8138881

# THE UNITED STATES OF AMERICA

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**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**

0001

EX1014
Roku V. Media Chain
U.S. Patent No. 10,860,691

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
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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 |

**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 | |

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| Examiner Initial* | Cite No | Publication Number | Kind Code[1] | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |
|---|---|---|---|---|---|---|
| | 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. | |
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| | 11 | 20060031785 | A1 | 2006-02-09 | Raciborski | |
| | 12 | 20070055439 | A1 | 2007-03-08 | Denker et al. | |

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

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|---|---|---|---|---|---|---|
| | 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) | | |
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| | Attorney Docket Number | ESTES-7 |

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|---|---|---|---|---|---|---|
| | 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 | |
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| | 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] |
|---|---|---|---|---|---|---|---|---|
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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 | | 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) | | |
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| | 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.**

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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:

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.

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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.

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:<br>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<br>bc24dd1b028075ef52777388f78212922b9b27a | no | 8 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| This is not an USPTO supplied ADS fillable form | | | | | |
| 2 | Oath or Declaration filed | Declaration.pdf | 627556<br>726c95d33b9dfd9733b76d83abd9e545b383b7e5 | no | 1 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 3 | Specification | Specification.pdf | 265702<br>15541e88028200e5dd9776bbb3a119ef8ca4010d | no | 35 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 4 | Drawings-only black and white line drawings | Formal_Drawings.pdf | 419145<br>c7d4d60ea89f3b11bd974d64a16ffe5a77d3b810 | no | 7 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 5 | Information Disclosure Statement (IDS) Form (SB08) | IDS.pdf | 621123<br>88d3c167d808a49a485458acc50956a0dafde8c6 | no | 7 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 6 | Fee Worksheet (SB06) | fee-info.pdf | 37920<br>ab0537d16eae4e70162aa73f80b3174bb6cf2ed9 | no | 2 |
| **Warnings:** | | | | | |

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**New Applications Under 35 U.S.C. 111**

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

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

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

**New International Application Filed with the USPTO as a Receiving Office**

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

PTO/AIA/14 (02-18)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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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 | |

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) | |

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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 | |

## 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 |

| 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).

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**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)**

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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 | |

## 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 1** | 3109 Grand Ave. | | |
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| **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 | | | |

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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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Approved for use through 11/30/2020. OMB 0651-0032
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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:

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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<br>Christopher A. Estes |
| Sole or first inventor's signature: Date: 7-25-17 |
| Residence<br>Mountain View, California |
| Mailing Address<br>240 Mountain View Avenue<br>Mountain View, California 94041 |

