8138881

THE UNITED STATES OF AMERICA

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UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

July 29, 2021

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APPLICATION NUMBER: ***16/731,510***
FILING DATE: ***December 31, 2019***
PATENT NUMBER: ***10885154***
ISSUE DATE: ***January 05, 2021***

Certified by

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

Roku EX1014
U.S. Pat. No. 9,715,581
Roku v. Media Chain

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2019-12-31
First Named Inventor	Christopher A. Estes
Art Unit	
Examiner Name	
Attorney Docket Number	ESTES-7

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6920567	B1	2005-07-19	Doherty et al.	
	2	7676437	B2	2010-03-09	Satkunanathan et al.	
	3	8151194	B1	2012-04-03	Chan et al.	
	4	8745647	B1	2014-06-03	Shin et al.	
	5	9148706	B1	2015-09-29	Shin	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020032905	A1	2002-03-14	Sherr et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	
	Filing Date	2019-12-31
	First Named Inventor	Christopher A. Estes
	Art Unit	
	Examiner Name	
	Attorney Docket Number	ESTES-7

	2	20020154157	A1	2002-10-24	Sherr et al.	
	3	20030149884	A1	2003-08-07	Hernandez et al.	
	4	20030220883	A1	2003-11-27	Block et al.	
	5	20040039916	A1	2004-02-26	Aldis et al.	
	6	20050004873	A1	2005-01-06	Pou et al.	
	7	20050060701	A1	2005-03-17	Murase	
	8	20050114265	A1	2005-05-26	Satkunanathan et al.	
	9	20050177844	A1	2005-08-11	Levi et al.	
	10	20050223415	A1	2005-10-06	Oho et al.	
	11	20060031785	A1	2006-02-09	Raciborski	
	12	20070055439	A1	2007-03-08	Denker et al.	

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	Filing Date	2019-12-31
	First Named Inventor	Christopher A. Estes
	Art Unit	
	Examiner Name	
	Attorney Docket Number	ESTES-7

	13	20070241176	A1	2007-10-18	Epstein et al.	
	14	20080027742	A1	2008-01-31	Maeda	
	15	20080243694	A1	2008-10-02	Johnson et al.	
	16	20090210245	A1	2009-08-20	Wold	
	17	20100324983	A1	2010-12-23	Etchegoyen	
	18	20110051914	A1	2011-03-03	Neuman et al.	
	19	20110213721	A1	2011-09-01	Raley et al.	
	20	20120010931	A1	2012-01-12	Mehra et al.	
	21	20120096339	A1	2012-04-19	Cohen et al.	
	22	20120109834	A1	2012-05-03	Bongiovanni et al.	
	23	20120123831	A1	2012-05-17	King et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	
	Filing Date	2019-12-31
	First Named Inventor	Christopher A. Estes
	Art Unit	
	Examiner Name	
	Attorney Docket Number	ESTES-7

	24	20120124638	A1	2012-05-17	King et al.	
	25	20120123916	A1	2012-05-17	Shintani et al.	
	26	20120303490	A1	2012-11-29	Hill et al.	
	27	20130051772	A1	2013-02-28	Ramaswamy et al.	
	28	20130047271	A1	2013-02-21	Tang	
	29	20140108029	A1	2014-04-17	Kim	
	30	20150040002	A1	2015-02-05	Kanna et al.	
	31	20030001887	A1	2003-01-02	Smith, IV	
	32	20050021398	A1	2005-01-27	McCleskey et al.	
	33	20100293622	A1	2010-11-18	Nikitin et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	
	Filing Date	2019-12-31
	First Named Inventor	Christopher A. Estes
	Art Unit	
	Examiner Name	
	Attorney Docket Number	ESTES-7

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Habermann, Online Video Analytics: YouTube Insight-Advanced Techniques, May 17, 2000.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	
	Filing Date	2019-12-31
	First Named Inventor	Christopher A. Estes
	Art Unit	
	Examiner Name	
	Attorney Docket Number	ESTES-7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Patrick J. Palascak/	Date (YYYY-MM-DD)	2019-12-31
Name/Print	Patrick J. Palascak	Registration Number	73533

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Filer:	Patrick J. Palascak/Cheryl Marley
Attorney Docket Number:	ESTES-7

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:				
CLAIMS IN EXCESS OF 20	2202	1	50	50
INDEPENDENT CLAIMS IN EXCESS OF 3	2201	1	230	230
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1065**

Electronic Acknowledgement Receipt

EFS ID:	38174265
Application Number:	16731510
International Application Number:	
Confirmation Number:	4913
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Customer Number:	43218
Filer:	Patrick J. Palascak/Cheryl Marley
Filer Authorized By:	Patrick J. Palascak
Attorney Docket Number:	ESTES-7
Receipt Date:	31-DEC-2019
Filing Date:	
Time Stamp:	13:24:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1065
RAM confirmation Number	E2019BUD24381566
Deposit Account	501438
Authorized User	Cheryl Marley
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)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	ADS.pdf	123528 bc24dd1b028075ef52777738 8f78212922b9b27a	no	8
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2	Oath or Declaration filed	Declaration.pdf	627556 726c95d33b9dfd9733b76d83abd9e545b383b7e5	no	1
Warnings:					
Information:					
3	Specification	Specification.pdf	265702 15541e88028200e5dd9776bbb3a119ef8ca4010d	no	35
Warnings:					
Information:					
4	Drawings-only black and white line drawings	Formal_Drawings.pdf	419145 c7d4d60ea89f3b11bd974d64a16ffe5a77d3b810	no	7
Warnings:					
Information:					
5	Information Disclosure Statement (IDS) Form (SB08)	IDS.pdf	621123 88d3c167d808a49a485458acc50956a0dafde8c6	no	7
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	37920 ab0537d16eae4e70162aa73f80b3174bb6cf2ed9	no	2
Warnings:					

Information:	
Total Files Size (in bytes):	2094974

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

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ESTES-7
	Application Number	
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Christopher	A.	Estes	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Miami	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

Address 1	3109 Grand Avenue		
Address 2	#503		
City	Miami	State/Province	FL
Postal Code	33133	Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	43218		
Email Address	taft-ip-docket@taftlaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING		
Attorney Docket Number	ESTES-7	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	7	Suggested Figure for Publication (if any)	

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ESTES-7
	Application Number	
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	43218		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	15898978	2018-02-19

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ESTES-7
	Application Number	
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING	

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15898978	Continuation of	15659175	2017-07-25	9898590	2018-02-20
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15659175	Continuation of	13667629	2012-11-02	9715581	2017-07-25
Prior Application Status	Expired				Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
13667629	Claims benefit of provisional	61555810	2011-11-04		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ESTES-7
	Application Number	
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ESTES-7
	Application Number	
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

- (●) Assignee
- ( ) Legal Representative under 35 U.S.C. 117
- ( ) Joint Inventor
- ( ) Person to whom the inventor is obligated to assign.
- ( ) Person who shows sufficient proprietary interest

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Media Chain, LLC		
Mailing Address Information For Applicant:			
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Address 2	#503		
City	Miami	**State/Province**	FL
Country	US	Postal Code	33133
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ESTES-7
	Application Number	
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Patrick J. Palascak/			Date (YYYY-MM-DD)	2019-12-31
First Name	Patrick J.	Last Name	Palascak	Registration Number	73,533

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ESTES-7
	Application Number	
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Attorney Docket No.: ESTES-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION FOR PATENT APPLICATION

I hereby declare that:

My residence and mailing address are as stated below next to my name.

I believe that I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DIGITAL MEDIA REPRODUCTION AND LICENSING

the specification of which is attached hereto.

In the event that the filing date and/or Application No. are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request my attorneys/agent(s) at Wood Herron & Evans LLP, 441 Vine Street, Suite 2700, Cincinnati, Ohio 45202-2917, to insert above the filing date and/or Application No. of said 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 Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Full name of sole or first inventor Christopher A. Estes	
Sole or first inventor's signature	Date 7-25-12
Residence Mountain View, California	
Mailing Address 210 Mountain View Avenue Mountain View, California 94041	

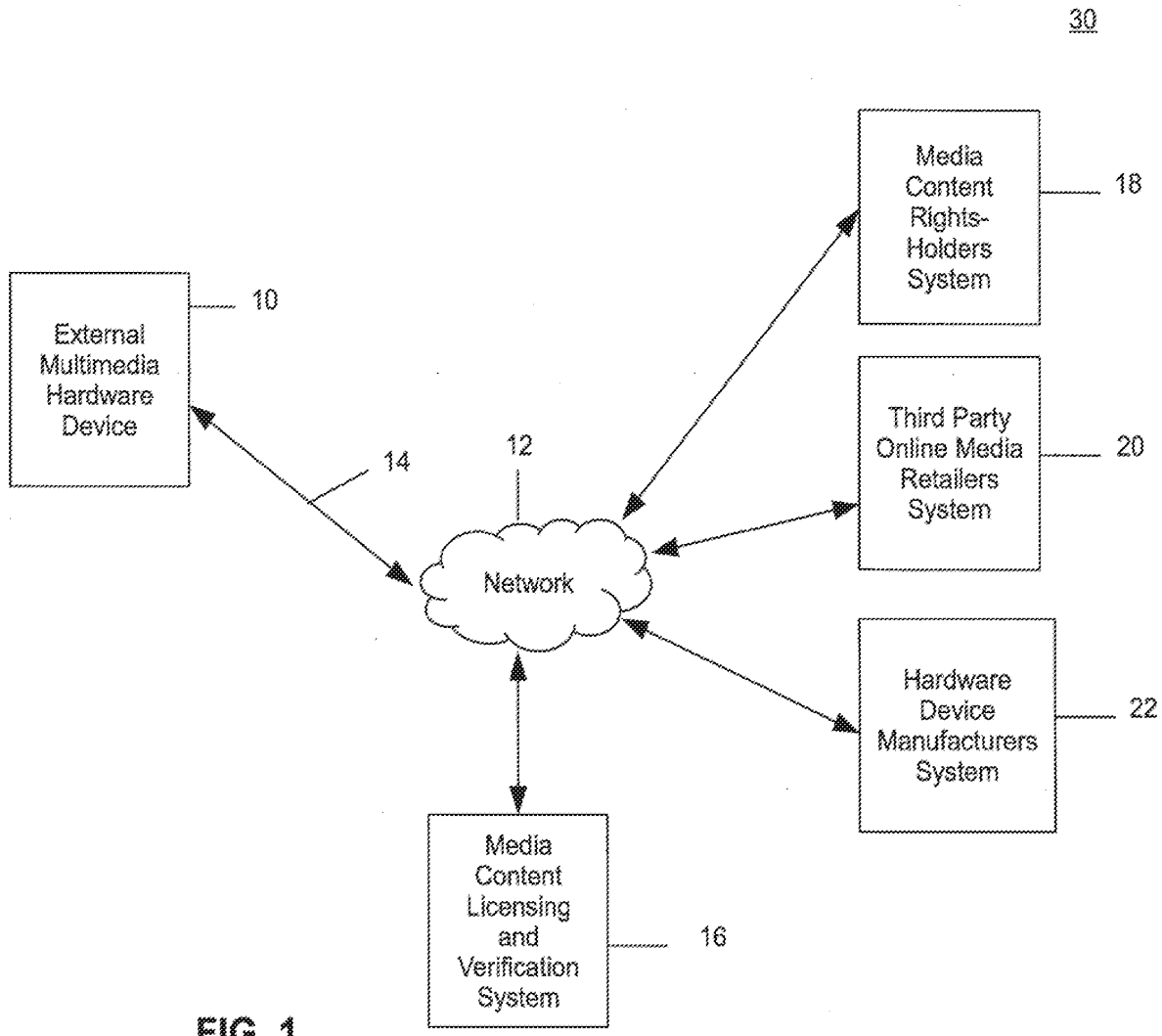
30
External Multimedia Hardware Device
10
14
12
Network
Media Content Rights-Holders System
18
Third Party Online Media Retailers System
20
Hardware Device Manufacturers System
22
Media Content Licensing and Verification System
16

FIG. 1

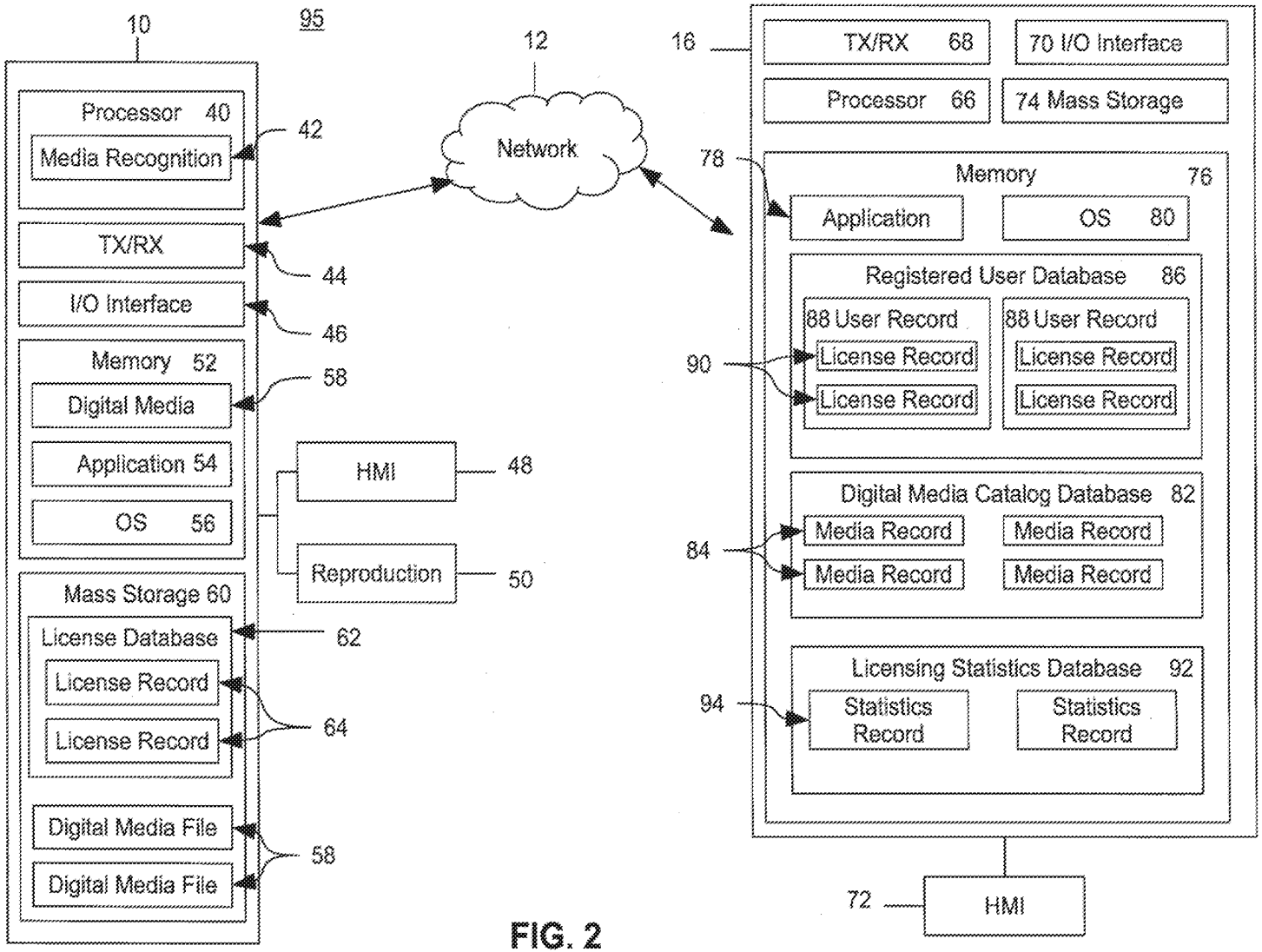
10
95
Processor 40
Media Recognition
42
TX/RX
44
I/O Interface
46
Memory 52
Digital Media
58
Application 54
OS 56
HMI
48
Reproduction
50
Mass Storage 60
License Database
62
License Record
License Record
64
Digital Media File
Digital Media File
58
12
Network
16
TX/RX 68
70 I/O Interface
Processor 66
74 Mass Storage
78
Memory 76
Application
OS 80
Registered User Database 86
88 User Record
License Record
License Record
88 User Record
License Record
License Record
90
Digital Media Catalog Database 82
Media Record
Media Record
Media Record
Media Record
84
Licensing Statistics Database 92
Statistics Record
Statistics Record
94
72
HMI

FIG. 2

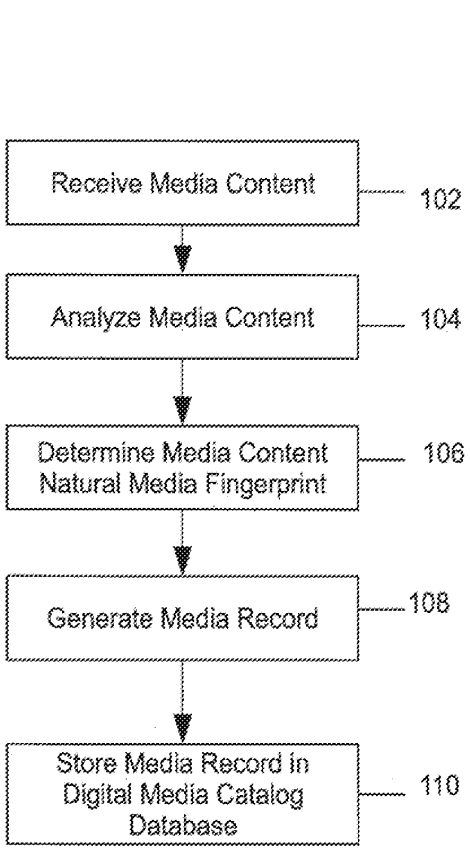
100
Receive Media Content
102
Analyze Media Content
104
Determine Media Content Natural Media Fingerprint
106
Generate Media Record
108
Store Media Record in Digital Media Catalog Database
110

FIG. 3

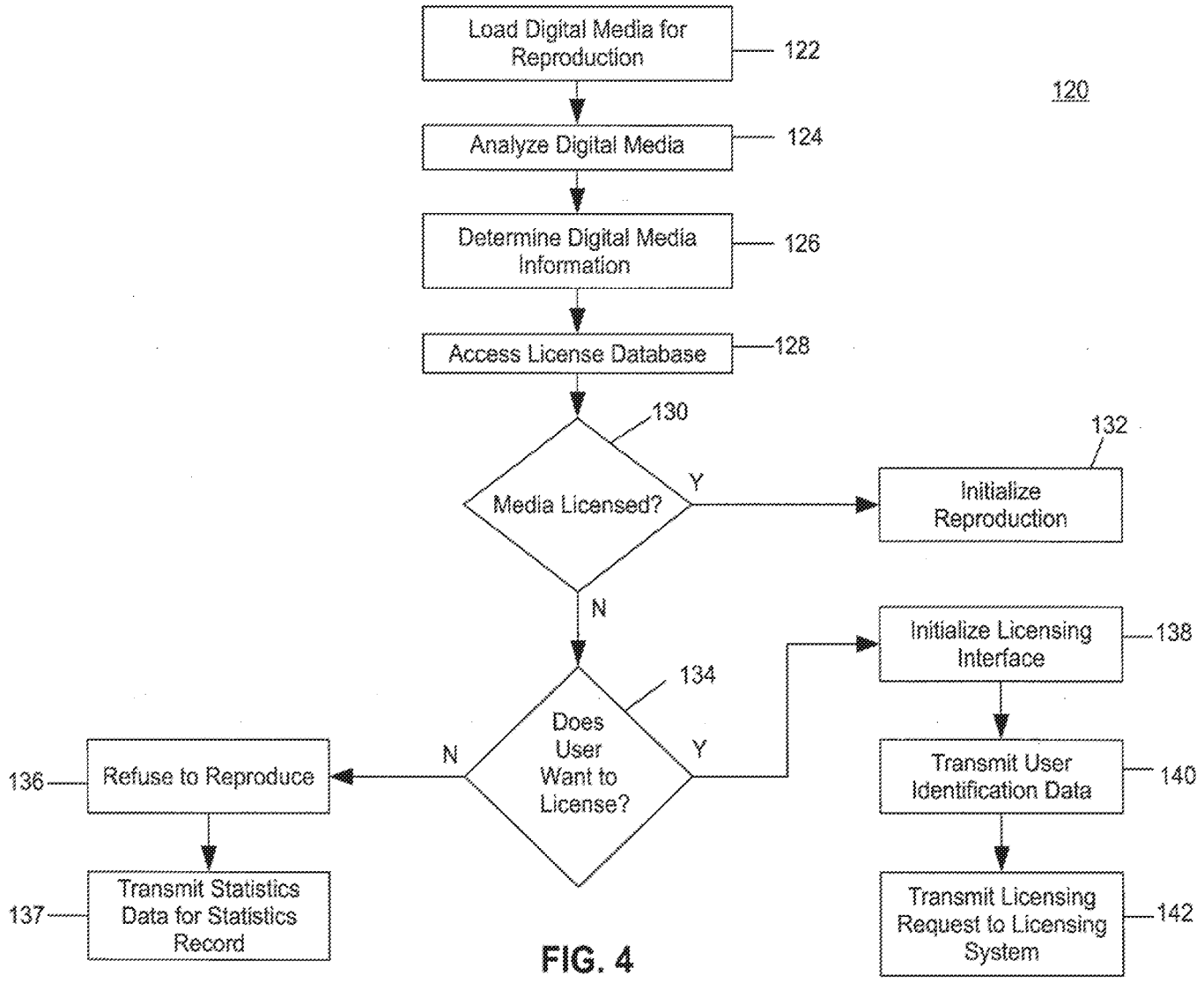
120
Load Digital Media for Reproduction
122
Analyze Digital Media
124
Determine Digital Media Information
126
Access License Database
128
Media Licensed?
130
Y
N
Initialize Reproduction
132
Does User Want to License?
134
N
Y
Refuse to Reproduce
136
Transmit Statistics Data for Statistics Record
137
Initialize Licensing Interface
138
Transmit User Identification Data
140
Transmit Licensing Request to Licensing System
142

