPER NUMBER
			NOTIFICATION DATE 05/22/2020	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):

MELANIE@PATENTS.ORG

Corrected Notice of Allowability	Application No. 16/145,265	Applicant(s) McCue et al.	
	Examiner ALICIA BATURAY	Art Unit 2441	AIA (FITF) Status No

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

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

1. ☒ This communication is responsive to the printer query filed on 12 May 2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-8, 10-18 and 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) 2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date ____. 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material ____. 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	5. ☐ Examiner's Amendment/Comment 6. ☐ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
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/ALICIA BATURAY/
 Primary Examiner, Art Unit 2441

Notice of References Cited	Application/Control No. 16/145,265		Applicant(s)/Patent Under Reexamination McCue et al.	
	Examiner ALICIA BATURAY		Art Unit 2441	Page 1 of 7

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-5533182-A	07-1996	Bates; Cary L.	G06F3/04812	715/727
*	B	US-5724475-A	03-1998	Kirsten; Jeff P.	G08B13/19645	348/E7.086
*	C	US-6108637-A	08-2000	Blumenau; Trevor	H04L43/08	715/204
*	D	US-6452609-B1	09-2002	Katinsky; Steve	H04L67/02	715/716
*	E	US-6542869-B1	04-2003	Foote; Jonathan	G10H1/00	704/500
*	F	US-6697564-B1	02-2004	Toklu; Candemir	H04N21/4394	386/285
*	G	US-6810409-B1	10-2004	Fry; Michael	H04L29/06	709/202
*	H	US-6816834-B2	11-2004	Jaroker; Jon	G10L15/26	704/235
*	I	US-6816909-B1	11-2004	Chang; Subrina Sih-Pin	H04L65/604	709/217
*	J	US-6850982-B1	02-2005	Siegel; Kenneth P.	H04L67/1002	709/203
*	K	US-6868225-B1	03-2005	Brown; David Avraham	G11B27/28	386/239
*	L	US-6961751-B1	11-2005	Bates; Cary Lee	G06F16/9562	709/203
*	M	US-6988169-B2	01-2006	Burger; Eric W.	G06F12/0862	711/137

FOREIGN PATENT DOCUMENTS

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	N					
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	P					
	Q					
	R					
	S					
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Notice of References Cited</i>	Application/Control No. 16/145,265		Applicant(s)/Patent Under Reexamination McCue et al.	
	Examiner ALICIA BATURAY		Art Unit 2441	Page 2 of 7

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7143353-B2	11-2006	McGee; Thomas	G11B27/105	715/723
*	B	US-7242809-B2	07-2007	Hunter; Kurt M.	G06K9/00711	375/240.16
*	C	US-7248777-B2	07-2007	Feininger; William A.	H04N5/76	386/241
*	D	US-7293094-B2	11-2007	Vaman; Dhadesugoor R.	H04L47/10	370/353
*	E	US-7379875-B2	05-2008	Burges; Christopher J. C.	G06K9/00523	704/273
*	F	US-7386473-B2	06-2008	Blumenau; Trevor	G06Q30/0633	705/14.54
*	G	US-7394817-B2	07-2008	Yap; Sim Thong	H04L67/1059	370/400
*	H	US-7421411-B2	09-2008	Kontio; Markku	G06F21/10	705/52
*	I	US-7466898-B2	12-2008	Ohashi; Takeshi	H04N7/163	386/241
*	J	US-7519717-B2	04-2009	Stanford-Clark; Andrew J	H04L29/06027	709/227
*	K	US-7539086-B2	05-2009	Jaroker; Jon	G06Q50/18	369/25.01
*	L	US-7546118-B2	06-2009	Camp, Jr.; William O.	H04L29/06027	455/418
*	M	US-7610394-B2	10-2009	Katinsky; Steve	H04L67/02	709/231

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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Notice of References Cited</i>	Application/Control No. 16/145,265		Applicant(s)/Patent Under Reexamination McCue et al.	
	Examiner ALICIA BATURAY		Art Unit 2441	Page 3 of 7

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7624337-B2	11-2009	Sull; Sanghoon	G06T3/4092	715/201
*	B	US-7631098-B2	12-2009	Boutboul; Irwin	H04L67/10	709/238
*	C	US-7680849-B2	03-2010	Heller; David	G06F16/258	707/621
*	D	US-7686215-B2	03-2010	Jones; Anne	H04L67/06	235/380
*	E	US-7730407-B2	06-2010	Chiu; Patrick	G11B27/105	715/732
*	F	US-7788671-B2	08-2010	Black-Ziegelbein; Elizabeth A.	G06F9/5061	709/220
*	G	US-7797446-B2	09-2010	Heller; David	G11B27/002	707/E17.109
*	H	US-7852748-B2	12-2010	Le Faucheur; Francois	H04L45/22	370/217
*	I	US-7882140-B1	02-2011	DiLorenzo; Mark	G06Q30/02	707/802
*	J	US-7899915-B2	03-2011	Reisman; Richard	G06F16/954	709/228
*	K	US-7958441-B2	06-2011	Heller; David	G11B27/105	715/201
*	L	US-7966577-B2	06-2011	Chaudhri; Imran	G06F3/0482	715/835
*	M	US-7987491-B2	07-2011	Reisman; Richard	G06F16/954	725/112

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	Examiner ALICIA BATURAY		Art Unit 2441	Page 4 of 7

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7996550-B2	08-2011	Fischer; Donald	H04L67/104	370/230
*	B	US-8009961-B2	08-2011	Watanabe; Katsuhiko	G11B27/34	386/243
*	C	US-8191103-B2	05-2012	Hofrichter; Klaus	G11B27/034	725/142
*	D	US-8225194-B2	07-2012	Rechsteiner; Paul	G11B27/034	707/805
*	E	US-8285809-B2	10-2012	McCue; John	G10L25/78	709/217
*	F	US-8363084-B2	01-2013	Cockerton; Craig George	G11B27/034	348/14.01
*	G	US-8370888-B2	02-2013	Zimmermann; Roger	H04N21/2187	709/226
*	H	US-8392528-B2	03-2013	Kreitzer; Stuart S.	H04L29/06027	709/217
*	I	US-8738740-B2	05-2014	McCue; John	G10L25/78	709/219
*	J	US-9203884-B2	12-2015	McCue; John	G10L25/78	1/1
*	K	US-9319720-B2	04-2016	McCue; John	H04N21/235	1/1
*	L	US-9412417-B2	08-2016	Jobs; Steven P.	G11B27/031	1/1
*	M	US-9596170-B2	03-2017	Johns; Kevin Christopher	H04L45/22	1/1

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	Examiner ALICIA BATURAY		Art Unit 2441	Page 5 of 7

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-9729907-B2	08-2017	McCue; John	H04N21/235	1/1
*	B	US-9930089-B2	03-2018	McCue; John	G10L25/78	1/1
*	C	US-9954922-B2	04-2018	McCue; John	G10L25/78	1/1
*	D	US-10091266-B2	10-2018	McCue; John	G10L25/78	1/1
*	E	US-10097451-B2	10-2018	Johns; Kevin Christopher	H04L45/22	1/1
*	F	US-10237595-B2	03-2019	McCue; John	H04N21/235	1/1
*	G	US-20020065922-A1	05-2002	Shastri, Vijnan	H04L65/80	709/227
*	H	US-20020129162-A1	09-2002	McGregor, Gregory M.	H04L67/306	709/238
*	I	US-20030046348-A1	03-2003	Pinto, Albert Gregory	G06Q10/107	709/206
*	J	US-20030046384-A1	03-2003	Sirivara, Sudheer	H04L41/5006	709/224
*	K	US-20030079222-A1	04-2003	Boykin, Patrick Oscar	H04N21/235	725/31
*	L	US-20030221194-A1	11-2003	Thiagarajan, Balaji	H04N5/76	725/55
*	M	US-20040169683-A1	09-2004	Chiu, Patrick	G06F16/40	715/776

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*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.

<i>Notice of References Cited</i>	Application/Control No. 16/145,265		Applicant(s)/Patent Under Reexamination McCue et al.	
	Examiner ALICIA BATURAY		Art Unit 2441	Page 6 of 7

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20040172365-A1	09-2004	Murakami, Kaori	G06Q30/04	705/52
*	B	US-20040249768-A1	12-2004	Kontio, Markku	G06Q20/3674	705/65
*	C	US-20050144305-A1	06-2005	Fegan, Michael P. II	H04L65/602	709/231
*	D	US-20050171763-A1	08-2005	Zhou, Jin Feng	G11B20/10527	704/201
*	E	US-20050177618-A1	08-2005	Zimler, Randy	H04N21/8549	709/203
*	F	US-20050250439-A1	11-2005	Leslie, Garthen	H04W4/06	455/11.1
*	G	US-20060015914-A1	01-2006	Lee; Jung-won	H04N5/76	725/101
*	H	US-20060140162-A1	06-2006	Vasa; Yojak	H04L51/38	370/338
*	I	US-20060265409-A1	11-2006	Neumann; David Lawrence	G06F16/44	1/1
*	J	US-20060265637-A1	11-2006	Marriott; Greg	G06F16/9535	715/210
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*	L	US-20070041356-A1	02-2007	Fontijn; Wilhelmus Franciscus Johannes	G11B27/329	370/352
*	M	US-20070083911-A1	04-2007	Madden; Thomas	H04N5/85	725/135

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.

<i>Notice of References Cited</i>	Application/Control No. 16/145,265		Applicant(s)/Patent Under Reexamination McCue et al.	
	Examiner ALICIA BATURAY		Art Unit 2441	Page 7 of 7

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20070094691-A1	04-2007	Gazdzinski; Robert F.	H04N21/4126	725/62
*	B	US-20070100833-A1	05-2007	Chen; Xin	G06F16/9562	1/1
*	C	US-20070106675-A1	05-2007	Watanabe; Katsuhiko	G11B27/34	1/1
*	D	US-20070118657-A1	05-2007	Kreitzer; Stuart S.	G06F16/48	709/227
*	E	US-20070124331-A1	05-2007	Griffin; Jeffrey Jason	G11B27/322	1/1
*	F	US-20100174717-A1	07-2010	Fambon; Olivier	G06F9/548	707/741
	G					
	H					
	I					
	J					
	K					
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FOREIGN PATENT DOCUMENTS

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

<i>Search Notes</i> 	Application/Control No. 16/145,265	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	07/15/2019	AB
709	219	12/09/2019	AB
709	219	03/16/2020	AB
709	219	05/13/2020	AB

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

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<i>Search Notes</i> 	Application/Control No. 16/145,265	Applicant(s)/Patent Under Reexamination McCue et al.
	Examiner ALICIA BATURAY	Art Unit 2441

Search Notes		
Search Notes	Date	Examiner
Reviewed parent cases	07/15/2019	AB
Searched EAST (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	07/15/2019	AB
Conducted Inventor Name Search	07/15/2019	AB
Conducted Class/Subclass Search	07/15/2019	AB
Updated EAST Search (US-PGPUB, USPAT, EPO, JPO, DERWENT , IBM_TDB)	12/09/2019	AB
Updated Inventor Name Search	12/09/2019	AB
Updated Class/Subclass Search	12/09/2019	AB
Conducted Interference Search	12/09/2019	AB
Updated EAST Search (US-PGPUB, USPAT, EPO, JPO, DERWENT , IBM_TDB)	03/16/2020	AB
Updated Inventor Name Search	03/16/2020	AB
Updated Class/Subclass Search	03/16/2020	AB
Updated Interference Search	03/16/2020	AB
Updated EAST Search (US-PGPUB, USPAT, EPO, JPO, DERWENT , IBM_TDB)	05/13/2020	AB
Updated Inventor Name Search	05/13/2020	AB
Updated Class/Subclass Search	05/13/2020	AB
Updated Interference Search	05/13/2020	AB

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
PG-PUB	See Search History	03/16/2020	AB
PG-PUB	See Search History	05/13/2020	AB

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Issue Classification 	Application/Control No. 16/145,265	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	/	608	I	2013-01-01
H04L	/	65	/	602	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
	/		/		

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/ALICIA BATURAY/ Primary Examiner, Art Unit 2441	13 May 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	13

Issue Classification 	Application/Control No. 16/145,265	Applicant(s)/Patent Under Reexamination McCue et al.
	Examiner ALICIA BATURAY	Art Unit 2441

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F		15	16
NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
709	219

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/ALICIA BATURAY/ Primary Examiner, Art Unit 2441	13 May 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	13

Issue Classification 	Application/Control No. 16/145,265	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															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	9	10		19										
2	2	10	11	18	20										
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6	6	14	15												
7	7	15	16												
8	8	16	17												
	9	17	18												

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/ALICIA BATURAY/ Primary Examiner, Art Unit 2441	13 May 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	13

<i>Index of Claims</i> 	Application/Control No. 16/145,265	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										
☐ Claims renumbered in the same order as presented by applicant						☐ CPA		☐ T.D.		☐ R.1.47
CLAIM		DATE								
Final	Original	07/15/2019	12/09/2019	03/16/2020	05/13/2020					
1	1	✓	✓	=	=					
2	2	✓	✓	=	=					
3	3	✓	✓	=	=					
4	4	✓	✓	=	=					
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18	20	✓	✓	=	=					
	21		○	=	=					
	22		○	=	=					

Bibliographic Data

Application No: 16/145,265

Foreign Priority claimed: ☐ Yes ☒ No

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

☐ Met After Allowance

Verified and Acknowledged: /ALICIA BATURAY/

Examiner's Signature

Initials

Title:

METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/28/2018	709	2441	
RULE			

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 15358354 11/22/2016 PAT 10091266

15358354 is a CON of 15054756 02/26/2016 PAT 9954922

15054756 is a CON of 14924028 10/27/2015 PAT 9930089

14924028 is a DIV of 14250591 04/11/2014 PAT 9203884

14250591 is a CON of 13588084 08/17/2012 PAT 8738740

13588084 is a CON of 12096933 06/11/2008 PAT 8285809

12096933 is a 371 of PCT/CA2006/002046 12/12/2006

PCT/CA2006/002046 has PRO of 60749632 12/13/2005

FOREIGN APPLICATIONS

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\$785

Form PTO 1449A U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	ATTY. DOCKET NUMBER: 141-1 US CON6	SERIAL NUMBER: New Application
	APPLICANT: McCue et al.	
	FILING DATE: Herewith	GROUP: ~~New Application~~ 2441

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILE APP
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		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	
		7,624,337	Nov 24, 2009	Sull	715	201	
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		7,984,147	Jul 19, 2011	Daoud et al	709	226	
		8,392,528	Mar 5, 2013	Kreitzer et al.	709	218	
		20020069218	Jun 6, 2002	Sull et al	715	202	
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		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	
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		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	
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/ALICIA BATURAY/

05/13/2020

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		20070067267	Mar 22, 2007	Ives	1	1	
		20070083354	Apr 12, 2007	Collins et al	703	23	
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		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
		"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	/ALICIA BATURAY/	DATE CONSIDERED 05/13/2020
<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>		

EAST Search History

EAST Search History (Prior Art)

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L6	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/13 12:08
L7	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/13 12:08
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S7	496	McCue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:04
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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;	OR	ON	2010/01/27 15:59

			DERWENT; 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	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2010/01/27 16:13

		audio same server same (choice or choose or choosing))	DERWENT; IBM_TDB			
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; 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;	OR	ON	2010/07/21 11:22

			DERWENT; IBM_TDB			
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	McCue.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	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2012/06/18 14:27

			DERWENT; 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	McCue.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;	OR	ON	2017/06/07 08:21

			DERWENT; IBM_TDB			
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 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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:22

		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;	OR	ON	2017/06/07 09:23

			DERWENT; IBM_TDB			
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 (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
S94	1	"20170078357".pn.	US-PGPUB	OR	ON	2017/07/17 07:53
S95	58	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 11:58
S96	72	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 11:58

S97	0	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) same ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:14
S98	3	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) and ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:15
S99	11	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) and sync\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:16
S100	1	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) same premium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:23
S101	56	@ad<"20051213" and ((secondary adj content) same (primary adj content) and sync\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:23
S102	6	@ad<"20051213" and ((secondary adj content) same (primary adj content) and ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:52
S103	23	@ad<"20051213" and ((secondary adj content) same (primary adj content) and ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:53
S104	198	@ad<"20051213" and ((ancillary or metadata or (meta adj data) or	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2017/12/11 14:59

		advertisements or advertising or ads) same (primary adj content))	DERWENT; IBM_TDB			
S105	0	@ad<"20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) same ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S106	16	@ad<"20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) and ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S107	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S108	16	@ad<"20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) and ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S109	25	("5586264", "6621980", "20020184189", "20030091338", "20030172346", "20050061873", "20050091062", "20050111824", "20050250439", "20060236219", "20060242550", "20060271989").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S110	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S111	3	("9930089", "9954922", "10091266").pn.	USPAT	OR	ON	2019/07/15 07:47
S112	1	"20190044993".pn.	US-PGPUB	OR	ON	2019/07/15 07:47

S113	27681	(download\$3 same server same list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S114	432	(client adj download\$3 same server same list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S115	114	(client adj download\$3 same server same list same content)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S116	14	(client adj download\$3 same server same list same content same (peer-to-peer or P2P (peer adj peer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:36
S117	1	"7984147".pn.	USPAT	OR	ON	2019/07/15 15:27
S118	26	("20010011306" "20030039210" "6006264" "6366581" "6377548" "6389448" "6446722" "6449647" "6452915" "6483805" "6487170" "6578068" "6584444" "6654363" "6779017" "6871233" "6985436").PN. OR ("7984147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 15:27
S119	252011	((service adj level adj agreement) or SLA or (quality adj service) or QoS)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:33
S120	1	"6728748".pn.	USPAT	OR	ON	2019/07/15 15:35
S121	2	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2019/07/15 15:39

			DERWENT; IBM_TDB			
S122	994	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same ((failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:39
S123	88	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj ((failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:40
S124	15	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (affinity or sticky or stickiness)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:43
S125	129	(graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:46
S126	0	((content adj delivery adj network) or CDN) same (graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:48
S127	32	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (affinity or sticky or stickiness) same fail\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:50
S128	16167	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:51
S129	1503	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (degrad\$9 or slow\$5)	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2019/07/15 15:52

			DERWENT; IBM_TDB			
S130	0	(McCue.in. or Shostakovsky.in.) same (segment adj digital adj content)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:53
S131	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:53
S132	22	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:54
S133	2997	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (P2P or peer-to-peer or ("peer to peer"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:57
S134	73	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (P2P or peer-to-peer or ("peer to peer"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:58
S135	0	(P2P or peer-to-peer or ("peer to peer")) adj (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:06
S136	9	((content adj delivery adj network) or CDN) same (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:06
S137	16	("20050021694" "20060291504" "20080151746" "20110055316" "20110082924" "20110314130" "20120233228" "20130198328"	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 16:07

		"20140074961" "20140089465" "20140215018" "20150381678" "6654361" "8495675" "8532070" "8959067").PN.				
S138	585	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5) same segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:09
S139	4	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5) adj segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:10
S140	25	connection same (degrad\$9 or slow\$5) adj segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:13
S141	67	connection adj (degrad\$9 or slow\$5) same segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:13
S142	0	audio-pod.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:32
S143	57063	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:33
S144	10739	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same switch\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:36

S145	30	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same switch\$3 adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:37
S146	27	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same chang\$3 adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:55
S147	214	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S148	0	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (new adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S149	125	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same ((new or different) adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S150	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:47
S151	46379	(book and mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:48
S152	8526	S151 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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:48

		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 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.)				
S153	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:48

S154	8	("20050114296" "20060129695" "20070180335" "20080071859" "6144996" "6330602" "6801911" "7219153").PN. OR ("7769822").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/12/09 09:56
S155	1	"20190044993".pn.	US-PGPUB	OR	ON	2019/12/09 11:21
S156	47499	(book and mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 10:03
S157	7481	S156 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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 10:03

		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.)				
S158	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 10:03
S159	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 10:03