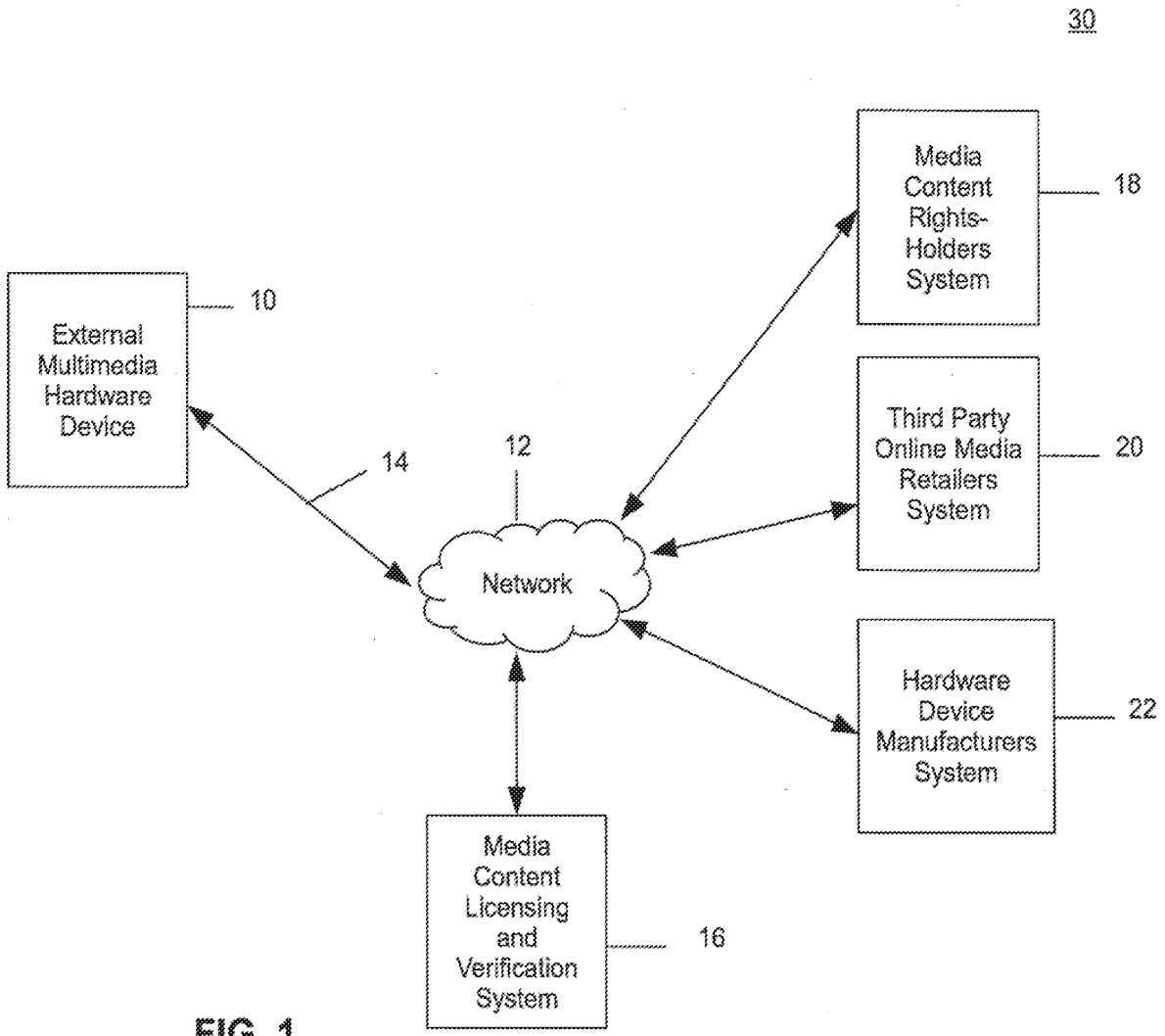
30
Media Content Rights-Holders System
18
External Multimedia Hardware Device
10
14
12
Network
Third Party Online Media Retailers System
20
Hardware Device Manufacturers System
22
Media Content Licensing and Verification System
16