FIG. 4

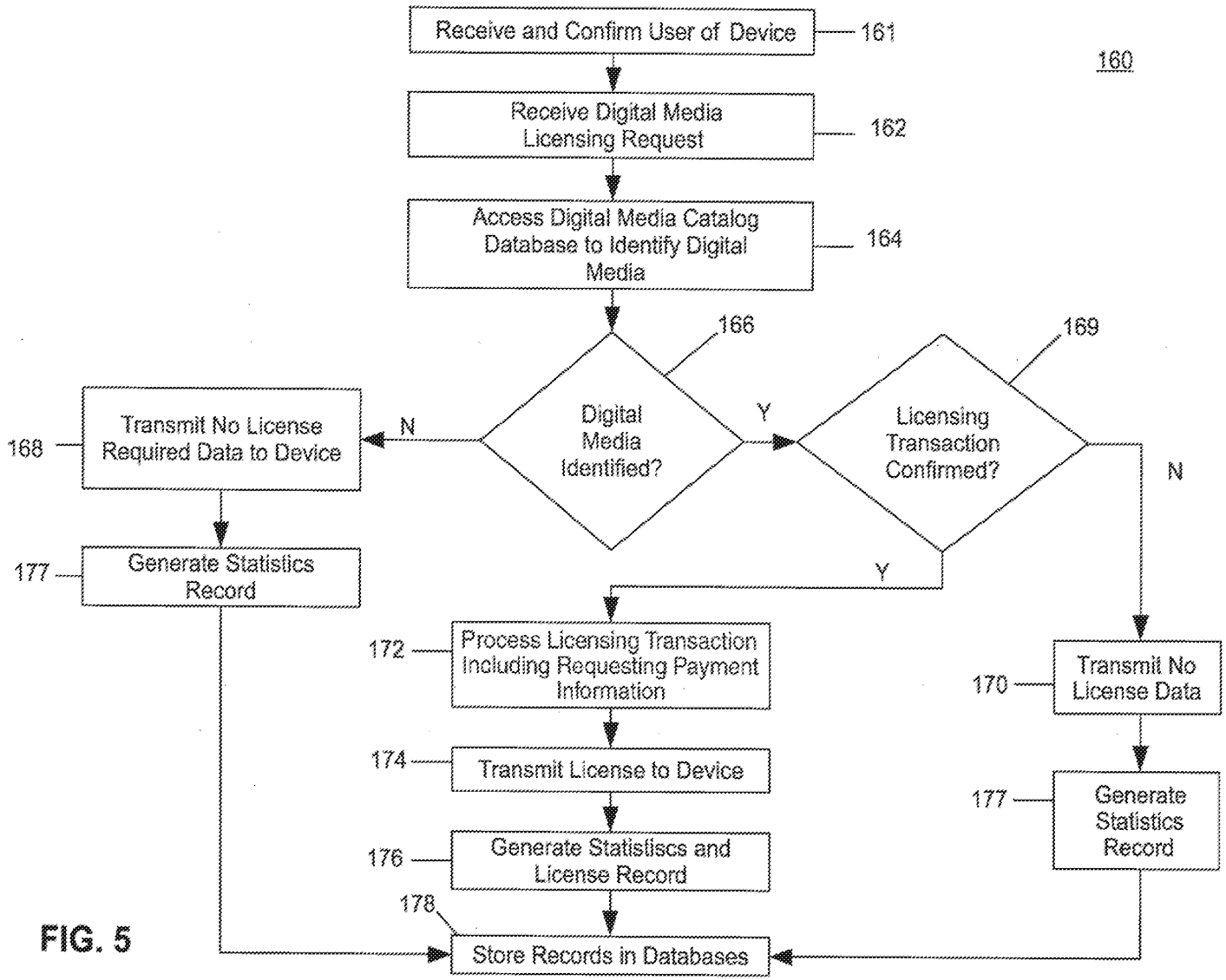
160
Receive and Confirm User of Device
161
Receive Digital Media Licensing Request
162
Access Digital Media Catalog Database to Identify Digital Media
164
Digital Media Identified?
166
N
Y
Transmit No License Required Data to Device
168
Generate Statistics Record
177
Licensing Transaction Confirmed?
169
N
Y
Process Licensing Transaction Including Requesting Payment Information
172
Transmit License to Device
174
Generate Statistiscs and License Record
176
Transmit No License Data
170
Generate Statistics Record
177
Store Records in Databases
178

FIG. 5

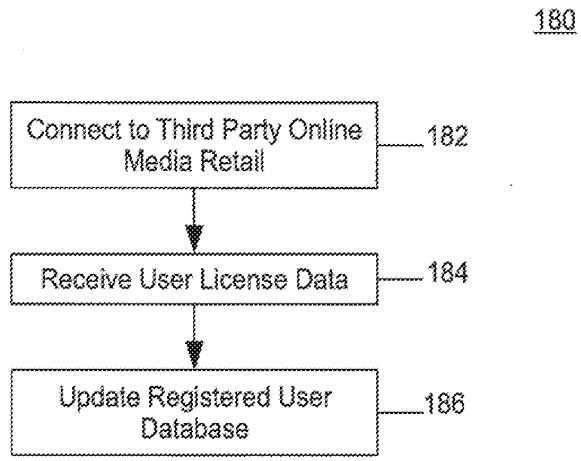
180
Connect to Third Party Online Media Retail
182
Receive User License Data
184
Update Registered User Database
186

FIG. 6

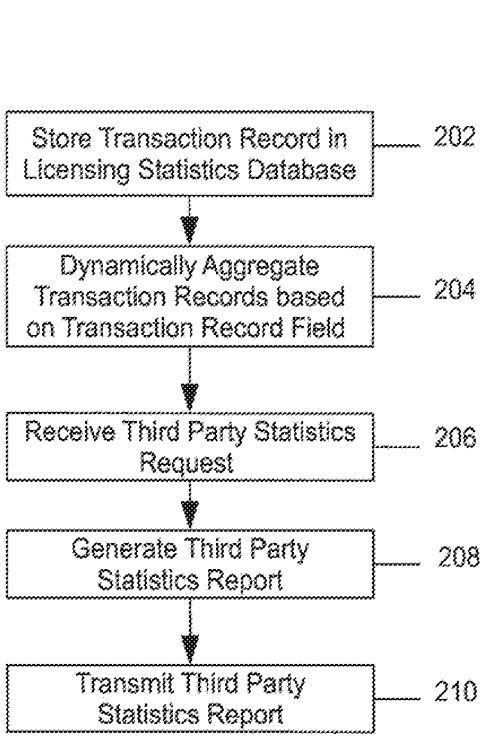
200
Store Transaction Record in Licensing Statistics Database
202
Dynamically Aggregate Transaction Records based on Transaction Record Field
204
Receive Third Party Statistics Request
206
Generate Third Party Statistics Report
208
Transmit Third Party Statistics Report
210

FIG. 7

DIGITAL MEDIA REPRODUCTION AND LICENSING

Cross-Reference

[0001] The present application is a continuation application of United States Patent Application No. 15/898,978, filed February 19, 2018, and claims the benefit of United States Patent No. 9,898,590, filed July 25, 2017, and claims the benefit of United States Patent No. 9,715,581, filed November 2, 2012, and claims the benefit of United States Provisional Patent Application No. 61/555,810, filed November 4, 2011, which are incorporated herein by reference in their entirety.

Technical Field

[0002] Embodiments relate to licensing digital media for reproduction, and more specifically to a digital media licensing system for licensing and enabling reproduction of digital media on a reproduction device.

Background

[0003] Conventionally, the distribution of media content, such as music, movies, and books for example, is in large part controlled by owners who are the rights-holders of the media content. In conventional systems, the media content is incorporated into a physical media such as a compact disk (CD), a digital video disk (DVD), a printed publication, and/or any other physical media. In such conventional systems, the rights-holders of the media content are able to control licensing of the media content, the production of physicalmedia copies of the media content, and/or the distribution of the media content to customers and/or third party retailers and thereby monetize the media content.

[0004] There has been a dramatic shift in the marketplace away from media content

distributed on physical media to digital media content that may be distributed via the internet. Conventionally, rights-holders of digital media content have significantly less control over the distribution of such digital media content as compared to the distributionof physical media. For example, a party that does not hold rights of the digital media content may reproduce the digital media content and then distribute the digital media content via the internet without the permission of the actual rights-holder of the digital media content. As a result, the actual-rights holder of the digital media content cannot monetize the unauthorized distribution of the digital media content.

[0005] The inability of rights-holders of digital media content to monetize the unauthorized distribution of the digital media content limits the financial gain that rights-holders of the digital media content obtain in creating the original digital media content. Often times such unauthorized distribution of the digital media content prohibits the rights-holders of the digital media from covering the costs of creating the original digital media content which discourages creation of digital media content.

Brief Summary

[0006] Embodiments relate to monetizing the reproduction of digital media content for the rights-holder of the digital media content. In an embodiment, a computer implemented method provides a multimedia hardware device a capability to generate an authorized reproduction of a media content item included in a digital media file. A digital media file that includes a media content item may be loaded for reproduction. The digital media filemay be analyzed to identify digital media information associated with the media contentitem. A license database may be accessed to determine whether a user is licensed toreproduce the media content item based on the digital media information. The mediacontent item may be

reproduced when the user is licensed to reproduce the media content item based on the digital media information. A licensing query may be provided to the user when the user is not licensed to reproduce the media content item to prompt the user to select to acquire a license to reproduce the media content item or to decline the license to reproduce the media content item.

[0007] In another embodiment, a system provides a media content licensing and verification system to license media content for reproduction. A transceiver may receivea media licensing request from an external device associated with a user. The media licensing request may include digital media information associated with a media contentitem included in a digital media file. A processor may access a media catalog databasethat includes a plurality of media content records where a media content record from theplurality of media content records is associated with the media content item. Theprocessor may also determine whether the media licensing request is to be granted basedon the media content record stored in the media catalog database that is associated withthe media content item. The processor may grant the media licensing request for theexternal device when the media content record associated with the media content itemverifies the granting of the license for the media content item to the external device. Theprocessor may also decline the media licensing request for the external device when themedia content record associated with the media content item does not verify the grantingof the license for the media content item to the external device.

[0008] Further embodiments, features, and advantages, as well as the structure and operation of the various embodiments, are described in detail below with reference to the accompanying drawings.

Brief Description of the Drawings

[0009] Embodiments are described with reference to the accompanying drawings. In the drawings, like reference numbers may indicate identical or functionally similarelements.

[0010] FIG. 1 illustrates a digital media file licensing and authorized reproduction system, according to an embodiment;

[0011] FIG. 2 illustrates a second digital media file licensing and authorized reproduction system, according to an embodiment;

[0012] FIG. 3 illustrates a flowchart illustrating an exemplary aspect of operation for the media content licensing and verification system to analyze a received catalog of media content and manage the catalog of media content, according to an embodiment;

[0013] FIG. 4 illustrates a flowchart illustrating an exemplary aspect of operation for the external multimedia hardware device, according to an embodiment;

[0014] FIG. 5 illustrates a flowchart illustrating an exemplary aspect of operation for the media content licensing and verification system to receive a payment for a license to reproduce a digital media file, according to an embodiment;

[0015] FIG. 6 illustrates a flow chart illustrating an exemplary aspect of operation for the media content licensing and verification system to receive licensing information froma third party media retailer, according to an embodiment; and

[0016] FIG. 7 illustrates a flow chart illustrating an exemplary aspect of operation for the media content licensing and verification system to receive a third-party request for licensing statistics.

Detailed Description

[0017] The digital media file licensing and authorized reproduction system provides a capability to ensure that a user possesses a license to reproduce a digital media file and if the user does not have a license, providing to the user the option to obtain such a license. In the Detailed Description herein, references to "one embodiment", "an embodiment", an "example embodiment", etc., indicate that the embodiment described may include a particular feature, structure, or characteristic, by every embodiment may not necessarily include the particular feature, structure, or characteristic. Moreover, such phrases are not necessarily referring to the same embodiment. Further, when a particular feature, structure, or characteristic may be described in connection with an embodiment, it may be submitted that it may be within the knowledge of one skilled in the art to effect such feature, structure, or characteristic in connection with other embodiments whether or not explicitly described.

Overview

[0018] FIG. 1 illustrates a digital media file licensing and authorized reproduction system 30 in which embodiments or portions thereof, may be implemented. Digital media file licensing and authorized reproduction system 30 includes an external multimedia hardware device 10, a network 12, a media content licensing and verification system 16, a media content rights-holders system 18, a third party online media retailers system 20, and a hardware device manufacturers system 22.

[0019] System 30 may monetize the reproduction of a media content item included within a digital media file. Reproduction of a media content item may include reproducing sound from a digital audio file, reproducing video from a digital video file, reproducing text from a digital text file, and/or any other reproduction of a digital media file that will be

apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0020] Reproduction may be defined as a first use by a user of the media content item. For example, reproduction of the media content item may include when a user first accesses a media content item where the user obtained the media content item from an outside source, such as but not limited to a third party online media distributor. Reproduction may also be defined as further distribution of the media content item by the user after the user has initially accessed the media content item. For example, reproduction of the media content item may include when the user distributes the media content item to other parties after the user has obtained the media content item from the third party online media distributor.

[0021] A digital media file may represent a MPEG Layer 3 (MP3) file, a RealAudio (RA) file, a raw sample (RAW) file, a Microsoft wave (WAV) file, a Windows Media Audio (WMA) file, and/or any other suitable digital media file that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure. The media content item may include any portion of data included in the digital media file. A user of external multimedia hardware device 10 may reproduce the media content item with external multimedia hardware device 10. Device 10 may represent a smart phone, a smart tablet, a mobile telephone, a television, an audio system, a personal music player, a portable computing device, other computing devices such as a personal computer, a laptop, or a desktop computer, computer peripheral such as a printer, a portable audio/or a video player, and/or any other suitable electronic device that can reproduce a media content item that will be apparent to those skilled in the relevant art(s) without

departing from the spirit and scope of the disclosure.

[0022] However, the user may not have a license that authorizes the user to reproduce the media content item. The digital media file including the media content item may have been procured from various sources that are not licensed to reproduce the media content item and do not collect licensing fees for use of the media content item. As such, when the user loads the digital media file for reproduction, device 10 may analyze the digital media file to determine the media content item included in the file and determine whether the user of device 10 is authorized. For example, the device may analyze a digital music file to identify the song and artist of the media content item that may be a track included in the digital music file. The user may be authorized when the user has a license to load and/or reproduce a media content item included in the digital media file.

[0023] In an embodiment, device 10 may analyze a plurality of identifying characteristics associated with the media content item to identify the media content item and to determine whether the user of device 10 is authorized. The plurality of identifying characteristics may be an identifying characteristic associated with the media content item inherently present in the media content item such that the media content item is not remastered to include the identifying characteristic after the media content item is initially recorded. The plurality of identifying characteristics can represent a fingerprint, digital watermarking, and/or any other suitable algorithm to identify copyright ownership of the media content item included in the digital media file that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure. In an embodiment, device 10 may analyze metadata included in the loaded digital media file to identify the media content item included in the digital media file.

[0024] System 30 may query a license database locally and/or remotely located to system 30 to determine whether the user of device 10 has the appropriate license for themedia content item. Device 10 may refuse to play the digital media file and query the userto determine whether the user wishes to purchase the appropriate license when the userdoes not have the appropriate license.

[0025] Device 10 may communicate with media content licensing and verification system 16 over network 12 and transmit the fingerprint of the media content item to media content licensing and verification system 16 when the user selects to purchasethe appropriate license. Licensing system 16 may identify the media content item based on the received fingerprint. Licensing system 16 may transmit back to device10 the title and/or other information associated with the identified media content itemand request the user to confirm purchase of the license. The user may interface withdevice 10 to conduct the licensing transaction with licensing system 16, and after purchasing the license, licensing system 16 may transmit a license to device 10. After receiving the license from licensing system 16, device 10 may commencereproduction of the media content item. Moreover, licensing system 16 may store arecord of the transaction for statistical purposes, and/or store a copy of the licensein a database under a user record associated with the user of device 10.

[0026] Device 10 and licensing system 16 may provide data associated with the use of the media content item to media content rights-holders system 18 over network 12. Rights-holders system 18 may be accessed by an owner of a copyright for the media content item. For example, device 10 and licensing system 16 may provide data to rights-holders system 18 that includes the user who is accessing the media content item, the

geographic location of the user who is accessing the media content item, other media content items that the user may be accessing, the quantity of times the media content item is accessed, and/or any other data associated with the use of the media content item that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0027] The data provided by device 10 and licensing system 16 to rights-holders system 18 for the media content item may be used by the copyright owner to develop future licensing agreements that may be provided to the user of device 10 by licensing system 16 for future use of the media content item. Payments for the license to use the media content item may be received from the user via device 10 and licensing system 16. Payments may also be distributed to the copyright owner via rights-holders system 18.

[0028] Device 10 and licensing system 16 may also provide data associated with the use of the media content item to third party online media retailers system 20. The data provided to retailers system 20 may be similar to the data provided to rights-holders system 18. However, retailers system 20 may be accessed by third party online media retailers who have been selected by the copyright owner of the media content item to distribute the media content item via the Internet.

[0029] The data provided by device 10 and licensing system 16 to retailers system 20 for the media content item may be used by the third party online retailers to develop future pricing for their online media content item distribution including which media content items to distribute in the future. The data provided to retailers system 20 may also be used to help third party online media retailers target the marketing of the media content item to demographics that have shown a trend of interest in the media content item. Payments for

the distribution of the media content item by the third party on line media retailer may be received from the user via device 10 and licensing system 16. Payments may also be distributed to the third party online media retailer via r etailers system 20.

[0030] Device 10 and licensing system 16 may also provide data associated with the use of the media content item to hardware device manufactures system 22. The data provided to manufactures system 22 may be similar to the data provided to rights- holders system 18 and retailer system 20. However, manufactures system 22 may be accessed by hardware device manufacturers who manufacture the hardware that may be implemented in device 10 that provides device 10 with the capabilities to limit reproduction of the media content item to when the user has a license to reproduce the media content item. Payments for use of the hardware provided by the hardware device manufacturers implemented in device 10 by the user of device 10 may also be distributed to the hardware device manufacturer via manufacturers system 20.

[0031] Device 10 may be configured to connect to network 12. Network 12 may include one or more networks, such as the Internet. In some examples, network 12 may include one or more network technologies such as Ethernet, Fast Ethernet, Gigabit Ethernet, a variant of the IEEE 802.11 standard such as WiFi, and the like. Communication over network 12 takes place using one or more network communication protocols including reliable streaming protocols such as transmissioncontrol protocol (TCP). These examples are illustrative and not intended to limit the present disclosure. As shown in FIG. 1, device 10 may engage in communication with network 12 via connection 14, where connection 14 may be a wireless, wired, a secured communication connection, any combination thereof,

and/or any other communication connection that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0032] Licensing system 16 may be configured to engage in communication with network 12. As such, device 10 may communicate with licensing system 16 via network 12. Additionally, rights-holders system 18, retailers system 20, and/or manufacturers system 22 may also communicate with licensing system 16 and device 10 via network 12. Licensing system 16, rights-holders system 18, retailers system 20, and/or manufacturers system 22 may engage in communication with network 12 via a communication connection similar to connection 14.

[0033] Device 10, licensing system 16, rights-holders system 18, retailers system 20, and/or manufacturers system 22 may have a cloud computing configuration. Device 10, licensing system 16, rights-holders system 18, retailers system 20, and/or manufacturers system 22 may share resources via network 12. For example, device 10 may retrieve licensing information for the user of device 10 who wishes to reproduce the media content item via network 12. Licensing system 16 may also update rights-holders system 18 with the user information for the user who wishes to reproduce the media content item. Based on the cloud computing configuration, the interaction between device 10, licensing system 16, and rights-holders system 18 may not be limited to a single external multimedia hardware device. A plurality of external multimedia hardware devices may update licensing system 16 and rights-holders system 18 via network 12 with user information of users wishing to reproduce the media content item. Licensing system 16 may provide each of these updates for the user information to any media content rights-holders system that requests the user information.

Digital Media File Licensing and Authorized Reproduction System

[0034] FIG. 2 illustrates a second digital media file licensing and authorized reproduction system 95 in which embodiments or portions thereof, may be implemented. Digital media file licensing and authorized reproduction system 95 includes external multimedia hardware device 10, media content licensing and verification system 16, and network 12. External multimedia hardware device 10 includes a processor 40, a transceiver 44, an input/output interface 46, a memory 52, a mass storage 60, a human machine interface (HMI) 48 and a reproduction module 50. Processor 40 may be a hardware based processor that includes a general purpose microcontroller, a special purpose microcontroller and/or any other controller that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0035] Processor 40 includes a media recognition module 42. Media recognition module 42 may be configured to analyze a loaded digital media file to identify the media content item included in the digital media file and/or determine an identifying characteristic, such as a fingerprint for example, of the media content item. In an embodiment, the media recognition module 40 may include hardware based circuitry configured to analyze a loaded digital media file. In an embodiment, the media recognition module 42 may include program code executing on the processor 40 configured to cause the processor 40 to analyze a loaded digital media file.