5/13/2020 12:10:21 PM

**C:\Users\abaturay\Alicia's Documents\EAST Searches\16145265-
NaturalLanguageAudioGapsAudioOnDemandCON6.wsp**



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United States Patent and Trademark Office
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NOTICE OF ALLOWANCE AND FEE(S) DUE

24949 7590 03/25/2020
TEITELBAUM & BOUEVITCH
834 Colonel By Drive
Ottawa, ONTARIO K1S 5C4
CANADA

EXAMINER

BATURAY, ALICIA

ART UNIT

PAPER NUMBER

2441

DATE MAILED: 03/25/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/145,265	09/28/2018	John McCue	141-1 US CON6	3815

TITLE OF INVENTION: METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	06/25/2020

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

By fax, send to: (571)-273-2885

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

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

24949 7590 03/25/2020
TEITELBAUM & BOUEVITCH
834 Colonel By Drive
Ottawa, ONTARIO 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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/145,265	09/28/2018	John McCue	141-1 US CON6	3815

TITLE OF INVENTION: METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	06/25/2020

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 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

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

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

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

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

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/145,265	09/28/2018	John McCue	141-1 US CON6	3815
24949	7590	03/25/2020	EXAMINER	
TEITELBAUM & BOUEVITCH 834 Colonel By Drive Ottawa, ONTARIO K1S 5C4 CANADA			BATURAY, ALICIA	
			ART UNIT	PAPER NUMBER
			2441	
DATE MAILED: 03/25/2020				

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/145,265	Applicant(s) McCue et al.	
	Examiner ALICIA BATURAY	Art Unit 2441	AIA (FITF) Status No

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

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

1. ☒ This communication is responsive to the amendments filed 11 March 2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-8, 10-18 and 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)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/ALICIA BATURAY/ Primary Examiner, Art Unit 2441	
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<i>Notice of References Cited</i>	Application/Control No. 16/145,265		Applicant(s)/Patent Under Reexamination McCue et al.	
	Examiner ALICIA BATURAY		Art Unit 2441	Page 1 of 7

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-5533182-A	07-1996	Bates; Cary L.	G06F3/04812	715/727
*	B	US-5724475-A	03-1998	Kirsten; Jeff P.	G08B13/19645	348/E7.086
*	C	US-6108637-A	08-2000	Blumenau; Trevor	H04L43/08	715/204
*	D	US-6452609-B1	09-2002	Katinsky; Steve	H04L67/02	715/716
*	E	US-6542869-B1	04-2003	Foote; Jonathan	G10H1/00	704/500
*	F	US-6697564-B1	02-2004	Toklu; Candemir	H04N21/4394	386/285
*	G	US-6728748-B1	04-2004	Mangipudi; Krishna	H04L41/5009	709/226
*	H	US-6810409-B1	10-2004	Fry; Michael	H04L29/06	709/202
*	I	US-6816834-B2	11-2004	Jaroker; Jon	G10L15/26	704/235
*	J	US-6816909-B1	11-2004	Chang; Subrina Sih-Pin	H04L65/604	709/217
*	K	US-6850982-B1	02-2005	Siegel; Kenneth P.	H04L67/1002	709/203
*	L	US-6868225-B1	03-2005	Brown; David Avraham	G11B27/28	386/239
*	M	US-6961751-B1	11-2005	Bates; Cary Lee	G06F16/9562	709/203

FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

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*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.

<i>Notice of References Cited</i>	Application/Control No. 16/145,265		Applicant(s)/Patent Under Reexamination McCue et al.	
	Examiner ALICIA BATURAY		Art Unit 2441	Page 2 of 7

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-6988169-B2	01-2006	Burger; Eric W.	G06F12/0862	711/137
*	B	US-7143353-B2	11-2006	McGee; Thomas	G11B27/105	715/723
*	C	US-7242809-B2	07-2007	Hunter; Kurt M.	G06K9/00711	375/240.16
*	D	US-7248777-B2	07-2007	Feininger; William A.	H04N5/76	386/241
*	E	US-7293094-B2	11-2007	Vaman; Dhadesugoor R.	H04L47/10	370/353
*	F	US-7379875-B2	05-2008	Burges; Christopher J. C.	G06K9/00523	704/273
*	G	US-7386473-B2	06-2008	Blumenau; Trevor	G06Q30/0633	705/14.54
*	H	US-7394817-B2	07-2008	Yap; Sim Thong	H04L67/1059	370/400
*	I	US-7421411-B2	09-2008	Kontio; Markku	G06F21/10	705/52
*	J	US-7466898-B2	12-2008	Ohashi; Takeshi	H04N7/163	386/241
*	K	US-7519717-B2	04-2009	Stanford-Clark; Andrew J	H04L29/06027	709/227
*	L	US-7539086-B2	05-2009	Jaroker; Jon	G06Q50/18	369/25.01
*	M	US-7546118-B2	06-2009	Camp, Jr.; William O.	H04L29/06027	455/418

FOREIGN PATENT DOCUMENTS

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<i>Notice of References Cited</i>	Application/Control No. 16/145,265		Applicant(s)/Patent Under Reexamination McCue et al.	
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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7610394-B2	10-2009	Katinsky; Steve	H04L67/02	709/231
*	B	US-7631098-B2	12-2009	Boutboul; Irwin	H04L67/10	709/238
*	C	US-7680849-B2	03-2010	Heller; David	G06F16/258	707/621
*	D	US-7686215-B2	03-2010	Jones; Anne	H04L67/06	235/380
*	E	US-7730407-B2	06-2010	Chiu; Patrick	G11B27/105	715/732
*	F	US-7769822-B2	08-2010	Achtermann; Jeffrey Mark	G06F16/951	709/218
*	G	US-7788671-B2	08-2010	Black-Ziegelbein; Elizabeth A.	G06F9/5061	709/220
*	H	US-7797446-B2	09-2010	Heller; David	G11B27/002	707/E17.109
*	I	US-7852748-B2	12-2010	Le Faucheur; Francois	H04L45/22	370/217
*	J	US-7882140-B1	02-2011	DiLorenzo; Mark	G06Q30/02	707/802
*	K	US-7958441-B2	06-2011	Heller; David	G11B27/105	715/201
*	L	US-7966577-B2	06-2011	Chaudhri; Imran	G06F3/0482	715/835
*	M	US-7984147-B2	07-2011	Daoud; Raja	H04L47/2425	709/226

FOREIGN PATENT DOCUMENTS

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<i>Notice of References Cited</i>	Application/Control No. 16/145,265		Applicant(s)/Patent Under Reexamination McCue et al.	
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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7987491-B2	07-2011	Reisman; Richard	G06F16/954	725/112
*	B	US-7996550-B2	08-2011	Fischer; Donald	H04L67/104	370/230
*	C	US-8009961-B2	08-2011	Watanabe; Katsuhiko	G11B27/34	386/243
*	D	US-8191103-B2	05-2012	Hofrichter; Klaus	G11B27/034	725/142
*	E	US-8225194-B2	07-2012	Rechsteiner; Paul	G11B27/034	707/805
*	F	US-8285809-B2	10-2012	McCue; John	G10L25/78	709/217
*	G	US-8363084-B2	01-2013	Cockerton; Craig George	G11B27/034	348/14.01
*	H	US-8370888-B2	02-2013	Zimmermann; Roger	H04N21/2187	709/226
*	I	US-8515773-B2	08-2013	Hofrichter; Klaus	G06Q30/0601	705/1.1
*	J	US-8738740-B2	05-2014	McCue; John	G10L25/78	709/219
*	K	US-9203884-B2	12-2015	McCue; John	G10L25/78	1/1
*	L	US-9319720-B2	04-2016	McCue; John	H04N21/235	1/1
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*	A	US-9596170-B2	03-2017	Johns; Kevin Christopher	H04L45/22	1/1
*	B	US-9729907-B2	08-2017	McCue; John	H04N21/235	1/1
*	C	US-9930089-B2	03-2018	McCue; John	G10L25/78	1/1
*	D	US-9954922-B2	04-2018	McCue; John	G10L25/78	1/1
*	E	US-10091266-B2	10-2018	McCue; John	G10L25/78	1/1
*	F	US-10097451-B2	10-2018	Johns; Kevin Christopher	H04L45/22	1/1
*	G	US-10237595-B2	03-2019	McCue; John	H04N21/235	1/1
*	H	US-20020065922-A1	05-2002	Shastri, Vijnan	H04L29/06	709/227
*	I	US-20020129162-A1	09-2002	McGregor, Gregory M.	H04L29/06027	709/238
*	J	US-20030046348-A1	03-2003	Pinto, Albert Gregory	G06Q10/107	709/206
*	K	US-20030046384-A1	03-2003	Sirivara, Sudheer	H04L29/06027	709/224
*	L	US-20030079222-A1	04-2003	Boykin, Patrick Oscar	H04N7/1675	725/31
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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20040169683-A1	09-2004	Chiu, Patrick	G11B27/105	715/776
*	B	US-20040172365-A1	09-2004	Murakami, Kaori	G06Q30/04	705/52
*	C	US-20040249768-A1	12-2004	Kontio, Markku	G06F21/10	705/65
*	D	US-20050144305-A1	06-2005	Fegan, Michael P. II	H04L29/06027	709/231
*	E	US-20050171763-A1	08-2005	Zhou, Jin Feng	G11B20/10527	704/201
*	F	US-20050177618-A1	08-2005	Zimler, Randy	H04N7/17318	709/203
*	G	US-20050245243-A1	11-2005	Zuniga, Michael A.	H04N21/26208	455/414.3
*	H	US-20050250439-A1	11-2005	Leslie, Garthen	H04H20/71	455/11.1
*	I	US-20060015914-A1	01-2006	Lee; Jung-won	G11B27/034	725/101
*	J	US-20060140162-A1	06-2006	Vasa; Yojak	H04L51/38	370/338
*	K	US-20060265409-A1	11-2006	Neumann; David Lawrence	G06F16/9535	1/1
*	L	US-20060265637-A1	11-2006	Marriott; Greg	G11B27/11	715/210
*	M	US-20070016636-A1	01-2007	Boerries; Marco	G06Q10/107	709/200

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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20070041356-A1	02-2007	Fontijn; Wilhelmus Franciscus Johannes	G11B27/105	370/352
*	B	US-20070083911-A1	04-2007	Madden; Thomas	H04N21/4143	725/135
*	C	US-20070094691-A1	04-2007	Gazdzinski; Robert F.	H04N7/17318	725/62
*	D	US-20070100833-A1	05-2007	Chen; Xin	G06F16/9562	1/1
*	E	US-20070106675-A1	05-2007	Watanabe; Katsuhiko	G11B27/322	1/1
*	F	US-20070118657-A1	05-2007	Kreitzer; Stuart S.	G06F16/48	709/227
*	G	US-20100174717-A1	07-2010	Fambon; Olivier	G06F9/548	707/741
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FOREIGN PATENT DOCUMENTS

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Issue Classification 	Application/Control No. 16/145,265	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
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CPC Combination Sets					
Symbol				Type	Set
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NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/ALICIA BATURAY/ Primary Examiner, Art Unit 2441	16 March 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	13

Issue Classification 	Application/Control No. 16/145,265	Applicant(s)/Patent Under Reexamination McCue et al.
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INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F		15	16
NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
709	219

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/ALICIA BATURAY/ Primary Examiner, Art Unit 2441	16 March 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	13

Issue Classification 	Application/Control No. 16/145,265	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															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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	9	17	18												

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 18	
/ALICIA BATURAY/ Primary Examiner, Art Unit 2441 (Primary Examiner) _____ (Date) 16 March 2020		O.G. Print Claim(s) 1	O.G. Print Figure 13

<i>Index of Claims</i> 	Application/Control No. 16/145,265	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										
☐ Claims renumbered in the same order as presented by applicant					☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE								
Final	Original	07/15/2019	12/09/2019	03/16/2020						
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<i>Search Notes</i> 	Application/Control No. 16/145,265	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	07/15/2019	AB
709	219	12/09/2019	AB
709	219	03/16/2020	AB

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

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<i>Search Notes</i> 	Application/Control No. 16/145,265	Applicant(s)/Patent Under Reexamination McCue et al.
	Examiner ALICIA BATURAY	Art Unit 2441

Search Notes		
Search Notes	Date	Examiner
Reviewed parent cases	07/15/2019	AB
Searched EAST (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	07/15/2019	AB
Conducted Inventor Name Search	07/15/2019	AB
Conducted Class/Subclass Search	07/15/2019	AB
Updated EAST Search (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	12/09/2019	AB
Updated Inventor Name Search	12/09/2019	AB
Updated Class/Subclass Search	12/09/2019	AB
Conducted Interference Search	12/09/2019	AB
Updated EAST Search (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	03/16/2020	AB
Updated Inventor Name Search	03/16/2020	AB
Updated Class/Subclass Search	03/16/2020	AB
Updated Interference Search	03/16/2020	AB

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
PG-PUB	See Search History	03/16/2020	AB

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Bibliographic Data

Application No: 16/145,265

Foreign Priority claimed: ☐ Yes ☒ No

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

☐ Met After Allowance

Verified and Acknowledged: /ALICIA BATURAY/

Examiner's Signature

Initials

Title:

METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/28/2018	709	2441	
RULE			

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 15358354 11/22/2016 PAT 10091266

15358354 is a CON of 15054756 02/26/2016 PAT 9954922

15054756 is a CON of 14924028 10/27/2015 PAT 9930089

14924028 is a DIV of 14250591 04/11/2014 PAT 9203884

14250591 is a CON of 13588084 08/17/2012 PAT 8738740

13588084 is a CON of 12096933 06/11/2008 PAT 8285809

12096933 is a 371 of PCT/CA2006/002046 12/12/2006

PCT/CA2006/002046 has PRO of 60749632 12/13/2005

FOREIGN APPLICATIONS

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10/25/2018

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EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	47499	(book and mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 10:03
L2	7481	L1 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 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.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 10:03

L3	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 10:03
L4	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/03/16 10:03
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	McCue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:04
S8	0	(McCue.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 (silence or "low decibel" or gaps)	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2010/01/26 14:07

		adj (language or speech))	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	McCue.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	(McCue.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;	OR	OFF	2012/06/18 14:38

			EPO; JPO; 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	McCue.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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:22

		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; 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	US-PGPUB; USPAT;	OR	ON	2017/06/07 09:24

		management) or (garbage adj collect\$5)))	EPO; JPO; 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
S94	1	"20170078357".pn.	US-PGPUB	OR	ON	2017/07/17 07:53
S95	58	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 11:58
S96	72	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 11:58
S97	0	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) same ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:14

S98	3	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) and ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:15
S99	11	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) and sync\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:16
S100	1	@ad<"20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) same premium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:23
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S102	6	@ad<"20051213" and ((secondary adj content) same (primary adj content) and ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:52
S103	23	@ad<"20051213" and ((secondary adj content) same (primary adj content) and ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:53
S104	198	@ad<"20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S105	0	@ad<"20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) same ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S106	16	@ad<"20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) and ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S107	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S108	16	@ad<"20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) and	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2018/03/05 07:46

		((second or other or another or multiple) adj device))	IBM_TDB			
S109	25	("5586264", "6621980", "20020184189", "20030091338", "20030172346", "20050061873", "20050091062", "20050111824", "20050250439", "20060236219", "20060242550", "20060271989").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S110	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S111	3	("9930089", "9954922", "10091266").pn.	USPAT	OR	ON	2019/07/15 07:47
S112	1	"20190044993".pn.	US-PGPUB	OR	ON	2019/07/15 07:47
S113	27681	(download\$3 same server same list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S114	432	(client adj download\$3 same server same list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S115	114	(client adj download\$3 same server same list same content)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S116	14	(client adj download\$3 same server same list same content same (peer-to-peer or P2P (peer adj peer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:36
S117	1	"7984147".pn.	USPAT	OR	ON	2019/07/15 15:27
S118	26	("20010011306" "20030039210" "6006264" "6366581" "6377548" "6389448" "6446722" "6449647" "6452915" "6483805" "6487170" "6578068" "6584444" "6654363" "6779017" "6871233" "6985436").PN. OR ("7984147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 15:27
S119	252011	((service adj level adj agreement) or SLA or (quality adj service) or QoS)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:33
S120	1	"6728748".pn.	USPAT	OR	ON	2019/07/15 15:35
S121	2	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:39
S122	994	((service adj level adj agreement) or	US-PGPUB;	OR	ON	2019/07/15

		SLA or (quality adj service) or QoS same ((failover or fail-over or "fail over"))	USPAT; EPO; JPO; DERWENT; IBM_TDB			15:39
S123	88	((service adj level adj agreement) or SLA or (quality adj service) or QoS adj ((failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:40
S124	15	((service adj level adj agreement) or SLA or (quality adj service) or QoS adj (affinity or sticky or stickiness)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:43
S125	129	(graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:46
S126	0	((content adj delivery adj network) or CDN) same (graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:48
S127	32	((service adj level adj agreement) or SLA or (quality adj service) or QoS same (affinity or sticky or stickiness) same fail\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:50
S128	16167	((service adj level adj agreement) or SLA or (quality adj service) or QoS same (degrad\$9 or slow\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:51
S129	1503	((service adj level adj agreement) or SLA or (quality adj service) or QoS adj (degrad\$9 or slow\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:52
S130	0	(McCue.in. or Shostakovsky.in.) same (segment adj digital adj content)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:53
S131	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:53
S132	22	((service adj level adj agreement) or SLA or (quality adj service) or QoS adj (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:54
S133	2997	((service adj level adj agreement) or SLA or (quality adj service) or QoS same (P2P or peer-to-peer or ("peer to peer"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:57
S134	73	((service adj level adj agreement) or	US-PGPUB;	OR	ON	2019/07/15

		SLA or (quality adj service) or QoS) adj (P2P or peer-to-peer or ("peer to peer"))	USPAT; EPO; JPO; DERWENT; IBM_TDB			15:58
S135	0	(P2P or peer-to-peer or ("peer to peer")) adj (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:06
S136	9	((content adj delivery adj network) or CDN) same (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:06
S137	16	("20050021694" "20060291504" "20080151746" "20110055316" "20110082924" "20110314130" "20120233228" "20130198328" "20140074961" "20140089465" "20140215018" "20150381678" "6654361" "8495675" "8532070" "8959067").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 16:07
S138	585	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5) same segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:09
S139	4	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5) adj segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:10
S140	25	connection same (degrad\$9 or slow\$5) adj segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:13
S141	67	connection adj (degrad\$9 or slow\$5) same segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:13
S142	0	audio-pod.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:32
S143	57063	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:33
S144	10739	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same switch\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:36
S145	30	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same switch\$3 adj	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2019/07/16 07:37

		server)	DERWENT; IBM_TDB			
S146	27	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same chang\$3 adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:55
S147	214	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S148	0	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (new adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S149	125	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same ((new or different) adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S150	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:47
S151	46379	(book and mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:48
S152	8526	S151 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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:48

		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.)				
S153	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:48
S154	8	("20050114296" "20060129695" "20070180335" "20080071859" "6144996" "6330602" "6801911" "7219153").PN. OR ("7769822").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/12/09 09:56
S155	1	"20190044993".pn.	US-PGPUB	OR	ON	2019/12/09 11:21

3/16/2020 10:04:08 AM
**C:\Users\abaturay\Alicia's Documents\EAST Searches\16145265-
NaturalLanguageAudioGapsAudioOnDemandCON6.wsp**

Electronic Acknowledgement Receipt

EFS ID:	38836210
Application Number:	16145265
International Application Number:	
Confirmation Number:	3815
Title of Invention:	METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED
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 CON6
Receipt Date:	11-MAR-2020
Filing Date:	28-SEP-2018
Time Stamp:	15:33:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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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	141-1USCON6OAResponse.pdf	209203 80be9229b7dd7c56d1106dfc6532475dac046ca	no	7

Warnings:

Information:	
Total Files Size (in bytes):	209203
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

Atty Docket No.: **141-1 US CON6**

Serial No.: **16/145,265**

Art Unit: **2441**

Filing Date: **September 28, 2018**

Examiner: **Baturay, Alicia**

Confirmation No.: **3815**

For: **METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED**

E-filed

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

AMENDMENT

Dear Commissioner:

In response to the Office Action dated December 12, 2019, please amend the above-identified application as follows:

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

Remarks begin on page 6 of this paper.