FIG. 1

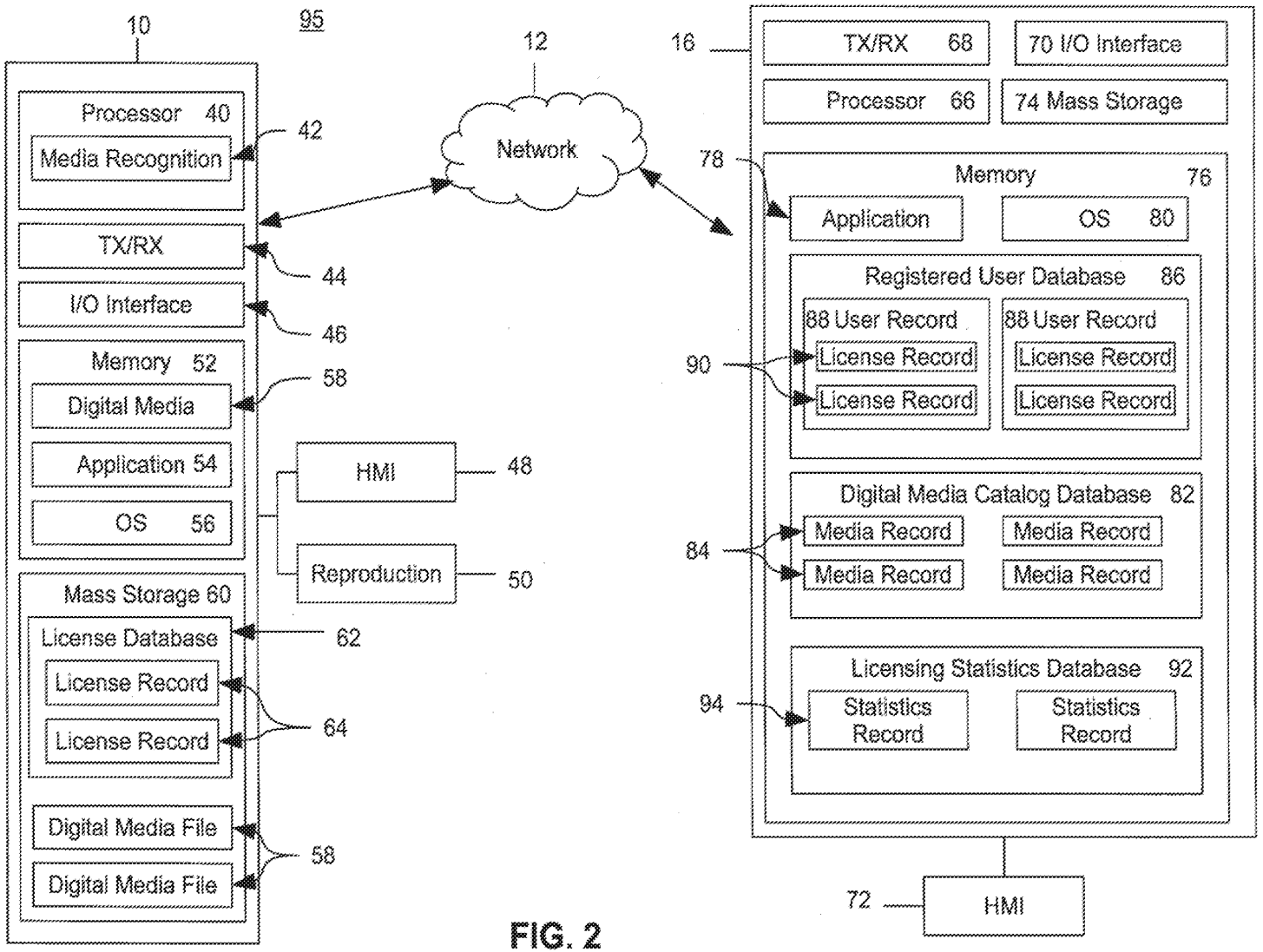
10
95
12
16
Processor 40
Media Recognition
42
Network
TX/RX 68
70 I/O Interface
Processor 66
74 Mass Storage
78
Memory 76
Application
OS 80
TX/RX
44
Registered User Database 86
I/O Interface
46
88 User Record
88 User Record
License Record
License Record
License Record
License Record
90
Memory 52
58
Digital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

FIG. 2

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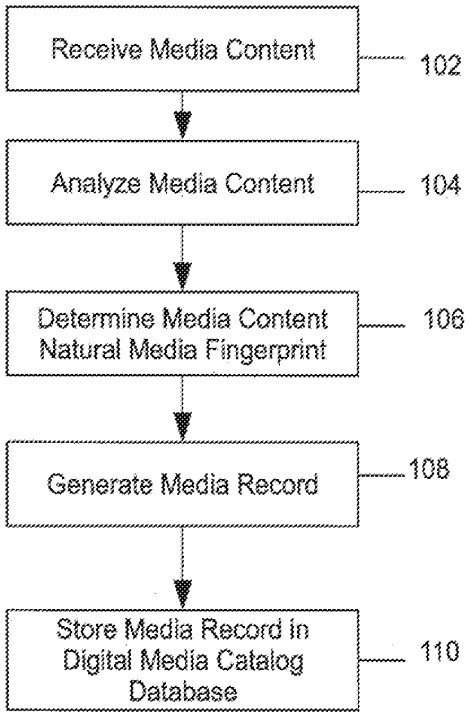
100
Receive Media Content
102
Analyze Media Content
104
Determine Media Content Natural Media Fingerprint
106
Generate Media Record
108
Store Media Record in Digital Media Catalog Database
110