[0036] Memory 52 includes a digital media file 58, an application 54, and an operating system (OS) 56. Memory 52 may be accessed by processor 40, such that processor 40 may read data from memory 52 and write data to memory 52. In some embodiments, application 54 and/or OS 56 may include program code including one or

more instructions, that when executed by processor 40 cause device 10 to perform the steps necessary to execute steps or elements embodying the various aspects of the disclosure. Furthermore, digital media file 58 may be loaded for reproduction.

[0037] Mass storage 60 includes a license database 62 and digital media file 58. License database 62 includes a license record 64. Mass storage 60 may be utilized in addition to memory 52, or may not be included at all, in which case the data elements illustrated as stored on mass storage 60 would be stored in memory 52. For exemplary purposes, mass storage 60 includes digital media files 58, illustrating that one or more digital media files 58 may be stored in mass storage 60 of device 10. Moreover, mass storage 60 includes a license database 62, where license database 62 includes one or more license records 64. In an embodiment, license database 62 includes license records 64, where license records 64 indicate a media content item that a user of the device may be licensed to reproduce.

[0038] Media content licensing and verification system 16 includes a transceiver 68, a processor 66, an input/output interface 70, a mass storage 74, a memory 76, and a HMI 72. Memory 76 includes an application 78, an OS 80, a registered user database 86, a digital media catalog database 82, and a licensing statistics database 92. Application 78 and/or the OS 80 may include program code including one or more instructions configured to be executed by processor 66 to cause licensing system 16 to perform steps necessary to perform embodiments of the disclosure.

[0039] Registered user database 86 includes a user record 88. User record 88 includes a license record 90. Digital media catalog database 82 includes a mediarecord 84. Each media record 84 includes data associated with a unique mediacontent item loaded

into the licensing system 16. As such, a rights-holder or contentcreator may load a catalog of media content items that may include but not limited to a song, a movie, a television show, a novel, and/or any other media content item into licensing system 16. Licensing system 16 may analyze each media content item in the catalog, and generate a media record corresponding to each media content item.In some embodiments, each media record may include data indicating variousinformation of the corresponding media content item, including but not limited to the rights-holder of the media content item, the title of the media content item, the plurality of identifying characteristics, and/or any other information associated with the corresponding media content item that will be apparent to the those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0040] Each user record 88 may be associated with a unique user and indicates all media content items the user has purchased a license for. Each user record 88 may include one or more license records 90, where each license record may include dataindicating a media content item that the user is licensed to reproduce.

[0041] Licensing statistics database 92 includes a statistics record 94. Each statistics record 94 may include data indicating a license purchased by a user connecting to licensing system 16. The data may include, for example, whether a user that purchased a license for a particular media content item, how many users refused to license a particular media content item, the rights-holder of the media content item for which the license was purchased, the title of the media content item, demographic information for the user that may include but is not limited to age, gender, location, and/or any other data that may be associated with the user and/or license obtained by the user that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0042] Embodiments of the present disclosure can be implemented on any type of processing (or computing) device having one or more processors. For example, embodiments can be implemented on a workstation, mobile device, computer,cluster of computers, set-top box, or other devices having at least one processor. In an embodiment, multiple modules may be implemented on the same processing device. Software can include one or more applications and an operating system.Hardware can include, but may not be limited to, a processor, memory, and/or graphical user interface display.

Method 100

[0043] FIG. 3 illustrates a flowchart of an exemplary method 100 of processing a digital media catalog for use in a media content licensing and verification system. At step 102,the media content licensing and verification system receives digital media catalog. At step104, each media content item of the received catalog may be analyzed.

[0044] At step 106, a plurality of identifying characteristics associated with the media content item may be determined. For example, the fingerprint of the media content item may be determined. Determining a media content fingerprint may include one or more steps for analyzing the digital file including the media content item to determine one or more characteristics that uniquely identify the media content item stored therein. For example, if the media content item were a book stored in a digital text file, the natural media fingerprint may be determined to be a predefined number of words from the beginning of the text file.

[0045] In another exemplary embodiment, the media content item may be a song stored in a digital music file, and the system may determine the natural media fingerprint by analyzing the digital music file to identify lyrics included in the song, notes played in the

song, and/or a sampled sound wave included in the song. These characteristics may be considered individually or in various combinations to uniquely identify the song. Moreover, in many digital media file formats, one or more information fields related to the media content item stored in the file are included in metadata of the file. In an embodiment of the invention, the system may analyze metadata included in the digital media file to identify the media content item stored thereon.

[0046] In step 108, the system generates a media record for each media content item, where the media record includes data indicating the fingerprint, rights-holder information, title, and/or any other media content item data. In step 110, the media record is stored in a digital media catalog database accessible by the system.

[0047] Embodiments can work with software, hardware, and/or operating system implementations other than those described herein. Any software, hardware, and operating system implementations suitable for performing the functions described herein can be used.

Method 120

[0048] FIG. 4 illustrates a flowchart of an exemplary method 120 of verifying that a digital media file has been licensed prior to reproduction and facilitating the purchase ofa license if the digital media file has not been properly licensed prior to reproduction. Atstep 122, a digital media file is loaded for reproduction on the external multimediahardware device. At step 124, the device analyzes the digital media file.

[0049] At step 126, information associated with the digital media file is determined. Information associated with the digital media file may include a fingerprint associated withthe media content item included in the digital media file, the rights-holder of the media content

item, the title of the media content item, and/or any other digit al media file information that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure. For example, as described above with respect to FIG. 3, the device may analyze the digital media file to determine one or more characteristics of the media content item stored thereon, where the characteristics may be utilized alone and/or in various combinations to identify the media content item.

[0050] The selected characteristics may be referred to as the natural media fingerprint of the media content item. Advantageously, the natural media fingerprintidentifies a media content item, even considering the possibility of different versionsof the same media content item. For example, multiple versions of a song are recorded at various times and may be stored as digital music files, such as a live version and a studio version. However, by analyzing the characteristics of a media content item, different versions of the same song may be consistently identified. For example, analyzing characteristics may include analyzing word recognition of lyrics,the occurrence of various frequencies at particular points in time in relation to theoccurrence of the lyrics, and/or any other media content item characteristic that willbe apparent to those skilled in the relevant art(s) without departing from the spirit andscope of the disclosure.

[0051] At step 128, the device accesses a license database. At step 130, whether a user of the device has a license for the digital media file may be determined based on the natural media fingerprint and/or other digital media information, such as metadata, included in the digital media file. At step 132, the device initializes reproduction of the digital media file in response to the determining that the user has the appropriate license.

[0052] At step 134, the device generates a display query asking the user whether the user would like to purchase a license for the digital media file in response to determining that the user does not have the appropriate license. The device generates a display query asking the user whether the user would like to purchasea license for the digital media file.

[0053] At step 136, the device indicates to the user that the digital media file cannot be played in response to the user indicating that the user would not like topurchase a license. At step 137, the device transmits statistics related to the mediacontent item stored on the digital media file to the media content licensing andverification system. The statistics information may include, for example, the determined natural media fingerprint of the media content item stored in the digital media file and/or any other such information related to the media content item, the digital media file, the external multimedia hardware device, and/or the user of the device.

[0054] At step 138, the device initializes a licensing interface in response to the user indicating that the user would like to purchase the license. The device initializes a licensing interface that includes establishing a secure communication connection to amedia content licensing and verification system.

[0055] At step 140, the device transmits user identification data to the system, such that the user of the device may be identified to log into a user account associated with the user, process the licensing transaction, and/or for other such reasons to facilitate purchasing a license for the media content item. The user identification data may include for example, a user name and password, a unique identifier associated with the user, the user's billing information, and/or any other user identification data that will be apparent to

those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0056] At step 142, the device transmits a licensing request to the system, where the request includes information corresponding to the digital media file and the media content item included in the digital media file, such as the fingerprint of the media content item, the title of the media content item, the rights-holder of the digital media file, and/or other media content item information that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0057] Embodiments can work with software, hardware, and/or operating system implementations other than those described herein. Any software, hardware, and operating system implementations suitable for performing the functions described herein can be used.

Method 160

[0058] FIG. 5 illustrates a flowchart of an exemplary method 160 of processing a license request from an external multimedia hardware device. At step 161, prior toinitializing the licensing transaction, the system receives the user identification data andconfirms the user's identity. For example, the system logs the device into a securedtransaction interface associated with an account of the user.

[0059] At step 162, the system receives a digital media licensing request from an external multimedia hardware device over a network where the licensing request includesdata indicating a media content item that a user of the device wishes to acquire a licensefor. In an embodiment, the licensing request includes a fingerprint of the media contentitem,

information identifying the rights-holder of the media content item, the title of themedia content item, and/or other media content item information.

[0060] At step 164, the system accesses a digital media catalog database to identify the media content item indicated by the request. At step 166, the system matches the fingerprint of the media content item included in the license request to a fingerprint in the digital media catalog database to identify the media content item associated with the licensing request, the rights-holder associated with the media content item, the price required for a license for the media content item, and/or any other identification information that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0061] At step 168, the system transmits data to the device indicating that a license is not required for reproduction in response to determining that a record corresponding to the media content item is not in the digital media catalog database. At step 169, the system transmits data to the device such that a user of the device may confirm a transaction to acquire the license associated with the media content item in response to identifying the media content item associated with the licensing request. In an embodiment, the system transmits data indicating the title of the media content item, the rights-holder of the media content item, an artist associated with the media content item, and/or other media content information such that the device presents this information to the user when asking the user whether to confirm the transaction.

[0062] At step 170, the system transmits data to the device indicating that the license has not been purchased in response to the user declining the licensing transaction, at which point, the device may refuse to reproduce the digital media file for the user. At step 172,

the system processes the licensing transaction in response to the user confirming the licensing transaction and the system receiving confirmation data from the device. The processing may include collecting payment information, charging previously known payment information, debiting a user account, and/or any other such payment processing methods.

[0063] At step 174, the system transmits a license associated with the media content item over the communication network to the device in response to processing the licensing transaction. At step 176, the system generates a license record indicating the user and the media content item in response to processing the transaction, the system generates a transaction record including data that identifies the user, the media content item, demographic information about the user, and/or any other license record information that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0064] At step 177, the user has not purchased a license for a media content item, either because the media content item is not identified in the database or because the user refuses to make the purchase. However, a statistics record may be generated. The statistics data may include for example the natural media fingerprint associated with the media content item, the rights-holder of the media content item, the title of the media content item, and/or any other statistical data. The statistics data generated may be utilized for a variety of purposes, including for example, encouraging non- participating rights-holders from participating in the system by identifying the number of times a license was requested for a media content item owned by the non-participating rights-holder. At step 178, the statistics record is stored in the licensing statistics database, and the license record is stored in the

registered user database in a user record associated with the user.

[0065] Embodiments can work with software, hardware, and/or operating system implementations other than those described herein. Any software, hardware, and operating system implementations suitable for performing the functions described herein can be used.

Method 180

[0066] FIG. 6 illustrates a flowchart of an exemplary method 180 of loading licenses for media content items associated with a user from third party sources. At step 182,the system connects to a third party online media retailer. At step 184, licenses purchased from the third party retailers may be uploaded into a registered user database of the system. At step 186, after receiving the user license data, the system updates the registered user database of the system.

[0067] Embodiments can work with software, hardware, and/or operating system implementations other than those described herein. Any software, hardware, and operating system implementations suitable for performing the functions described herein can be used.

Method 200

[0068] FIG. 7 illustrates a flowchart of an exemplary method 700 of providing statistics associated with licensing transactions performed by the system to a third party over a communication network consistent with embodiments of the invention. At step 202, the system stores one or more transaction records in a connected licensing statistics database.

[0069] At step 204, the system dynamically aggregates the transaction records in relation to one or more fields of information included in each transaction record. For example, the system may aggregate all transaction records stored in the licensing statistics

database where the media content item of the transaction record has a desired title, and as such, data and statistics related to how many times a license was purchased for the media content item having the desired title may be retrieved. In an embodiment, similar aggregation may be performed to determine how many licenses were purchased for a particular rights-holder, titles of media content items that users of a particular demographic purchased, and/or other such relevant data and statistics.

[0070] At step 206, the system may receive a statistics request from a third party that may include but not limited to a rights-holder, a hardware manufacturer, a marketing/analytics partner, and/or other such third parties that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope of the disclosure.

[0071] At step 208, the system may generate a statistics report based on the received request. At step 210, the system may transmit the statistics report to the third party overthe communication network. As such, in an embodiment a participating rights-holder may quickly retrieve licensing data and statistics for media content items that the rights-holderowns. In another embodiment, a marketing and/or analytics company may receivevaluable licensing and statistics data for media content items for particular demographicsof users, genres of media content items, and/or other such categories.

[0072] Embodiments can work with software, hardware, and/or operating system implementations, other than those described herein. Any software, hardware, and operating system implementations suitable for performing the functions described herein can be used.

Conclusion

[0073] As such, in general, some embodiments of the invent ion are directed to a system for recognizing licensed and unlicensed multi-media content by use of a natural media fingerprint recognition and license verification database and system.The system disables the use of unlicensed content and provides a secure method to license unlicensed multimedia content and distribute the licensing revenue to contentowners, rights-holders, participating third-party hardware and software manufacturers,and/or other additional third parties. In some embodiments, an external multi-media hardware device includes a hardware or software read/write licensed media database module, operatively connected to a hardware or software natural media fingerprintrecognition and license verification module, where the recognition and license verification module may be operatively connected to a hardware or software data encryption module. Moreover, the device may include an operating system and/or application stored on memory associated with the external multi-media hardwaredevice. Where the operating system and/or application may be executed by a processor associated with the device to cause the processor to control one or more of the modules to perform one or more tasks associated with the one or more modules. In addition, media reproduction (e.g., audio and video playback) hardware and/or software module may be monitored and controlled by processor of the device operatively connected to, executing, and/or accessing the content fingerprint recognition and license verification module. Moreover, a physical memory device (e.g.,a memory and/or a mass storage device) may be accessible by the processor during execution of the one or more operations of the operating system and/or application residing on a memory associated with the external multi-media hardware device. In some embodiments, the operating system

and/or application may cause the processor to drive a peripheral device using an 1/0 interface to present a user of the device with a graphic user interface.

[0074] Furthermore, the external multimedia hardware device may communicate over a communication network (e.g., an internet connection, a cellular communication network connection, etc.). In some embodiments, the external multimedia hardware device may be connected to a one or more servers functioning as a media content licensing and verification system over the communication network, such as a media content licensing and verification system shown in Figs. 1 and 2. In other embodiments, the external multimedia hardware device may be connected to a personal computer functioning as a media content licensing and verification system. For example, an external multimedia hardware device may connect to a user's personal computer over a Wi-Fi connection to verify a user has the appropriate license to reproduce a particular media content item, where the personal computer may include a plurality of licensing records associated with the user. In some embodiments, the communication connection between the device and the server may be a secure internet connection. In addition, the media content licensing and verification system may receive multi-media content items (e.g., songs, videos, books, etc.) from participating copyright owners and/or rights-holders through a catalog submissions module operatively connected to the system and executing thereon. The catalog submissions may be loaded into a natural media fingerprint creation module to generate a natural media fingerprint catalog. In addition, the system may be operatively connected to a storage device storing a registered users and licensed media database.

[0075] In addition, the media content licensing and verification system may be operatively connected to and/or execute a secure license verification and payment collection

module stored on a connected storage device and/or executing on a computing system connected over the communication network. Such that the the content fingerprint and licenses verification module associated with the external multimedia hardware device may conduct license purchasing transactions by communicating over the communication network with the media licensing and verification system and/or the secure license verification and payment collection module. The secure license verification and payment collection module may be connected through the central computer controlled sub-system server (e.g. a media content licensing and verification system) and/or through a computing system in communication with the media content licensing and verification system over the communication network.

[0076] As such, the application and/or operating system executing on the external multimedia hardware device may facilitate licensing transactions for various media content items stored in the media content licensing and verification system. Furthermore, the media content licensing and verification system may include a payments distribution with real-time statistics module that may execute on the media content licensing and verification system, such that copyright owners, rights-holders, and/or participating hardware manufacturers may receive payments and statistics associated with the licensing of media content items using the media content licensing and verification system.

[0077] In some embodiments, pre-existing licenses may be submitted to the media content licensing and verification system such that the registered users and licensed media master database may be updated to include licenses for registered users purchased from third party sources, such as third party online media retailers. Where the previously purchased license data may be imported into the system over the communication network

to the media content licensing and verification system from the third party sources, such as databases maintained by third parties.

[0078] It will therefore be appreciated that the invention may be implemented, for example, using program code implemented on one or more hardware-based computers, one or more processors, and/or one or more integrated circuits (e.g., semiconductors). Program code typically comprises one or more instructions that are resident at various times in various memory and storage devices in a computer, and that, when read and executed by one or more processors in a computer, cause that computer to perform the steps necessary to execute steps or elements embodying the various aspects of the invention. Moreover, while the invention has and hereinafter will be described in the context of fully functioning computers and computer systems, those skilled in the art will appreciate that the various embodiments of the invention are capable of being distributed as a program product in a variety of forms, and that the invention applies equally regardless of the particular type of computer readable media used to actually carry out the distribution. Examples of computer readable media include but are not limited to tangible, recordable type media such as volatile and non-volatile memory devices, floppy and other removable disks, hard disk drives, magnetic tape, optical disks (e.g., CD-ROMs, DVDs, etc.) among others.

[0079] Moreover, while the invention has and hereinafter will been described in the context of digital media files resident on a memory, the invention is not so limited. Those skilled in the art will appreciate that embodiments of the invention are capable of facilitating licensing transactions with respect to streaming digital media. For example, a media content item may be streamed to an external multimedia hardware device over a communication network, and a portion of the media content item may be stored in a local

memory (e.g., buffered in a cache of a processor associated with the external multimedia hardware device) while a portion may be stored remotely on a memory device accessible by the external multimedia hardware device over a communication network. For example, a media content item may be streamed to an external multimedia hardware device over a communication network from a cloud based storage system, a digital media streaming service (e.g., Pandora, Last.fm, Spotify, iTunes, iCloud, Netflix, and/or other such services) and embodiments of the invention may analyze the media content item when loaded for reproduction and perform the operations consistent with embodiments of the invention to confirm that a user of the device has the appropriate license for the streaming media content item prior to reproducing the streaming media content item.

[0080] While the invention has been illustrated by a description of the various embodiments and the examples, and while these embodiments have been described in considerable detail, it is not the intention of the applicants to restrict or in any other way limit the scope of the invention to such detail. Additional advantages and modifications will readily appear to those skilled in the art. Thus, the invention in its broader aspects is therefore not limited to the specific details, representative apparatus and method, and illustrative example shown and described. In particular, any of the blocks of the above flowcharts may be deleted, augmented, made to be simultaneous with another, combined, or be otherwise altered in accordance with the principles of the invention. Accordingly, departures may be made from such details without departing from the spirit or scope of applicants' general inventive concept.

WHAT IS CLAIMED IS:

1. A computer implemented method for configuring a multimedia hardware device to stream a media content item included in a digital media file, comprising:

receiving a request from a user to stream the media content item;

extracting user data that is specific to the user that is attempting to stream the media content item, wherein the user data includes each media content item that the user streamed and each media content item that the user declined to stream that enables the third party online retailer to target marketing of different media content items to the user based on a history of media content items that the user has streamed and media content items that the user has declined to stream to determine a trend of interest in media content items by the user and to thereby target the marketing of the different media content items to the user based on the determined trend of interest associated with the user;

aggregating the user data into a statistics record for the request to stream the media content item, wherein the statistics record summarizes the user data associated with the request to stream the media content item;

storing in a database the statistics record so that the user data is accessible to the third party online retailer that is providing the media content item to be streamed; and

analyzing a plurality of statistics records aggregated from each request to stream the media content item as provided to the third party online retailer to provide the third party online retailer with the aggregated user data from each request to stream the media content item.

2. The method of claim 1, further comprising:

receiving a license to reproduce the media content from a licensing system when the request is granted by the licensing system; and

preventing streaming of the media content item when the request is declined by the licensing system.

3. The method of claim 2, further comprising:

reproducing the media content item based on a plurality of reproduction parameters in the license that is received from the licensing system.

4. The computer implemented method of claim 1, further comprising:

storing in the license database the user data that is associated with the user that is attempting to stream the media content item that is accessible to a third party online media retailer that has been selected by the copyright owner to distribute the media content item.

5. The method of claim 1, wherein the user data includes a geographic location of the user who is streaming the media content item.

6. The method of claim 1, wherein the user data includes additional media content items that the user has previously accessed.