Amendments to the Claims

1. (Currently amended) A method of downloading digital content to be rendered, comprising:
downloading from a network accessible server to a client device a list of content servers that are capable of serving requested digital content;
tracking service level statistics for the content servers in the list of content servers;
selecting a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics;
downloading a first segment of the requested digital content from the first content server to the client device for rendering;
in the event of a degradation in service from the first content server, selecting a second content server to replace the first content server in serving the requested digital content from the list of content servers in dependence upon the service level statistics, ~~wherein the first content server and the second content server are located remotely from each other on the Internet, and~~ wherein the server replacement is imperceptible to a user of the client device; and
downloading a second segment of the requested digital content from the second content server to the client device for rendering;
wherein the requested digital content is a digital media stream that includes the first and second segments, wherein the first content server is a first library server having the digital media stream stored thereon, and wherein the second content server is a second library server having a copy of the digital media stream stored thereon.

2. (Original) The method of claim 1, wherein the service level statistics include operational service levels.

3. (Original) The method of claim 1, wherein the service level statistics include data throughput levels.

4. (Original) The method of claim 1, wherein the service level statistics include connection metrics or disconnection metrics.

5. (Original) The method of claim 1, wherein the service level statistics are updated during the downloading of the first segment.
6. (Previously amended) The method of claim 1, further comprising successively rendering the first and second segments on the client device without reconstructing the digital content, wherein the server replacement does not cause an interruption in the successive rendering of the first and second segments.
7. (Original) The method of claim 1, wherein the first content server consists of one or more server devices.
8. (Original) The method of claim 1, further comprising tracking service level statistics related to a connection established between the client device and the first content server.
9. (Canceled)
10. (Original) The method of claim 1, wherein the requested digital content includes audio content, audio/video content, video content, text content, static image content, moving image content, user-entered content, advertising content, or a combination thereof.
11. (Currently amended) A non-transitory computer-readable storage medium having stored thereon instructions which, when executed by a processor of a computing device, cause the computing device to:
 - download from a network accessible server a list of content servers that are capable of serving requested digital content;
 - track service level statistics for the content servers in the list of content servers;
 - select a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics;

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download a first segment of the requested digital content from the first content server for rendering;

in the event of a degradation in service from the first content server, select a second content server to replace the first content server in serving the requested digital content from the list of content servers in dependence upon the service level statistics, ~~wherein the first content server and the second content server are located remotely from each other on the Internet, and~~ wherein the server replacement is imperceptible to a user of the client device; and

download a second segment of the requested digital content from the second content server for rendering;

wherein the requested digital content is a digital media stream that includes the first and second segments, wherein the first content server is a first library server having the digital media stream stored thereon, and wherein the second content server is a second library server having a copy of the digital media stream stored thereon.

12. (Original) The computer-readable storage medium of claim 11, wherein the service level statistics include operational service levels.

13. (Original) The computer-readable storage medium of claim 11, wherein the service level statistics include data throughput levels.

14. (Original) The computer-readable storage medium of claim 11, wherein the service level statistics include connection metrics or disconnection metrics.

15. (Original) The computer-readable storage medium of claim 11, wherein the service level statistics are updated during the downloading of the first segment.

16. (Previously amended) The computer-readable storage medium of claim 11, wherein the instructions, when executed by the processor, further cause the computing device to successively render the first and second segments on the client device without reconstructing the digital

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Serial No.: **16/145,265**
Filing Date: **September 28, 2018**

content, and wherein the server replacement does not cause an interruption in the successive rendering of the first and second segments.

17. (Original) The computer-readable storage medium of claim 11, wherein the first content server consists of one or more server devices.

18. (Original) The computer-readable storage medium of claim 11, wherein the instructions, when executed by the processor, further cause the computing device to track service level statistics related to a connection established between the client device and the first content server.

19. (Canceled)

20. (Original) The computer-readable storage medium of claim 11, wherein the requested digital content includes audio content, audio/video content, video content, text content, static image content, moving image content, user-entered content, advertising content, or a combination thereof.

21. (Canceled)

22. (Canceled)

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Filing Date: **September 28, 2018**

Remarks

This Amendment and these Remarks are intended to be responsive to the Office Action dated December 12, 2019. By this Amendment, claims 1 and 11 are amended, and claims 9, 19, 21, and 22 are canceled. Claims 1–8, 10–18, and 20 are now pending in the present application.

1. Claim Amendments

In the Office Action, the Examiner identified claims 21 and 22 as being directed to allowable subject matter.

Although the Applicants object to the rejection of independent claims 1 and 11, to expedite prosecution of the present application, these claims have been amended to incorporate the limitations of claims 21 and 22, as well as those of intervening claims 9 and 19, respectively. Accordingly, claims 9, 19, 21, and 22 have been canceled.

Claims 1 and 11 have also been amended to remove the limitation "wherein the first content server and the second content server are located remotely from each other on the Internet", which was added in the Amendment filed on October 18, 2019, but which is unrelated to the allowable subject matter of claims 21 and 22.

No new matter has been added.

2. Conclusion

It is respectfully submitted that these claim amendments place the present application in condition for allowance.

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

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Serial No.: **16/145,265**
Filing Date: **September 28, 2018**

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 & Bouevitch
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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/145,265	09/28/2018	John McCue	141-1 US CON6	3815
24949 7590 12/12/2019 TEITELBAUM BOUEVITCH & MCLACHLEN 834 Colonel By Drive Ottawa, ONTARIO K1S 5C4 CANADA			EXAMINER BATURAY, ALICIA	
			ART UNIT 2441	PAPER NUMBER
			NOTIFICATION DATE 12/12/2019	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):

MELANIE@PATENTS.ORG

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.
2. This Office Action is in response to the amendment filed 18 October 2019.
3. Claims 1, 6, 11, and 16 were amended.
4. Claims 21 and 22 were added.
5. Claims 1-22 are pending in this Office Action.

Response to Amendment

6. The rejection of claims 1 and under 35 U.S.C. § 112, 2nd paragraph regarding indefiniteness was addressed and is withdrawn.
7. Applicants' amendments and arguments with respect to claims 1-20 and new claims 21 and 22 filed on 18 October 2019 have been fully considered but they are deemed to be moot in view of the new grounds of rejection.

Claim Rejections - 35 USC § 103

8. 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.
9. 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.

10. Claims 1-20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Hofrichter et al. (U.S. 8,515,773) in view of Daoud et al. (U.S. 7,984,147) in view of Zuniga (U.S. 2005/0245243) and further in view of Mangipudi et al. (U.S. 6,728,748).

11. With respect to claim 1, Hofrichter teaches a method of downloading digital content to be rendered, comprising: downloading from a network accessible server to a client device a list of content servers that are capable of serving requested digital content (Hofrichter, col. 4, lines 51-59); and wherein the servers are located remotely from each other on the Internet (Hofrichter, col. 2, lines 31-35; col. 5, lines 17-23; and col. 6, lines 5-6).

Hofrichter does not explicitly teach tracking service level statistics for the content servers in the list of content servers; selecting a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics.

However, Daoud teaches tracking service level statistics for the content servers in the list of content servers (Daoud, Fig. 4; col. 6, lines 22-44); selecting a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics (Daoud, col. 6, lines 45-63); from the list of content servers (Daoud, Fig. 6; col. 8, lines 31-50) in dependence upon the service level statistics (Daoud, Fig. 4; col. 6, lines 22-44); and the requested digital content (Daoud, col. 4, lines 13-22).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hofrichter in view of Daoud in order to enable tracking service level statistics for the content servers in the list of content servers; selecting a first content server to serve the requested digital content

from the list of content servers in dependence upon the service level statistics. One would be motivated to do so in order to provide load balancing tools that are used 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).

The combination of Hofrichter and Daoud does not explicitly teach downloading a first segment of the requested digital content from the first content server to the client device for rendering; and downloading a second segment to the client device for rendering.

However, Zuniga teaches downloading a first segment of the requested digital content from the first content server to the client device for rendering (Zuniga, page 2, paragraph 20; and page 4, paragraph 45); and downloading a second segment of (Zuniga, page 2, paragraph 20; and page 4, paragraph 45) to the client device for rendering (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Hofrichter and Daoud in view of Zuniga in order to enable downloading a first segment of the requested digital content from the first content server to the client device for rendering; and downloading a second segment to the client device for rendering. One would be motivated to do so in order to provide better bandwidth use and reduce or eliminate the need to transmit large audio segments to a client device by assigning an identifier to the audio segment and the audio segment is broken into several audio files (Zuniga, page 2, paragraph 20).

The combination of Hofrichter, Daoud, and Zuniga does not explicitly teach in the event of a degradation in service from the first content server, selecting a second content server to replace the first content server in serving the requested digital content; wherein the server replacement is substantially imperceptible; and from the second content server.

However, Mangipudi teaches in the event of a degradation in service from (Mangipudi, col. 11, lines 42-47) the first content server (Mangipudi, col. 7, lines 62-64), selecting a second content server to

replace the first content server in serving the requested digital content (Mangipudi, col. 11, lines 42-47), wherein the first content server (Mangipudi, col. 7, lines 62-64) and the second content server (Mangipudi, col. 11, lines 42-47); wherein the server replacement is imperceptible to a user of the client device (Mangipudi, col. 11, lines 36-37); and from the second content server (Mangipudi, col. 11, lines 42-47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Hofrichter, Daoud, and Zuniga in view of Mangipudi in order to enable in the event of a degradation in service from the first content server, selecting a second content server to replace the first content server in serving the requested digital content; wherein the server replacement is substantially imperceptible; and from the second content server. One would be motivated to do so in order to reduce total cost of site ownership, and improve site performance and response times, enable efficient traffic management that prevents server bottlenecks and breakdowns (Mangipudi, col. 11, lines 26-29).

12. With respect to claim 2, the combination of Hofrichter, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the service level statistics include operational service levels (Daoud, Fig. 4; col. 6, lines 22-44).

13. With respect to claim 3, the combination of Hofrichter, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the service level statistics include data throughput levels (Daoud, col. 5, lines 35-36).

14. With respect to claim 4, the combination of Hofrichter, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the service level statistics include connection metrics or disconnection metrics (Mangipudi, col. 11, line 48 – col. 12, line 1).

15. With respect to claim 5, the combination of Hofrichter, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the service level statistics are updated (Mangipudi, col. 12, lines 36-41) during the downloading of the first segment (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

16. With respect to claim 6, the combination of Hofrichter, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method further comprising successively rendering the first and second segments on the client device (Zuniga, page 2, paragraph 20; and page 4, paragraph 45) without reconstructing the digital content (Zuniga, page 1, paragraphs 3 and 4), wherein the server replacement does not cause an interruption (Mangipudi, col. 11, lines 36-37) in the successive rendering of the first and second segments (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

17. With respect to claim 7, the combination of Hofrichter, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the first content server consists of one or more server devices (Daoud, Fig. 6; col. 8, lines 31-50).

18. With respect to claim 8, the combination of Hofrichter, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method further comprising tracking service level statistics related to a connection established between the client device and the first content server (Mangipudi, col. 11, line 36 – col. 12, line 1).

19. With respect to claim 9, the combination of Hofrichter, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the requested digital content is a digital media stream that includes the first and second segments (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

20. With respect to claim 10, the combination of Hofrichter, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the requested digital content includes audio content, audio/video content, video content, text content, static image content, moving image content, user-entered content, advertising content, or a combination thereof (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

21. With respect to claim 11, Hofrichter teaches a non-transitory computer-readable storage medium having stored thereon instructions which, when executed by a processor of a computing device, cause the computing device to: download from a network accessible server a list of content servers that are capable of serving requested digital content (Hofrichter, col. 4, lines 51-59); and wherein the servers are located remotely from each other on the Internet (Hofrichter, col. 2, lines 31-35; col. 5, lines 17-23; and col. 6, lines 5-6).

Hofrichter does not explicitly teach a list of content servers that are capable of serving requested digital content; track service level statistics for the content servers in the list of content servers; select a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics; from the list of content servers in dependence upon the service level statistics; and the requested digital content.

However, Daoud teaches a list of content servers that are capable of serving (Daoud, Fig. 6; col. 8, lines 31-50) requested digital content (Daoud, col. 4, lines 13-22); track service level statistics for the

content servers in the list of content servers (Daoud, Fig. 4; col. 6, lines 22-44); select a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics (Daoud, col. 6, lines 45-63); from the list of content servers (Daoud, Fig. 6; col. 8, lines 31-50) in dependence upon the service level statistics (Daoud, Fig. 4; col. 6, lines 22-44); and the requested digital content (Daoud, col. 4, lines 13-22).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hofrichter in view of Daoud in order to enable a list of content servers that are capable of serving requested digital content; track service level statistics for the content servers in the list of content servers; select a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics; from the list of content servers in dependence upon the service level statistics; and the requested digital content. One would be motivated to do so in order to provide load balancing tools that are used 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).

The combination of Hofrichter and Daoud does not explicitly teach download a first segment of the requested digital content from the first content server for rendering; download a second segment for rendering.

However, Zuniga teaches download a first segment of the requested digital content from the first content server for rendering (Zuniga, page 2, paragraph 20; and page 4, paragraph 45); download a second segment of (Zuniga, page 2, paragraph 20; and page 4, paragraph 45) for rendering (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Hofrichter and Daoud in view of Zuniga in order to enable download a first segment of the requested digital content from the first content server for rendering; download a second segment for rendering. One would be motivated to do so in order to provide better bandwidth use and

reduce or eliminate the need to transmit large audio segments to a client device by assigning an identifier to the audio segment and the audio segment is broken into several audio files (Zuniga, page 2, paragraph 20).

The combination of Hofrichter, Daoud, and Zuniga does not explicitly teach in the event of a degradation in service from the first content server, select a second content server to replace the first content server in serving the requested digital content, wherein the server replacement is substantially imperceptible; and from the second content server.

However, Mangipudi teaches in the event of a degradation in service from (Mangipudi, col. 11, lines 42-47) the first content server (Mangipudi, col. 7, lines 62-64), select a second content server to replace the first content server in serving the requested digital content (Mangipudi, col. 11, lines 42-47), wherein the first content server (Mangipudi, col. 7, lines 62-64) and the second content server (Mangipudi, col. 11, lines 42-47); wherein the server replacement (Mangipudi, col. 11, lines 42-47) is imperceptible to a user of the client device (Mangipudi, col. 11, lines 36-37); and from the second content server (Mangipudi, col. 11, lines 42-47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Hofrichter n, Daoud, and Zuniga in view of Mangipudi in order to enable in the event of a degradation in service from the first content server, select a second content server to replace the first content server in serving the requested digital content, wherein the server replacement is substantially imperceptible; and from the second content server. One would be motivated to do so in order to reduce total cost of site ownership, and improve site performance and response times, enable efficient traffic management that prevents server bottlenecks and breakdowns (Mangipudi, col. 11, lines 26-29).

22. Claims 12-20 do not teach or define any new limitations above claims 2-10 and therefore are rejected for similar reasons.

Allowable Subject Matter

23. Claims 21 and 22 are objected to as being dependent upon rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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 – 4pm, Mondays – Thursdays, Eastern Time.

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

December 9, 2019

<i>Notice of References Cited</i>	Application/Control No. 16/145,265		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-8515773-B2	08-2013	Hofrichter; Klaus	G06Q30/0601	705/1.1
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

<i>Search Notes</i> 	Application/Control No. 16/145,265	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	07/15/2019	AB
709	219	12/09/2019	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
Reviewed parent cases	07/15/2019	AB
Searched EAST (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	07/15/2019	AB
Conducted Inventor Name Search	07/15/2019	AB
Conducted Class/Subclass Search	07/15/2019	AB
Updated EAST Search (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	12/09/2019	AB
Updated Inventor Name Search	12/09/2019	AB
Updated Class/Subclass Search	12/09/2019	AB

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<i>Search Notes</i> 	Application/Control No. 16/145,265	Applicant(s)/Patent Under Reexamination McCue et al.
	Examiner ALICIA BATURAY	Art Unit 2441

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

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<i>Index of Claims</i> 	Application/Control No. 16/145,265	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										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	07/15/2019	12/09/2019							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
	12	✓	✓							
	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
	20	✓	✓							
	21		O							
	22		O							

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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	McCue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:04
S8	0	(McCue.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 (silence or "low decibel" or gaps)	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2010/01/26 14:07

		adj (language or speech))	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	McCue.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	(McCue.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;	OR	OFF	2012/06/18 14:38

			EPO; JPO; 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	McCue.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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:22

		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; 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	US-PGPUB; USPAT;	OR	ON	2017/06/07 09:24

		management) or (garbage adj collect\$5)))	EPO; JPO; 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
S94	1	"20170078357".pn.	US-PGPUB	OR	ON	2017/07/17 07:53
S95	58	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 11:58
S96	72	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 11:58
S97	0	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) same ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:14

S98	3	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) and ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:15
S99	11	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) and sync\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:16
S100	1	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) same premium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:23
S101	56	@ad< "20051213" and ((secondary adj content) same (primary adj content) and sync\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:23
S102	6	@ad< "20051213" and ((secondary adj content) same (primary adj content) and ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:52
S103	23	@ad< "20051213" and ((secondary adj content) same (primary adj content) and ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:53
S104	198	@ad< "20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S105	0	@ad< "20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) same ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S106	16	@ad< "20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) and ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S107	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S108	16	@ad< "20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) and	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2018/03/05 07:46

		((second or other or another or multiple) adj device))	IBM_TDB			
S109	25	("5586264", "6621980", "20020184189", "20030091338", "20030172346", "20050061873", "20050091062", "20050111824", "20050250439", "20060236219", "20060242550", "20060271989").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S110	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S111	3	("9930089", "9954922", "10091266").pn.	USPAT	OR	ON	2019/07/15 07:47
S112	1	"20190044993".pn.	US-PGPUB	OR	ON	2019/07/15 07:47
S113	27681	(download\$3 same server same list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S114	432	(client adj download\$3 same server same list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S115	114	(client adj download\$3 same server same list same content)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S116	14	(client adj download\$3 same server same list same content same (peer-to-peer or P2P (peer adj peer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:36
S117	1	"7984147".pn.	USPAT	OR	ON	2019/07/15 15:27
S118	26	("20010011306" "20030039210" "6006264" "6366581" "6377548" "6389448" "6446722" "6449647" "6452915" "6483805" "6487170" "6578068" "6584444" "6654363" "6779017" "6871233" "6985436").PN. OR ("7984147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 15:27
S119	252011	((service adj level adj agreement) or SLA or (quality adj service) or QoS)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:33
S120	1	"6728748".pn.	USPAT	OR	ON	2019/07/15 15:35
S121	2	((service adj level adj agreement) or SLA or (quality adj service) or QoS same (graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:39
S122	994	((service adj level adj agreement) or	US-PGPUB;	OR	ON	2019/07/15

		SLA or (quality adj service) or QoS same ((failover or fail-over or "fail over"))	USPAT; EPO; JPO; DERWENT; IBM_TDB			15:39
S123	88	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj ((failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:40
S124	15	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (affinity or sticky or stickiness)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:43
S125	129	(graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:46
S126	0	((content adj delivery adj network) or CDN) same (graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:48
S127	32	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (affinity or sticky or stickiness) same fail\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:50
S128	16167	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:51
S129	1503	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (degrad\$9 or slow\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:52
S130	0	(McCue.in. or Shostakovsky.in.) same (segment adj digital adj content)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:53
S131	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:53
S132	22	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:54
S133	2997	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (P2P or peer-to-peer or ("peer to peer"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:57
S134	73	((service adj level adj agreement) or	US-PGPUB;	OR	ON	2019/07/15