FIG. 3

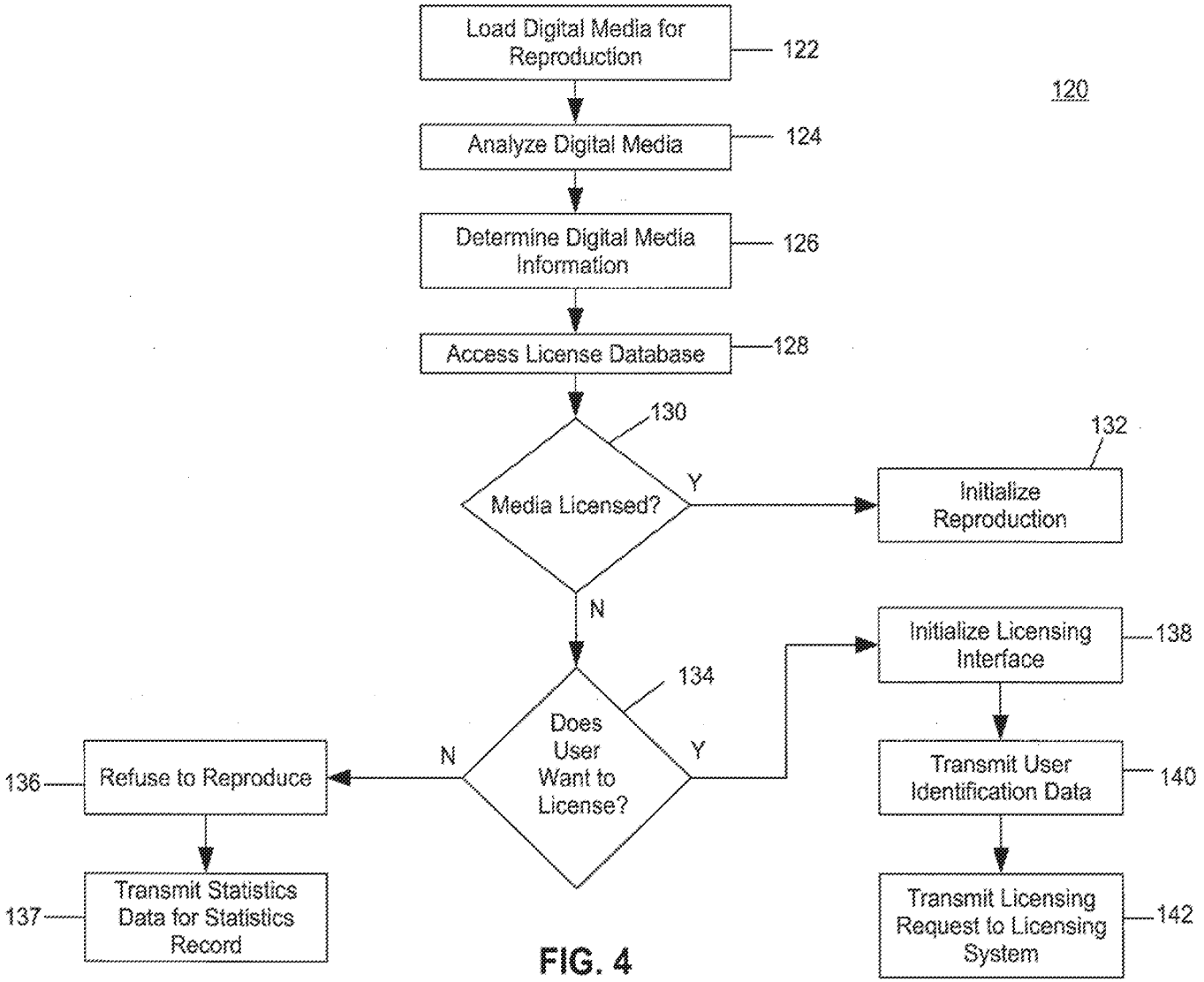
Load Digital Media for Reproduction
122
120
Analyze Digital Media
124
Determine Digital Media Information
126
Access License Database
128
130
132
Media Licensed?
Y
Initialize Reproduction
N
Initialize Licensing Interface
138
134
Does User Want to License?
N
Y
136
Refuse to Reproduce
Transmit User Identification Data
140
137
Transmit Statistics Data for Statistics Record
Transmit Licensing Request to Licensing System
142
417