7. A computer implemented method for configuring a media content system for streaming, the method comprising:

receiving a request from an external device associated with a user to stream a media content item, wherein the request to stream includes digital media information associated with the media content item included in a digital media file and the digital media information includes at least one identification characteristic that is unique to the media content item that is included in the media content item when the media content item is initially created and not dependent on any encoding during any mastering of the media content item;

extracting user data that is specific to the user that is attempting to stream the media content item, wherein the user data includes each media content item that the user streamed and each media content item that the user declined to stream that enables the third party online retailer to target marketing of different media content items to the user based on a history of media content items that the user has streamed and media content items that the user has declined to stream to determine a trend of interest in media content items by the user and to thereby target the marketing of the different media content items to the user based on the determined trend of interest associated with the user;

aggregating the user data into a statistics record for the request to stream the media content item, wherein the statistics record summarizes the user data associated with the request to stream the media content item;

storing in a database the statistics record so that the user data is accessible to the third party online retailer that is providing the media content item to be streamed; and

analyzing a plurality of statistics records aggregated from each request to stream the

media content item as provided to the third party online retailer to provide the third party online retailer with the aggregated user data from each request to stream the media content item.

8. The method of claim 6, further comprising:

generating a license record that includes license granting information associated with the license granted to the external device; and

storing the license record in a registered user database that is associated with the user.

9. The method of claim 6, wherein the digital media information includes the at least one identification characteristics that is a digital fingerprint associated with the media content item.

10. The method of claim 6, further comprising:

storing in the license database the user data that is associated with the user that is attempting to stream the media content item that is accessible to a third party online media retailer that has been selected by the copyright owner to distribute the media content item.

11. The method of claim 6, wherein the user data includes additional media content items that the user has previously accessed.

12. A system for configuring a multimedia hardware device to generate a stream of a media content item included in a digital media file, comprising:

at least one processor; and

a memory coupled with the processor, the memory including instructions that, when executed by the processor cause the processor to:

receive a request from a user requesting to stream the media content item;

extract user data that is specific to the user that is attempting to stream the media content item, wherein the user data includes each media content item that the user streamed and each media content item that the user declined to stream that enables a third party online retailer to target marketing of different media content items to the user based on a history of media content items that the user has streamed and media content items that the user has declined to stream to determine a trend of interest in media content items by the user and to thereby target the marketing of the different media content items to the user based on the determined trend of

interest associated with the user,

aggregate the user data into a statistics record to stream the media content item for the request, wherein the statistics record summarizes the user data associated with the request to stream the media content item,

store in a database the statistics record so that the user data is accessible to the third party online retailer that is providing the media content item to be streamed, and

analyze a plurality of statistics records aggregated from each request to stream the media content item as provided to the third party online retailer to provide the third party online retailer with the aggregated user data from each request to stream the media content item.

13. The system of claim 11, wherein the processor is further configured to:

receive a license to stream the media content item from a licensing system when the request is granted by the licensing system; and

prevent streaming of the media content item when the request is declined by the licensing system.

14. The system of claim 11, wherein the processor is further configured to stream the media content item based on a plurality of streaming parameters included in the license that is received from the licensing system.

15. The system of claim 11, wherein the processor is further configured to store in the license database the user data that is associated with the user that is attempting to stream the media content item that is accessible to a third party online media retailer that has been selected by the copyright owner to distribute the media content item.

16. The system of claim 11, wherein the user data includes a quantity of times that the user has previously accessed the media content item and additional media content items.

17. A system for configuring a media content system for streaming, comprising:

a receiver configured to receive a request from an external device associated with a user to stream the media content item, wherein the request includes digital media information associated with the media content item included in a digital media file and the digital media

information includes at least one identification characteristic that is unique to the media content item that is included in the media content item when the media content item is initially created and not dependent on any encoding during any mastering of the media content item;

at least one processor; and

a memory coupled with the processor, the memory including instructions that, when executed by the processor cause the processor to:

extract user data that is specific to the user that is attempting to stream the media content item, wherein the user data includes each media content item that the user streamed and each media content item that the user declined to stream that enables the third party online retailer to target marketing of different media content items to the user based on a history of media content items that the user has streamed and media content items that the user has declined to stream to determine a trend of interest in media content items by the user and to thereby target the marketing of the different media content items to the user based on the determined trend of interest associated with the user,

aggregate the user data into a statistics record for the request to stream the media content item, wherein the statistics record summarizes the user data associated with the media licensing request, and

store in a database the statistics record so that the user data is accessible to the third party online retailer that is providing the media content item to be streamed, and

analyze a plurality of statistics records aggregated from each request to stream the media content item as provided to the third party line retailer to provide the third party online retailer with the aggregated user data from each request to stream the media content item.

18. The system of claim 16, wherein the processor is further configured to:

generate a license record that includes license granting information associated with the license granted to the external device; and

store the license record in a registered user database that is associated with the user.

19. The system of claim 16, wherein the processor is further configured to store in the license database the user data that is associated with the user that is attempting to stream the media

content item that is accessible to a third party online media retailer that has been selected by the copyright owner to distribute the media content item.

20. The system of claim 16, wherein the user data includes a geographic location of the user who is accessing the media content item that enables the copyright owner to gauge geographic locations where the media content item is being accessed.

21. The system of claim 16, wherein the user data includes additional media content items that the user has previously accessed.

Abstract

Systems and methods for monetizing the reproduction of digital media content for the rights-holders of the digital media content. Embodiments of the presentdisclosure relate to determining whether a user of a media content item has a license to reproduce the media content item. In one embodiment, the media content item may be reproduced when the user is licensed. The user is prompted to select to acquire a license to reproduce the media content item or to decline the license to reproduce the media content item when the user is not licensed. Furtherembodiments determine whether a user may receive a license when the user wishes to acquire a license. In an embodiment, the user is declined a license when notapproved for the license.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
16/731,510

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
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), (i), 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(i))	21 minus 20 =	* 1	x 50 =	50	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	* 1	x 230 =	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).			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	1065		TOTAL	

APPLICATION AS AMENDED - PART II

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

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

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

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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
16/731,510	12/31/2019	3685	1065	ESTES-7	21	4

CONFIRMATION NO. 4913

FILING RECEIPT

43218
Taft Stettinius & Hollister LLP
ONE INDIANA SQUARE, SUITE 3500
INDIANAPOLIS, IN 46204-2023

OC000000014125385

Date Mailed: 01/24/2020

Receipt is acknowledged of this non-provisional utility 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 FIRST INVENTOR, 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 corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

Inventor(s)

Christopher A. Estes, Miami, FL;

Applicant(s)

Media Chain, LLC, Miami, FL;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 15/898,978 02/19/2018
which is a CON of 15/659,175 07/25/2017 PAT 9898590
which is a CON of 13/667,629 11/02/2012 PAT 9715581
which claims benefit of 61/555,810 11/04/2011

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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: 01/22/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/731,510**

Projected Publication Date: 04/30/2020

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

DIGITAL MEDIA REPRODUCTION AND LICENSING

Preliminary Class

705

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

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countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/731,510	12/31/2019	Christopher A. Estes	ESTES-7

CONFIRMATION NO. 4913

PUBLICATION NOTICE

43218
Taft Stettinius & Hollister LLP
ONE INDIANA SQUARE, SUITE 3500
INDIANAPOLIS, IN 46204-2023

OC000000116639928

Title:DIGITAL MEDIA REPRODUCTION AND LICENSING

Publication No.US-2020-0134138-A1
Publication Date:04/30/2020

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
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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/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	16/731,510
Filing Date	December 31, 2019
First Named Inventor	Christopher Estes
Title	DIGITAL MEDIA REPRODUCTION AND LICENSING
Art Unit	3685
Examiner Name	
Attorney Docket Number	MEDC0002CON2-4

SIGNATURE of Applicant or Patent Practitioner

Signature	/A. Robert Weaver/	Date (Optional)	6/22/2020
Name	Arthur Robert Weaver	Registration Number	63,123
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)	Media Chain LLC		

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 2 forms are submitted.

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

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Doc Code: PA..
Document Description: Power of Attorney

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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: 151861

OR

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

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

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

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

Media Chain, LLC

☐ Inventor or Joint Inventor (title not required below)

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

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

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

SIGNATURE of Applicant for Patent

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

Signature	Christopher Estes	Date (Optional)	
Name	Christopher A. Estes		
Title	Managing Partner		

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.

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Electronic Acknowledgement Receipt

EFS ID:	39783935
Application Number:	16731510
International Application Number:	
Confirmation Number:	4913
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Customer Number:	43218
Filer:	Arthur Robert Weaver
Filer Authorized By:	
Attorney Docket Number:	ESTES-7
Receipt Date:	22-JUN-2020
Filing Date:	31-DEC-2019
Time Stamp:	11:38:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA_tofile.pdf	226525 66ab2b145e949f2aaa9642123f9c76ca14889d38	no	2

Warnings:

Information:	
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/731,510	12/31/2019	Christopher A. Estes	MEDC0002CON2-4

CONFIRMATION NO. 4913

POA ACCEPTANCE LETTER

151861
The Brickell IP Group PLLC
1101 Brickell Avenue
South Tower, Suite 800
Miami, FL 33131

OC000000117959412

Date Mailed: 06/25/2020

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/22/2020.

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

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

/qnguyen/

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	16731510
Filing Date	31-Dec-2019
First Named Inventor	Christopher Estes
Attorney Docket Number	MEDC0002CON2-4
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
Media Chain, LLC	100%

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9715581

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- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
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○	I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

◉ Small Entity

○ Micro Entity

○ Regular Undiscounted

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

◉ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 63123

○ A sole inventor

○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

○ A joint inventor; all of whom are signing this request

Signature	/A. Robert Weaver/
Name	Arthur Robert Weaver

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	16731510
Filing Date:	31-Dec-2019
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Filer:	Arthur Robert Weaver
Attorney Docket Number:	MEDC0002CON2-4

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**160**

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 16731510

Filing Date: 31-Dec-2019

Applicant/Patent under Reexamination: Estes

Electronic Terminal Disclaimer filed on September 28, 2020

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	40683752
Application Number:	16731510
International Application Number:	
Confirmation Number:	4913
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Customer Number:	151861
Filer:	Arthur Robert Weaver
Filer Authorized By:	
Attorney Docket Number:	MEDC0002CON2-4
Receipt Date:	28-SEP-2020
Filing Date:	31-DEC-2019
Time Stamp:	11:25:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$160
RAM confirmation Number	E20209RB25379536
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33472 a7304a366af9f3fdd07ffbd6fc6b5604dd29b80e	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30562 7cc11de95ed18bd30201e34305c336ee38c9b3a4	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	64034		

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

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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NOTICE OF ALLOWANCE AND FEE(S) DUE

151861 7590 10/07/2020
The Brickell IP Group PLLC
1101 Brickell Avenue
South Tower, Suite 800
Miami, FL 33131

EXAMINER
MCCOY, RICHARD ANTHONY

ART UNIT	PAPER NUMBER
2431	

DATE MAILED: 10/07/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/731,510	12/31/2019	Christopher A. Estes	MEDC0002CON2-4	4913

TITLE OF INVENTION: DIGITAL MEDIA REPRODUCTION AND LICENSING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0.00	$0.00	$600	01/07/2021

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)

151861 7590 10/07/2020
The Brickell IP Group PLLC
1101 Brickell Avenue
South Tower, Suite 800
Miami, FL 33131

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.
16/731,510	12/31/2019	Christopher A. Estes	MEDC0002CON2-4	4913

TITLE OF INVENTION: DIGITAL MEDIA REPRODUCTION AND LICENSING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0.00	$0.00	$600	01/07/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
MCCOY, RICHARD ANTHONY	2431	726-032000

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. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/731,510	12/31/2019	Christopher A. Estes	MEDC0002CON2-4	4913

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South Tower, Suite 800
Miami, FL 33131

EXAMINER
MCCOY, RICHARD ANTHONY

ART UNIT	PAPER NUMBER
2431	

DATE MAILED: 10/07/2020

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. 16/731,510	Applicant(s) Estes, Christopher A.	
	Examiner RICHARD A MCCOY	Art Unit 2431	AIA (FITF) Status Yes

-- 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 claims filed 12/31/2019.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are 22-38 . 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. 9/24/2020.
5. ☑ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/R.A.M/ Examiner, Art Unit 2431	/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Information Disclosure Statement

The IDS filed 12/31/2019 has been entered and considered.

Drawings

The drawings filed 12/31/2019 are accepted.

Specification

The specification filed 12/31/2019 is accepted.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with A. Robert Weaver on 9/24/2020.

The application has been amended as follows:

1-21 (cancelled)

22. (New) A multimedia hardware device comprising:

a processor; and

a memory coupled with the processor, the memory including instructions that, when executed by the processor cause the processor to:

generate a first request from a user to evaluate streaming a first media content item to the device;

identify the first media content item by determining a first media fingerprint that identifies a first unique characteristic inherently present in the first media content item captured during the recorded creation of the first media content item, and excluding information introduced to the first media content item extraneous to the recorded creation;

extract first user data specific to the user when the user accepts to stream the first media content item;

generate a second request from the user to evaluate streaming a second media content item to the device;

identify the second media content item by determining a second media fingerprint that identifies a second unique characteristic inherently present in the second media content item captured during the recorded creation of the second media content item, and excluding information introduced to the second media content item extraneous to the recorded creation;

extract second user data specific to the user when the user declines to stream the second media content item;

aggregate the extracted first user data into a first statistics record and the extracted second user data into a second statistics record, wherein the first statistics record summarizes the first user data and the second statistics record summarizes the second user data; and

transmit to a database the first and second statistics record with the identities of the first and second media content items determined by the first and second media fingerprints so that the summarized first and second user data is accessible to a third party online retailer for

retrieving the first and second statistics record with the identities of the first and second media content items determined by the first and second media fingerprints,

analyzing the retrieved first and second statistics record to determine a target demographic of the first and second media content items based on a demographic corresponding to the first and second user data, and

providing the third party online retainer the target demographic to market the media content item to a plurality of other users corresponding to the target demographic of the media content item.

23. (New) The device of claim 22, wherein the first media content item is a first version of an audiovisual work and the second media content item is a second version of the audiovisual work.

24. (New) The device of claim 23, wherein the first and second unique characteristics are the occurrence of various audio frequencies at particular points in time in the audiovisual work.

25. (New) The device of claim 23, wherein the first version is a live version of the audiovisual work and the second version is a studio version of the audiovisual work.

26. (New) The device of claim 23, wherein the first version is authorized for streaming to the user by a copyright owner of the audiovisual work and the second version is unauthorized for streaming to the user by the copyright owner of the audiovisual work.

27. (New) The device of claim 22, wherein the first media content item is a first version of a book in digital format and the second media content item is a second version of the book in digital format.

28. (New) The device of claim 22, wherein the first and second user data includes a geographic location of the user.

29. (New) The device of claim 22, wherein the first user data includes the number of times the user requested to evaluate streaming the first media content item, and the second user data includes the number of times the user requested to evaluate streaming the second media content item.

30. (New) The device of claim 22, wherein the processor is further configured to:

receive a license to stream the first media content item from a licensing system when the request is granted by the licensing system; and

prevent streaming of the first media content item when the request is declined by the licensing system.

31. (New) The device of claim 22, wherein the processor is further configured to stream the first media content item based on a plurality of streaming parameters included in the license that is received from the licensing system.

32. (New) The device of claim 22, wherein the processor is further configured to

identify a first digital watermark included in a first media file of the first media content item, and

identify a second digital watermark included in a second media file of the second media content item.

33. (New) The device of claim 32, wherein the first digital watermark is metadata in the first media file, and the second digital watermark is metadata in the second media file.

33. (New) The device of claim 22, wherein the processor is further configured to load a first digital media file for reproduction, wherein the digital media file include the first media content item.

34. (New) The device of claim 22 further comprising a display, and the processor is further configured to generate a display query on the display asking the user whether the user would like to stream the first media content item.

35. (New) The device of claim 22, wherein the processor is further configured to collect and transmit user identification data that confirms the user's identity.

36. (New) The device of claim 22, wherein the processor is further configured to transmit the first and second media fingerprints for confirmation of the first and second media content items with a digital media catalog database.

37. (New) The device of claim 22, wherein the processor is further configured to collect payment from the user to stream the first media content item.

38. (New) The device of claim 22, wherein the processor is further configured to transmit the first and second statistics record in real time.

Allowable Subject Matter

Claims 22-38 are allowed.

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

Shintani (US 2012/0123916) discloses capturing marketing/demographic data upon license grant **[0046]**

Shin et al (US 8745647) discloses capturing audience metrics (*see* **C9 56 – 67**) including demographics for viewers of audiovisual works. Moreover, in Fig 10, Shin discloses a graph showing the percentage of a video completed for the viewers who began watching a video *thereby* indicating users that declined to stream the video.

Block et al (US 2003/0220883) discloses storing a user's answer relating to the acceptance or refusal of a license agreement.

DeBusk et al (US 2006/0277047 hereinafter Debusk), particularly [**0046**] - [**0052**]. In [**0052**], Debusk discloses text, frequency, or pixel based media finger prints organized according to time points known as landmarks.

Even though Shin, Shintani, and Block teach various limitations relating to users streaming or not streaming content and even though DeBusk teaches a media fingerprint derived from recorded media, the art does not include teachings that would indicate a motivation to combine DeBusk with Shin, Shintani, and Block to arrive at the claimed invention.

More particularly, the prior art is silent in explicitly teaching or rendering obvious the limitations of:

- identify the first media content item by determining a first media fingerprint that identifies a first unique characteristic inherently present in the first media content item captured during the recorded creation of the first media content item, and excluding information introduced to the first media content item extraneous to the recorded creation;
- extract second user data specific to the user when the user declines to stream the second media content item;
- retrieving the first and second statistics record with the identities of the first and second media content items determined by the first and second media fingerprints,
- analyzing the retrieved first and second statistics record to determine a target demographic of the first and second media content items based on a demographic corresponding to the first and second user data,

in combination with all the other claim requirements.

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

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RICHARD A MCCOY whose telephone number is (313)446-6520. The examiner can normally be reached on M - F 10 - 6.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on 571 272 2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/R.A.M/
Examiner, Art Unit 2431

/LYNN D FEILD/
Supervisory Patent Examiner, Art Unit 2431

Examiner-Initiated Interview Summary	Application No. 16/731,510	Applicant(s) Estes, Christopher A.	
	Examiner RICHARD A MCCOY	Art Unit 2431	AIA (FITF) Status Yes

All participants (applicant, applicant's representative, PTO personnel):

(1) RICHARD A. MCCOY. (3) _____.

(2) A. Robert Weave. (4) _____.

Date of Interview: 24 September 2020.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☑ No.
If Yes, brief description: _____.

Issues Discussed ☐ 101 ☐ 112 ☐ 102 ☐ 103 ☑ Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1.

Identification of prior art discussed: Shin.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Examiner called applicant to propose language for expedited prosecution. Agreements was reached and an examiners amendment was authorized..