		SLA or (quality adj service) or QoS) adj (P2P or peer-to-peer or ("peer to peer"))	USPAT; EPO; JPO; DERWENT; IBM_TDB			15:58
S135	0	(P2P or peer-to-peer or ("peer to peer")) adj (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:06
S136	9	((content adj delivery adj network) or CDN) same (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:06
S137	16	("20050021694" "20060291504" "20080151746" "20110055316" "20110082924" "20110314130" "20120233228" "20130198328" "20140074961" "20140089465" "20140215018" "20150381678" "6654361" "8495675" "8532070" "8959067").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 16:07
S138	585	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5) same segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:09
S139	4	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5) adj segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:10
S140	25	connection same (degrad\$9 or slow\$5) adj segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:13
S141	67	connection adj (degrad\$9 or slow\$5) same segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:13
S142	0	audio-pod.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:32
S143	57063	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:33
S144	10739	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same switch\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:36
S145	30	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same switch\$3 adj	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2019/07/16 07:37

		server)	DERWENT; IBM_TDB			
S146	27	@ad< "20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same chang\$3 adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:55
S147	214	@ad< "20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S148	0	@ad< "20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (new adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S149	125	@ad< "20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same ((new or different) adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S150	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:47
S151	46379	(book and mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:48
S152	8526	S151 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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:48

		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.)				
S153	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/09 09:48
S154	8	("20050114296" "20060129695" "20070180335" "20080071859" "6144996" "6330602" "6801911" "7219153").PN. OR ("7769822").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/12/09 09:56
S155	1	"20190044993".pn.	US-PGPUB	OR	ON	2019/12/09 11:21

12/ 9/ 2019 2:00:33 PM

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NaturalLanguageAudioGapsAudioOnDemandCON6.wsp

Electronic Patent Application Fee Transmittal				
Application Number:		16145265		
Filing Date:		28-Sep-2018		
Title of Invention:		METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED		
First Named Inventor/Applicant Name:		John McCue		
Filer:		Neil Teitelbaum/Melanie Budarick		
Attorney Docket Number:		141-1 US CON6		
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:				
CLAIMS IN EXCESS OF 20	2202	2	50	100
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				100

Electronic Acknowledgement Receipt

EFS ID:	37497851
Application Number:	16145265
International Application Number:	
Confirmation Number:	3815
Title of Invention:	METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED
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 CON6
Receipt Date:	18-OCT-2019
Filing Date:	28-SEP-2018
Time Stamp:	13:38:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 100
RAM confirmation Number	E20190HD39211853
Deposit Account	502810
Authorized User	Melanie Budarick

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37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	141-1USCON6OAResponse.pdf	254691	no	11
			cef121c83262f043621d8e67663f6cf87b8e686d		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30342	no	2
			cb9ddfc6531ddb7c167dd8db38f0623aec85beb1		

Warnings:

Information:

Total Files Size (in bytes):

285033

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

Atty Docket No.: **141-1 US CON6**

Serial No.: **16/145,265**

Art Unit: **2441**

Filing Date: **September 28, 2018**

Examiner: **Baturay, Alicia**

Confirmation No.: **3815**

For: **METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED**

E-filed

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

AMENDMENT

Dear Commissioner:

In response to the Office Action dated July 22, 2019, please amend the above-identified application as follows:

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

Remarks begin on page 6 of this paper.

Amendments to the Claims

1. (Currently amended) A method of downloading digital content to be rendered, comprising:
downloading from a network accessible server to a client device a list of content servers that are capable of serving requested digital content;
tracking service level statistics for the content servers in the list of content servers;
selecting a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics;
downloading a first segment of the requested digital content from the first content server to the client device for rendering;
in the event of a degradation in service from the first content server, selecting a second content server to replace the first content server in serving the requested digital content from the list of content servers in dependence upon the service level statistics, wherein the first content server and the second content server are located remotely from each other on the Internet, and wherein the server replacement is ~~substantially~~ imperceptible to a user of the client device; and
downloading a second segment of the requested digital content from the second content server to the client device for rendering.
2. (Original) The method of claim 1, wherein the service level statistics include operational service levels.
3. (Original) The method of claim 1, wherein the service level statistics include data throughput levels.
4. (Original) The method of claim 1, wherein the service level statistics include connection metrics or disconnection metrics.
5. (Original) The method of claim 1, wherein the service level statistics are updated during the downloading of the first segment.

6. (Currently amended) The method of claim 1, further comprising successively rendering the first and second segments on the client device without reconstructing the digital content, wherein the server replacement does not cause an interruption in the successive rendering of the first and second segments.

7. (Original) The method of claim 1, wherein the first content server consists of one or more server devices.

8. (Original) The method of claim 1, further comprising tracking service level statistics related to a connection established between the client device and the first content server.

9. (Original) The method of claim 1, wherein the requested digital content is a digital media stream that includes the first and second segments.

10. (Original) The method of claim 1, wherein the requested digital content includes audio content, audio/video content, video content, text content, static image content, moving image content, user-entered content, advertising content, or a combination thereof.

11. (Currently amended) A non-transitory computer-readable storage medium having stored thereon instructions which, when executed by a processor of a computing device, cause the computing device to:

- download from a network accessible server a list of content servers that are capable of serving requested digital content;
- track service level statistics for the content servers in the list of content servers;
- select a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics;
- download a first segment of the requested digital content from the first content server for rendering;
- in the event of a degradation in service from the first content server, select a second content server to replace the first content server in serving the requested digital content from the list of

content servers in dependence upon the service level statistics, wherein the first content server and the second content server are located remotely from each other on the Internet, and wherein the server replacement is ~~substantially~~ imperceptible to a user of the client device; and download a second segment of the requested digital content from the second content server for rendering.

12. (Original) The computer-readable storage medium of claim 11, wherein the service level statistics include operational service levels.

13. (Original) The computer-readable storage medium of claim 11, wherein the service level statistics include data throughput levels.

14. (Original) The computer-readable storage medium of claim 11, wherein the service level statistics include connection metrics or disconnection metrics.

15. (Original) The computer-readable storage medium of claim 11, wherein the service level statistics are updated during the downloading of the first segment.

16. (Amended) The computer-readable storage medium of claim 11, wherein the instructions, when executed by the processor, further cause the computing device to successively render the first and second segments on the client device without reconstructing the digital content, and wherein the server replacement does not cause an interruption in the successive rendering of the first and second segments.

17. (Original) The computer-readable storage medium of claim 11, wherein the first content server consists of one or more server devices.

18. (Original) The computer-readable storage medium of claim 11, wherein the instructions, when executed by the processor, further cause the computing device to track service level

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Serial No.: **16/145,265**
Filing Date: **September 28, 2018**

statistics related to a connection established between the client device and the first content server.

19. (Original) The computer-readable storage medium of claim 11, wherein the requested digital content is a digital media stream that includes the first and second segments.

20. (Original) The computer-readable storage medium of claim 11, wherein the requested digital content includes audio content, audio/video content, video content, text content, static image content, moving image content, user-entered content, advertising content, or a combination thereof.

21. (New) The method of claim 9, wherein the first content server is a first library server having the digital media stream stored thereon, and wherein the second content server is a second library server having a copy of the digital media stream stored thereon.

22. (New) The computer-readable storage medium of claim 19, wherein the first content server is a first library server having the digital media stream stored thereon, and wherein the second content server is a second library server having a copy of the digital media stream stored thereon.

Remarks

This Amendment and these Remarks are intended to be responsive to the Office Action dated July 22, 2019. By this Amendment, claims 1 and 11 are amended, and new claims 21 and 22 are added. Claims 1–22 are now pending in the present application.

1. Claim Amendments

Independent claims 1 and 11 have been amended to specify that the first content server and the second content server are located remotely from each other on the Internet. Support for this amendment is found at paragraph [0046] of the original specification, for example.

Independent claims 1 and 11 have also been amended to clarify that the server replacement is imperceptible to a user of the client device. Support for this amendment is found at paragraphs [0044], [0053], and [0066] of the original specification, for example.

Claims 6 and 16 have been amended to specify that the first and second segments are successively rendered on the client device without reconstructing the digital content. Support for this amendment is found at paragraphs [0011] and [0044] of the original specification, for example.

New claims 21 and 22 have been added to define embodiments in which the first content server is a first library server having the digital media stream stored thereon, and the second content server is a second library server having a copy of the digital media stream stored thereon. Support for these claims is found at paragraphs [0048], [0050], and [0066] of the original specification, for example.

No new matter has been added.

2. Claim Rejections under 35 U.S.C. 112

Claims 1 and 11 stand rejected under pre-AIA 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter regarded as the invention.

The Examiner alleges that it is unclear exactly what the metes and bounds of claims 1 and 11 are in regards to the statement "substantially imperceptible". To remove this issue, the Applicants have amended these claims to recite "imperceptible to a user of the client device".

Accordingly, the Applicants respectfully request that the rejections of claims 1 and 11 be withdrawn.

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

Claims 1–20 stand rejected under pre-AIA 35 USC 103(a) as being unpatentable over U.S. Patent No. 7,769,822 to Achtermann ("Achtermann") in view of U.S. Patent No. 7,984,147 to Daoud et al. ("Daoud"), further in view of U.S. Patent Application Publication No. 2005/0245243 to Zuniga ("Zuniga"), and further in view of U.S. Patent No. 6,728,748 to Mangipudi et al. ("Mangipudi").

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

3.1. Achtermann Does Not Qualify as Prior Art

The Applicants respectfully submit that Achtermann does not qualify as prior art under pre-AIA 35 U.S.C. 102(e) (or any other paragraph of this section). Achtermann has a filing (and priority) date of July 17, 2007, whereas the present application has a priority date of December 13, 2005. Therefore, Achtermann was not filed before the invention by the Applicant as required by pre-AIA 35 U.S.C. 102(e).

Accordingly, the Applicants respectfully request that the rejections of claims 1–20 be withdrawn.

3.2. Independent Claims 1 and 11

Independent claims 1 and 11 are patentable for at least the reasons set forth above, and for the following additional reasons.

Among other things, claims 1 and 11 each require the feature of:
in the event of a degradation in service from the first content server, selecting a second content server to replace the first content server in serving the requested digital content from the list of content servers in dependence upon the service level statistics, wherein the first content server and the second content server are located remotely from each other on the Internet

The Examiner alleges that Mangipudi teaches the feature of:
in the event of a degradation of service from (Mangipudi, col. 11, lines 42–47) the first content server (Mangipudi, col. 7, lines 62–64), selecting a second content server to replace the first content server in serving the requested digital content (Mangipudi, col. 11, lines 42–47).

However, Mangipudi does not teach that the first content server and the second content server are located remotely from each other on the Internet. Rather, Mangipudi's disclosure is directed to the management of a cluster of back-end servers **206** (i.e., a "server farm"). The back-end servers **206** are located locally to one another within the cluster. In the embodiment illustrated in Figure 2, the back-end servers **206** are located in a local area network (LAN) **208** (Mangipudi, col. 7, lines 15–19).

Because the back-end servers **206** are located locally to one another in a cluster, if the cluster loses power or suffers some other type of failure, the client is denied service. Mangipudi offers no protection from this level of failure. In contrast, the content servers in claims 1 and 11

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can be located anywhere on the Internet. In the event of a failure at the first content server, the second content server is unlikely to be affected and, advantageously, service to the client can be maintained.

Thus, Mangipudi does not teach or suggest the above-noted feature of claims 1 and 11. None of the other cited references remedy this deficiency.

Therefore, the proposed combination of Achtermann, Daoud, Zuniga, and Mangipudi does not teach or suggest all the elements of claims 1 and 11. Accordingly, claims 1 and 11 are patentable over the cited references. The Applicants respectfully request that the rejections of these claims, and all claims dependent thereon, be withdrawn.

3.3. Dependent Claims 2–10 and 12–20

Claims 2–10 and 12–20 ultimately depend from claim 1 or 11, respectively. Therefore, these claims are patentable for at least the reasons set forth above with respect to claims 1 and 11, and for the following additional reasons.

3.3.1. Claims 6 and 16

Among other things, claims 6 and 16 each require the feature of:
successively rendering the first and second segments on the client device without reconstructing the digital content

The Examiner alleges that Zuniga teaches the feature of:
successively rendering the first and second segments on the client device (Zuniga, page 2, paragraph [0020]; and page 4, paragraph [0045])

However, Zuniga does not teach that the first and second segments are rendered without reconstructing the digital content. Rather, Zuniga teaches that the entire sequence of audio files constituting an audio track are downloaded to reconstruct the audio track before it is played (Zuniga, page 2, paragraph [0020]; page 6, paragraph [0070]; and Figure 5).

This reconstruction of the audio track prior to playback increases the delivery time; Zuniga discloses that it could take 20 minutes for 1 hour of category 3 content, such as an audio book, to be delivered (Zuniga, page 3, paragraph [0035]). In contrast, by successively rendering segments of digital content without reconstructing the digital content, the embodiment of claims 6 and 16 allows the user to receive digital content on demand (*e.g.*, in 2 to 5 s, even if the digital content is a large audio book).

Thus, Zuniga does not teach or suggest the above-noted feature of claims 6 and 16. None of the other cited references remedy this deficiency.

4. New Claims 21 and 22

New claims 21 and 22 ultimately depend from claim 1 or 11, respectively. Therefore, these claims are patentable for at least the reasons set forth above with respect to claims 1 and 11, and for the following additional reasons.

Among other things, claims 21 and 22 each require the feature of:
wherein the first content server is a first library server having the digital media stream stored thereon, and wherein the second content server is a second library server having a copy of the digital media stream stored thereon

None of the cited references teaches downloading different segments of a digital media stream from different libraries. Thus, the cited references do not teach or suggest the above-noted feature of claims 21 and 22.

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5. 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.

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

Tel: (613) 523-3784
Fax: (613) 523-6799
Email: neilteitelbaum@gmail.com

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/145,265		Filing Date 09/28/2018		☐ To be Mailed			
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO											
APPLICATION AS FILED - PART I											
		(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A					
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		x \$50 =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		x \$230 =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))											
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL					
APPLICATION AS AMENDED - PART II											
		(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	10/18/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 22	Minus	** 20	= 2			x \$50 =		100	
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0			x \$230 =		0	
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE		100	
		(Column 1)		(Column 2)		(Column 3)					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=			x \$0 =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=			x \$0 =			
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.								LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".								/ZETA T ADAMS/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".											
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/145,265	09/28/2018	John McCue	141-1 US CON6	3815
24949 7590 07/22/2019 TEITELBAUM BOUEVITCH & MCLACHLEN 834 Colonel By Drive Ottawa, ONTARIO K1S 5C4 CANADA			EXAMINER BATURAY, ALICIA	
			ART UNIT 2441	PAPER NUMBER
			NOTIFICATION DATE 07/22/2019	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):

MELANIE@PATENTS.ORG

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.
2. Claims 1-20 are presented for examination.

Claim Rejections - 35 USC § 112

3. The following is a quotation of 35 U.S.C. 112(b):

(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 1 is rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. Line 12 states “substantially imperceptible.” It is unclear exactly what the metes and bounds of the claim are in regards to this statement.

5. Claim 11 is rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. Line 13 states “substantially imperceptible.” It is unclear exactly what the metes and bounds of the claim are in regards to this statement.

Claim Rejections - 35 USC § 103

6. 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.

7. 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.

8. **Claims 1-20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Achtermann et al. (U.S. 7,769,822) in view of Daoud et al. (U.S. 7,984,147) in view of Zuniga (U.S. 2005/0245243) and further in view of Mangipudi et al. (U.S. 6,728,748).**

9. With respect to claim 1, Achtermann teaches a method of downloading digital content to be rendered, comprising: downloading from a network accessible server to a client device a list of content servers that are capable of serving requested digital content (Achtermann, col. 2, line 66 – col. 3, line 13).

Achtermann does not explicitly teach tracking service level statistics for the content servers in the list of content servers; selecting a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics.

However, Daoud teaches tracking service level statistics for the content servers in the list of content servers (Daoud, Fig. 4; col. 6, lines 22-44); selecting a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics (Daoud, col.

6, lines 45-63); from the list of content servers (Daoud, Fig. 6; col. 8, lines 31-50) in dependence upon the service level statistics (Daoud, Fig. 4; col. 6, lines 22-44); and the requested digital content (Daoud, col. 4, lines 13-22).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Achtermann in view of Daoud in order to enable tracking service level statistics for the content servers in the list of content servers; selecting a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics. One would be motivated to do so in order to provide load balancing tools that are used 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).

The combination of Achtermann and Daoud does not explicitly teach downloading a first segment of the requested digital content from the first content server to the client device for rendering; and downloading a second segment to the client device for rendering.

However, Zuniga teaches downloading a first segment of the requested digital content from the first content server to the client device for rendering (Zuniga, page 2, paragraph 20; and page 4, paragraph 45); and downloading a second segment of (Zuniga, page 2, paragraph 20; and page 4, paragraph 45) to the client device for rendering (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Achtermann and Daoud in view of Zuniga in order to enable downloading a first segment of the requested digital content from the first content server to the client device for rendering; and downloading a second segment to the client device for rendering. One would be motivated to do so in order to provide better bandwidth use and reduce or eliminate the need to transmit large audio segments to a client device by assigning an identifier to the audio segment and the audio segment is broken into several audio files (Zuniga, page 2, paragraph 20).

The combination of Achtermann, Daoud, and Zuniga does not explicitly teach in the event of a degradation in service from the first content server, selecting a second content server to replace the first content server in serving the requested digital content; wherein the server replacement is substantially imperceptible; and from the second content server.

However, Mangipudi teaches in the event of a degradation in service from (Mangipudi, col. 11, lines 42-47) the first content server (Mangipudi, col. 7, lines 62-64), selecting a second content server to replace the first content server in serving the requested digital content (Mangipudi, col. 11, lines 42-47); wherein the server replacement is substantially imperceptible (Mangipudi, col. 11, lines 36-37); and from the second content server (Mangipudi, col. 11, lines 42-47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Achtermann, Daoud, and Zuniga in view of Mangipudi in order to enable in the event of a degradation in service from the first content server, selecting a second content server to replace the first content server in serving the requested digital content; wherein the server replacement is substantially imperceptible; and from the second content server. One would be motivated to do so in order to reduce total cost of site ownership, and improve site performance and response times, enable efficient traffic management that prevents server bottlenecks and breakdowns (Mangipudi, col. 11, lines 26-29).

10. With respect to claim 2, the combination of Achtermann, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the service level statistics include operational service levels (Daoud, Fig. 4; col. 6, lines 22-44).

11. With respect to claim 3, the combination of Achtermann, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the service level statistics include data throughput levels (Daoud, col. 5, lines 35-36).

12. With respect to claim 4, the combination of Achtermann, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the service level statistics include connection metrics or disconnection metrics (Mangipudi, col. 11, line 48 – col. 12, line 1).

13. With respect to claim 5, the combination of Achtermann, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the service level statistics are updated (Mangipudi, col. 12, lines 36-41) during the downloading of the first segment (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

14. With respect to claim 6, the combination of Achtermann, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method further comprising successively rendering the first and second segments on the client device (Zuniga, page 2, paragraph 20; and page 4, paragraph 45), wherein the server replacement does not cause an interruption (Mangipudi, col. 11, lines 36-37) in the successive rendering of the first and second segments (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

15. With respect to claim 7, the combination of Achtermann, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the first content server consists of one or more server devices (Daoud, Fig. 6; col. 8, lines 31-50).

16. With respect to claim 8, the combination of Achtermann, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method further comprising tracking service level statistics related to a connection established between the client device and the first content server (Mangipudi, col. 11, line 36 – col. 12, line 1).

17. With respect to claim 9, the combination of Achtermann, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the requested digital content is a digital media stream that includes the first and second segments (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

18. With respect to claim 10, the combination of Achtermann, Daoud, Zuniga, and Mangipudi teaches the invention described in claim 1, including the method wherein the requested digital content includes audio content, audio/video content, video content, text content, static image content, moving image content, user-entered content, advertising content, or a combination thereof (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

19. With respect to claim 11, Achtermann teaches a non-transitory computer-readable storage medium having stored thereon instructions which, when executed by a processor of a computing device, cause the computing device to: download from a network accessible server a list of content servers that are capable of serving requested digital content (Achtermann, col. 2, line 66 – col. 3, line 13).

Achtermann does not explicitly teach a list of content servers that are capable of serving requested digital content; track service level statistics for the content servers in the list of content servers; select a first content server to serve the requested digital content from the list of content servers in

dependence upon the service level statistics; from the list of content servers in dependence upon the service level statistics; and the requested digital content.

However, Daoud teaches a list of content servers that are capable of serving (Daoud, Fig. 6; col. 8, lines 31-50) requested digital content (Daoud, col. 4, lines 13-22); track service level statistics for the content servers in the list of content servers (Daoud, Fig. 4; col. 6, lines 22-44); select a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics (Daoud, col. 6, lines 45-63); from the list of content servers (Daoud, Fig. 6; col. 8, lines 31-50) in dependence upon the service level statistics (Daoud, Fig. 4; col. 6, lines 22-44); and the requested digital content (Daoud, col. 4, lines 13-22).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Achtermann in view of Daoud in order to enable a list of content servers that are capable of serving requested digital content; track service level statistics for the content servers in the list of content servers; select a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics; from the list of content servers in dependence upon the service level statistics; and the requested digital content. One would be motivated to do so in order to provide load balancing tools that are used 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).

The combination of Achtermann and Daoud does not explicitly teach download a first segment of the requested digital content from the first content server for rendering; download a second segment for rendering.

However, Zuniga teaches download a first segment of the requested digital content from the first content server for rendering (Zuniga, page 2, paragraph 20; and page 4, paragraph 45); download a second segment of (Zuniga, page 2, paragraph 20; and page 4, paragraph 45) for rendering (Zuniga, page 2, paragraph 20; and page 4, paragraph 45).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Achtermann and Daoud in view of Zuniga in order to enable download a first segment of the requested digital content from the first content server for rendering; download a second segment for rendering. One would be motivated to do so in order to provide better bandwidth use and reduce or eliminate the need to transmit large audio segments to a client device by assigning an identifier to the audio segment and the audio segment is broken into several audio files (Zuniga, page 2, paragraph 20).

The combination of Achtermann, Daoud, and Zuniga does not explicitly teach in the event of a degradation in service from the first content server, select a second content server to replace the first content server in serving the requested digital content, wherein the server replacement is substantially imperceptible; and from the second content server.

However, Mangipudi teaches in the event of a degradation in service from (Mangipudi, col. 11, lines 42-47) the first content server (Mangipudi, col. 7, lines 62-64), select a second content server to replace the first content server in serving the requested digital content (Mangipudi, col. 11, lines 42-47), wherein the server replacement (Mangipudi, col. 11, lines 42-47) is substantially imperceptible (Mangipudi, col. 11, lines 36-37); and from the second content server (Mangipudi, col. 11, lines 42-47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Achtermann, Daoud, and Zuniga in view of Mangipudi in order to enable in the event of a degradation in service from the first content server, select a second content server to replace the first content server in serving the requested digital content, wherein the server replacement is substantially imperceptible; and from the second content server. One would be motivated to do so in order to reduce total cost of site ownership, and improve site performance and response times, enable efficient traffic management that prevents server bottlenecks and breakdowns (Mangipudi, col. 11, lines 26-29).

20. Claims 12-20 do not teach or define any new limitations above claims 2-10 and therefore are rejected for similar reasons.

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 – 4pm, Mondays – Thursdays, Eastern Time.

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 15, 2019

<i>Notice of References Cited</i>	Application/Control No. 16/145,265		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-6728748-B1	04-2004	Mangipudi; Krishna	H04L41/5009	709/226
*	B	US-7769822-B2	08-2010	Achtermann; Jeffrey Mark	G06F16/951	709/218
*	C	US-7984147-B2	07-2011	Daoud; Raja	H04L47/2425	709/226
*	D	US-20050245243-A1	11-2005	Zuniga, Michael A.	H04N21/26208	455/414.3
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

<i>Index of Claims</i> 	Application/Control No. 16/145,265	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										
☐ Claims renumbered in the same order as presented by applicant			☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE								
Final	Original	07/15/2019								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
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	11	✓								
	12	✓								
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	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								

<i>Search Notes</i> 	Application/Control No. 16/145,265	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	07/15/2019	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
Reviewed parent cases	07/15/2019	AB
Searched EAST (US-PGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB)	07/15/2019	AB
Conducted Inventor Name Search	07/15/2019	AB
Conducted Class/Subclass Search	07/15/2019	AB

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

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	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	McCue.in. or Shostakovsky.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 11:04
S8	0	(McCue.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 (silence or "low decibel" or gaps)	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2010/01/26 14:07

		adj (language or speech))	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	McCue.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	(McCue.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;	OR	OFF	2012/06/18 14:38

			EPO; JPO; 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	McCue.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	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/06/07 08:22

		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; 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	US-PGPUB; USPAT;	OR	ON	2017/06/07 09:24

		management) or (garbage adj collect\$5)))	EPO; JPO; 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
S94	1	"20170078357".pn.	US-PGPUB	OR	ON	2017/07/17 07:53
S95	58	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 11:58
S96	72	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 11:58
S97	0	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) same ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:14

S98	3	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) and ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:15
S99	11	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) and sync\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:16
S100	1	@ad< "20051213" and ((secondary adj content) same (ancillary or metadata or (meta adj data) or advertisements or advertising or ads or image or cover) same (primary adj content) same premium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:23
S101	56	@ad< "20051213" and ((secondary adj content) same (primary adj content) and sync\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 12:23
S102	6	@ad< "20051213" and ((secondary adj content) same (primary adj content) and ((second or other or another) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:52
S103	23	@ad< "20051213" and ((secondary adj content) same (primary adj content) and ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:53
S104	198	@ad< "20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S105	0	@ad< "20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) same ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S106	16	@ad< "20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) and ((second or other or another or multiple) adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/11 14:59
S107	0	(McCue.in. or Shostakovsky.in.) same (audio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S108	16	@ad< "20051213" and ((ancillary or metadata or (meta adj data) or advertisements or advertising or ads) same (primary adj content) and	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2018/03/05 07:46

		((second or other or another or multiple) adj device))	IBM_TDB			
S109	25	("5586264", "6621980", "20020184189", "20030091338", "20030172346", "20050061873", "20050091062", "20050111824", "20050250439", "20060236219", "20060242550", "20060271989").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S110	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/05 07:46
S111	3	("9930089", "9954922", "10091266").pn.	USPAT	OR	ON	2019/07/15 07:47
S112	1	"20190044993".pn.	US-PGPUB	OR	ON	2019/07/15 07:47
S113	27681	(download\$3 same server same list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S114	432	(client adj download\$3 same server same list)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S115	114	(client adj download\$3 same server same list same content)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:24
S116	14	(client adj download\$3 same server same list same content same (peer-to-peer or P2P (peer adj peer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 14:36
S117	1	"7984147".pn.	USPAT	OR	ON	2019/07/15 15:27
S118	26	("20010011306" "20030039210" "6006264" "6366581" "6377548" "6389448" "6446722" "6449647" "6452915" "6483805" "6487170" "6578068" "6584444" "6654363" "6779017" "6871233" "6985436").PN. OR ("7984147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 15:27
S119	252011	((service adj level adj agreement) or SLA or (quality adj service) or QoS)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:33
S120	1	"6728748".pn.	USPAT	OR	ON	2019/07/15 15:35
S121	2	((service adj level adj agreement) or SLA or (quality adj service) or QoS same (graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:39
S122	994	((service adj level adj agreement) or	US-PGPUB;	OR	ON	2019/07/15

		SLA or (quality adj service) or QoS same ((failover or fail-over or "fail over"))	USPAT; EPO; JPO; DERWENT; IBM_TDB			15:39
S123	88	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj ((failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:40
S124	15	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (affinity or sticky or stickiness)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:43
S125	129	(graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:46
S126	0	((content adj delivery adj network) or CDN) same (graceful adj (failover or fail-over or "fail over"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:48
S127	32	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (affinity or sticky or stickiness) same fail\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:50
S128	16167	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:51
S129	1503	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (degrad\$9 or slow\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:52
S130	0	(McCue.in. or Shostakovsky.in.) same (segment adj digital adj content)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:53
S131	14	709/217.ccls. and (book adj mark) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:53
S132	22	((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:54
S133	2997	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (P2P or peer-to-peer or ("peer to peer"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 15:57
S134	73	((service adj level adj agreement) or	US-PGPUB;	OR	ON	2019/07/15

		SLA or (quality adj service) or QoS) adj (P2P or peer-to-peer or ("peer to peer"))	USPAT; EPO; JPO; DERWENT; IBM_TDB			15:58
S135	0	(P2P or peer-to-peer or ("peer to peer")) adj (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:06
S136	9	((content adj delivery adj network) or CDN) same (degrad\$9 or slow\$5) same (rerout\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:06
S137	16	("20050021694" "20060291504" "20080151746" "20110055316" "20110082924" "20110314130" "20120233228" "20130198328" "20140074961" "20140089465" "20140215018" "20150381678" "6654361" "8495675" "8532070" "8959067").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 16:07
S138	585	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5) same segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:09
S139	4	((service adj level adj agreement) or SLA or (quality adj service) or QoS) same (degrad\$9 or slow\$5) adj segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:10
S140	25	connection same (degrad\$9 or slow\$5) adj segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:13
S141	67	connection adj (degrad\$9 or slow\$5) same segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/15 16:13
S142	0	audio-pod.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:32
S143	57063	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:33
S144	10739	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same switch\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:36
S145	30	@ad<"20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same switch\$3 adj	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2019/07/16 07:37

		server)	DERWENT; IBM_TDB			
S146	27	@ad< "20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same chang\$3 adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 07:55
S147	214	@ad< "20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S148	0	@ad< "20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) adj (new adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15
S149	125	@ad< "20051213" and (((service adj level adj agreement) or SLA or (quality adj service) or QoS) same ((new or different) adj server))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/07/16 08:15

7/ 17/ 2019 3:58:43 PM

C:\Users\abaturay\Alicia's Documents\EAST Searches\16145265-NaturalLanguageAudioGapsAudioOnDemandCON6.wsp

Bibliographic Data

Application No: 16/145,265

Foreign Priority claimed: ☐ Yes ☒ No

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

☐ Met After Allowance

Verified and Acknowledged: /ALICIA BATURAY/

Examiner's Signature

Initials

Title:

METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/28/2018	709	2441	141-1 US CON6
RULE			

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 15358354 11/22/2016 PAT 10091266

15358354 is a CON of 15054756 02/26/2016 PAT 9954922

15054756 is a CON of 14924028 10/27/2015 PAT 9930089

14924028 is a DIV of 14250591 04/11/2014 PAT 9203884

14250591 is a CON of 13588084 08/17/2012 PAT 8738740

13588084 is a CON of 12096933 06/11/2008 PAT 8285809

12096933 is a 371 of PCT/CA2006/002046 12/12/2006

PCT/CA2006/002046 has PRO of 60749632 12/13/2005

FOREIGN APPLICATIONS

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24949
TEITELBAUM BOUEVITCH & MCLACHLEN
834 Colonel By Drive
Ottawa, ON K1S 5C4
CANADA



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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.

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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 <https://portal.uspto.gov/pair/PublicPair>. 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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/145,265			
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OR 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	75		N/A			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	330		N/A			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A			
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *	x 50 =	0.00	OR				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *	x 230 =	0.00					
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	785		TOTAL			
APPLICATION AS AMENDED - PART II									
AMENDMENT A	(Column 1)	(Column 2)	(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
		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	=	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	x	=
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
					TOTAL ADD'L FEE		TOTAL ADD'L FEE		
AMENDMENT B	(Column 1)	(Column 2)	(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
		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	=	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	x	=
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
					TOTAL ADD'L FEE		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.									



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/145,265	09/28/2018	2447	785	141-1 US CON6	20	2

CONFIRMATION NO. 3815

FILING RECEIPT

24949

TEITELBAUM BOUEVITCH & MCLACHLEN

834 Colonel By Drive

Ottawa, ON K1S 5C4

CANADA



CC00000103373207

Date Mailed: 10/29/2018

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 15/358,354 11/22/2016 PAT 10091266
which is a CON of 15/054,756 02/26/2016 PAT 9954922
which 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: 10/25/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/145,265**

Projected Publication Date: 02/07/2019

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

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.

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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>.

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NOT GRANTED

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: McCue et al. OUR FILE NO: 141-1 US CON6
SERIAL NUMBER: New Application GROUP: New Application
FILED: Herewith EXAMINER: New Application
TITLE: METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

Information Disclosure Statement #1

September 27, 2018

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 Bouevitch & McLachlen
Registered Patent and Trademark Agents Limited
834 Colonel By Drive
Ottawa, Ontario
Canada
K1S 5C4

Tel: (613) 523 3784
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/mdb

Form PTO 1449A U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	ATTY. DOCKET NUMBER: 141-1 US CON6	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	
		7,624,337	Nov 24, 2009	Sull	715	201	
		7,721,301	May 18, 2010	Wong et al	719	322	
		7,899,915	Mar 1, 2011	Reisman	709	228	
		7,984,147	Jul 19, 2011	Daoud et al	709	226	
		8,392,528	Mar 5, 2013	Kreitzer et al.	709	218	
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		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	
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		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
		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
		"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>		



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Johnson, Lucy Elizabeth
Murgitroyd & Company
Scotland House
165-169 Scotland Street
Glasgow G5 8PL
ROYAUME UNI

Date

10.02.16

106866.EP.01	
Reference G162106.00.01	Application No./Patent No. 06840473.0 - 1853 / 1961154 PCT/CA2006002046
Applicant/Proprietor Audio Pod Inc.	

Communication

The extended European search report is enclosed.

The extended European search report includes, pursuant to Rule 62 EPC, the supplementary European search report (Art. 153(7) EPC) and the European search opinion.

Copies of documents cited in the European search report are attached.

☒ 1 additional set(s) of copies of such documents is (are) enclosed as well.

Refund of the search fee

If applicable under Article 9 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.

Should you wish to further prosecute this application in the examination phase, your attention is drawn to the provisions of Rule 70a EPC. An invitation to respond to the extended European search report will be issued shortly (R. 70(2) EPC).



**SUPPLEMENTARY
EUROPEAN SEARCH REPORT**

Application Number
EP 06 84 0473

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2005/245243 A1 (ZUNIGA MICHAEL A [US]) 3 November 2005 (2005-11-03) * paragraphs [0015] - [0017], [0019] - [0021], [0045], [0054] - [0055]; figure 2 *	1-5	INV. H04L12/16 G10L15/08 G10L21/00 H04L29/06 G10L25/78
X	WO 01/58165 A2 (STREAMINGTEXT INC [US]; ANGELL PHILIP S [US]; HAQUE MOHAMMAD A [US]; L) 9 August 2001 (2001-08-09) * page 20, line 5 - line 14 * * page 45, line 5 - line 8 * * figures 1,5B,8 *	1-5	
A	DELACOURT P ET AL: "DISTBIC: A speaker-based segmentation for audio data indexing", SPEECH COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 32, no. 1-2, 1 September 2000 (2000-09-01), pages 111-126, XP004216249, ISSN: 0167-6393, DOI: 10.1016/S0167-6393(00)00027-3 * paragraph [04.1] *	1-5	
X	EP 1 463 258 A1 (MOBILE INTEGRATED SOLUTIONS LT [IE]) 29 September 2004 (2004-09-29) * paragraphs [0005] - [0007], [0010], [0022], [0035] - [0036]; claim 12 *	6-11, 13-15	
A	WO 02/08948 A2 (VIVCOM INC [US]; SULL SANGHOON [KR]; KIM HYEOKMAN [KR]; CHOI HYUNGSEOK) 31 January 2002 (2002-01-31) * the whole document *	6-11, 13-15	TECHNICAL FIELDS SEARCHED (IPC) H04L G10L
The supplementary search report has been based on the last set of claims valid and available at the start of the search. -/--			
Place of search The Hague		Date of completion of the search 3 February 2016	Examiner Mannekens, Jan
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

2
EPO FORM 1503 03.82 (P04C04)

**SUPPLEMENTARY
EUROPEAN SEARCH REPORT**

Application Number
EP 06 84 0473

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	WO 02/080524 A2 (KONINKL PHILIPS ELECTRONICS NV [NL]) 10 October 2002 (2002-10-10) * page 3, line 18 - line 24 * -----	6-11, 13-15	
			TECHNICAL FIELDS SEARCHED (IPC)
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search The Hague		Date of completion of the search 3 February 2016	Examiner Mannekens, Jan
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

2
EPO FORM 1503 03.82 (P04C04)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 84 0473

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

03-02-2016

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005245243	A1	03-11-2005	NONE
WO 0158165	A2	09-08-2001	AU 3326901 A 14-08-2001 WO 0158165 A2 09-08-2001
EP 1463258	A1	29-09-2004	NONE
WO 0208948	A2	31-01-2002	AU 8300401 A 05-02-2002 KR 20050002681 A 10-01-2005 KR 20070103728 A 24-10-2007 US 2002069218 A1 06-06-2002 US 2007033170 A1 08-02-2007 US 2007033292 A1 08-02-2007 US 2007033515 A1 08-02-2007 US 2007033521 A1 08-02-2007 US 2007033533 A1 08-02-2007 US 2007038612 A1 15-02-2007 US 2007044010 A1 22-02-2007 US 2011093492 A1 21-04-2011 WO 0208948 A2 31-01-2002
WO 02080524	A2	10-10-2002	CN 1520561 A 11-08-2004 EP 1421780 A2 26-05-2004 JP 2004526372 A 26-08-2004 KR 20030007736 A 23-01-2003 US 2002163532 A1 07-11-2002 WO 02080524 A2 10-10-2002

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED		
First Named Inventor/Applicant Name:		John McCue		
Filer:		Neil Teitelbaum/Melanie Budarick		
Attorney Docket Number:		141-1 US CON6		
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	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
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 (\$)				785

Electronic Acknowledgement Receipt

EFS ID:	33857066
Application Number:	16145265
International Application Number:	
Confirmation Number:	3815
Title of Invention:	METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED
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 CON6
Receipt Date:	28-SEP-2018
Filing Date:	
Time Stamp:	09:30:38
Application Type:	Utility under 35 USC 111(a)

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Payment was successfully received in RAM	\$ 785
RAM confirmation Number	092818INTEFSW09314900
Deposit Account	502810
Authorized User	Neil Teitelbaum

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37 CFR 1.16 (National application filing, search, and examination fees)

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37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	141-1USCON6ADS.pdf	76643	no	2
			708a6a2299cbd9a01fb96e452180fdb8179a06d		

Warnings:

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2	Oath or Declaration filed	141-1USCON6DeclarationSigned.pdf	323224	no	3
			c57ca4ce9a2fd024c47d61d658ca3e5c3b9fb247		

Warnings:

Information:

3	Oath or Declaration filed	141-1USCON6SubstituteStatementGreg.pdf	315263	no	2
			9e7d126e1cd81e22d84987db4354f1831ad270c8		

Warnings:

Information:

4		141-1USCON6SpecificationFINAL.pdf	172721	yes	28
			1d3b788f3b414cd6dc1ae5b4cd5d47f06751f5a		

Multipart Description/PDF files in .zip description

	Document Description	Start	End
	Abstract	28	28
	Claims	25	27
	Specification	1	24

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5	Drawings-only black and white line drawings	141-1USCON6FiguresFINAL.pdf	147686	no	15
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Warnings:					
Information:					
6	Transmittal Letter	141-1USCON6IDS1.pdf	128176	no	4
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7	Foreign Reference	EP1463258A1.pdf	1076656	no	18
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11	Non Patent Literature	EPUBMediaOverlays30.pdf	584080	no	35
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12	Non Patent Literature	DelacourtSpeechCommunication.pdf	1364863 fb52457a0a8a89de8a683196b734b0c55be53a0a	no	16
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13	Non Patent Literature	Arons_SpeechSkimmer.pdf	2329871 e2e075c1438606efd84227c6b5f76427936117c3	no	36
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Information:					
14	Other Reference-Patent/App/Search documents	141-1EPPCTcopyofEESR.pdf	162273 3227b0f9292d609c7d983e502817d0db6f14940a	no	4
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Information:					
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Total Files Size (in bytes):			26878982		
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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 CON6
Filing Date: New	:	

For: **METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED**

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, Canada

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

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 OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED**

Attorney Docket No.: 141-1 US CON6

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. Patent Application Serial No. 15/358,354, filed on November 22, 2016, which is a continuation of U.S. Pat. Appln No. 15/054,756 filed on February 26, 2016, which 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 U.S. Provisional Appln. No. 60/749,632 filed on 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, Canada
Citizenship: Canada

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

September 27, 2018

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

Teitelbaum Bouevitch & McLachlen
834 Colonel By Drive
Ottawa, ON
K1S 0R8 Canada
Phone: 613-302-2273
Fax: 613-523-6799
E-mail: nt@patents.org

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Title of Invention: METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

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.

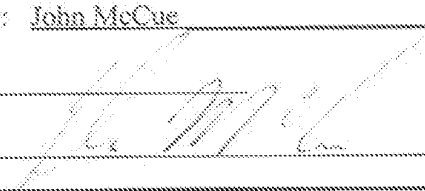
The above-identified application was made or authorized to be made by me.

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 (613) 302-2273. 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:	<u>John McCue</u>
Date (Optional):	
Signature of Inventor:	

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Title of Invention: METHOD OF DOWNLOADING DIGITAL INFORMATION TO THE
RENDERED

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 24997. Direct all telephone calls to Peter Reinhardt at (616) 462-5577. Address all correspondence to the address associated with Customer Number 24997.

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 OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

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.

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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 (613) 302-2273. 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: Glen McCue

Date (Optional): _____

Signature of Inventor: Glen McCue

**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 OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

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]

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:

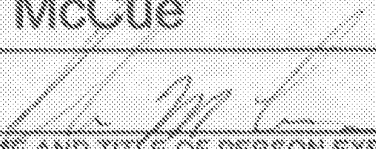
- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

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 identify 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**SEPT 10 2018
Date (Optional)Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer.

Audio Pod Inc.

Applicant Name:

Title of Person Executing
The 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	Zip	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.

ABSTRACT

A method of downloading digital content to be rendered is provided in which a list of content servers that are capable of serving requested digital content is downloaded from a network accessible server. Service level statistics are tracked for the content servers in the list of content servers. A first content server to serve the requested digital content is selected from the list of content servers in dependence upon the service level statistics. A first segment of the requested digital content is downloaded from the first content server for rendering. In the event of a degradation in service, a second content server to replace the first content server is selected from the list of content servers in dependence upon the service level statistics, wherein the server replacement is substantially imperceptible. A second segment of the requested digital content is downloaded from the second content server for rendering.

CLAIMS

1. A method of downloading digital content to be rendered, comprising:
downloading from a network accessible server to a client device a list of content servers that are capable of serving requested digital content;
tracking service level statistics for the content servers in the list of content servers;
selecting a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics;
downloading a first segment of the requested digital content from the first content server to the client device for rendering;
in the event of a degradation in service from the first content server, selecting a second content server to replace the first content server in serving the requested digital content from the list of content servers in dependence upon the service level statistics, wherein the server replacement is substantially imperceptible; and
downloading a second segment of the requested digital content from the second content server to the client device for rendering.
2. The method of claim 1, wherein the service level statistics include operational service levels.
3. The method of claim 1, wherein the service level statistics include data throughput levels.
4. The method of claim 1, wherein the service level statistics include connection metrics or disconnection metrics.
5. The method of claim 1, wherein the service level statistics are updated during the downloading of the first segment.
6. The method of claim 1, further comprising successively rendering the first and second segments on the client device, wherein the server replacement does not cause an interruption in the successive rendering of the first and second segments.
7. The method of claim 1, wherein the first content server consists of one or more server devices.

8. The method of claim 1, further comprising tracking service level statistics related to a connection established between the client device and the first content server.

9. The method of claim 1, wherein the requested digital content is a digital media stream that includes the first and second segments.

10. The method of claim 1, wherein the requested digital content includes audio content, audio/video content, video content, text content, static image content, moving image content, user-entered content, advertising content, or a combination thereof.

11. A non-transitory computer-readable storage medium having stored thereon instructions which, when executed by a processor of a computing device, cause the computing device to:
download from a network accessible server a list of content servers that are capable of serving requested digital content;
track service level statistics for the content servers in the list of content servers;
select a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics;
download a first segment of the requested digital content from the first content server for rendering;
in the event of a degradation in service from the first content server, select a second content server to replace the first content server in serving the requested digital content from the list of content servers in dependence upon the service level statistics, wherein the server replacement is substantially imperceptible; and
download a second segment of the requested digital content from the second content server for rendering.

12. The computer-readable storage medium of claim 11, wherein the service level statistics include operational service levels.

13. The computer-readable storage medium of claim 11, wherein the service level statistics include data throughput levels.

14. The computer-readable storage medium of claim 11, wherein the service level statistics include connection metrics or disconnection metrics.

15. The computer-readable storage medium of claim 11, wherein the service level statistics are updated during the downloading of the first segment.

16. The computer-readable storage medium of claim 11, wherein the instructions, when executed by the processor, further cause the computing device to successively render the first and second segments on the client device, and wherein the server replacement does not cause an interruption in the successive rendering of the first and second segments.

17. The computer-readable storage medium of claim 11, wherein the first content server consists of one or more server devices.

18. The computer-readable storage medium of claim 11, wherein the instructions, when executed by the processor, further cause the computing device to track service level statistics related to a connection established between the client device and the first content server.

19. The computer-readable storage medium of claim 11, wherein the requested digital content is a digital media stream that includes the first and second segments.

20. The computer-readable storage medium of claim 11, wherein the requested digital content includes audio content, audio/video content, video content, text content, static image content, moving image content, user-entered content, advertising content, or a combination thereof.

METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application Serial No. 15/358,354, filed on November 22, 2016, which is a continuation of U.S. Pat. Appln No. 15/054,756 filed on February 26, 2016, which 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 U.S. Provisional Appln. No. 60/749,632 filed on 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] An aspect of the present invention relates to a method of downloading digital content to be rendered, comprising: downloading from a network accessible server to a client device a list of content servers that are capable of serving requested digital content; tracking service level statistics for the content servers in the list of content servers; selecting a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics; downloading a first segment of the requested digital content from the first content server to the client device for rendering; in the event of a degradation in service from the first content server, selecting a second content server to replace the first content server in serving the requested digital content from the list of content servers in dependence upon the service level statistics, wherein the server replacement is substantially imperceptible; and downloading a second segment of the requested digital content from the second content server to the client device for rendering.

[0014] Another aspect of the present invention relates to a non-transitory computer-readable storage medium having stored thereon instructions which, when executed by a processor of a computing device, cause the computing device to: download from a network accessible server a list of content servers that are capable of serving requested digital content; track service level statistics for the content servers in the list of content servers; select a first content server to serve the requested digital content from the list of content servers in dependence upon the service level statistics; download a first segment of the requested digital content from the first content server for rendering; in the event of a degradation in service from the first content server, select a second content server to replace the first content server in serving the requested digital content from the list of content servers in dependence upon the service level statistics, wherein the server replacement is substantially imperceptible; and download a second segment of the requested digital content from the second content server for rendering.

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 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.

Information Type	Content
Administrative	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.
Announcements	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.
Server List	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.
Performance History	Contains a list of historical throughput performance and failure rate metrics for the library primary and mirror sites. Present only on the client platform.
Updates	Contains the actual files and information needed to perform network-based updates while online using automated routines provided.
Catalog Index	Contains the cross-reference information needed to access subordinate catalog indexes and to access virtual audio stream descriptors.
Virtual	Contains information, structures and files used to provide

Reference	access to and delivery of specific audio streams.
Bookmark	Contains the information needed to restart a specific audio stream at a specific point.
Virtual Audio Stream Descriptor	Contains the information that describes all aspects of an audio stream and the information needed to access and use the actual audio stream.
Cover Art Image	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.
Actual audio	Contains the actual media content and supportive graphics and/or audio/video content
Actual audio Stream	Contains one or more small audio files that comprise the entire audio stream and that when played in order form a seamless audio experience.
Illustrations	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.
Ancillary	Contains other information, structures and files used in the delivery of content not considered actual content within audio streams.
Advertisements	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

[0067] 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.

[0068] 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.

Filename(s)	Contents
Static Files	
Audio Pod Directory	The directory that contains all files that are static in their existence
Spooler Directory	The directory that contains all files that are volatile in their existence
AudioPod.exe	The Audio Pod executable image
AudioPod.xml	The Audio Pod startup initialization file; in XML format
UpdateManager.exe	The Audio Pod Update Manager executable image
ServerList.xml	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
ServerStats.xml	The historical rate of response statistics for all library servers; in XML format
BookMarks.xml	The list of active bookmarks; in XML format
TheEnd.mp3	The audio stream to be played on completion of an audio stream (book)
ErrorAlert.mp3	The audio stream to play when the Audio Pod must attract the attention of the user while listening to another audio stream (book)
Volatile Files	
Small Audio Files	Audio files that make up the various open audio streams (book); in MP3 format
Cover Art Graphic Files	Graphic files that contain images of book covers; in jpg graphic format

Card Catalog Index Files	Files containing Card Catalog indexes; in XML format
Book Profiles	Files containing Book Profiles; in XML format
Announcement File	File containing a notice or announcement; in XML format
Update File	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

[0069] 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.

[0070] Ancillary or support files that are considered volatile are removed from memory.

[0071] Virtual audio streams, supporting files and related audio content for any audio stream for which there is no bookmark are deleted.

[0072] Bookmarked audio streams are purged with increasing levels of severity until the memory demands are met.

[0073] The content of dynamic memory including virtual audio stream descriptors, and supporting files are deleted, starting with the oldest.

[0074] 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.

[0075] 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.

[0076] 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.

[0077] 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.

[0078] 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.

[0079] 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.

[0080] 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.

[0081] 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.

[0082] 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.

[0083] 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.

[0084] 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.

[0085] 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.

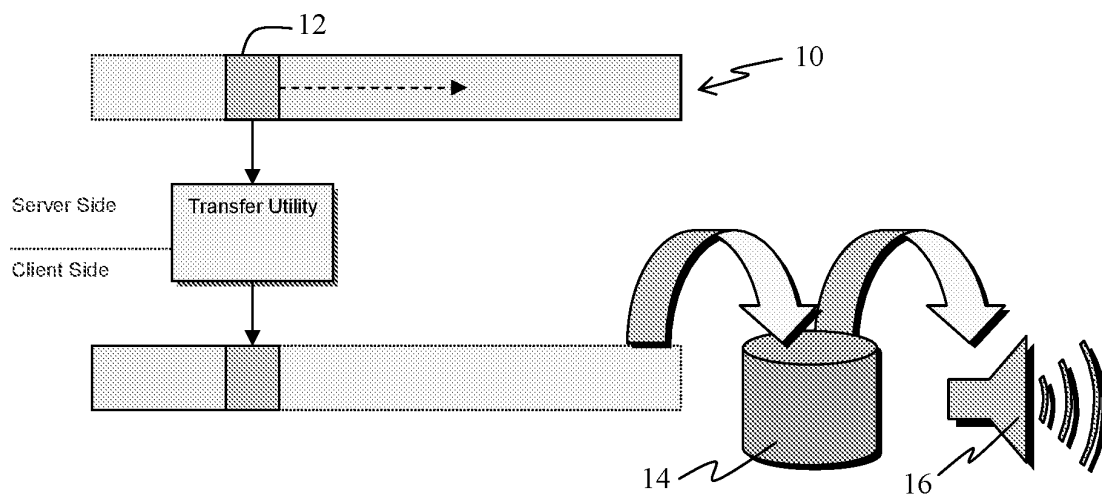
[0086] Fig. 15 provides an overview of the memory manager process in greater detail. When activated, the memory manager first checks to see if there is sufficient audio content already resident (e.g., enough for about 5 minutes play time). If there is enough content, the remainder of the audio stream 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.

[0087] 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.

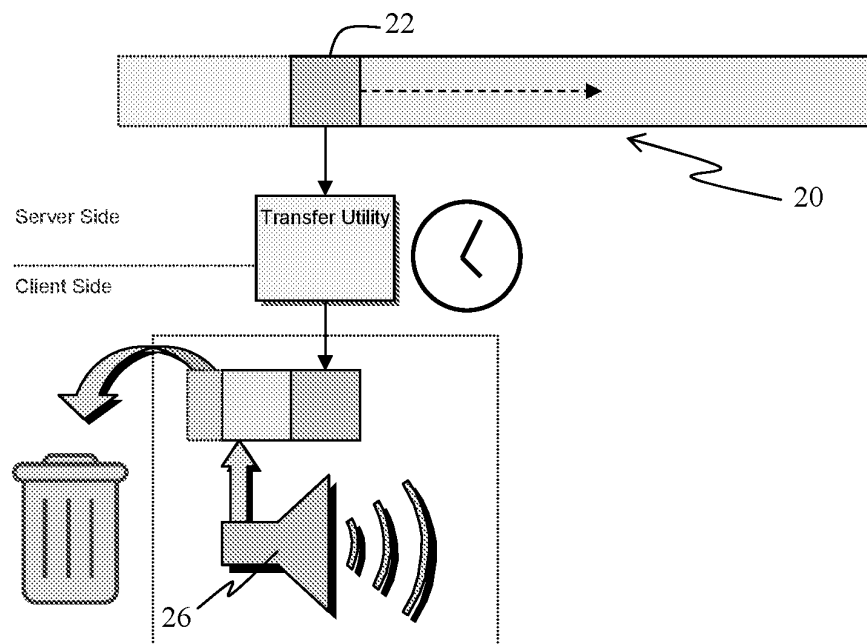
[0088] Referring to Figs. 17, 18, and 19, process flow overviews for using the software product are provided. More specifically, Fig. 17 shows an embodiment of a general process for using the software product, from start-up through various navigation steps and associated logic. A series of navigation 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.

[0089] 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.

[0090] 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



(Prior art)
Fig. 1



(Prior art)
Fig. 2

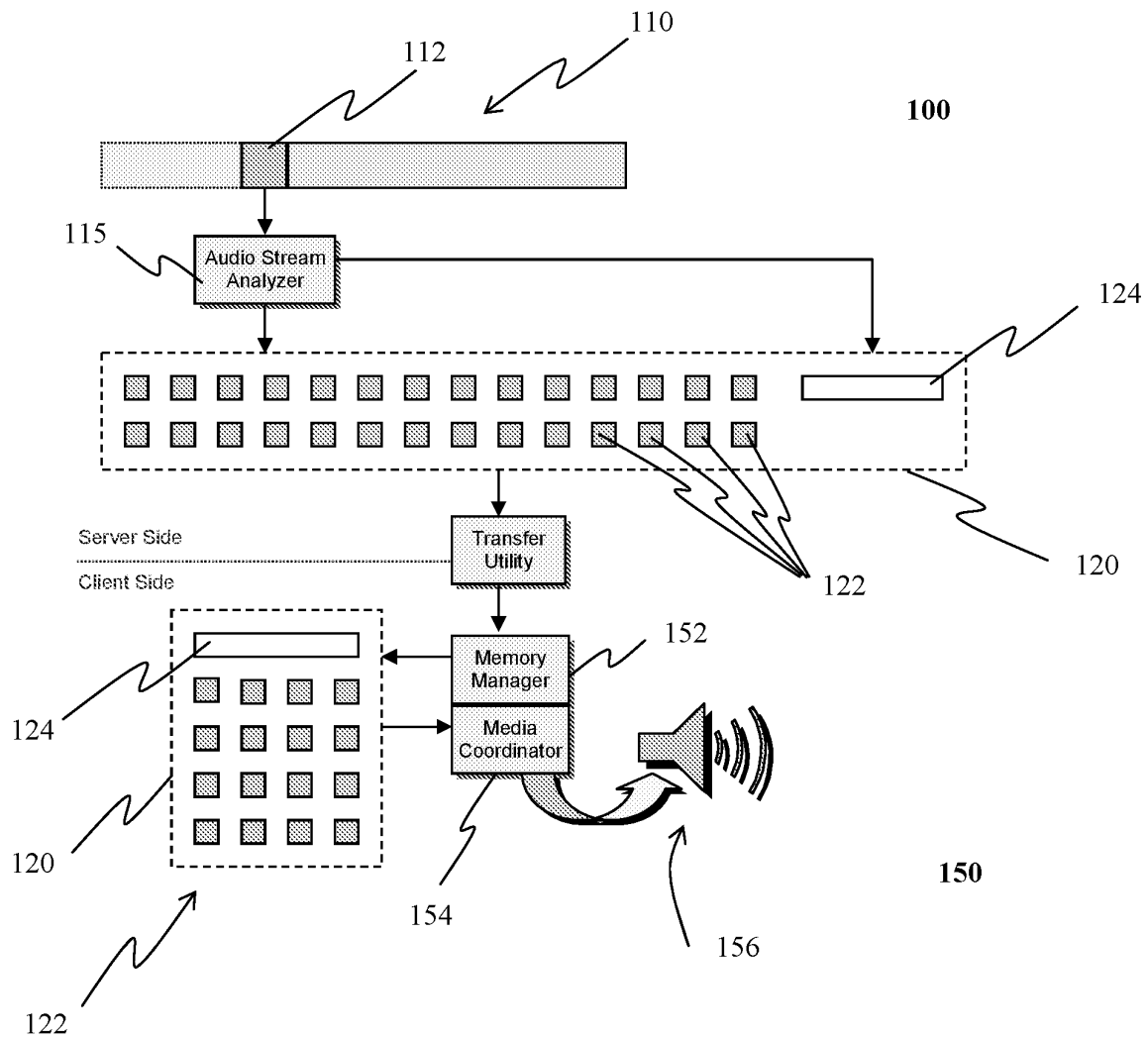


Fig. 3

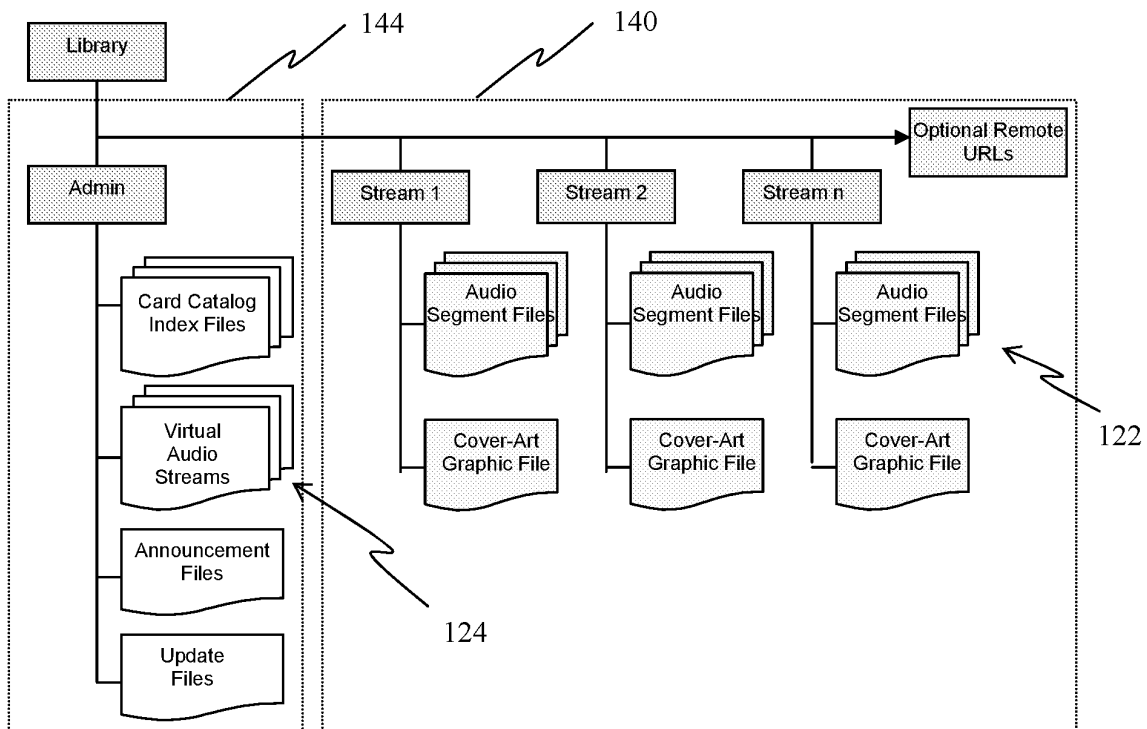


Fig. 4

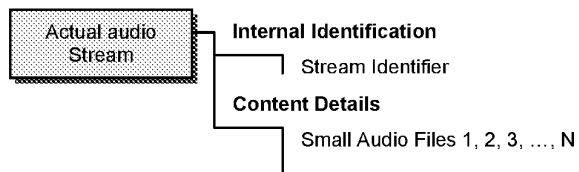


Fig. 5a

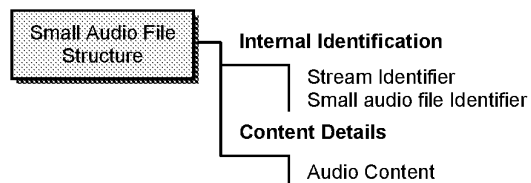


Fig. 5b

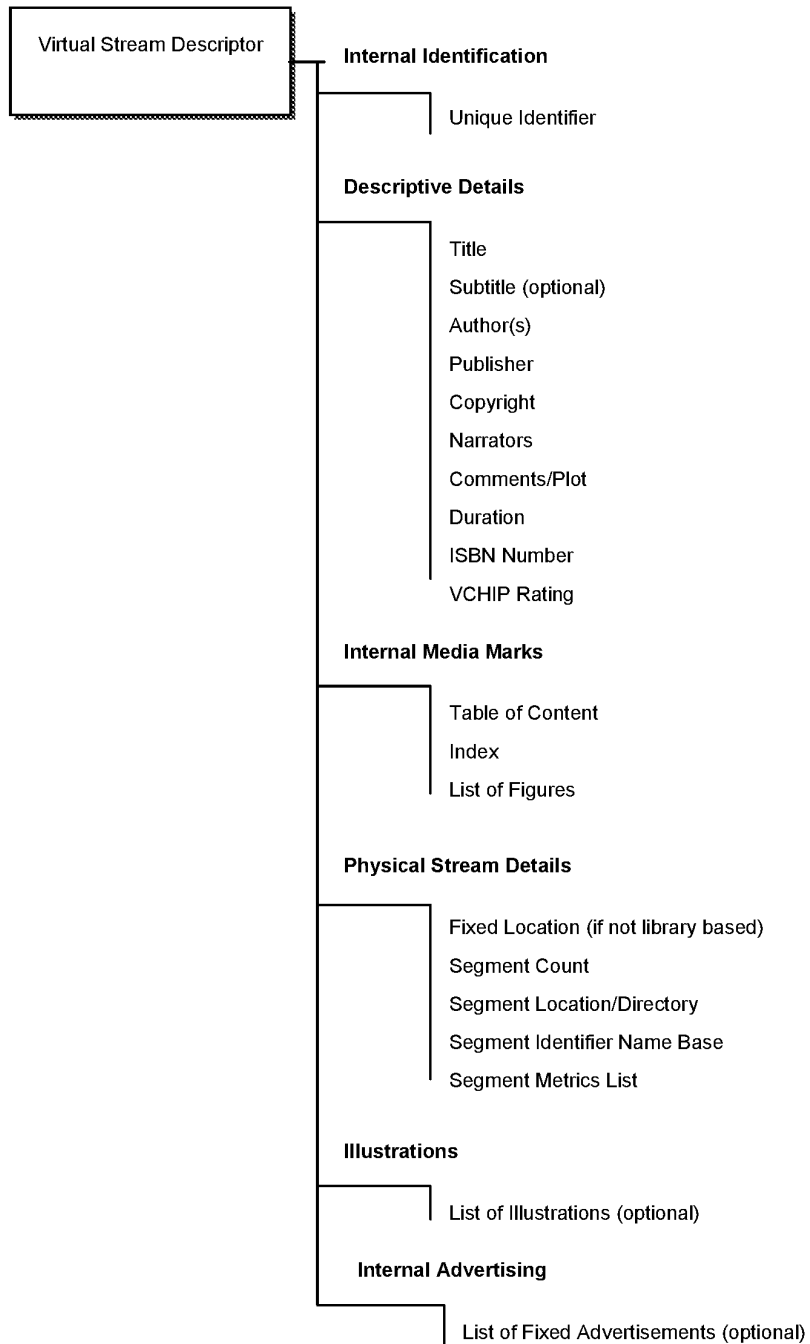


Fig. 5c

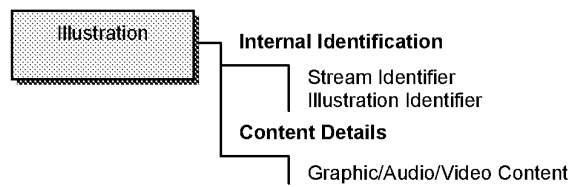


Fig. 5d

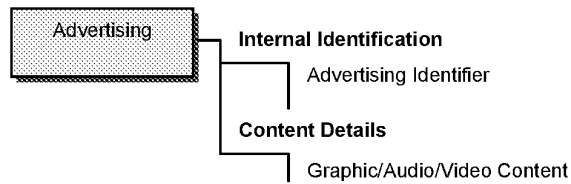


Fig. 5e

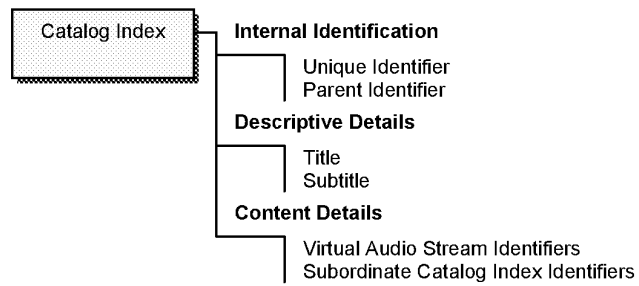


Fig. 5f

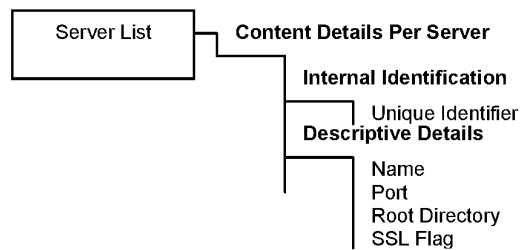


Fig. 5g

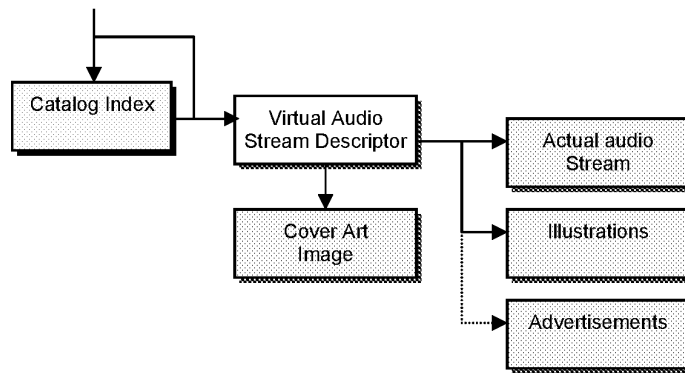


Fig. 6

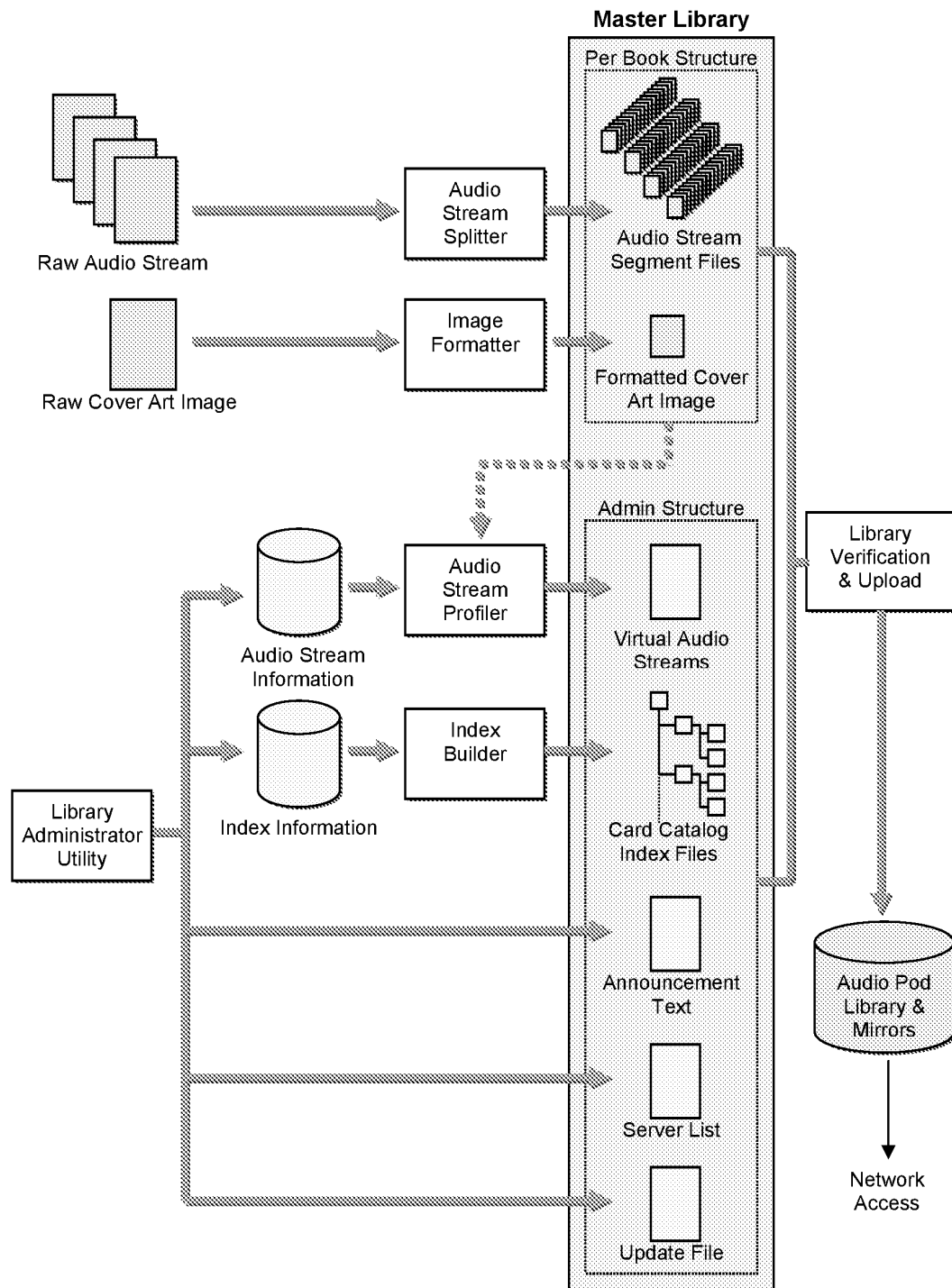


Fig. 7

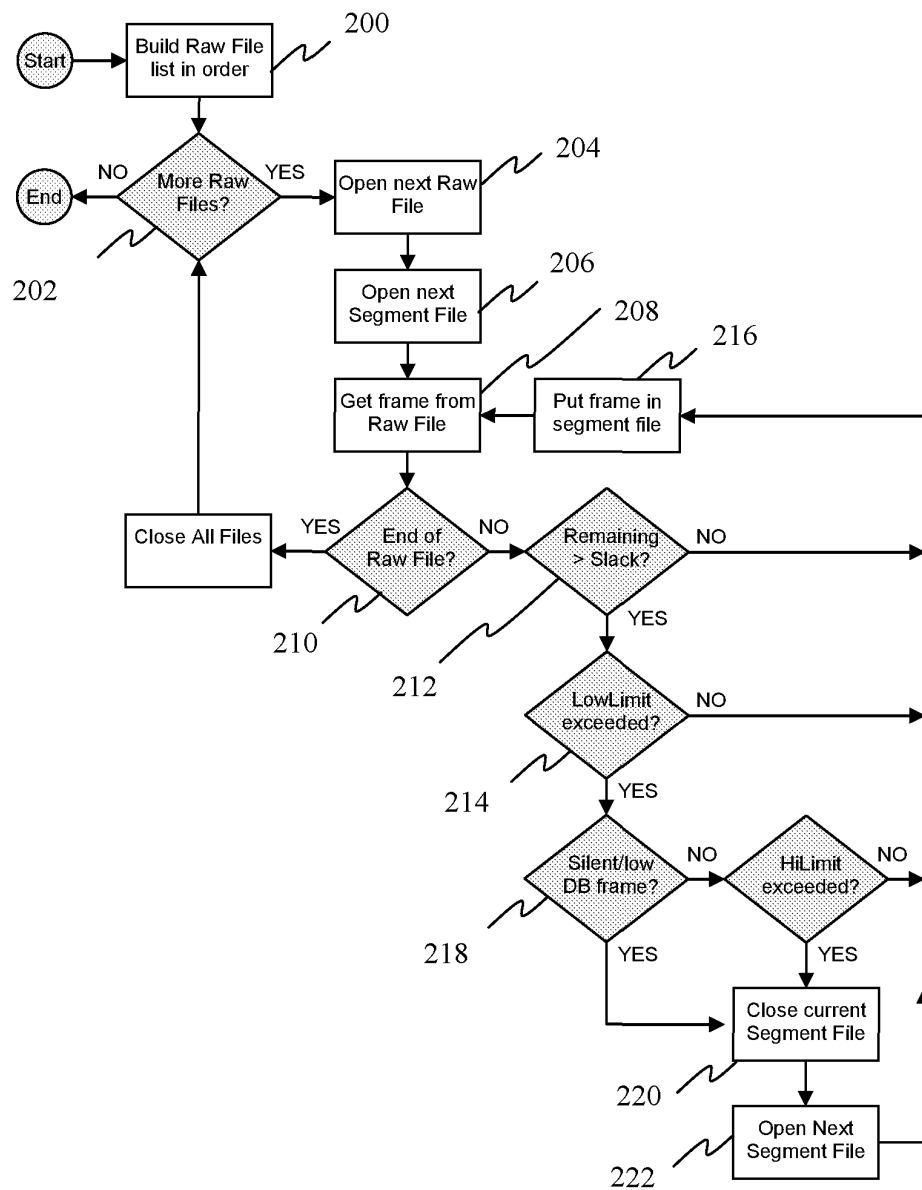


Fig. 8

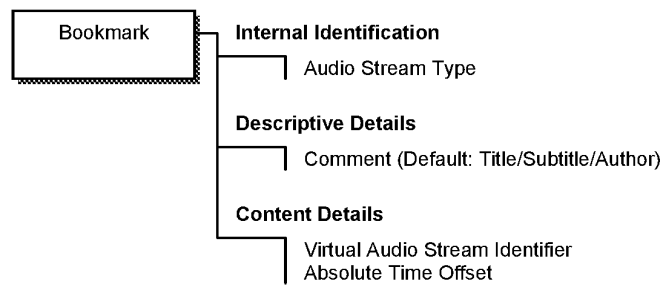


Fig. 9

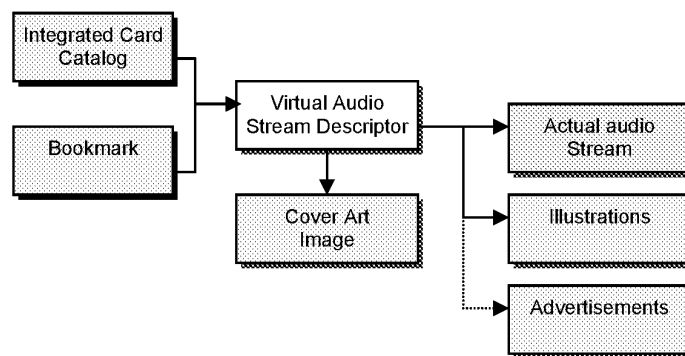


Fig. 10

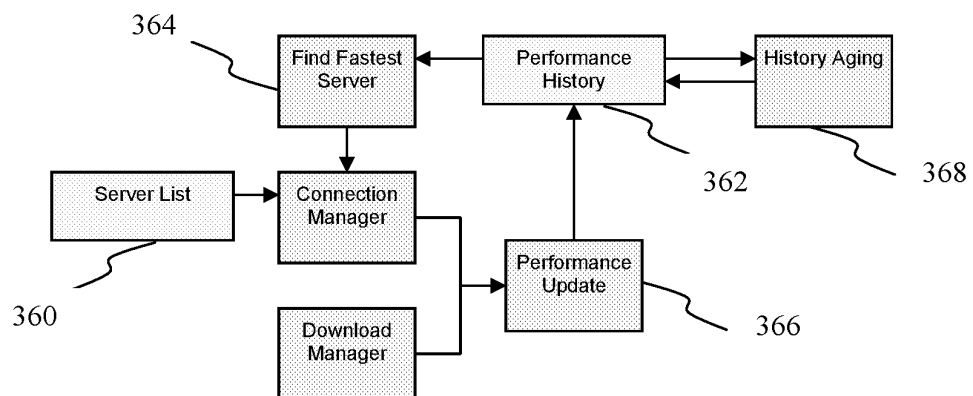


Fig. 11

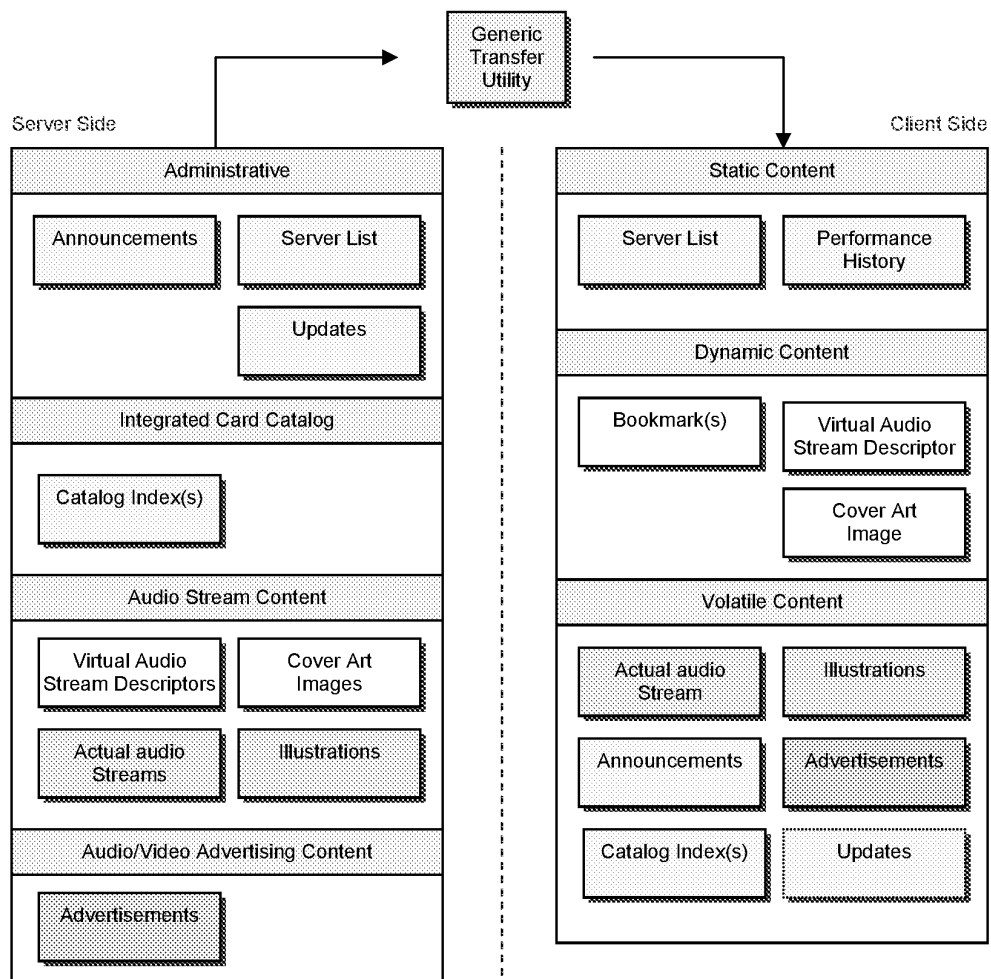


Fig. 12

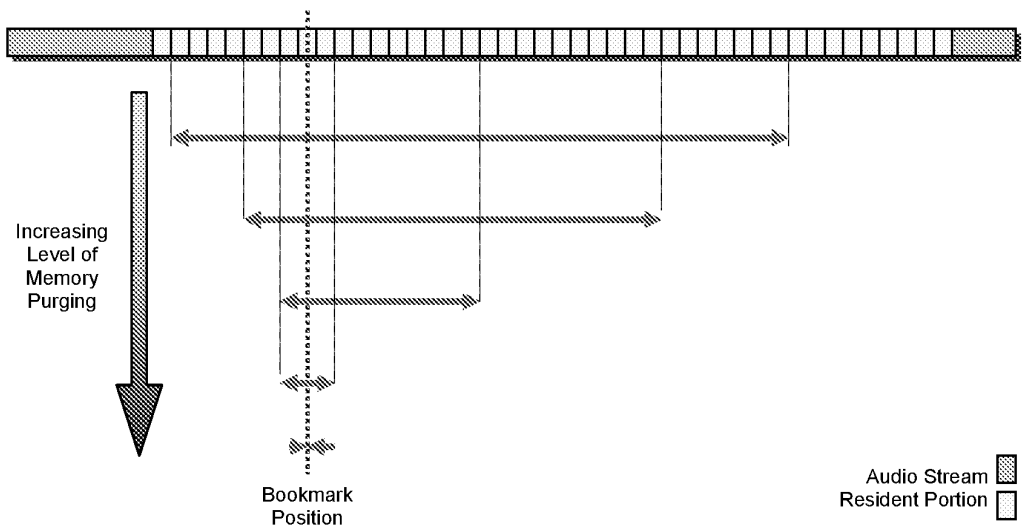


Fig. 13

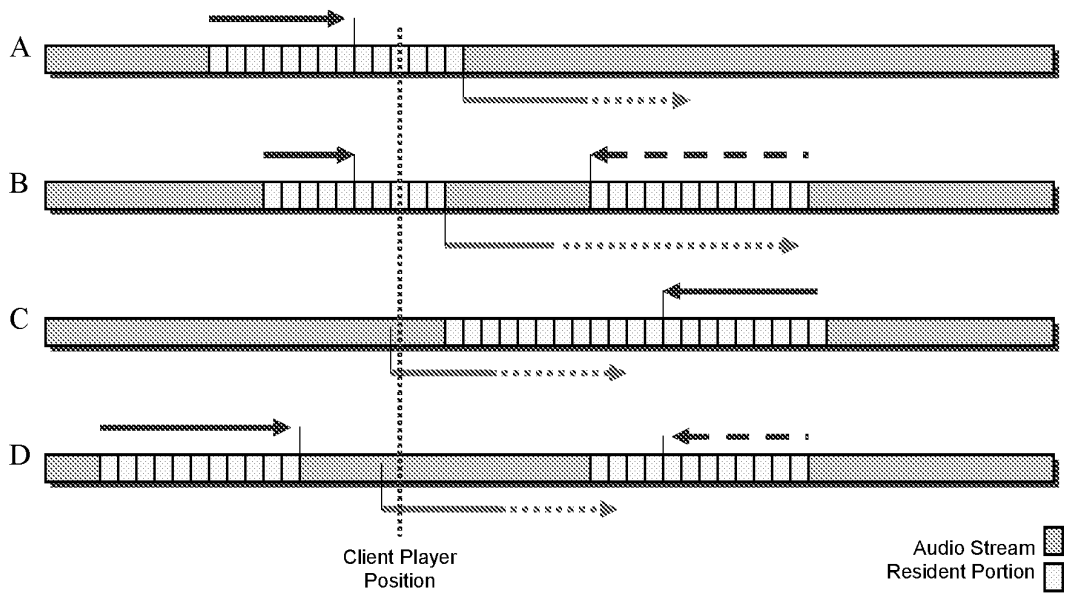


Fig. 14

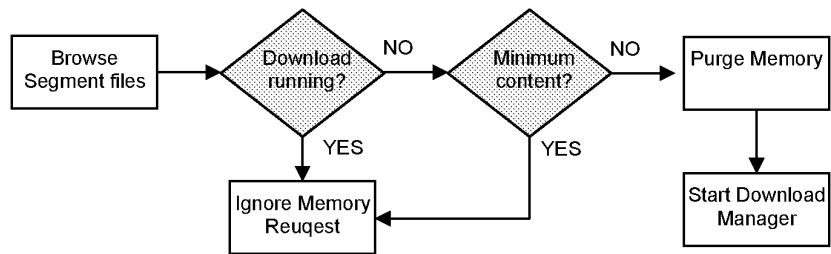


Fig. 15

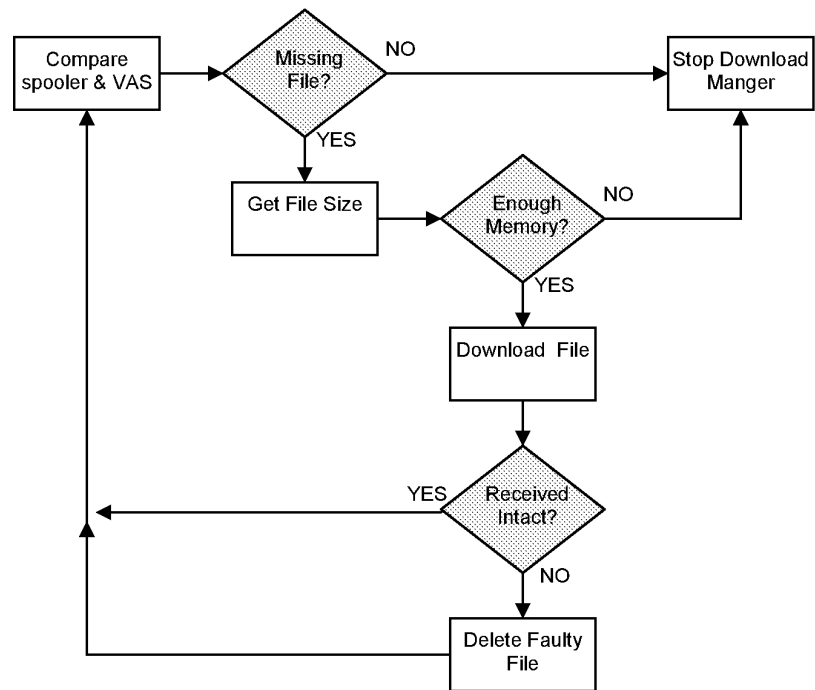


Fig. 16

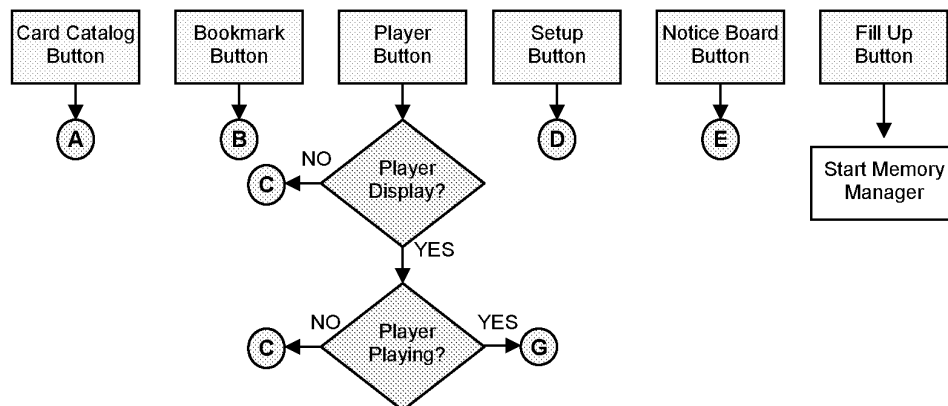
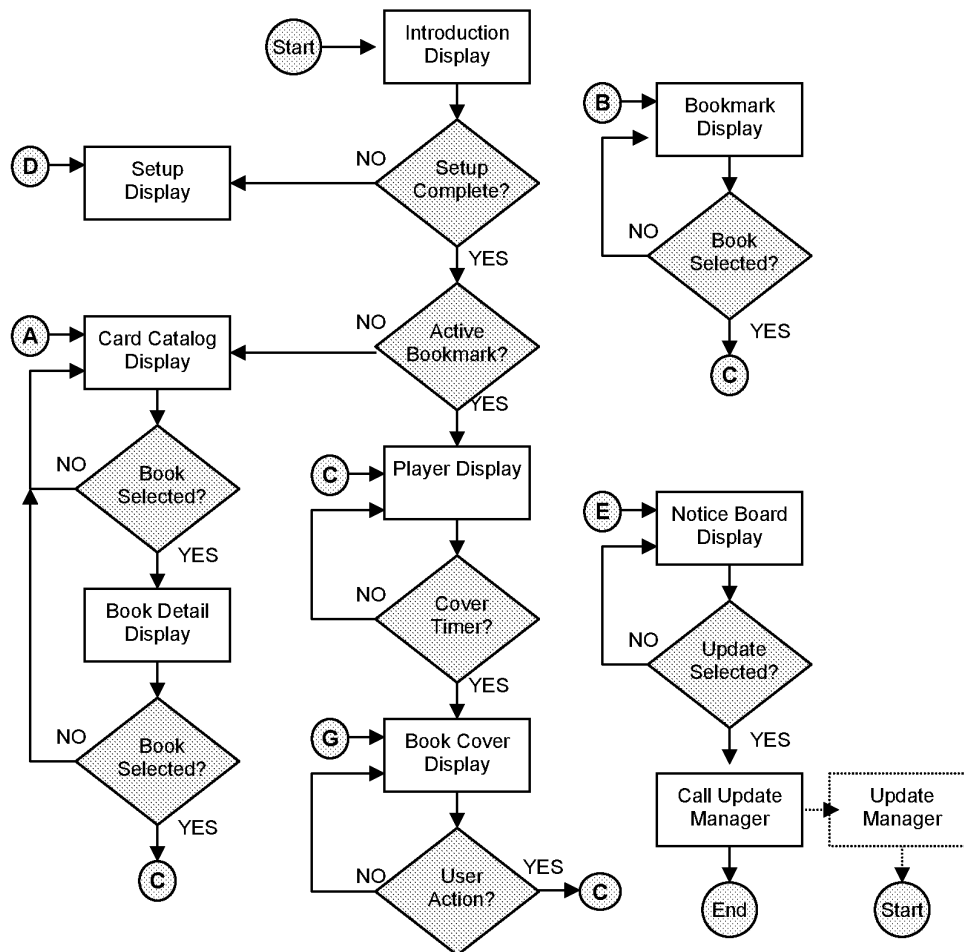


Fig. 17

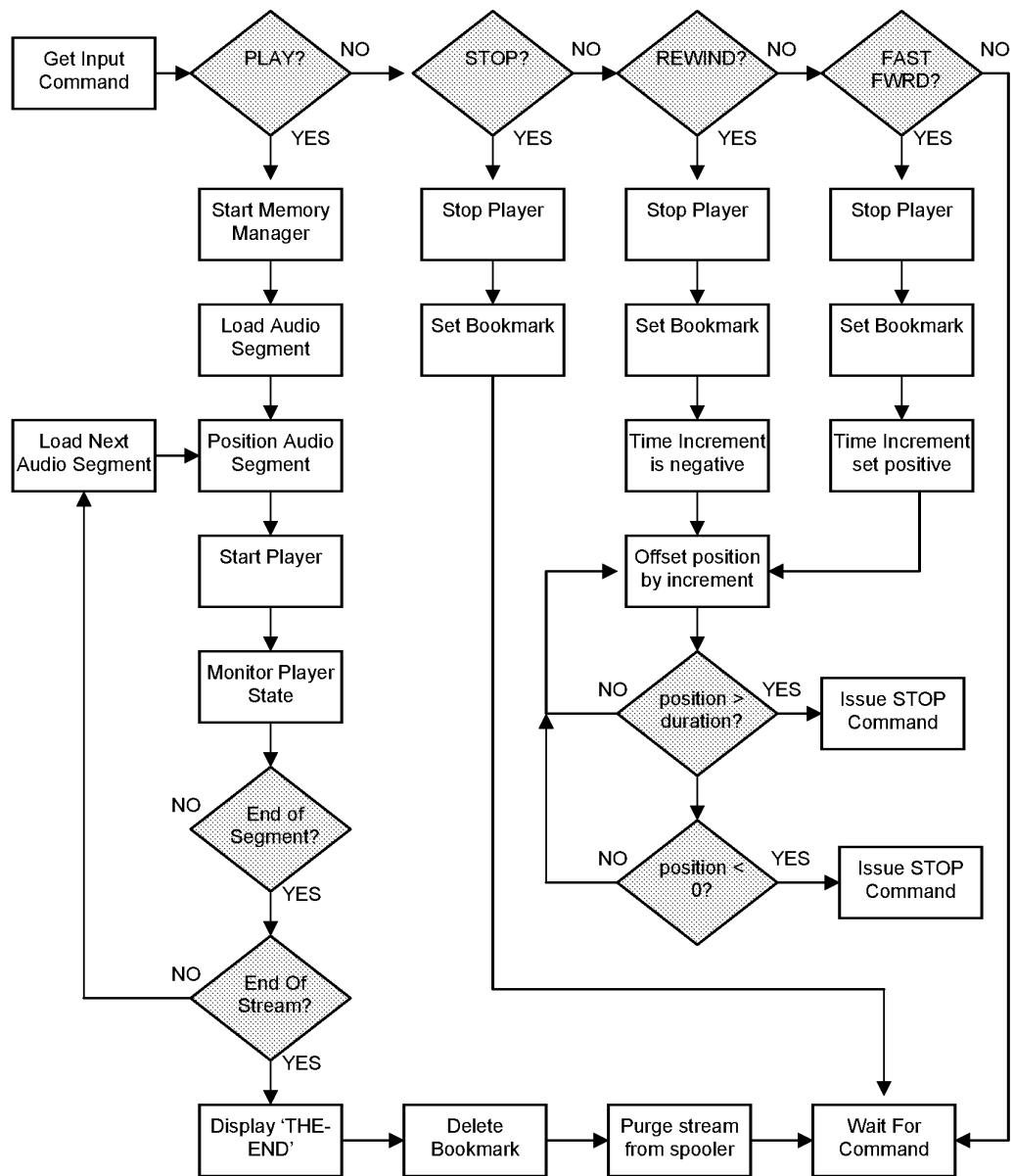


Fig. 18

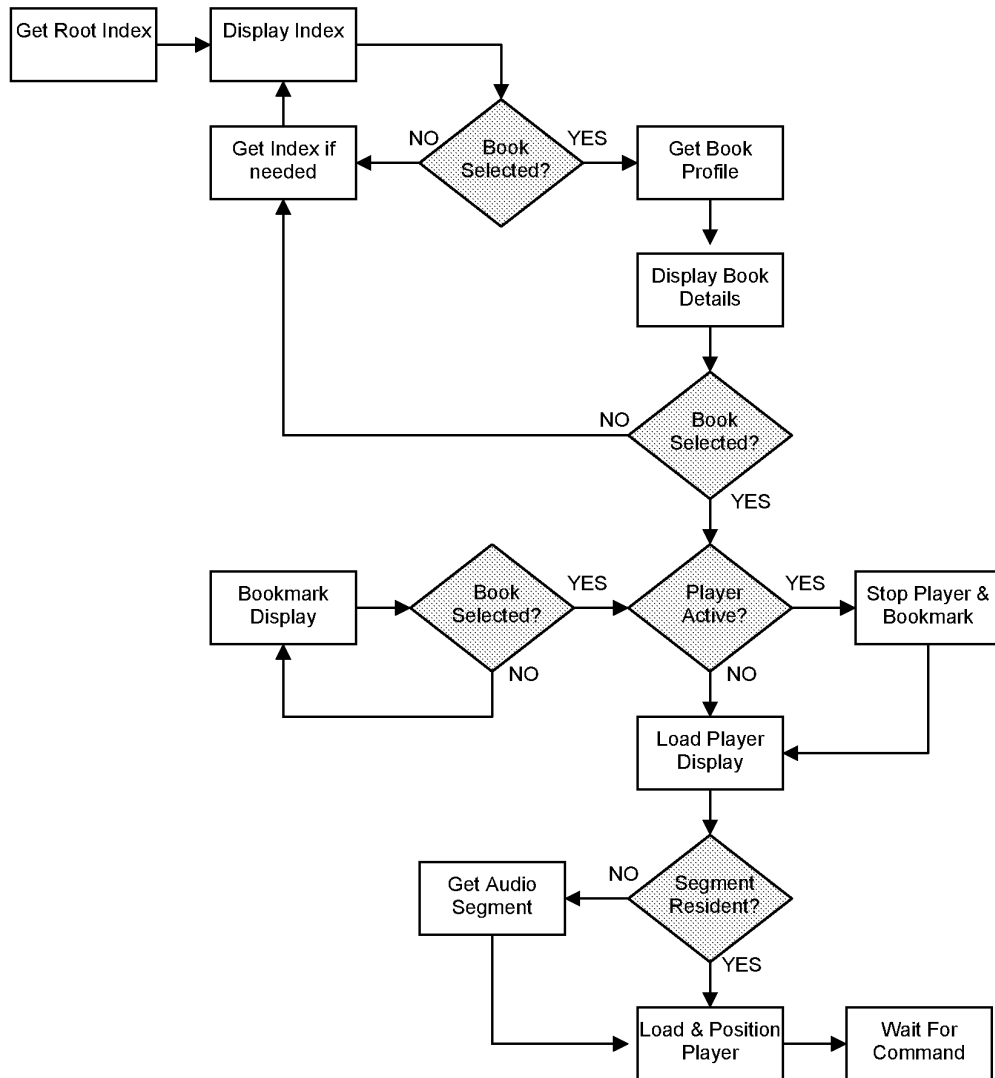


Fig. 19

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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	16/145,265
Filing Date	09/27/2018
First Named Inventor	John McCue
Title	METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	141-1 US CON6

SIGNATURE of Applicant or Patent Practitioner

Signature	/Neil Teitelbaum/	Date (Optional)	08/27/2018
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.

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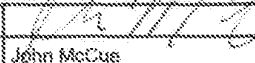
I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

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 & CTO		

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

☐ Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO in 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.

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Electronic Acknowledgement Receipt

EFS ID:	33857499
Application Number:	16145265
International Application Number:	
Confirmation Number:	3815
Title of Invention:	METHOD OF DOWNLOADING DIGITAL CONTENT TO BE RENDERED
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 CON6
Receipt Date:	28-SEP-2018
Filing Date:	
Time Stamp:	09:43:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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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	721477	no	2
			590d66c0f7a38d1acd6c717da5743256c03b2		

Warnings:

Information:	
Total Files Size (in bytes):	721477
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SCORE Placeholder Sheet for IFW Content

Application Number: 16145265

Document Date: 09/28/2018

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.

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.

- Drawing

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