FIG. 4

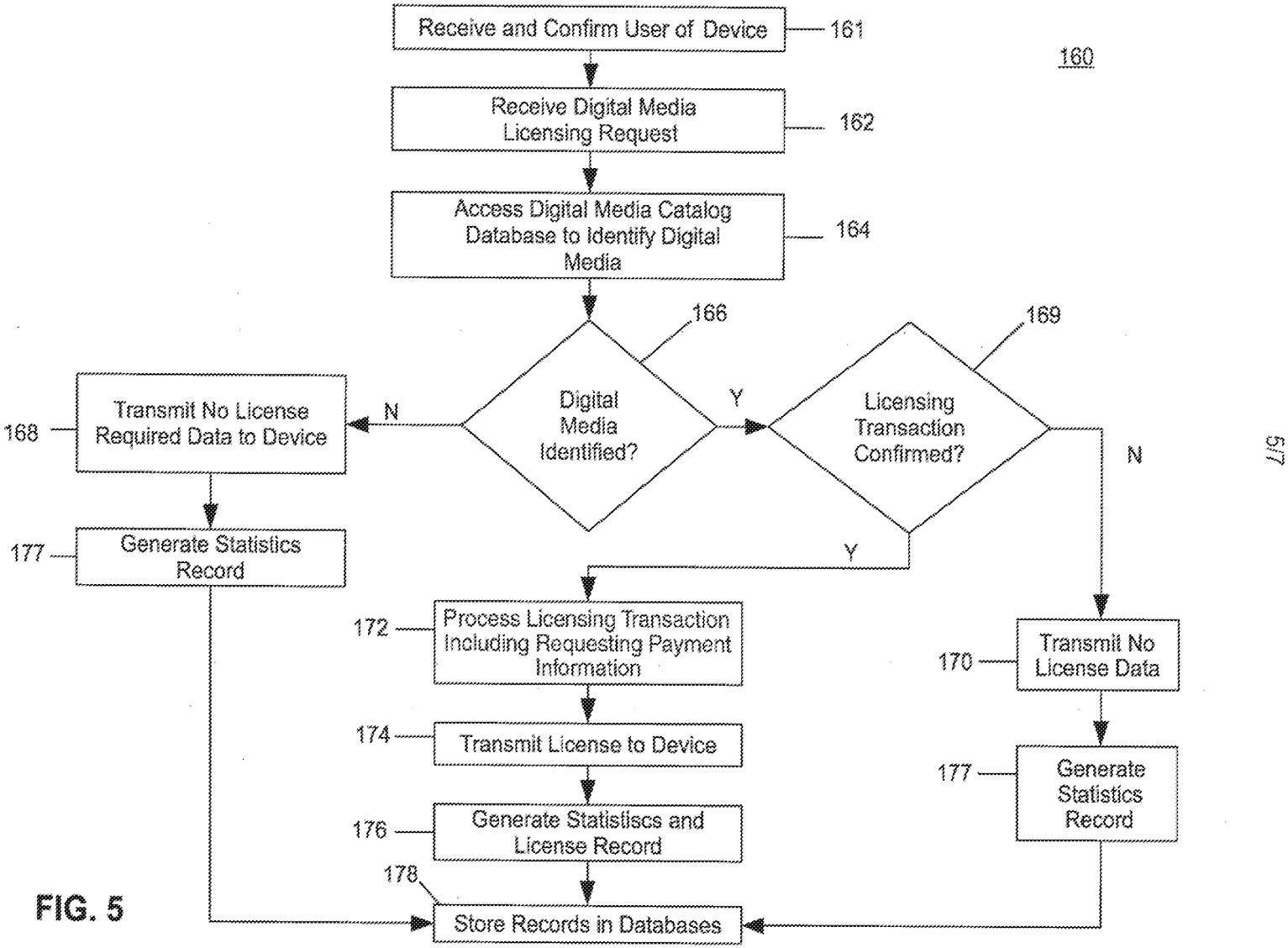
Receive and Confirm User of Device
161
160
Receive Digital Media Licensing Request
162
Access Digital Media Catalog Database to Identify Digital Media
164
166
Digital Media Identified?
N
Y
168
Transmit No License Required Data to Device
169
Licensing Transaction Confirmed?
N
Y
177
Generate Statistics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