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/RICHARD A MCCOY/ Examiner, Art Unit 2431	/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431

Notice of References Cited	Application/Control No. 16/731,510	Applicant(s)/Patent Under Reexamination Estes, Christopher A.	
	Examiner RICHARD A MCCOY	Art Unit 2431	Page 1 of 5

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20120096339-A1	04-2012	Cohen; Laurence G.	H04L67/06	715/221
*	B	US-20110213721-A1	09-2011	RALEY; Michael Charles	G06F21/105	705/310
*	C	US-20040039916-A1	02-2004	Aldis, David	G06F21/105	713/177
*	D	US-6920567-B1	07-2005	Doherty; Robert J.	G06F21/10	707/999.104
*	E	US-20050114265-A1	05-2005	Satkunanathan, Lingan	G06Q20/3674	705/59
*	F	US-20130047271-A1	02-2013	Tang; Ding-Yuan	G06F21/10	726/30
*	G	US-20100324983-A1	12-2010	Etchegoyen; Craig S.	H04L63/062	705/14.23
*	H	US-20110051914-A1	03-2011	Neuman; Michael	H04M19/04	379/93.17
*	I	US-20120010931-A1	01-2012	Mehra; Krishna Kumar	G06Q30/02	705/14.16
*	J	US-20150040002-A1	02-2015	Kannan; Anu	G06K9/22	715/246
*	K	US-20120109834-A1	05-2012	Bongiovanni; Michele	G06Q30/018	705/317
*	L	US-20070055439-A1	03-2007	Denker; Dennis	G06Q10/02	701/532
*	M	US-20090210245-A1	08-2009	Wold; Edwin Leonard	G06Q30/02	700/300

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
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NON-PATENT DOCUMENTS

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Notice of References Cited	Application/Control No. 16/731,510	Applicant(s)/Patent Under Reexamination Estes, Christopher A.	
	Examiner RICHARD A MCCOY	Art Unit 2431	Page 2 of 5

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*	C	US-20130051772-A1	02-2013	Ramaswamy; Arun	G06Q30/0201	386/291
*	D	US-20080243694-A1	10-2008	Johnson; Jerry Alan	G06Q30/0603	705/52
*	E	US-20080027742-A1	01-2008	Maeda; Kenji	G06F21/105	705/1.1
*	F	US-20070241176-A1	10-2007	Epstein; Johnny Stuart	H04N21/25808	235/375
*	G	US-20060031785-A1	02-2006	Raciborski; Nathan F.	G06F16/487	715/859
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*	I	US-20050004873-A1	01-2005	Pou, Robin	G06F21/10	705/51
*	J	US-20020154157-A1	10-2002	Sherr, Scott Jeffrey	G06F21/10	715/716
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Notice of References Cited	Application/Control No. 16/731,510	Applicant(s)/Patent Under Reexamination Estes, Christopher A.	
	Examiner RICHARD A MCCOY	Art Unit 2431	Page 3 of 5

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	Examiner RICHARD A MCCOY	Art Unit 2431	Page 4 of 5

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Notice of References Cited	Application/Control No. 16/731,510	Applicant(s)/Patent Under Reexamination Estes, Christopher A.	
	Examiner RICHARD A MCCOY	Art Unit 2431	Page 5 of 5

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*	G	US-20020120925-A1	08-2002	Logan, James D.	A61K36/48	725/9
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/731,510	Estes, Christopher A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

CPC - Searched*		
Symbol	**Date**	**Examiner**

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**
(G06F21/10G06F21/105G06F21/16).cpc.	09/26/2020	mccoy

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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Search Notes		
Search Notes	**Date**	**Examiner**
art searched using east as well as previously searched prior art	09/26/2020	mccoy

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
searched using key words. see east file		09/26/2020	mccoy

/R.A.M/ Examiner, Art Unit 2431	/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/731,510	Estes, Christopher A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

CPC

Symbol					Type	Version
G06F	/	21	/	10	F	2013-01-01
G06Q	/	30	/	02	I	2013-01-01
G06F	/	16	/	487	I	2019-01-01
G06F	/	16	/	22	I	2019-01-01
G06F	/	21	/	105	I	2013-01-01
G06Q	/	30	/	0204	I	2013-01-01
H04N	/	21	/	4402	I	2013-01-01
H04N	/	21	/	4532	I	2013-01-01
H04N	/	21	/	4627	I	2013-01-01
H04N	/	21	/	4667	I	2013-01-01
G06F	/	2221	/	0713	A	2013-01-01
G06Q	/	50	/	184	A	2013-01-01

CPC Combination Sets

Symbol					Type	Set	Ranking	Version
	/		/					

/RICHARD A MCCOY/ Examiner, Art Unit 2431 (Assistant Examiner)	26 September 2020 (Date)	**Total Claims Allowed:** 17	
/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431 (Primary Examiner)	28 September 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

U.S. Patent and Trademark Office

Part of Paper No.: 20200926

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/731,510	Estes, Christopher A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06F	/	21	/	10

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
726	32

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

/RICHARD A MCCOY/ Examiner, Art Unit 2431 (Assistant Examiner)	26 September 2020 (Date)	**Total Claims Allowed:** 17	
/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431 (Primary Examiner)	28 September 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/731,510	Estes, Christopher A.
	Examiner	**Art Unit**
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☐ 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		10		19	7	28	16	37						
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	7		16	4	25	13	34								
	8		17	5	26	14	35								
	9		18	6	27	15	36								

/RICHARD A MCCOY/ Examiner, Art Unit 2431 (Assistant Examiner)	26 September 2020 (Date)	**Total Claims Allowed:** 17	
/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431 (Primary Examiner)	28 September 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

U.S. Patent and Trademark Office Part of Paper No.: 20200926

Bibliographic Data

Application No: 16/731,510

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: /RICHARD A MCCOY/ | Examiner's Signature | Initials

Title: DIGITAL MEDIA REPRODUCTION AND LICENSING

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/31/2019 **RULE**	726	2431	MEDC0002CON2-4

APPLICANTS

Media Chain, LLC, Miami, FL, UNITED STATES

INVENTORS

Christopher A. Estes, Miami, FL, UNITED STATES

CONTINUING DATA

This application is a CON of 15898978 02/19/2018 PAT 10657226

15898978 is a CON of 15659175 07/25/2017 PAT 9898590

15659175 is a CON of 13667629 11/02/2012 PAT 9715581

13667629 has PRO of 61555810 11/04/2011

FOREIGN APPLICATIONS

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CONSIDERED: /R.A.M/

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2019-12-31
First Named Inventor	Christopher A. Estes
Art Unit	
Examiner Name	
Attorney Docket Number	ESTES-7

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.A.M/

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6920567	B1	2005-07-19	Doherty et al.	
	2	7676437	B2	2010-03-09	Satkunanathan et al.	
	3	8151194	B1	2012-04-03	Chan et al.	
	4	8745647	B1	2014-06-03	Shin et al.	
	5	9148706	B1	2015-09-29	Shin	

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	1	20020032905	A1	2002-03-14	Sherr et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Examiner Name	
	Attorney Docket Number	ESTES-7

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	2	20020154157	A1	2002-10-24	Sherr et al.	
	3	20030149884	A1	2003-08-07	Hernandez et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2019-12-31
	First Named Inventor	Christopher A. Estes
	Art Unit	
	Examiner Name	
	Attorney Docket Number	ESTES-7

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.A.M/

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	19	20110213721	A1	2011-09-01	Raley et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2019-12-31
	First Named Inventor	Christopher A. Estes
	Art Unit	
	Examiner Name	
	Attorney Docket Number	ESTES-7

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.A.M/

	24	20120124638	A1	2012-05-17	King et al.	
	25	20120123916	A1	2012-05-17	Shintani et al.	
	26	20120303490	A1	2012-11-29	Hill et al.	
	27	20130051772	A1	2013-02-28	Ramaswamy et al.	
	28	20130047271	A1	2013-02-21	Tang	
	29	20140108029	A1	2014-04-17	Kim	
	30	20150040002	A1	2015-02-05	Kanna et al.	
	31	20030001887	A1	2003-01-02	Smith, IV	
	32	20050021398	A1	2005-01-27	McCleskey et al.	
	33	20100293622	A1	2010-11-18	Nikitin et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2019-12-31
	First Named Inventor	Christopher A. Estes
	Art Unit	
	Examiner Name	
	Attorney Docket Number	ESTES-7

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.A.M/

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Habermann, Online Video Analytics: YouTube Insight-Advanced Techniques, May 17, 2000.	

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EXAMINER SIGNATURE

Examiner Signature	/RICHARD A MCCOY/	Date Considered	09/26/2020

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

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	Application Number	
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	Examiner Name	
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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Patrick J. Palascak/	Date (YYYY-MM-DD)	2019-12-31
Name/Print	Patrick J. Palascak	Registration Number	73533

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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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:

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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.

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2,157	licens$3 with (media content movie song video) with (database datastore repository)	US-PGPUB; USPAT	OR	ON	2014/02/04 17:55
S2	343	license with (media content movie song video) with (licens$3 adj2 (database datastore repository))	US-PGPUB; USPAT	OR	ON	2014/02/04 17:55
S3	44	license with (media content movie song video) with (licens$3 adj2 (database datastore repository)) with (query prompt interface gui dialog)	US-PGPUB; USPAT	OR	ON	2014/02/04 17:56
S4	0	license with (media content movie song video) with (licens$3 adj2 (database datastore repository)) with (query prompt interface gui dialog) same accept same decline	US-PGPUB; USPAT	OR	ON	2014/02/04 17:57
S5	0	license with (media content movie song video) with (licens$3 adj2 (database datastore repository)) with (query prompt interface gui dialog) with accept	US-PGPUB; USPAT	OR	ON	2014/02/04 17:57
S6	49	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog)	US-PGPUB; USPAT	OR	ON	2014/02/04 17:57
S7	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with payment	US-PGPUB; USPAT	OR	ON	2014/02/04 17:58
S8	5	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same (credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 17:59
S9	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same (credit pay$4) and watermark	US-PGPUB; USPAT	OR	ON	2014/02/04 18:01

S10	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same watermark	US-PGPUB; USPAT	OR	ON	2014/02/04 18:01
S11	2	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with (fingerprint watermark id identifier serial guid uuid)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02
S12	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with (fingerprint watermark id identifier serial guid uuid) same (credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02
S13	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same(fingerprint watermark id identifier serial guid uuid) same (credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02
S14	5	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same(fingerprint watermark id identifier serial guid uuid) and(credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02
S15	2	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with (fingerprint watermark id identifier serial guid uuid) and(credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02
S16	10	S8 S11 S14 S15	US-PGPUB; USPAT	OR	ON	2014/02/04 18:03
S17	4	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$).did. or (US-6920567-$).did.	US-PGPUB; USPAT	OR	ON	2014/02/04 18:25
S18	10,122	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2014/02/04 18:29
S19	0	S18 and (licens$3 adj3 (database datastore repository))with (query prompt interface gui dialog)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:31

		with(fingerprint watermark id identifier serial guid uuid) with (credit pay$4)				
S20	0	S18 and (licens$3 adj3 (database datastore repository))with (query prompt interface gui dialog) with (credit pay$4) same(fingerprint watermark id identifier serial guid uuid)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:31
S21	3	S18 and (licens$3 adj3 (database datastore repository))with (query prompt interface gui dialog) same(credit pay$4) same(fingerprint watermark id identifier serial guid uuid)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:31
S22	3	S18 and (licens$3 adj3 (database datastore repository))with (query prompt interface gui dialog) same(credit pay$4) same(fingerprint watermark id identifier serial guid uuid) not S16	US-PGPUB; USPAT	OR	ON	2014/02/04 18:32
S23	6	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$).did. or (US-6920567-$ or US-7676437-$).did.	US-PGPUB; USPAT	OR	ON	2014/02/04 18:32
S24	13	S16 S22	US-PGPUB; USPAT	OR	ON	2014/02/04 19:24
S25	6	(S16 S22) and S23	US-PGPUB; USPAT	OR	ON	2014/02/04 19:25
S26	88	(media content movie song video) with copyright adj2 (holder owner) with (online web$5 server) near4 (retail$3 distribut$3)	US-PGPUB; USPAT	OR	ON	2014/09/08 18:59
S27	0	(media content movie song video) with copyright adj2 (holder owner) with (online web$5 server) near4 (retail$3 distribut$3) with user adj2 (data information profile) with license adj2 database	US-PGPUB; USPAT	OR	ON	2014/09/08 19:00
S28	0	(media content movie song video) with copyright adj2 (holder owner) with (online web$5 server) near4 (retail$3 distribut$3) with user adj2 (data information profile) same2 license adj2 database	US-PGPUB; USPAT	OR	ON	2014/09/08 19:01
S29	0	(media content movie song video) with copyright adj2 (holder owner) with (online web$5 server) near4	US-PGPUB; USPAT	OR	ON	2014/09/08 19:02

		(retail$3 distribut$3) with user adj2 (data information profile) and license adj2 database				
S30	0	(media content movie song video) with copyright adj2 (holder owner) with (online web$5 server) near4 (retail$3 distribut$3) with user adj2 (data information profile) and license adj2 (database file store)	US-PGPUB; USPAT	OR	ON	2014/09/08 19:02
S31	2	(media content movie song video) with copyright adj2 (holder owner) with (retail$3 distribut$3) with user adj2 (data information profile) and license adj2 (database file store)	US-PGPUB; USPAT	OR	ON	2014/09/08 19:03
S32	4	publisher with (copyright near4 (own owner ownership holder)) with (pick select choose hire pay contract retain) with (retail$2 reseller distributor)	US-PGPUB; USPAT	OR	ON	2014/09/08 21:35
S33	4	publisher with (licensor (copyright near4 (own owner ownership holder))) with (pick select choose hire pay contract retain) with (retail$2 reseller distributor)	US-PGPUB; USPAT	OR	ON	2014/09/08 21:36
S34	177	(artist author licensor (copyright near4 (own owner ownership holder))) with (pick select choose hire pay contract retain) with (retail$2 reseller distributor)	US-PGPUB; USPAT	OR	ON	2014/09/08 21:39
S35	173	(artist author licensor (copyright near4 (own owner ownership holder))) with (pick select choose hire pay contract retain) with (retail$2 reseller distributor) not S33	US-PGPUB; USPAT	OR	ON	2014/09/08 21:39
S36	111	(artist author licensor (copyright near4 (own owner ownership holder))) with (pick select choose hire pay contract retain) with (retail$2 reseller distributor) not S33 and publish$3	US-PGPUB; USPAT	OR	ON	2014/09/08 21:40
S37	173	(artist author licensor (copyright near4 (own owner ownership holder))) with (pick select choose hire pay contract retain) with (retail$2 reseller distributor) not S33 with publish$3	US-PGPUB; USPAT	OR	ON	2014/09/08 21:40
S38	17	publish$2 with (artist author licensor (copyright near4 (own owner ownership holder))) with (pick select	US-PGPUB; USPAT	OR	ON	2014/09/08 21:40

		choose hire pay contract retain) with (retail$2 reseller distributor) not S33				
S39	16,066	apple.as.	US-PGPUB; USPAT	OR	ON	2014/09/09 13:05
S40	0	license with user adj3 data with itunes with (media music song mp3)	US-PGPUB; USPAT	OR	ON	2014/09/09 13:06
S41	28	license with user adj3 data with (media music song mp3) with server	US-PGPUB; USPAT	OR	ON	2014/09/09 13:06
S42	0	S39 and S41	US-PGPUB; USPAT	OR	ON	2014/09/09 13:06
S43	9	license with (media music song mp3) with server with device with manufactur$3	US-PGPUB; USPAT	OR	ON	2014/09/09 13:09
S44	0	S41 and S43	US-PGPUB; USPAT	OR	ON	2014/09/09 13:09
S45	24	iphone with itunes and S39	US-PGPUB; USPAT	OR	ON	2014/09/09 13:56
S46	0	license near4 (validat$3) with (age birthday) with (address location)	US-PGPUB; USPAT	OR	ON	2015/04/23 12:54
S47	7	license with (validat$3) with (age birthday) with (address location)	US-PGPUB; USPAT	OR	ON	2015/04/23 12:54
S48	7	license with (validat$3) with (age birthday) with (address)	US-PGPUB; USPAT	OR	ON	2015/04/23 12:54
S49	5	license with (validat$3) with (age birthday demographic) with (address region country state location geographic) not S48	US-PGPUB; USPAT	OR	ON	2015/04/23 13:20
S50	10	license adj2 database with (age birthday demographic) with (address region country state location geographic) not S48	US-PGPUB; USPAT	OR	ON	2015/04/23 13:23
S51	0	(media content video audio song movie) with license adj2 database with (age birthday demographic) with (address region country state location geographic)	US-PGPUB; USPAT	OR	ON	2015/04/23 13:25
S52	4	(media content video audio song movie) with license with database with (age birthday demographic) with (address region country state location geographic)	US-PGPUB; USPAT	OR	ON	2015/04/23 13:26
S53	84	(media content video audio song movie) adj2 license adj2 database	US-PGPUB; USPAT	OR	ON	2015/04/23 13:27
S54	2,973	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2015/04/23 13:29

S58	2,198	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2015/04/23 13:30
S59	11,353	g06f21/10.cpc.	US-PGPUB; USPAT	OR	ON	2015/04/23 13:31
S60	943	g06f21/105.cpc.	US-PGPUB; USPAT	OR	ON	2015/04/23 13:31
S61	15,263	S54 S58 S59 S60	US-PGPUB; USPAT	OR	ON	2015/04/23 13:31
S62	0	S61 and (license adj2 database with (age birthday demographic) with (address region country state location geographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:31
S63	0	S61 and (license adj2 (database store) with (age birthday demographic) with (address region country state location geographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:32
S64	891	S61 and ((license adj2 (database store)))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:32
S65	0	S61 and ((license adj2 (database store)) with "user data" with (market$3 customer sale))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:34
S66	0	((license adj2 (database store)) with "user data" with (market$3 customer sale))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:35
S67	43	((license adj2 (database store)) with (customer user) near4 (data information) with (market$3 customer sale))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:36
S68	1	((license adj2 (database store)) with (customer user) near4 (data information) with ((new additional) adj2 (market$3 customer sale)))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:36
S69	269	(license adj2 (database store)) with (customer user demographic market sale usage meta) near4 (data information)	US-PGPUB; USPAT	OR	ON	2015/04/23 13:40
S70	62	(media content video audio song movie) with (license adj2 (database store)) with (customer user demographic market sale usage meta) near4 (data information)	US-PGPUB; USPAT	OR	ON	2015/04/23 13:41
S71	0	(media content video audio song movie) with (license adj2 (database store)) with (customer user demographic market sale usage meta) near4 (data information) with validation	US-PGPUB; USPAT	OR	ON	2015/04/23 13:41

S72	62	(media content video audio song movie) with (license adj2 (database store)) with (customer user demographic market sale usage meta) near4 (data information)	US-PGPUB; USPAT	OR	ON	2015/04/23 13:41
S73	345	(media content video audio song movie) with (license adj2 (database db store)) and ((customer user demographic market sale usage meta) near4 (data information) with (database db store))	US-PGPUB; USPAT	OR	ON	2015/04/23 14:10
S74	102	(media content video audio song movie) with (license adj2 (database db store)) same ((customer user demographic market sale usage meta) near4 (data information) with (database db store))	US-PGPUB; USPAT	OR	ON	2015/04/23 14:13
S75	63	(media content video audio song movie) with (license adj2 (database db store)) and ((customer user demographic market sale usage meta) near4 (data information) with (database db store) with (address region country state location geographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 14:14
S76	63	(media content video audio song movie) with (license adj2 (database db store)) and ((customer user demographic market sale usage meta) near4 (data information) with (database db store) with (address region country state location geographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 16:00
S77	71	(media content video audio song movie) with (license adj2 (database db store)) and ((customer user demographic market sale usage meta) near4 (data information) with (database db store) with (address region country state location geographic demographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 16:14
S78	1	(US-6920567-$).did.	USPAT	OR	ON	2015/11/30 13:51
S79	1	(US-20130047271-$).did.	US-PGPUB	OR	ON	2015/11/30 13:51
S80	2	(US-20020154157-$ or US-20020032905-$).did.	US-PGPUB	OR	ON	2015/11/30 13:51
S81	4	S78 S79 S80	US-PGPUB; USPAT	OR	ON	2015/11/30 13:51

S82	3	(compil$3 aggregat$3 assembl$4 creat$3) with (record statistics database summary) and S81	US-PGPUB; USPAT	OR	ON	2015/11/30 13:53
S83	23	youtube with analytic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:09
S84	181	(author owner) with content with analytic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:12
S85	0	((author owner) with content with analytic).ti.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:13
S86	2	((author owner) with content with analytic).ab.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:13
S87	3	((author owner) with content with analytic).clm.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:13
S88	5	S86 S87	US-PGPUB; USPAT	OR	ON	2015/11/30 16:13
S89	0	(author owner) with content with analytic with monotiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14
S90	0	(author owner) with content with analytic same monotiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14
S91	0	(author owner) with content with analytic and monotiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14
S92	0	(author owner) with content with analytic same youtube	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14
S93	13	(author owner) with content with analytic and youtube	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14
S94	0	(author owner) with content same analytic and monotiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:15
S95	20	(author owner) with content with analytic with (publisher distributor)	US-PGPUB; USPAT	OR	ON	2015/11/30 16:15
S96	49	(author owner) with (video song content) with (statistic analytic) with (publisher distributor)	US-PGPUB; USPAT	OR	ON	2015/11/30 16:21
S97	0	(author owner) with (video song content) with (statistic analytic) with (publisher distributor) same monitiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:21
S98	0	(author owner) with (video song content) with (statistic analytic) with (publisher distributor) and monitiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:21
S99	4	(author owner) with (video song content) with (statistic analytic) with (publisher distributor) with demographic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:21
S100	10	(author owner) with (video song content) with (statistic analytic) with	US-PGPUB; USPAT	OR	ON	2015/11/30 16:22

		(publisher distributor) same3 demographic				
S101	6	(author owner) with (video song content) with (statistic analytic) with (publisher distributor) same3 demographic not S99	US-PGPUB; USPAT	OR	ON	2015/11/30 16:22
S102	0	youtube.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:24
S103	14,879	google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:24
S104	274	google.as. and insight	US-PGPUB; USPAT	OR	ON	2015/11/30 16:24
S105	5	google.as. and insight and metrics and statistics and demographic and analytic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:25
S106	1	(US-8151194-$).did.	USPAT	OR	ON	2015/11/30 16:29
S107	15	(author owner publisher distributor) with (video song content) with (statistic analytic demographic geographic) with (views downloads) and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:31
S108	0	(author owner publisher distributor) with (video song content) with (statistic analytic demographic geographic) with (views downloads) same monotiz$3 and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:32
S109	0	video with monotiz$3 and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:33
S110	0	video with monotiz$3 and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:33
S111	41	video with syndication and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:55
S112	0	video with syndication with channel and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:55
S113	2	video with syndication and analytics and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:57
S114	0	video with syndication and analytics and demographic and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:58
S115	0	video with syndication same analytics with demographic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:59
S116	0	video with (monitization syndication) same analytics with demographic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:59
S117	17	video with (monitization syndication) and analytics with demographic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:59