FIG. 5

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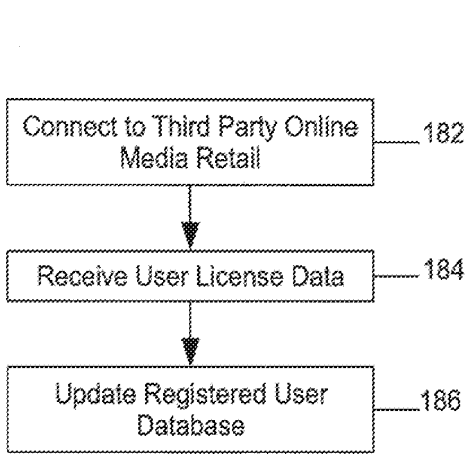
180
Connect to Third Party Online Media Retail
182
Receive User License Data
184
Update Registered User Database
186

FIG. 6

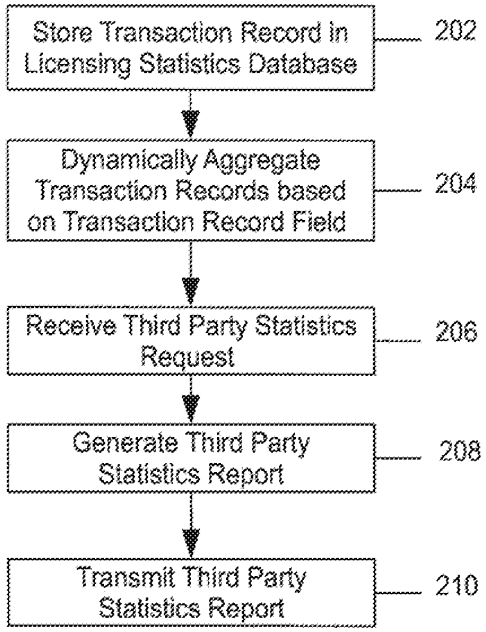
Store Transaction Record in Licensing Statistics Database
202
Dynamically Aggregate Transaction Records based on Transaction Record Field
204
Receive Third Party Statistics Request
206
Generate Third Party Statistics Report
208
Transmit Third Party Statistics Report
210

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 a r e 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 online 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 = | |
| | Independent (37 CFR 1.16(h)) | * | Minus | *** | = | x = | | OR | x = | |
| | Application Size Fee (37 CFR 1.16(s)) | | | | | | | | | |
| | 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($) | ADDITIONAL FEE($) | OR | RATE($) | ADDITIONAL FEE($) |
|---|---|---|---|---|---|---|---|---|---|---|
| AMENDMENT B | Total (37 CFR 1.16(i)) | * | Minus | ** | = | x = | | OR | x = | |
| | Independent (37 CFR 1.16(h)) | * | Minus | *** | = | x = | | OR | x = | |
| | Application Size Fee (37 CFR 1.16(s)) | | | | | | | | | |
| | 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**

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

**FILING RECEIPT**

OC000000114125385

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

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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**

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

**PUBLICATION NOTICE**

*OC000000116639928*

**Title:**DIGITAL MEDIA REPRODUCTION AND LICENSING

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

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

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The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

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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.

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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 |
|---|---|
| | |

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| 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)

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**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.

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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<br>66ab2b145e949f2aaa9642123f9c76ca14889d38 | no | 2 |

**Warnings:**

| Information: | |
|---|---|
| **Total Files Size (in bytes):** | 226525 |

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

**New Applications Under 35 U.S.C. 111**

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

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

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

**New International Application Filed with the USPTO as a Receiving Office**

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

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

**CONFIRMATION NO. 4913**

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

**POA ACCEPTANCE LETTER**

*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**<br>**Document Description: Electronic Terminal Disclaimer - Filed** | PTO/SB/26<br>U.S. Patent and Trademark Office<br>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% |

The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

9715581

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:
- expires for failure to pay a maintenance fee;
- is held unenforceable;
- 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;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

| | |
|---|---|
| ○ 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:<br><br>◉ Small Entity<br><br>○ Micro Entity<br><br>○ Regular Undiscounted<br><br>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<br><br>I certify, in accordance with 37 CFR 1.4(d)(4) that I am:<br><br>◉ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application<br><br>Registration Number 63123<br><br>○ A sole inventor<br><br>○ 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<br><br>○ 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<br>a7304a366af9f3fdd07ffbd6fc6b5604dd29b80e | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30562<br>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.**