S118	1	(US-6920567-$).did.	USPAT	OR	ON	2015/11/30 17:17
S119	1	(US-20130047271-$).did.	US-PGPUB	OR	ON	2015/11/30 17:17
S120	2	(US-20020154157-$ or US-20020032905-$).did.	US-PGPUB	OR	ON	2015/11/30 17:17
S121	4	S118 S119 S120	US-PGPUB; USPAT	OR	ON	2015/11/30 17:17
S122	3	(compil$3 aggregat$3 assembl$4 creat$3) with (record statistics database summary report) and S121	US-PGPUB; USPAT	OR	ON	2015/11/30 17:17
S123	1	"20030149884".pn.	US-PGPUB; USPAT	OR	ON	2016/06/10 14:38
S124	1	"20050060701".pn.	US-PGPUB; USPAT	OR	ON	2016/06/10 14:38
S125	32	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$).did. or (US-6920567-$ or US-7676437-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.	US-PGPUB; USPAT	OR	ON	2017/03/10 18:24
S126	0	((accept$3 receiv$3 acquir$3) near3 license) same ((declin$3 refus$3) near3 license) same ((captur$3 gather$3 record$3 log$4 with data))	US-PGPUB; USPAT	OR	ON	2017/03/10 18:25
S127	18	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3) near3 license) same ((captur$3 gather$3 record$3 log$4))	US-PGPUB; USPAT	OR	ON	2017/03/10 18:28
S128	180	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3) near3 license) same ((collect$3	US-PGPUB; USPAT	OR	ON	2017/03/10 18:29

		captur$3 gather$3 record$3 log$4)) not3				
S129	5	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3) near3 license) same ((collect$3 captur$3 gather$3 record$3 log$4)) not S127	US-PGPUB; USPAT	OR	ON	2017/03/10 18:29
S130	0	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3 reject$3) near3 license) same ((market$3 demographic) adj data age gender race)	US-PGPUB; USPAT	OR	ON	2017/03/10 18:38
S131	37	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3 reject$3) near3 license) same ((market$3 demographic) adj data age gender race country state region language origin)	US-PGPUB; USPAT	OR	ON	2017/03/10 18:57
S132	0	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3 reject$3) near3 license) same (((market$3 demographic) adj data) age gender race country state region language origin) not S131	US-PGPUB; USPAT	OR	ON	2017/03/10 19:00
S133	0	collect with (((market$3 demographic) adj data) age gender race country state region language origin) with browse near5 song	US-PGPUB; USPAT	OR	ON	2017/03/10 19:01
S134	0	collect with (((market$3 demographic) adj data) age gender race country state region language origin) with brows$3 near5 song	US-PGPUB; USPAT	OR	ON	2017/03/10 19:01
S135	7	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country state region language origin) with brows$3 near5 song	US-PGPUB; USPAT	OR	ON	2017/03/10 19:02
S136	10	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country state region language origin) with ((brows$3 near5 song) without adj license)	US-PGPUB; USPAT	OR	ON	2017/03/10 19:03
S137	3	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country state region language origin) with ((brows$3 near5 song) without adj license) not S135	US-PGPUB; USPAT	OR	ON	2017/03/10 19:03

S138	1	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country region language origin) with ((brows$3 near5 song) without adj license) not S135	US-PGPUB; USPAT	OR	ON	2017/03/10 19:05
S139	3	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country region language origin) with ((brows$3 near5 song) without adj license) not S135	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/10 19:05
S140	33	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic user) adj data)) with ((brows$3 near5 (movie media song)) without adj license) not S135	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/10 19:08
S141	33	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic user) adj data)) with ((brows$3 near5 (movie media song)) without adj license)	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/10 19:08
S142	8,980	licens$3 with (media content movie song video) with (acquisition acquire receive purchas$3 buy$2 accept$3 request$3)	US-PGPUB; USPAT	OR	ON	2017/03/13 12:27
S143	315	licens$3 with (media content movie song video) with (acquisition acquire receive purchas$3 buy$2 accept$3 request$3) same4 (user with (metrics statistics demographic analytic$2))	US-PGPUB; USPAT	OR	ON	2017/03/13 12:29
S144	19	licens$3 with (media content movie song video) with (acquisition acquire receive purchas$3 buy$2 accept$3 request$3) with (declin$3 refus$3) same4 (user with (metrics statistics demographic analytic$2 data))	US-PGPUB; USPAT	OR	ON	2017/03/13 12:30
S145	0	(licens$3 with (media content movie song video) with (acquisition acquire receive purchas$3 buy$2 accept$3 request$3) with (declin$3 refus$3) same4 ((demographic user) with (metrics statistics demographic analytic$2 data))) not S144	US-PGPUB; USPAT	OR	ON	2017/03/13 12:35
S146	19	(licens$3 with (media content movie song video) with (declin$3 refus$3) same4 ((demographic user) with	US-PGPUB; USPAT	OR	ON	2017/03/13 12:35

		(metrics statistics demographic analytic$2 data))) not S144				
S147	161	user with declines with license	US-PGPUB; USPAT	OR	ON	2017/03/13 12:43
S148	0	user with declines with license with (demographic marketing) adj data	US-PGPUB; USPAT	OR	ON	2017/03/13 12:44
S149	0	user with declines with license with (demographic marketing user) adj data	US-PGPUB; USPAT	OR	ON	2017/03/13 12:44
S150	0	user with declin$3 with license with (demographic marketing user) adj data	US-PGPUB; USPAT	OR	ON	2017/03/13 12:44
S151	2	user with declines with license and ((demographic marketing) adj data)	US-PGPUB; USPAT	OR	ON	2017/03/13 14:31
S152	0	"13073047".ap.	US-PGPUB; USPAT	OR	ON	2017/03/13 14:39
S153	12	"073047".ap.	US-PGPUB; USPAT	OR	ON	2017/03/13 14:39
S154	2	"13073047".apnr.	US-PGPUB; USPAT	OR	ON	2017/03/13 14:39
S155	2	"12970215".apnr.	US-PGPUB; USPAT	OR	ON	2017/03/13 14:40
S156	4	S154 S155	US-PGPUB; USPAT	OR	ON	2017/03/13 14:40
S157	0	S151 and (S154 S155)	US-PGPUB; USPAT	OR	ON	2017/03/13 14:42
S158	4	(S154 S155) and license and ((demographic marketing) adj data)	US-PGPUB; USPAT	OR	ON	2017/03/13 14:43
S159	3	declines with license and ((demographic marketing) adj data)	US-PGPUB; USPAT	OR	ON	2017/03/13 14:52
S160	0	declines with license and ((demographic marketing) adj data) not S159	US-PGPUB; USPAT	OR	ON	2017/03/13 14:52
S161	1	declines with license and ((demographic marketing) adj data) not S151	US-PGPUB; USPAT	OR	ON	2017/03/13 14:52
S162	8	declin$3 with license and ((demographic marketing) adj data) not S151 not S161	US-PGPUB; USPAT	OR	ON	2017/03/13 14:56
S163	2	declin$3 with license with ((stor$3 collect$3 gather$3 captur$3) adj data)	US-PGPUB; USPAT	OR	ON	2017/03/13 15:01
S167	34	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-	US-PGPUB; USPAT	OR	ON	2017/03/13 16:14

		20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$ or US-20120123916-$ or US-20030220883-$).did. or (US-6920567-$ or US-7676437-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.				
S168	33	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$ or US-20120123916-$ or US-20030220883-$).did. or (US-6920567-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.	US-PGPUB; USPAT	OR	ON	2017/03/15 12:40
S169	3,458	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21
S170	2,891	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21
S171	14,439	g06f21/10.cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21
S172	1,583	g06f21/105.cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21

S173	19,552	S169 S170 S171 S172	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21
S174	15,825	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:22
S175	19,945	S173 S174	US-PGPUB; USPAT	OR	ON	2017/10/01 14:22
S176	36,652	licens$3 with (media content movie song video copyright)	US-PGPUB; USPAT	OR	ON	2017/10/01 14:23
S177	7,027	S175 and S176	US-PGPUB; USPAT	OR	ON	2017/10/01 14:23
S178	1,325	license with (reject$3 refuse decline "not" adj3 accept)	US-PGPUB; USPAT	OR	ON	2017/10/01 14:44
S179	392	S177 and S178	US-PGPUB; USPAT	OR	ON	2017/10/01 14:44
S180	229	((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity)) and S179	US-PGPUB; USPAT	OR	ON	2017/10/01 14:48
S181	110	((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity)) same license with (reject$3 refuse decline "not" adj3 accept)	US-PGPUB; USPAT	OR	ON	2017/10/01 14:49
S182	158,677	((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))	US-PGPUB; USPAT	OR	ON	2017/10/01 14:51
S183	158,677	(data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3)	US-PGPUB; USPAT	OR	ON	2017/10/01 14:52
S184	118	S178 and ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))	US-PGPUB; USPAT	OR	ON	2017/10/01 14:52
S185	9	S175 and S178 and ((data information record) with (demographic marketing segment$5 age sex gender region state country	US-PGPUB; USPAT	OR	ON	2017/10/01 14:53

		preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))				
S186	20	license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))	US-PGPUB; USPAT	OR	ON	2017/10/01 15:10
S187	2	license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3)) not S186	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/10/01 15:50
S188	72	license with (no reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3)) not S186	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/10/01 15:50
S189	87	license with (no reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))	US-PGPUB; USPAT	OR	ON	2017/10/01 15:50
S190	72	license with ("no" reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3)) not S186	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/10/01 15:54
S194	34	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-20130047271-$ or US-20100324983-	US-PGPUB; USPAT	OR	OFF	2019/05/23 16:00

		$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$ or US-20120123916-$ or US-20030220883-$ or US-20120303490-$).did. or (US-6920567-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.				
S195	3,023	(request$3 acquir$3 get$4) near3 license with (content media music clip movie)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/23 16:01
S196	554	(request$3 acquir$3 get$4) near3 license with (content media music clip movie) same (user customer demographic marketing) near4 (data information age race)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/23 16:02
S197	45	(request$3 acquir$3 get$4) near3 license with (content media music clip movie) same (user customer demographic marketing age race) near4 (data information age race) and ((analyz$3 aggregat$3 mining) with (user customer demographic marketing age race) near4 (data information age race))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/23 16:05
S198	21	(request$3 acquir$3 get$4) near3 license with (content media music clip movie) same (user customer demographic marketing age race) near4 (data information age race) same3((analyz$3 aggregat$3 min$3) with (user customer demographic marketing age race) near4 (data information age race))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/23 16:06
S199	47	(request$3 acquir$3 get$4) near3 license with (content media music clip movie) same (user customer demographic marketing age race) near4 (data information age race) and ((user customer demographic	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/23 16:19

		marketing age race advertis$3) near4 (data information age race) with (market$3 advertis$3))				
S200	6	(request$3 acquir$3 get$4) near3 license with (content media music clip movie) same (user customer demographic marketing age race) near4 (data information age race) same3((user customer demographic marketing age race advertis$3) near4 (data information age race) with (market$3 advertis$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/23 16:20
S201	66	license with (content media music clip movie) same ((collect$3 stor$3 acquir$3) with (user customer demographic marketing age race) near4 (data information age race)) same ((market$3 advertis$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/23 16:26
S202	58	license with (content media music clip movie) same ((collect$3 stor$3 acquir$3) with (user customer demographic marketing age race) near4 (data information age race)) same ((market$3 advertis$3)) and (marketing advertising demographic)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/23 17:15
S203	71	license with (content media music clip movie) same ((collect$3 stor$3 acquir$3) with (user customer demographic marketing age race) near4 (data information age race)) same ((market$3 advertis$3)) and (marketing advertising demographic)	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/23 17:18
S204	4	request$3 near5 license with (content media music clip movie) same ((collect$3 stor$3 acquir$3) with (user customer demographic marketing age race) near4 (data information age race)) same ((market$3 demographic)) and (marketing demographic)	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/23 17:35
S205	1	"20030001887".pn. and license	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/23 18:16
S206	1	"20030001887".pn. and user with request$3 with license	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/23 18:17
S207	1	"20030001887".pn. and user with request$3 with license and user adj3 information	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/23 18:18

S208	1	"20030001887".pn. and user with request$3 with license and user adj3 information and license	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/23 18:18
S209	0	"20030001887".pn. and user with request$3 with license and user adj3 information and license and demographic with market$3	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/23 18:22
S210	48	user with request$3 with license and user adj3 information same license and demographic with market$3	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/23 18:22
S211	1	"20030001887".pn. and user with request$3 with license and user adj3 information and license	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/24 16:09
S212	1	S211 and server with (storage memory store database)	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/24 16:10
S213	1	"20030001887".pn. and (storage memory database store disk rom ram harddisk)	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/24 16:11
S214	1	"20100293622".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/28 16:45
S215	35	("20020032905" | "20020154157" | "20030149884" | "20030220883" | "20040039916" | "20050004873" | "20050060701" | "20050114265" | "20050177844" | "20050223415" | "20060031785" | "20070055439" | "20070241176" | "20080027742" | "20080243694" | "20090210245" | "20100324983" | "20110051914" | "20110213721" | "20120010931" | "20120096339" | "20120109834" | "20120123831" | "20120123916" | "20120124638" | "20120303490" | "20130047271" | "20130051772" | "20140108029" | "20150040002" | "6920567" | "7676437" | "8151194" | "8745647" | "9148706").PN.	US-PGPUB; USPAT	OR	OFF	2019/05/28 17:17
S216	0	((("Media") near3 ("Chain") near3 ("LLC"))).AS,AANM.	USPAT	OR	OFF	2019/05/28 17:18
S217	31	((("Estes") near3 ("Christopher") near3 ("A"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/28 17:18
S218	5	S217 and declin$3.clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/28 17:19

S219	31	((("Estes") near3 ("Christopher") near3 ("A"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/13 13:28
S220	5	S219 and declin$3.clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/13 13:28
S221	21	(request$3 acquir$3 get$4) near3 license with (content media music clip movie) same (user customer demographic marketing age race) near4 (data information age race) same3((analyz$3 aggregat$3 min$3) with (user customer demographic marketing age race) near4 (data information age race))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/13 14:51
S222	12	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same(fingerprint watermark id identifier serial guid uuid) and(credit pay$4)	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52
S223	7	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same (credit pay$4)	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52
S224	6	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with (fingerprint watermark id identifier serial guid uuid)	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52
S225	6	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with (fingerprint watermark id identifier serial guid uuid) and(credit pay$4)	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52
S226	19	S223 S224 S222 S225	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52
S227	18,008	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52
S228	7	S227 and (licens$3 adj3 (database datastore repository))with (query prompt interface gui dialog) same(credit pay$4) same(fingerprint	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52

		watermark id identifier serial guid uuid) not S226				
S229	4	publisher with (licensor (copyright near4 (own owner ownership holder))) with (pick select choose hire pay contract retain) with (retail$2 reseller distributor)	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52
S230	18	publish$2 with (artist author licensor (copyright near4 (own owner ownership holder))) with (pick select choose hire pay contract retain) with (retail$2 reseller distributor) not S229	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52
S231	14	license with (media music song mp3) with server with device with manufactur$3	US-PGPUB; USPAT	OR	ON	2019/06/13 14:52
S232	6	(request$3 acquir$3 get$4) near3 license with (content media music clip movie) same (user customer demographic marketing age race) near4 (data information age race) same3((user customer demographic marketing age race advertis$3) near4 (data information age race) with (market$3 advertis$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/13 14:52
S233	21	(request$3 acquir$3 get$4) near3 license with (content media music clip movie) same (user customer demographic marketing age race) near4 (data information age race) same3((analyz$3 aggregat$3 min$3) with (user customer demographic marketing age race) near4 (data information age race))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/13 14:52
S234	7	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same (credit pay$4)	US-PGPUB; USPAT	OR	ON	2019/06/13 14:53
S235	38	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-	US-PGPUB; USPAT	OR	ON	2019/06/19 12:00

		20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$ or US-20120123916-$ or US-20030220883-$ or US-20120303490-$ or US-20050021398-$ or US-20030001887-$ or US-20100293622-$).did. or (US-6920567-$ or US-7676437-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.				
S236	11	S235 and ((count$3 number) near4 (play view stream))	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 12:01
S237	11	S235 and ((count$3 number track$3) near4 (play view stream))	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 12:03
S238	38	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$ or US-20120123916-$ or US-20030220883-$ or US-20120303490-$ or US-20050021398-$ or US-20030001887-$ or US-20100293622-$).did. or (US-6920567-$ or US-7676437-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:55
S239	11	S238 and ((count$3 number track$3) near4 (play view stream))	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 15:55

S240	18,036	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:55
S241	3,735	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:56
S242	3,686	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:56
S243	16,291	g06f21/10.cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:56
S244	1,997	g06f21/105.cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:56
S245	22,451	S241 S242 S243 S244	US-PGPUB; USPAT	OR	ON	2019/06/19 15:56
S246	3,735	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:57
S247	3,686	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:57
S248	16,291	g06f21/10.cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:57
S249	1,997	g06f21/105.cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:57
S250	22,451	S246 S247 S248 S249	US-PGPUB; USPAT	OR	ON	2019/06/19 15:57
S251	18,036	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:57
S252	22,961	S250 S251	US-PGPUB; USPAT	OR	ON	2019/06/19 15:57
S253	18,036	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2019/06/19 15:57
S254	22,961	S240 S241 S242 S243 S244 S245 S246 S247 S248 S249 S250 S251 S252 S253	US-PGPUB; USPAT	OR	ON	2019/06/19 15:57
S255	268	(user near4 account) same ((user near4 (enter input) near4 (data information) near4 (personal demographic age gender account)) same ((user account) near4 database) with stor$3)	US-PGPUB; USPAT	OR	ON	2019/06/19 16:03
S256	274,800	stream near4 (music video content media)	US-PGPUB; USPAT	OR	ON	2019/06/19 16:08
S257	42,019	user with ((count$3 number track$3) near4 (play view stream))	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:09
S258	3,210	((count$3 number track$3) near4 (play view stream)) with (market$3 advertis$3)	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:10

S259	0	S255 and S256 and S257 and S258	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:11
S260	4,404	(user near4 account) and ((user near4 (enter input) near4 (data information) near4 (personal demographic age gender account)) and ((user account) near4 database) with stor$3)	US-PGPUB; USPAT	OR	ON	2019/06/19 16:11
S261	0	S255 and S256 and S257	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:12
S262	9	S260 and S256 and S257 and S258	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:13
S263	730	(user near4 account) same ((user near4 (enter input) near4 (data information) near4 (personal demographic age gender account profile)) same ((user account) near4 database))	US-PGPUB; USPAT	OR	ON	2019/06/19 16:16
S264	0	S263 and S256 and S257 and S258	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:17
S265	4	S263 and S256 and S257	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:17
S266	390,781	((count$3 number track$3) near4 (play view stream))	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:19
S267	77,989	(((count$3 number track$3) near4 (play view stream))) and (market$3 advertis$3)	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:20
S268	1,498	S254 and ((((count$3 number track$3) near4 (play view stream))) and (market$3 advertis$3))	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:20
S269	1	S263 and S256 and S257 and S268	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:21
S270	4	S263 and S256 and S257 and S267	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:31
S271	0	S255 and S256 and S257 and S266	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:33

S272	0	S255 and S256 and S257	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:34
S273	4	S263 and S256 and S257	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/19 16:36
S274	31	((("Estes") near3 ("Christopher") near3 ("A"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/19 16:46
S275	4	S274 and stream$3.clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/19 16:46
S276	4	S274 and (stream$3 with (content video media audio)).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/19 16:47
S277	58	(copyright right) adj owner with (video song media content) with file near4 (embed$4 insert$3 contain$3 compris$3 includ$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/20 14:09
S278	76	(copyright right) near4 owner with (video song media content) with file near4 (embed$4 insert$3 contain$3 compris$3 includ$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/20 14:10
S279	58	(copyright right) adj owner with (video song media content) with file near4 (embed$4 insert$3 contain$3 compris$3 includ$3) and file	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/20 14:12
S280	1	(US-20100043046-$).did.	US-PGPUB	OR	ON	2019/06/20 21:23
S281	0	S280 and license	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/20 21:23
S282	197	user with (declin43 refus$3) near4 license	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 10:56
S283	14	user with (declin43 refus$3) near4 license with (captur$3 aggregat$3 embed$3 writ$3 stor$3 sav$3)	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 10:57
S284	21	user with (declin43 refus$3) near4 (agreement license terms contract) with (captur$3 aggregat$3 embed$3 writ$3 stor$3 sav$3) and ((declin43 refus$3) with (agreement license terms contract))	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 10:59
S285	21	user with (declin43 refus$3) near4 (EULA agreement license terms contract) with (captur$3 aggregat$3	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 11:00

		embed$3 writ$3 stor$3 sav$3) and ((declin43 refus$3) with (agreement license terms contract EULA))				
S287	161	other adj3 (music content media video) near5 (user customer) near5 (watch$3 stream$3 listen$3 consum$3 play$3)	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 15:04
S288	6	other adj3 (music content media video) near5 (user customer) near5 (watch$3 stream$3 listen$3 consum$3 play$3) with (display$3 graph$3 statistic)	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 15:34
S293	102	(other also adj3 (watched viewed downloaded)) near5 (music content media video) near5 (user customer viewer) near5 (watch$3 stream$3 listen$3 consum$3 play$3 download$4) with (display$3 graph$3 statistic ((number count) near2 (download stream view)))	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 15:39
S294	2	(other also adj3 (watched viewed downloaded)) near5 (music content media video) near5 (user customer viewer) near5 (watch$3 stream$3 listen$3 consum$3 play$3 download$4) with (display$3 graph$3 statistic ((number count) near2 (download stream view))) same (market$3 advertis$3 recommend$5 segment$3 demographic)	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 15:40
S295	0	((user you viewer customer) near4 (other also) adj3 (watch$3 view$3 download$3 stream$3)) near5 (music content media video) near5 (user customer viewer) near5 (watch$3 stream$3 listen$3 consum$3 play$3 download$4) with (display$3 graph$3 statistic ((number count) near2 (download stream view))) same (market$3 advertis$3 recommend$5 segment$3 demographic)	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 15:43
S296	0	((user you viewer customer) near4 (other also) adj3 (watch$3 view$3 download$3 stream$3)) near5 (music content media video) near5 (user customer viewer) near5 (watch$3 stream$3 listen$3 consum$3 play$3 download$4) with	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 15:43

		(display$3 graph$3 statistic ((number count) near2 (download stream view)))				
S297	112	(user you viewer customer) near4 (other also) near5 (music content media video) near5 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) with (list show display$3 graph$3 statistic ((number count) near2 (download stream view)))	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/21 15:46
S298	127	(user viewer customer) near4 (other also) near5 (music content audio movie clip media video) near5 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) with (list show display$3 graph$3 statistic ((number count) near2 (download stream view)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 15:48
S300	1,841	(user viewer customer) near4 (other also previously before earlier) near5 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) with (music content audio movie clip media video) with (list show display$3 graph$3 statistic ((number count) near2 (download stream view)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:05
S301	1,505	(user viewer customer) near4 (other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near8 (music content audio movie clip media video) with (list show display$3 graph$3 statistic ((number count) near2 (download stream view)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:07
S302	1,166	(user viewer customer) near4 (other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near8 (music content audio movie clip media video) with (list show display$3 graph$3 statistic ((number count) near2 (download stream view))) and (market$3 advertis$3 recommend$5 segment$3 demographic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:08

S304	1,056	(user viewer customer) near4 (playlist favorites) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near8 (music content audio movie clip media video) with (list show display$3 graph$3 statistic ((number count) near2 (download stream view)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:08
S305	235	(user viewer customer) near4 (other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near8 (music content audio movie clip media video) with (list show display$3 graph$3 statistic ((number count) near2 (download stream view))) same (market$3 advertis$3 recommend$5 segment$3 demographic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:09
S306	431	(user viewer customer) near4 (playlist favorite liked other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near8 (music content audio movie clip media video) with (list show display$3 graph$3 statistic ((number count) near2 (download stream view))) same (market$3 advertis$3 recommend$5 segment$3 demographic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:10
S307	386	(user viewer customer) near4 (playlist favorite liked other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near4 (music content audio movie clip media video) with (list show display$3 graph$3 statistic ((number count) near2 (download stream view))) same (market$3 advertis$3 recommend$5 segment$3 demographic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:11
S308	235	(user viewer customer) near4 (playlist favorite liked other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near4 (music content audio movie clip media video) near6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:12

		(list show display$3 graph$3 statistic ((number count) near2 (download stream view))) same (market$3 advertis$3 recommend$5 segment$3 demographic)				
S309	227	(user viewer customer) near4 (playlist favorite liked other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near4 (music content audio movie clip media video) near6 (list show display$3 graph$3 statistic ((number count) near2 (download stream view))) same (market$3 advertis$3 recommend$5 segment$3 demographic)	US-PGPUB; USPAT	OR	ON	2019/06/21 16:13
S310	144	(user viewer customer) near4 ((playlist favorite liked other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near4 (music content audio movie clip media video) near6 (list show display$3 graph$3 statistic ((number count) near2 (download stream view))) same (market$3 advertis$3 recommend$5 segment$3 demographic))	US-PGPUB; USPAT	OR	ON	2019/06/21 16:14
S311	6	((user viewer customer) near4 (playlist favorite liked other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near4 (music content audio movie clip media video) near6 (list show display$3 graph$3 statistic ((number count) near2 (download stream view))) same (analytics market$3 advertis$3 segment$5 demographic)) not S308	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:35
S312	33	((user viewer customer) near4 (playlist favorite liked other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near4 (music content audio movie clip media video) near6 (list show display$3 graph$3 statistic ((number count) near2 (download stream view))) same (copyright drm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:36

		owner analytics market$3 advertis$3 segment$5 demographic)) not S308				
S313	31	((user viewer customer) near4 (playlist favorite liked other also previously before earlier) near4 (watch$3 stream$3 listen$3 consum$3 play$3 download$4 recommend$3) near4 (music content audio movie clip media video) near6 (list show display$3 graph$3 statistic ((number count) near2 (download stream view))) same (copyright drm owner analytics market$3 advertis$3 segment$5 demographic)) not S308 and (copyright drm owner)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/21 16:40
S314	29	(collect$3 captur$ record$3 stor$3 snapshot$3 writ$3 read$3 count$3 tag$4 flag$4) near4 (data information profile demographic age gender account) with (refus$3 declin$3 "not") near4 (license eula)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/06/24 10:33
S315	1,210	(media content video audio song movie) with (stream$3 play$3 render$3 watch$3 listen$3 download$3) with declin$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/10 11:00
S316	567	(media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3 download$3) near7 declin$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/10 11:01
S317	474	(media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3 download$3) near4 declin$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/10 11:01
S318	432	(media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3 download$3) near4 declin$3	US-PGPUB; USPAT	OR	ON	2019/10/10 11:01
S319	47	(media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3	US-PGPUB; USPAT	OR	ON	2019/10/10 11:02

		download$3) near4 declin$3 with (track$3 record$3 log$4 sav$3 stor$3 count$3)				
S320	48	(media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3 download$3) near4 declin$3 with (track$3 record$3 log$4 sav$3 stor$3 count$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/10 11:03
S321	83	(media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3 download$3) near4 (declin$3 refus$3) with (track$3 record$3 log$4 sav$3 stor$3 count$3) not S320	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/10 11:09
S322	83	(media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3 download$3) near4 (declin$3 refus$3 ("not" near3 (select accept choose))) with (track$3 record$3 log$4 sav$3 stor$3 count$3) not S320	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/10 11:10
S328	27	((accept$3 acquir$3) near4 license with (media content movie song video)) same5 ((declin$3 refus$3 "not" near3(accept$3 acquir$3)) near4 license with (media content movie song video))	US-PGPUB; USPAT	OR	ON	2019/10/18 17:14
S329	0	((accept$3 acquir$3) near4 license with (media content movie song video)) same5 ((declin$3 refus$3 "not" near3(accept$3 acquir$3)) near4 license with (media content movie song video)) and target near3 (audience market demographic fan consumer)	US-PGPUB; USPAT	OR	ON	2019/10/18 17:15
S330	26	((accept$3 acquir$3) near4 license with (media content movie song video)) same5 ((declin$3 refus$3 "not" near3(accept$3 acquir$3)) near4 license with (media content movie song video)) and (audience market demographic fan consumer)	US-PGPUB; USPAT	OR	ON	2019/10/18 17:16
S331	26	((accept$3 acquir$3) near4 license with (media content movie song video)) same5 ((declin$3 refus$3 "not" near3(accept$3 acquir$3))	US-PGPUB; USPAT	OR	ON	2019/10/18 17:17

		near4 license with (media content movie song video)) and (audience market demographic fan consumer)				
S332	8	((accept$3 acquir$3) near4 license with (media content movie song video)) same2 ((declin$3 refus$3 "not" near3(accept$3 acquir$3)) near4 license with (media content movie song video)) same2(audience market demographic fan consumer)	US-PGPUB; USPAT	OR	ON	2019/10/18 17:17
S333	18	S331 not S332	US-PGPUB; USPAT	OR	ON	2019/10/18 17:21
S338	44	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$ or US-20120123916-$ or US-20030220883-$ or US-20120303490-$ or US-20050021398-$ or US-20030001887-$ or US-20100293622-$ or US-20120191599-$ or US-20030191941-$ or US-20100043046-$ or US-20080201446-$ or US-20110106633-$ or US-20060008256-$).did. or (US-6920567-$ or US-7676437-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.	US-PGPUB; USPAT	OR	ON	2019/10/29 13:33
S339	21	S338 and (fingerprint watermark$3 checksum hash)	US-PGPUB; USPAT	OR	ON	2019/10/29 13:34
S340	13	S338 and (fingerprint watermark$3 checksum hash) with (identify identification identifier)	US-PGPUB; USPAT	OR	ON	2019/10/29 13:35
S341	44	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-	US-PGPUB; USPAT	OR	ON	2019/11/06 13:30

		20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$ or US-20120123916-$ or US-20030220883-$ or US-20120303490-$ or US-20050021398-$ or US-20030001887-$ or US-20100293622-$ or US-20120191599-$ or US-20030191941-$ or US-20100043046-$ or US-20080201446-$ or US-20110106633-$ or US-20060008256-$).did. or (US-6920567-$ or US-7676437-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.				
S342	3,784	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S343	3,864	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S344	16,643	g06f21/10.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S345	2,090	g06f21/105.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S346	23,059	S342 S343 S344 S345	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S347	3,784	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S348	3,864	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S349	16,643	g06f21/10.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S350	2,090	g06f21/105.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S351	23,059	S347 S348 S349 S350	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31

S352	18,493	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S353	23,614	S351 S352	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S354	18,493	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S355	3,784	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S356	3,864	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S357	16,643	g06f21/10.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S358	2,090	g06f21/105.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S359	23,059	S355 S356 S357 S358	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S360	3,784	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S361	3,864	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S362	16,643	g06f21/10.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S363	2,090	g06f21/105.cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S364	23,059	S360 S361 S362 S363	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S365	18,493	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S366	23,614	S364 S365	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S367	18,493	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S368	23,614	S354 S355 S356 S357 S358 S359 S360 S361 S362 S363 S364 S365 S366 S367	US-PGPUB; USPAT	OR	ON	2019/11/06 13:31
S369	23,614	S353 S359 S368	US-PGPUB; USPAT	OR	ON	2019/11/06 13:32
S370	12	S341 and ((copyright owner artist author holder creator) with license)	US-PGPUB; USPAT	OR	ON	2019/11/06 13:34
S371	51	S369 and ((copyright owner artist author holder creator) with license near4 database)	US-PGPUB; USPAT	OR	ON	2019/11/06 13:38
S372	44	(US-20120096339-$ or US-20110213721-$ or US-20040039916-	US-PGPUB; USPAT	OR	ON	2019/11/06 14:04

		$ or US-20050114265-$ or US-20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$ or US-20120123916-$ or US-20030220883-$ or US-20120303490-$ or US-20050021398-$ or US-20030001887-$ or US-20100293622-$ or US-20120191599-$ or US-20030191941-$ or US-20100043046-$ or US-20080201446-$ or US-20110106633-$ or US-20060008256-$).did. or (US-6920567-$ or US-7676437-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.				
S373	13	S372 and (fingerprint watermark$3 checksum hash) with (identify identification identifier)	US-PGPUB; USPAT	OR	ON	2019/11/06 14:04
S374	45	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$ or US-20120123916-$ or US-20030220883-$ or US-20120303490-$ or US-20050021398-	US-PGPUB; USPAT	OR	ON	2019/12/12 12:12

		$ or US-20030001887-$ or US-20100293622-$ or US-20120191599-$ or US-20030191941-$ or US-20100043046-$ or US-20080201446-$ or US-20110106633-$ or US-20060008256-$ or US-20090007274-$ or US-20100042652-$).did. or (US-6920567-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.				
S375	35	("20020032905" | "20020154157" | "20030149884" | "20030220883" | "20040039916" | "20050004873" | "20050060701" | "20050114265" | "20050177844" | "20050223415" | "20060031785" | "20070055439" | "20070241176" | "20080027742" | "20080243694" | "20090210245" | "20100324983" | "20110051914" | "20110213721" | "20120010931" | "20120096339" | "20120109834" | "20120123831" | "20120123916" | "20120124638" | "20120303490" | "20130047271" | "20130051772" | "20140108029" | "20150040002" | "6920567" | "7676437" | "8151194" | "8745647" | "9148706").PN.	US-PGPUB; USPAT	OR	ON	2019/12/12 12:13
S376	1	S375 not S374	US-PGPUB; USPAT	OR	ON	2019/12/12 12:14
S377	1	"6941275".pn.	US-PGPUB; USPAT	OR	ON	2019/12/14 11:01
S378	591	((audio music) near6 (identification identify recognize recognition)).ti.	US-PGPUB; USPAT	OR	ON	2019/12/14 11:09
S379	108	S378 and (frequency with (word lyric speech))	US-PGPUB; USPAT	OR	ON	2019/12/14 11:20
S380	0	S378 and (frequency with (lyric))	US-PGPUB; USPAT	OR	ON	2019/12/14 11:20
S381	91	S378 and (frequency near8 (word lyric speech))	US-PGPUB; USPAT	OR	ON	2019/12/14 11:21
S382	79	((music) near6 (identification identify recognize recognition)).ti.	US-PGPUB; USPAT	OR	ON	2019/12/14 11:22
S383	1,035	((music) near6 (identification identify recognize recognition)).clm.	US-PGPUB; USPAT	OR	ON	2019/12/14 11:22
S384	87	((music song) near6 (identification identify recognize recognition)).ti.	US-PGPUB; USPAT	OR	ON	2019/12/14 11:23
S385	1,402	((music song) near6 (identification identify recognize recognition)).clm.	US-PGPUB; USPAT	OR	ON	2019/12/14 11:23

S386	9	S384 and (frequency with (word lyric speech))	US-PGPUB; USPAT	OR	ON	2019/12/14 11:23
S387	756	((audio music) near6 (identification identify recognize recognition fingerprint signature)).ti.	US-PGPUB; USPAT	OR	ON	2019/12/14 11:40
S388	165	S387 not S378	US-PGPUB; USPAT	OR	ON	2019/12/14 11:40
S389	0	S388 and ((note frequency pitch) with (word lyric speech) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair))	US-PGPUB; USPAT	OR	ON	2019/12/14 11:42
S390	1	S384 and ((note frequency pitch) with (word lyric speech) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair))	US-PGPUB; USPAT	OR	ON	2019/12/14 11:42
S391	2	S384 and ((note frequency pitch) with (word lyric speech) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair match$3 correspond$3 collection structure))	US-PGPUB; USPAT	OR	ON	2019/12/14 11:44
S392	13,178	((note frequency pitch) with (word lyric speech) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair))	US-PGPUB; USPAT	OR	ON	2019/12/14 11:59
S393	17,104	((note frequency pitch) with (word lyric speech) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))	US-PGPUB; USPAT	OR	ON	2019/12/14 11:59
S394	100	((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))	US-PGPUB; USPAT	OR	ON	2019/12/14 12:00
S395	6	(((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same (((music song) near6 (identification identify recognize recognition)))	US-PGPUB; USPAT	OR	ON	2019/12/14 12:00
S396	0	((((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same (((music song) near6 (identification identify recognize recognition)))) not S395	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 12:02
S397	8	((((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same (((content film	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	2019/12/14 12:04

		movie clip music song) near6 (identification identify recognize recognition)))) not S395	JPO; DERWENT; IBM_TDB			
S398	14	((((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same4 (((content film movie clip music song) near6 (identification identify recognize recognition)))) not S395	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 12:04
S399	32	((("Estes") near3 ("Christopher") near3 ("A"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:18
S400	195	(((chris$6) near3 (Barton))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:19
S401	34	(((philip) near3 (inghelbrecht))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:20
S402	109	(((avery) near3 (wang))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:20
S403	0	(((dhiraj) near3 (mukherjee))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:20
S404	17,182	S400 adn S401 and S402	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:21
S405	17	S400 and S401 and S402	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:21
S406	1	((("Media") near3 ("Chain") near3 ("LLC"))).AS,AANM.	USPAT	OR	OFF	2019/12/14 12:21
S407	22,330	apple.AS,AANM.	USPAT	OR	OFF	2019/12/14 12:22
S408	0	S405 and S407	USPAT	OR	OFF	2019/12/14 12:22
S409	38	shazam.AS,AANM.	USPAT	OR	OFF	2019/12/14 12:24
S410	304	S400 S401 S402	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:25
S411	15	S405 and ((note frequency pitch) same4(lyric))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/12/14 12:26

			DERWENT; IBM_TDB			
S412	100	(S409 S410) and ((audio music) near6 (identification identify recognize recognition))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:32
S413	1	(US-20020072982-$).did.	US-PGPUB	OR	ON	2019/12/14 12:34
S414	1	S412 and S413 and (identification identify recognize recognition)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:35
S415	102	(S409 S410) and ((audio music) near6 (identification identify recognize recognition fingerprint))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:39
S416	1	S412 and S413 and (identification identify recognize recognition) and (lyric speach word)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:48
S417	1	S412 and S413 and (identification identify recognize recognition) and (lyric speach word phrase)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:48
S418	80	(S409 S410) and ((audio music) near6 (fingerprint))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:50
S419	0	(S409 S410) and ((audio music) near6 (fingerprint) same lyric)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:50
S420	0	(S409 S410) and ((audio music) near6 (fingerprint) same (lyric speach word phrase))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:50
S421	1	(S409 S410) and ((audio music) near6 (fingerprint) same4 (lyric speach word phrase))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:50
S422	27	(S409 S410) and ((audio music) near6 (identification identify recognize recognition fingerprint) same4 (lyric speach word phrase))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 12:55
S423	1	(US-20060277047-$).did.	US-PGPUB	OR	ON	2019/12/14 13:16
S424	3	(S409 S410) and ((audio music) near6 (fingerprint) same4 (lyric speech word phrase))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 13:18
S425	1	S423 and S422 and (lyric word text phrase speech)	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 13:18
S426	166	(gracenote).AS,AANM.	USPAT	OR	OFF	2019/12/14 13:43

S427	9	S426 and ((audio music) near6 (identification identify recognize recognition fingerprint) same4 (lyric speach word phrase))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 13:44
S428	16	S426 and ((audio music content) near6 (identification identify recognize recognition fingerprint) same4 (lyric speach word phrase))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 13:45
S429	0	((audio music) near6 (fingerprint) with (lyric))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 14:01
S430	0	((audio music) with (fingerprint) with (lyric))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 14:01
S431	2	((audio music) with (fingerprint) same (lyric))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 14:01
S432	7	((audio music) with (signature fingerprint) same (lyric))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 14:02
S433	5	((audio music) with (signature fingerprint) with(lyric))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/14 14:03
S434	1	(US-20090132074-$).did.	US-PGPUB	OR	ON	2019/12/14 14:13
S435	1,889,171	(US-20090132074-$).did. and S433 (fingerprint signature identification identify)	US-PGPUB	OR	ON	2019/12/14 14:13
S436	1	(US-20090132074-$).did. and (fingerprint signature identification identify)	US-PGPUB	OR	ON	2019/12/14 14:14
S437	1	(US-20090132074-$).did. and S433 and (fingerprint signature identification identify)	US-PGPUB	OR	ON	2019/12/14 14:14
S438	1	(US-20090132074-$).did. and S433 and (fingerprint signature)	US-PGPUB	OR	ON	2019/12/14 14:15
S439	1	(US-20090132074-$).did. and S433 and (lyric text)	US-PGPUB	OR	ON	2019/12/14 14:16
S440	281	(automatic adj content adj recognition) same3 (signature fingerprint)	US-PGPUB	OR	ON	2019/12/14 14:18

S441	196	(automatic adj content adj recognition) same (signature fingerprint)	US-PGPUB	OR	ON	2019/12/14 14:18
S442	0	(automatic adj content adj recognition) same (signature fingerprint) same lyric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:48
S443	0	(automatic adj content adj recognition) and (signature fingerprint) same lyric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:48
S444	5	"4628372".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:49
S445	4	"4870515".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:50
S446	5	"5038658".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:51
S447	0	US5239540.pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:52
S448	4	"5504518".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/12/14 14:52

			DERWENT; IBM_TDB			
S449	4	"5239540".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:52
S450	4	"5661787".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:54
S451	4	"5739451".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:54
S452	4	"5765125".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:54
S453	4	"5903892".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:54
S454	5	"5909501".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 14:55
S455	5	"5910999".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/12/14 15:09

			DERWENT; IBM_TDB			
S456	4	"5918223".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 15:09
S457	4	"5963916".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 15:10
S458	3	"20020023020".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 15:10
S459	5	"6385596".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 15:11
S460	2	"20020198789".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 15:11
S461	1	KR20010010778A	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 15:11
S462	0	EP1098460A2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/12/14 15:11

			DERWENT; IBM_TDB			
S463	482	68-86	US-PGPUB; USPAT	OR	ON	2019/12/14 15:12
S464	16	S444 S445 S446 S447 S448 S449 S450 S451 S452 S453 S454 S455 S456 S457 S458 S459 S460 S461	US-PGPUB; USPAT	OR	ON	2019/12/14 15:12
S465	0	S464 and ((signature fingerprint) same lyric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 15:13
S466	2	S464 and ((signature fingerprint) same (lyric word text phrase))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 15:13
S467	4	S464 and ((signature fingerprint recognition) same (lyric word text phrase))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/14 15:15
S469	136,987	(amazon apple gracenote shazam bing microsoft sony soundhound acrcloud axwave spotify).AS,AANM.	USPAT	OR	OFF	2019/12/14 15:20
S471	3,126	S469 and ((audio music content) near6 (identification identify recognize recognition fingerprint signature) same4 (lyric speech word phrase))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 15:20
S472	5	S464 and ((audio music content) near6 (identification identify recognize recognition fingerprint signature) same4 (lyric speech word phrase))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 15:21
S473	38	S469 and ((audio music content) near6 (identification identify recognize recognition fingerprint signature) same4 (lyric))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 15:22
S474	16	S469 and ((audio music content) near6 (identification identify	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 15:22

		recognize recognition fingerprint signature) same (lyric))				
S475	22	S473 not S474	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/14 15:24
S476	137,176	(amazon apple gracenote shazam bing microsoft sony soundhound acrcloud axwave spotify).AS,AANM.	USPAT	OR	OFF	2019/12/18 14:15
S477	16	S476 and ((audio music content) near6 (identification identify recognize recognition fingerprint signature) same (lyric))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/18 14:15
S478	5	"4628372".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S479	4	"4870515".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S480	5	"5038658".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S481	0	US5239540.pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S482	4	"5504518".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S483	4	"5239540".pn.	US-PGPUB; USPAT;	OR	ON	2019/12/18 14:15