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

# 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

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

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

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

**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/<br>Examiner, Art Unit 2431 | /LYNN D FEILD/<br>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. | Applicant(s) | |
|---|---|---|---|
| | 16/731,510 | Estes, Christopher A. | |
| | Examiner | Art Unit | AIA (FITF) Status |
| | RICHARD A MCCOY | 2431 | 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/<br>Examiner, Art Unit 2431 | /LYNN D FEILD/<br>Supervisory Patent Examiner, Art Unit 2431 |
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| Notice of References Cited | Application/Control No. 16/731,510 | Applicant(s)/Patent Under Reexamination Estes, Christopher A. | |
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| | Examiner RICHARD A MCCOY | Art Unit 2431 | Page 1 of 5 |

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| | Examiner RICHARD A MCCOY | Art Unit 2431 | Page 5 of 5 |

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

| 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 |
| | | | |

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

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

| 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 | | | | | | | | |
| | 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 | | | | | | | | |

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| /RICHARD A MCCOY/<br>Examiner, Art Unit 2431 | 26 September 2020 | **Total Claims Allowed:** | |
| (Assistant Examiner) | (Date) | 17 | |
| /LYNN D FEILD/<br>Supervisory Patent Examiner, Art Unit 2431 | 28 September 2020 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 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 | 726 | 2431 | MEDC0002CON2-4 |
| RULE | | | |

**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**

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

01/22/2020

**** SMALL ENTITY ****

**STATE OR COUNTRY**

UNITED STATES

**ADDRESS**

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

**FILING FEE RECEIVED**

$1,065

CONSIDERED: /R.A.M/

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

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

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| | Application Number | |
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| | Examiner Name | |
| | Attorney Docket Number | ESTES-7 |

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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] | 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] |
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**EXAMINER SIGNATURE**

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

**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).

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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.

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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 |

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**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 |

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| 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 |
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| 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 |
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| 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 |

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| 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 |

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|---|---|---|---|---|---|---|
| | | (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 |

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|---|---|---|---|---|---|---|
| | | 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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| | | (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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| | | 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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| | | (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 |

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|---|---|---|---|---|---|---|
| | | 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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| | | 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 |

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| | | $ 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 |

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| | | 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 |

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|---|---|---|---|---|---|---|
| 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 |

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| 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 |

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|---|---|---|---|---|---|---|
| | | 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 |

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| | | 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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| 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 |

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| 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 |

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|---|---|---|---|---|---|---|
| | | 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 |

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|---|---|---|---|---|---|---|
| | | (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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| | | (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 |

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|---|---|---|---|---|---|---|
| | | 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 |

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| | | 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 |

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|---|---|---|---|---|---|---|
| | | 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 |

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|---|---|---|---|---|---|---|
| | | 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 |

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| 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 |

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| | | $ 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 |

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| | | $ 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 |

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| 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 |

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| | | 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 |

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| | | | 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 |

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| 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 |

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| 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 |

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| | | | 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 |

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| | | | 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 |

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| | | | 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 |

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| | | 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 |

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| | | | 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 |

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| | | | 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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| | | | 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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| | | (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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|
| | | 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
Miami, FL 33131

**Courtesy Reminder for**
**Application Serial No: 16/731,510**

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

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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151861 7590 10/07/2020
The Brickell IP Group PLLC
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| (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.**

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2
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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

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❑ 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.

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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:

| | |
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| Submitted with Payment | yes |
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| RAM confirmation Number | E2020A2N19350798 |
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| 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<br>11ecb1456ee86a17d882134822248 72fdbd295e4 | no | 1 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 30424<br>91b21b96bbe2cf6e72cb5cd231b2ba0a5bd0484f | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
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**New Applications Under 35 U.S.C. 111**
**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**
**National Stage of an International Application under 35 U.S.C. 371**
**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**
**New International Application Filed with the USPTO as a Receiving Office**
**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

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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

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

| 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 | | | | | | | | |

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

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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.

AO 120 (Rev. 08/10)

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

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court 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**