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S484	4	"5661787".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S485	4	"5739451".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S486	4	"5765125".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S487	4	"5903892".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S488	5	"5909501".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S489	5	"5910999".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S490	4	"5918223".pn.	US-PGPUB; USPAT; USOCR;	OR	ON	2019/12/18 14:15

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S491	4	"5963916".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S492	3	"20020023020".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S493	5	"6385596".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S494	2	"20020198789".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S495	1	KR20010010778A	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:15
S496	16	S478 S479 S480 S481 S482 S483 S484 S485 S486 S487 S488 S489 S490 S491 S492 S493 S494 S495	US-PGPUB; USPAT	OR	ON	2019/12/18 14:15
S497	5	S496 and ((audio music content) near6 (identification identify recognize recognition fingerprint signature) same4 (lyric speech word phrase))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/18 14:15

S498	7	((audio music) with (signature fingerprint) same (lyric))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/18 14:16
S499	6	(((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same (((music song) near6 (identification identify recognize recognition)))	US-PGPUB; USPAT	OR	ON	2019/12/18 14:17
S500	2,283	((audio music) with (signature fingerprint) with (lyric word text phrase speech))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/18 14:18
S501	0	((audio music content) with (signature fingerprint) with (lyric word text phrase speech) with landmark)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/18 14:18
S502	0	((audio music content) with (signature fingerprint) with (lyric word text phrase speech) same landmark)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/18 14:18
S503	189	((audio music content) with (signature fingerprint) with (lyric word text phrase speech) with frequency)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/18 14:18
S504	160	((audio music content) with (signature fingerprint) with (lyric word text phrase speech) with frequency with (audio audible))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/18 14:19
S505	95	((audio music content) with (signature fingerprint) with (lyric word text phrase speech) with frequency with (audio audible) with recognition)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2019/12/18 14:23

			DERWENT; IBM_TDB			
S506	66	((audio music content) with (signature fingerprint) with (lyric word text phrase speech) with frequency with (audio audible) with recognition with (time landmark))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/18 14:24
S507	5	((song movie content) near5(signature fingerprint) with (lyric word text phrase speech) with frequency near5 (audio audible) with recognition with (time landmark))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/18 14:26
S508	7	((song movie content) near5(signature fingerprint) with (lyric word text phrase speech) with frequency with (audio audible) with recognition with (time landmark))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/12/18 14:26
S509	14	((((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same4 (((content film movie clip music song) near6 (identification identify recognize recognition)))) not S499	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/18 14:32
S515	66	((audio music content) with (signature fingerprint) with (lyric word text phrase speech) with frequency with (audio audible) with recognition with (time landmark))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/03 15:36
S516	7	((song movie content) near5(signature fingerprint) with (lyric word text phrase speech) with frequency with (audio audible) with recognition with (time landmark))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/03 15:36
S517	6	(((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same (((music song) near6 (identification identify recognize recognition)))	US-PGPUB; USPAT	OR	ON	2020/01/03 15:36

S518	15	((((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same4 (((content film movie clip music song) near6 (identification identify recognize recognition)))) not S517	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/01/03 15:36
S524	46,728	(audio media) near3 ((fragment identify) fingerprint) and (demographic marketing advertising target audience customer)	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:11
S525	8,230	(audio media content) near3 (((sample fragment) near3 identify) fingerprint) and (demographic marketing advertis$3 target audience customer)	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:13
S526	3,577	(audio media content) near3 (((sample fragment) near3 identify) fingerprint) same3 (demographic marketing advertis$3 target audience customer)	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:14
S527	3,729	(audio media content) near3 (((sample fragment) near3 identify) fingerprint) same3 (demographic market$3 advertis$3 target audience customer)	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:14
S528	2,826	(audio media content) near3 (fingerprint) same3 (demographic market marketing advertise advertisment target audience customer)	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:17
S529	3,391	(audio media content) near3 (fingerprint) same3 (demographic market$3 advertis$3 target audience customer)	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:18
S530	1,294	(audio media content) near3 (fingerprint) same(demographic market$3 advertis$3 target audience customer)	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:19
S531	116	(audio media content) near3 (fingerprint) same(demographic market$3 advertis$3 target audience customer) and (user near4 (declin$3 refus$3 pass$3))	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:20
S532	10	(audio media content) near3 (fingerprint) same(demographic market$3 advertis$3 target audience customer) and (user near4	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:21

		(declin$3 refus$3 with ((audio media content))))				
S533	61	(audio media content) near3 (fingerprint) same(demographic market$3 advertis$3 target audience customer) and (user near4 (declin$3 refus$3 thumbs pass$3) with (audio media content))	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:35
S534	59	S533 not S532	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/25 17:36

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S164	1	declin$3 with license with ((stor$3 collect$3 gather$3 captur$3) adj data)	USPAT	OR	ON	2017/03/13 15:28
S165	0	(declin$3 with license with ((stor$3 collect$3 gather$3 captur$3) adj data)).clm.	USPAT	OR	ON	2017/03/13 15:28
S166	3	(licens$3 with (media content movie song video) with (acquisition acquire receive purchas$3 buy$2 accept$3 request$3) with (declin$3 refus$3) same4 (user with (metrics statistics demographic analytic$2 data))).clm.	USPAT	OR	ON	2017/03/13 15:28
S191	7	license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))	USPAT	OR	ON	2017/10/01 15:49
S192	1	(license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2017/10/01 15:49
S193	1	(license with (reject$3 refuse decline "not" adj3 accept) and((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2017/10/01 15:50
S323	5	((media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3 download$3) near4 (declin$3 refus$3 ("not" near3 (select accept choose))) with (track$3 record$3 log$4 sav$3 stor$3 count$3)).clm.	USPAT	OR	ON	2019/10/10 11:33

S324	2	(license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2019/10/10 11:33
S325	2	(license with (reject$3 refuse decline "not" adj3 accept) and((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2019/10/10 11:34
S327	7	S323 S324 S325	USPAT	OR	ON	2019/10/10 11:35
S334	0	(declin$3 with license with ((stor$3 collect$3 gather$3 captur$3) adj data)).clm.	USPAT	OR	ON	2019/10/18 17:23
S335	2	(license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2019/10/18 17:23
S336	5	((media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3 download$3) near4 (declin$3 refus$3 ("not" near3 (select accept choose))) with (track$3 record$3 log$4 sav$3 stor$3 count$3)).clm.	USPAT	OR	ON	2019/10/18 17:23
S337	2	(license with (reject$3 refuse decline "not" adj3 accept) and((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2019/10/18 17:23
S510	1	(((song movie content) near5(signature fingerprint) with (lyric word text phrase speech) with frequency with (audio audible) with recognition with (time landmark))).clm.	USPAT	OR	OFF	2019/12/18 14:29
S511	0	((((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same (((music song) near6 (identification identify recognize recognition)))).clm.	USPAT	OR	ON	2019/12/18 14:30
S512	16	((((note frequency pitch) with (lyric word text phrase speech) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same4 (((content film movie clip music song) near6 (identification identify recognize recognition)))).dm.	USPAT	OR	ON	2019/12/18 14:33

S513	32	((((note frequency pitch) with (lyric word text phrase speech) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) and (((content film movie clip music song) with (identification identify recognize recognition)))).dm.	USPAT	OR	ON	2019/12/18 14:34
S514	16	S513 not S512	USPAT	OR	ON	2019/12/18 14:37
S519	16	((((note frequency pitch) with (lyric word text phrase speech) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same4 (((content film movie clip music song) near6 (identification identify recognize recognition)))).dm.	USPAT	OR	ON	2020/01/03 15:34
S520	32	((((note frequency pitch) with (lyric word text phrase speech) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) and (((content film movie clip music song) with (identification identify recognize recognition)))).dm.	USPAT	OR	ON	2020/01/03 15:34
S521	16	S520 not S519	USPAT	OR	ON	2020/01/03 15:34
S522	1	(((song movie content) near5(signature fingerprint) with (lyric word text phrase speech) with frequency with (audio audible) with recognition with (time landmark))).clm.	USPAT	OR	OFF	2020/01/03 15:35
S523	0	((((note frequency pitch) with (lyric) with (plot$3 graph$3 axis coordinate cartesian correlat$3 pair relation$4))) same (((music song) near6 (identification identify recognize recognition)))).clm.	USPAT	OR	ON	2020/01/03 15:35
S535	0	(declin$3 with license with ((stor$3 collect$3 gather$3 captur$3) adj data)).clm.	USPAT	OR	ON	2020/09/25 17:47
S536	8	(licens$3 with (media content movie song video) with (acquisition acquire receive purchas$3 buy$2 accept$3 request$3) with (declin$3 refus$3) same4 (user with (metrics statistics demographic analytic$2 data))).clm.	USPAT	OR	ON	2020/09/25 17:48
S537	13	license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))	USPAT	OR	ON	2020/09/25 17:48
S538	5	(license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race	USPAT	OR	ON	2020/09/25 17:48

		ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.				
S539	5	(license with (reject$3 refuse decline "not" adj3 accept) and((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2020/09/25 17:48
S540	7	((media content video audio song movie) near7 (stream$3 play$3 render$3 watch$3 listen$3 download$3) near4 (declin$3 refus$3 ("not" near3 (select accept choose))) with (track$3 record$3 log$4 sav$3 stor$3 count$3)).clm.	USPAT	OR	ON	2020/09/25 17:55
S541	5	(license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2020/09/25 17:55
S542	5	(license with (reject$3 refuse decline "not" adj3 accept) and((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2020/09/25 17:55
S543	0	(declin$3 with license with ((stor$3 collect$3 gather$3 captur$3) adj data)).clm.	USPAT	OR	ON	2020/09/25 17:55
S544	5	(license with (reject$3 refuse decline "not" adj3 accept) same2 ((data information record) with (demographic marketing segment$5 age sex gender region state country preference race ethnicity) with (analys$3 analyz$3 gaug$3 study$3 scrutiniz$3 examin$3 inspect$3))).clm.	USPAT	OR	ON	2020/09/25 17:55

9/26/2020 5:37:44 PM
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South Tower, Suite 800
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Courtesy Reminder for
Application Serial No: 16/731,510

Attorney Docket No: MEDC0002CON2-4
Customer Number: 151861
Date of Electronic Notification: 10/07/2020

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/731,510	12/31/2019	Christopher A. Estes	MEDC0002CON2-4	4913

TITLE OF INVENTION: DIGITAL MEDIA REPRODUCTION AND LICENSING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0.00	$0.00	$600	01/07/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
MCCOY, RICHARD ANTHONY	2431	726-032000

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

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

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☐ 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 /A. Robert Weaver/ Date November 2, 2020

Typed or printed name Arthur Robert Weaver Registration No. 63,123

Electronic Patent Application Fee Transmittal

Application Number:	16731510
Filing Date:	31-Dec-2019
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Filer:	Arthur Robert Weaver
Attorney Docket Number:	MEDC0002CON2-4

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	600	600

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**600**

Electronic Acknowledgement Receipt

EFS ID:	41016958
Application Number:	16731510
International Application Number:	
Confirmation Number:	4913
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Customer Number:	151861
Filer:	Arthur Robert Weaver
Filer Authorized By:	
Attorney Docket Number:	MEDC0002CON2-4
Receipt Date:	02-NOV-2020
Filing Date:	31-DEC-2019
Time Stamp:	23:18:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$600
RAM confirmation Number	E2020A2N19350798
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	IF_Transmit.pdf	163650 11ecb1456ee86a17d88213482224872fdbd295e4	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30424 91b21b96bbe2cf6e72cb5cd231b2ba0a5bd0484f	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	194074		

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

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/731,510	12/31/2019	Christopher A. Estes	MEDC0002CON2-4	4913

151861 7590 11/27/2020
The Brickell IP Group PLLC
1101 Brickell Avenue
South Tower, Suite 800
Miami, FL 33131

EXAMINER
MCCOY, RICHARD ANTHONY

ART UNIT	PAPER NUMBER
2431	

NOTIFICATION DATE	DELIVERY MODE
11/27/2020	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):

docket@brickellip.com
rperez@brickellip.com
rweaver@brickellip.com

PTOL-90A (Rev. 04/07)

corrected ***Notice of Allowability***	**Application No.** 16/731,510	**Applicant(s)** Estes, Christopher A.	
	Examiner RICHARD A MCCOY	**Art Unit** 2431	**AIA (FITF) Status** Yes

-- 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 printer rush 11/04/2020.
   ☐ 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 22-39 . 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 _____.

/R.A.M/ Examiner, Art Unit 2431	/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Corrected Notice of Allowance

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with A. Robert Weaver on 9/24/2020.

The application has been amended as follows:

1-21 (cancelled)

22. (New) A multimedia hardware device comprising:

a processor; and

a memory coupled with the processor, the memory including instructions that, when executed by the processor cause the processor to:

generate a first request from a user to evaluate streaming a first media content item to the device;

identify the first media content item by determining a first media fingerprint that identifies a first unique characteristic inherently present in the first media content item captured during the recorded creation of the first media content item, and excluding information introduced to the first media content item extraneous to the recorded creation;

extract first user data specific to the user when the user accepts to stream the first media content item;

generate a second request from the user to evaluate streaming a second media content item to the device;

identify the second media content item by determining a second media fingerprint that identifies a second unique characteristic inherently present in the second media content item captured during the recorded creation of the second media content item, and excluding information introduced to the second media content item extraneous to the recorded creation;

extract second user data specific to the user when the user declines to stream the second media content item;

aggregate the extracted first user data into a first statistics record and the extracted second user data into a second statistics record, wherein the first statistics record summarizes the first user data and the second statistics record summarizes the second user data; and

transmit to a database the first and second statistics record with the identities of the first and second media content items determined by the first and second media fingerprints so that the summarized first and second user data is accessible to a third party online retailer for

retrieving the first and second statistics record with the identities of the first and second media content items determined by the first and second media fingerprints,

analyzing the retrieved first and second statistics record to determine a target demographic of the first and second media content items based on a demographic corresponding to the first and second user data, and

providing the third party online retainer the target demographic to market the media content item to a plurality of other users corresponding to the target demographic of the media content item.

23. (New) The device of claim 22, wherein the first media content item is a first version of an audiovisual work and the second media content item is a second version of the audiovisual work.

24. (New) The device of claim 23, wherein the first and second unique characteristics are the occurrence of various audio frequencies at particular points in time in the audiovisual work.

25. (New) The device of claim 23, wherein the first version is a live version of the audiovisual work and the second version is a studio version of the audiovisual work.

26. (New) The device of claim 23, wherein the first version is authorized for streaming to the user by a copyright owner of the audiovisual work and the second version is unauthorized for streaming to the user by the copyright owner of the audiovisual work.

27. (New) The device of claim 22, wherein the first media content item is a first version of a book in digital format and the second media content item is a second version of the book in digital format.

28. (New) The device of claim 22, wherein the first and second user data includes a geographic location of the user.

29. (New) The device of claim 22, wherein the first user data includes the number of times the user requested to evaluate streaming the first media content item, and the second user data includes the number of times the user requested to evaluate streaming the second media content item.

30. (New) The device of claim 22, wherein the processor is further configured to:

receive a license to stream the first media content item from a licensing system when the request is granted by the licensing system; and

prevent streaming of the first media content item when the request is declined by the licensing system.

31. (New) The device of claim 22, wherein the processor is further configured to stream the first media content item based on a plurality of streaming parameters included in the license that is received from the licensing system.

32. (New) The device of claim 22, wherein the processor is further configured to

identify a first digital watermark included in a first media file of the first media content item, and

identify a second digital watermark included in a second media file of the second media content item.

33. (New) The device of claim 32, wherein the first digital watermark is metadata in the first media file, and the second digital watermark is metadata in the second media file.

34. (New) The device of claim 22, wherein the processor is further configured to load a first digital media file for reproduction, wherein the digital media file include the first media content item.

35. (New) The device of claim 22 further comprising a display, and the processor is further configured to generate a display query on the display asking the user whether the user would like to stream the first media content item.

36. (New) The device of claim 22, wherein the processor is further configured to collect and transmit user identification data that confirms the user's identity.

37. (New) The device of claim 22, wherein the processor is further configured to transmit the first and second media fingerprints for confirmation of the first and second media content items with a digital media catalog database.

38. (New) The device of claim 22, wherein the processor is further configured to collect payment from the user to stream the first media content item.

39. (New) The device of claim 22, wherein the processor is further configured to transmit the first and second statistics record in real time.

Allowable Subject Matter

Claims 22-39 are allowed.

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

Shintani (US 2012/0123916) discloses capturing marketing/demographic data upon license grant **[0046]**

Shin et al (US 8745647) discloses capturing audience metrics (*see* **C9 56 – 67**) including demographics for viewers of audiovisual works. Moreover, in Fig 10, Shin discloses a graph showing the percentage of a video completed for the viewers who began watching a video *thereby* indicating users that declined to stream the video.

Block et al (US 2003/0220883) discloses storing a user's answer relating to the acceptance or refusal of a license agreement.

DeBusk et al (US 2006/0277047 hereinafter Debusk), particularly [**0046**] - [**0052**]. In [**0052**], Debusk discloses text, frequency, or pixel based media finger prints organized according to time points known as landmarks.

Even though Shin, Shintani, and Block teach various limitations relating to users streaming or not streaming content and even though DeBusk teaches a media fingerprint derived from recorded media, the art does not include teachings that would indicate a motivation to combine DeBusk with Shin, Shintani, and Block to arrive at the claimed invention.

More particularly, the prior art is silent in explicitly teaching or rendering obvious the limitations of:

- identify the first media content item by determining a first media fingerprint that identifies a first unique characteristic inherently present in the first media content item captured during the recorded creation of the first media content item, and excluding information introduced to the first media content item extraneous to the recorded creation;
- extract second user data specific to the user when the user declines to stream the second media content item;
- retrieving the first and second statistics record with the identities of the first and second media content items determined by the first and second media fingerprints,
- analyzing the retrieved first and second statistics record to determine a target demographic of the first and second media content items based on a demographic corresponding to the first and second user data,

in combination with all the other claim requirements.

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

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RICHARD A MCCOY whose telephone number is (313)446-6520. The examiner can normally be reached on M - F 10 - 6.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on 571 272 2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/R.A.M/
Examiner, Art Unit 2431

/LYNN D FEILD/
Supervisory Patent Examiner, Art Unit 2431

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/731,510	Estes, Christopher A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

CPC

Symbol					Type	Version
G06F	/	21	/	10	F	2013-01-01
G06Q	/	30	/	02	I	2013-01-01
G06F	/	16	/	487	I	2019-01-01
G06F	/	16	/	22	I	2019-01-01
G06F	/	21	/	105	I	2013-01-01
G06Q	/	30	/	0204	I	2013-01-01
H04N	/	21	/	4402	I	2013-01-01
H04N	/	21	/	4532	I	2013-01-01
H04N	/	21	/	4627	I	2013-01-01
H04N	/	21	/	4667	I	2013-01-01
G06F	/	2221	/	0713	A	2013-01-01
G06Q	/	50	/	184	A	2013-01-01

CPC Combination Sets

Symbol					Type	Set	Ranking	Version
	/		/					

/RICHARD A MCCOY/ Examiner, Art Unit 2431 (Assistant Examiner)	21 November 2020 (Date)	**Total Claims Allowed:** 18	
/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431 (Primary Examiner)	23 November 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

U.S. Patent and Trademark Office

Part of Paper No.: 20201121

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/731,510	Estes, Christopher A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06F	/	21	/	10

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
726	32

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

/RICHARD A MCCOY/ Examiner, Art Unit 2431 (Assistant Examiner)	21 November 2020 (Date)	**Total Claims Allowed:** 18	
/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431 (Primary Examiner)	23 November 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

U.S. Patent and Trademark Office

Part of Paper No.: 20201121

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/731,510	Estes, Christopher A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

☐ 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		10		19	7	28	16	37						
	2		11		20	8	29	17	38						
	3		12		21	9	30	18	39						
	4		13	1	22	10	31								
	5		14	2	23	11	32								
	6		15	3	24	12	33								
	7		16	4	25	13	34								
	8		17	5	26	14	35								
	9		18	6	27	15	36								

/RICHARD A MCCOY/ Examiner, Art Unit 2431 (Assistant Examiner)	21 November 2020 (Date)	**Total Claims Allowed:** 18	
/LYNN D FEILD/ Supervisory Patent Examiner, Art Unit 2431 (Primary Examiner)	23 November 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

U.S. Patent and Trademark Office Part of Paper No.: 20201121

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/731,510	01/05/2021	10885154	MEDC0002CON2-4	4913

151861 7590 12/16/2020
The Brickell IP Group PLLC
1101 Brickell Avenue
South Tower, Suite 800
Miami, FL 33131

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):

Christopher A. Estes, Miami, FL;
Media Chain, LLC, Miami, FL;

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

IR103 (Rev. 10/09)

AO 120 (Rev. 08/10)

TO:	Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - Austin Division on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
1:21-CV-027-LY	1/8/2021	Western District of Texas - Austin Division

PLAINTIFF	DEFENDANT
Media Chain, LLC	Roku, Inc.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	9,715,581 B1	7/25/2017	Media Chain, LLC
2	9,898,590 B2	2/20/2018	Media Chain, LLC
3	10,489,560 B2	11/26/2019	Media Chain, LLC
4	10,515,191 B2	12/24/2019	Media Chain, LLC
5	10,860,691 B2	12/8/2020	Media Chain, LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 10,885,154 B2	1/5/2021	Media Chain, LLC
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
Jeannette J. Clack		January 8, 2021

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy