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Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Christopher A. Estes
Title	DIGITAL MEDIA REPRODUCTION AND LICENSING
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	BESTES 07USCON

SIGNATURE of Applicant or Patent Practitioner

Signature	/Patrick J. Palascak/	Date (Optional)	July 25, 2017
Name	Patrick Palascak	Registration Number	73,533
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DIGITAL MEDIA REPRODUCTION AND LICENSING

Cross-Reference

[0001] The present application is a continuation application of United States Patent Application No. 13/667,629, filed November 2, 2012, and claims the benefit of United States Provisional Patent Application No. 61/555,810, filed November 4, 2011, which is incorporated herein by reference in its 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 physical media 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 distribution of 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 file may be analyzed to identify digital media information associated with the media content item. A license database may be accessed to determine whether a user is licensed to reproduce the media content item based on the digital media information. The media content 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 receive a media licensing request from an external device associated with a user. The media licensing request may include digital media information associated with a media content item included in a digital media file. A processor may access a media catalog database that includes a plurality of media content records where a media content record from the plurality of media content records is associated with the media content item. The processor may also determine whether the media licensing request is to be granted based on the media content record stored in the media catalog database that is associated with the media content item. The processor may grant the media licensing request for the external device when the media content record associated with the media content item verifies the granting of the license for the media content item to the external device. The processor may also decline the media licensing request for the external device when the media content record associated with the media content item does not verify the granting of 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 similar elements.

[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 from a 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 the media content item. Device 10 may refuse to play the digital media file and query the user to determine whether the user wishes to purchase the appropriate license when the user does 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 purchase the appropriate license. Licensing system 16 may identify the media content item based on the received fingerprint. Licensing system 16 may transmit back to device 10 the title and/or other information associated with the identified media content item and request the user to confirm purchase of the license. The user may interface with device 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 commence reproduction of the media content item. Moreover, licensing system 16 may store a record of the transaction for statistical purposes, and/or store a copy of the license in 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 retailers 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 transmission control 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 media record 84. Each media record 84 includes data associated with a unique media content item loaded into the licensing system 16. As such, a rights-holder or content creator 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 various information 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 data indicating 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 step 104, 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 of a license if the digital media file has not been properly licensed prior to reproduction. At step 122, a digital media file is loaded for reproduction on the external multimedia hardware 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 with the 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 digital 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 fingerprint identifies a media content item, even considering the possibility of different versions of 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 the occurrence of the lyrics, and/or any other media content item characteristic that will be apparent to those skilled in the relevant art(s) without departing from the spirit and scope 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 purchase a 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 to purchase a license. At step 137, the device transmits statistics related to the media content item stored on the digital media file to the media content licensing and verification 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 a media 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 to initializing the licensing transaction, the system receives the user identification data and confirms the user's identity. For example, the system logs the device into a secured transaction 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 includes data indicating a media content item that a user of the device wishes to acquire a license for. In an embodiment, the licensing request includes a fingerprint of the media content item, information identifying the rights-holder of the media content item, the title of the media 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 over the 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-holder owns. In another embodiment, a marketing and/or analytics company may receive valuable licensing and statistics data for media content items for particular demographics of 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 invention 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 content owners, 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 fingerprint recognition 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 hardware device. 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 I/O 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 providing a multimedia hardware device to generate an authorized reproduction of a media content item included in a digital media file, comprising:

receiving a license request from a user requesting to engage in a license transaction to reproduce a media content item;

evaluating the license transaction to determine whether the user has acquired a license to reproduce the media content item;

after the evaluation of the license transaction, extracting from the license transaction user data that is specific to the user that is attempting to reproduce the media content item when the user acquires the license and when the user declines the license, wherein the user data includes demographic data associated with the user that enables a copyright owner of the media content item to gauge a demographic that acquired the license for the media content item of the copyright owner and a demographic that declined the license for the media content item of the copyright owner;

aggregating the user data into a statistics record for the license request when the user acquires the license and when the user declines the license, wherein the statistics record summarizes the user data associated with the license request;

storing in a license database the statistics record so that the user data is accessible to the copyright owner of the media content item; and

analyzing a plurality of statistics records aggregated from each license request for the media content item owned by the copyright owner to provide the copyright owner with the aggregated user data from each license request of the media content item.

2. The method of claim 1, further comprising:

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

preventing reproduction of the media content item when the licensing 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 reproduce 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 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 reproduce the media content item that is accessible to a hardware device manufacturer that manufacturers hardware that is implemented by the multimedia hardware device.

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

7. A computer implemented method for providing a media content licensing and verification system to license media content for reproduction, the method comprising:

receiving a media licensing request from an external device associated with a user, wherein the media licensing request includes digital media information associated with the media content item included in a digital media file;

determining whether the media licensing request is to be granted based on a media content record stored in a media catalog database that is associated with the media content item;

after the determination of the media licensing request, extracting from the media licensing request user data that is specific to the user that is attempting to reproduce the media content item when the user is granted the license and when the user declines the

license, wherein the user data includes demographic data associated with the user that enables a copyright owner to gauge a demographic that acquired the license for the media content item of the copyright owner and a demographic that declined the license for the media content item of the copyright owner;

aggregating the user data into a statistics record for the media licensing request when the user acquires the license and when the user declines the license, wherein the statistics record summarizes the user data associated with the media licensing request;

storing in a license database the statistics record so that the user data is accessible to the copyright owner of the media content item; and

analyzing a plurality of statistics records aggregated from each media licensing request for the media content item owned by the copyright owner to provide the copyright owner with the aggregated user data from each media licensing request of the media content item when the license is acquired by the user and when the license is declined by the user.

7. The method of claim 7, 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.

8. The method of claim 7, wherein the digital media information includes a fingerprint associated with the media content item.

9. The method of claim 7, further comprising:

storing in the license database the user data that is associated with the user that is attempting to reproduce 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.

10. The method of claim 7, further comprising:

storing in the license database the user data that is associated with the user that is attempting to reproduce the media content item that is accessible to a hardware device manufacturer that manufacturers hardware that is implemented by the multimedia hardware device.

11. The method of claim 7, wherein the user data includes additional media content items that the user has previously accessed.

12. A system for providing a multimedia hardware device to generate an authorized reproduction of a media content item included in a digital media file, comprising:

a processor configured to:

receive a license request from a user requesting to engage in a license transaction to reproduce the media content item;

evaluate the license transaction to determine whether the user has acquired a license to reproduce the media content item;

after the evaluation of the license transaction, extract from the license transaction user data that is specific to the user that is attempting to reproduce the media content item when the user acquires the license and when the user declines the license, wherein the user data includes demographic data associated with the user that enables a copyright owner to gauge a demographic that acquired the license for the media content item of the copyright owner and a demographic that declined the license for the media content item of the copyright owner,

aggregate the user data into a statistics record for the license request when the user acquires the license and when the user declines the license, wherein the statistics record summarizes the user data associated with the license request,

store in the license database the statistics record so that the user data is accessible to the copyright owner of the media content item, and

analyze a plurality of statistics records aggregated from each license request for the media content item owned by the copyright owner to provide the copyright

owner with the aggregated user data from each license request of the media content item when the license is acquired by the user and when the license is declined by the user.

13. The system of claim 12, wherein the processor is further configured to:

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

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

14. The system of claim 12, wherein the processor is further configured to reproduce the media content item based on a plurality of reproduction parameters included in the license that is received from the licensing system.

15. The system of claim 12, 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 reproduce 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 12, 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 reproduce the media content item that is accessible to a hardware device manufacturer that manufacturers hardware that is implemented by the multimedia hardware device.

17. The system of claim 12, wherein the user data includes a quantity of times that the user has previously accessed the media content item and additional media content items.

18. A system for providing a media content licensing and verification system to license media content for reproduction, comprising:

a transceiver configured to receive a media licensing request from an external device associated with a user, wherein the media licensing request includes

digital media information associated with the media content item included in a digital media file; and

a processor configured to:

determine whether the media licensing request is to be granted based on the media content record stored in the media catalog database that is associated with the media content item,

after the determination of the media licensing request, extracting from the media licensing request user data that is specific to the user that is attempting to reproduce the media content item when the user acquires the license and when the user declines the license, wherein the user data includes demographic data associated with the user that enables a copyright owner to gauge a demographic that acquired the license for the media content item of the copyright owner and a demographic that declined the license for the media content item of the copyright owner,

aggregate the user data into a statistics record for the media licensing request when the user acquires the license and when the user declines the license, wherein the statistics record summarizes the user data associated with the media licensing request, and

store in a license database the statistics record so that the user data is accessible to the copyright owner of the media content item, and

analyze a plurality of statistics records aggregated from each media licensing request for the media content item owned by the copyright owner to provide the copyright owner with the aggregated user data from each license request of the media content item when the license is acquired by the user and when the license is declined by the user.

19. The system of claim 18, 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.

20. The system of claim 18, 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 reproduce 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.

21. The system of claim 20, 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 reproduce the media content item that is accessible to a hardware device manufacturer that manufacturers hardware that is implemented by the multimedia hardware device.

22. The system of claim 18, 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.

Abstract

Systems and methods for monetizing the reproduction of digital media content for the rights-holders of the digital media content. Embodiments of the present disclosure 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. Further embodiments 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 not approved for the license.

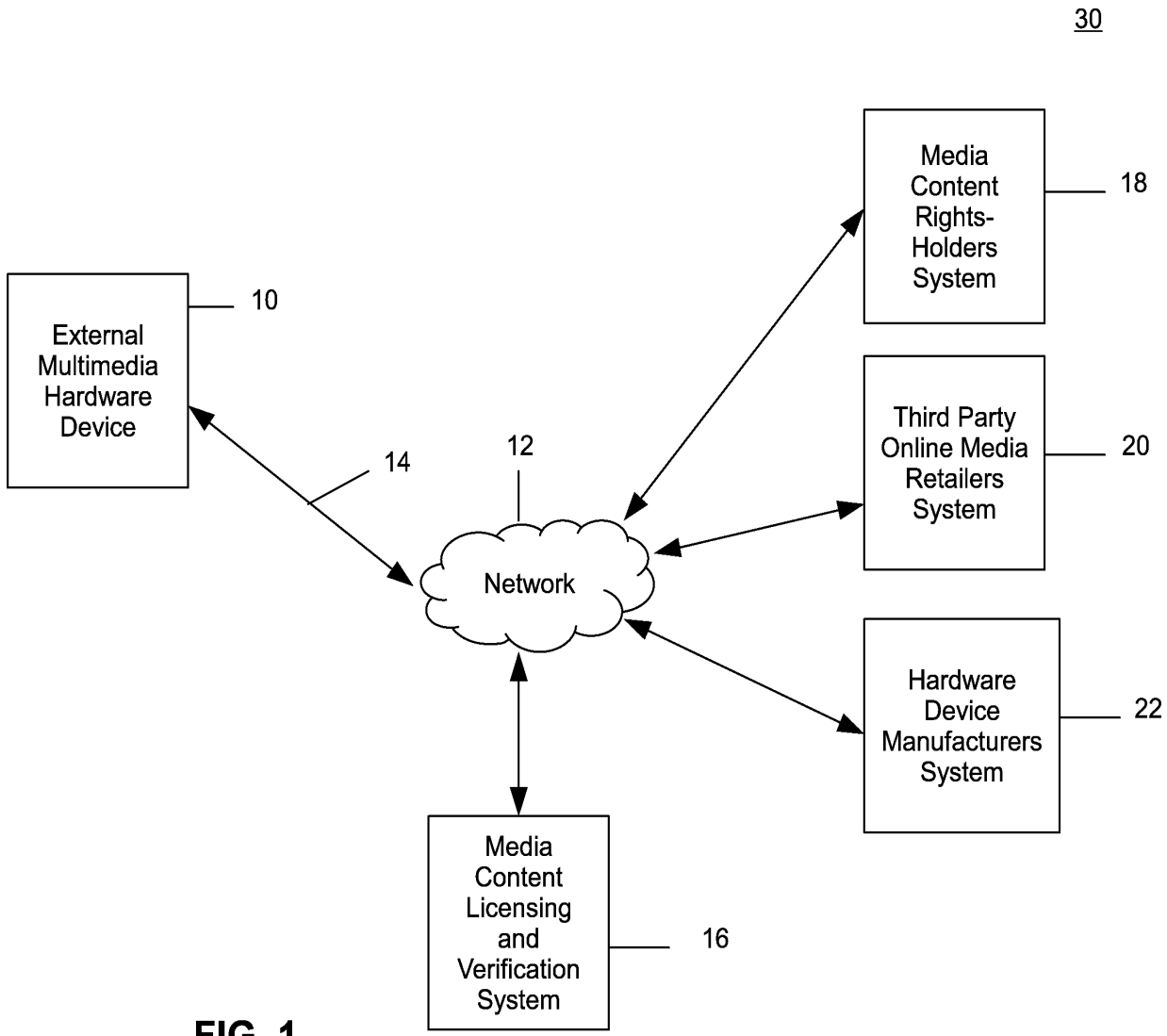
30
External Multimedia Hardware Device
10
14
12
Network
Media Content Rights-Holders System
18
Third Party Online Media Retailers System
20
Hardware Device Manufacturers System
22
Media Content Licensing and Verification System
16

FIG. 1

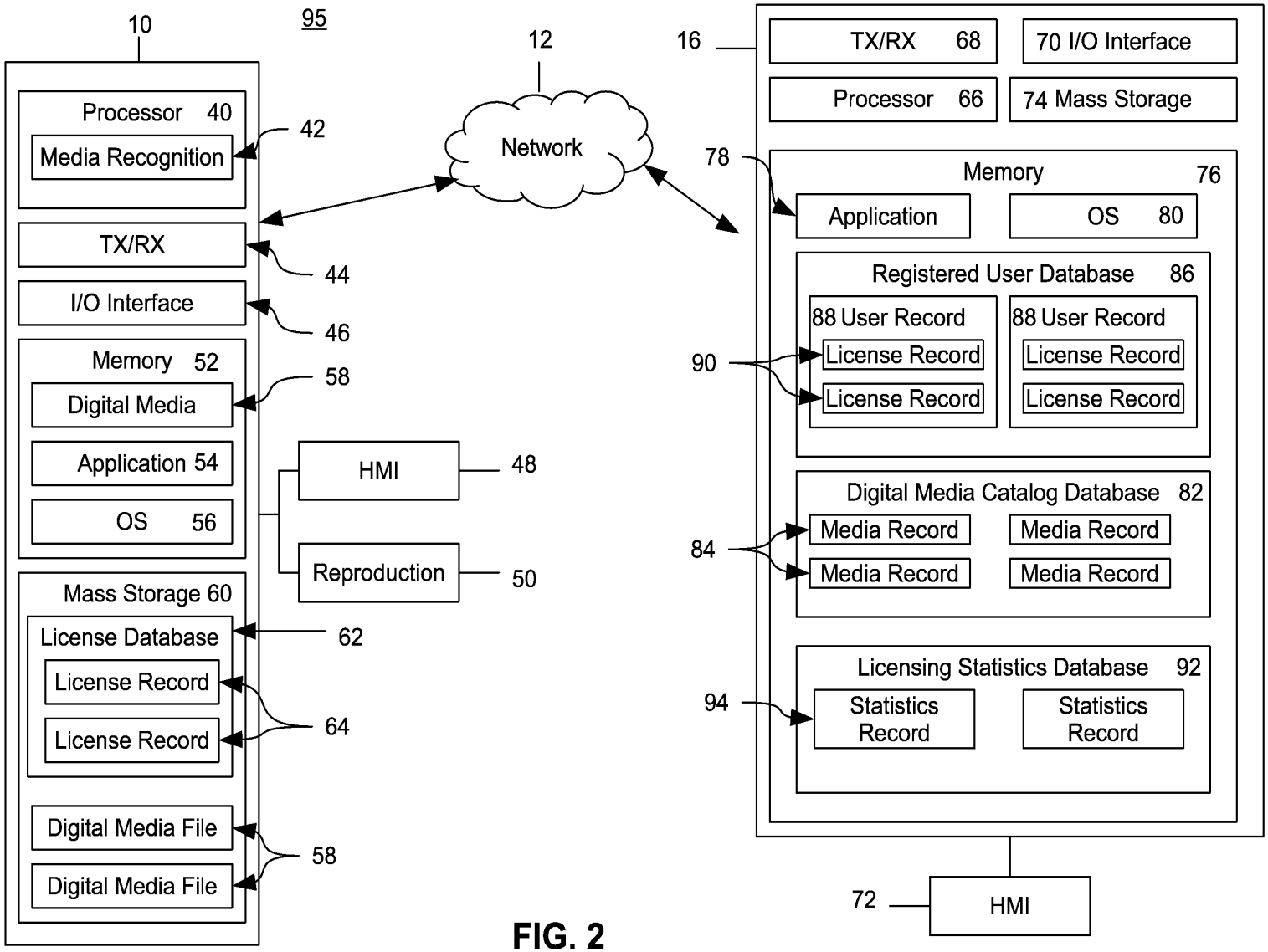
95
10
Processor 40
Media Recognition
42
TX/RX
44
I/O Interface
46
Memory 52
Digital Media
58
Application 54
OS 56
HMI
48
Reproduction
50
Mass Storage 60
License Database
62
License Record
License Record
64
Digital Media File
Digital Media File
58
12
Network
16
TX/RX 68
70 I/O Interface
Processor 66
74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

FIG. 2

100

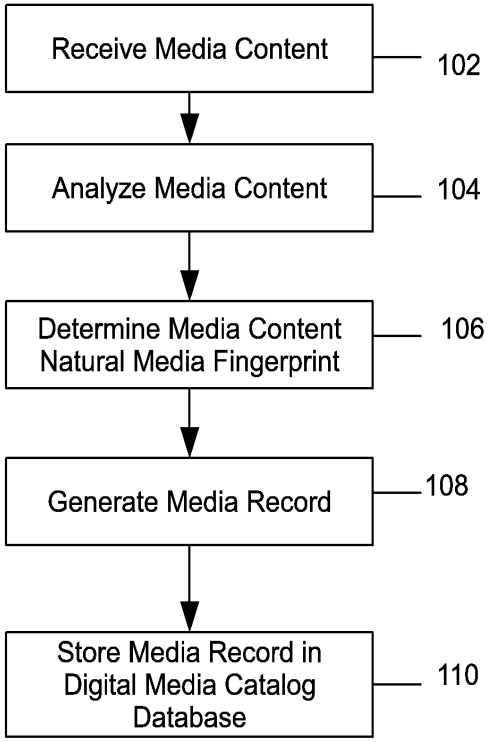
Receive Media Content
102
Analyze Media Content
104
Determine Media Content Natural Media Fingerprint
106
Generate Media Record
108
Store Media Record in Digital Media Catalog Database
110

FIG. 3

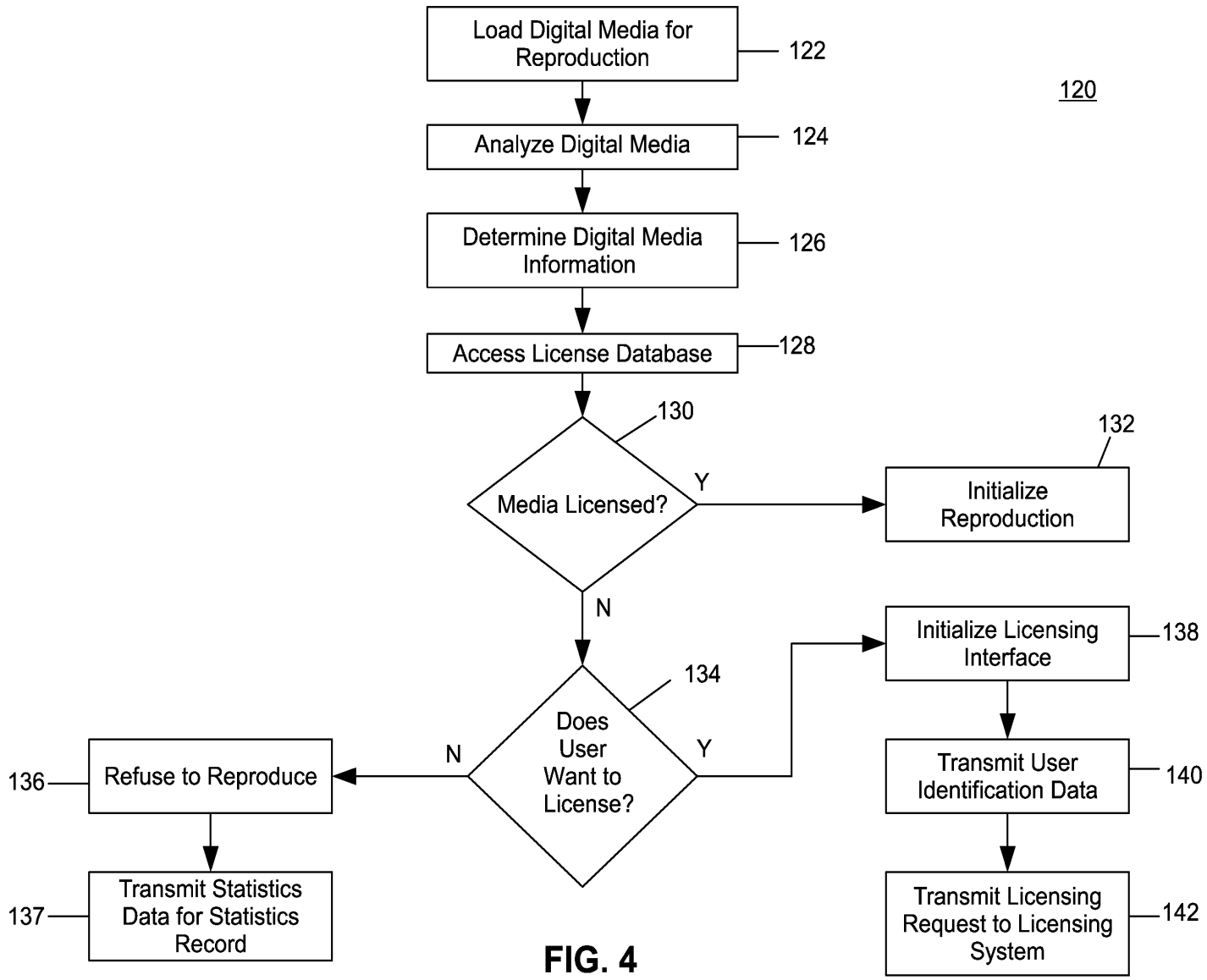
120
Load Digital Media for Reproduction
122
Analyze Digital Media
124
Determine Digital Media Information
126
Access License Database
128
130
Media Licensed?
Y
N
132
Initialize Reproduction
134
Does User Want to License?
N
Y
136
Refuse to Reproduce
137
Transmit Statistics Data for Statistics Record
138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

FIG. 4

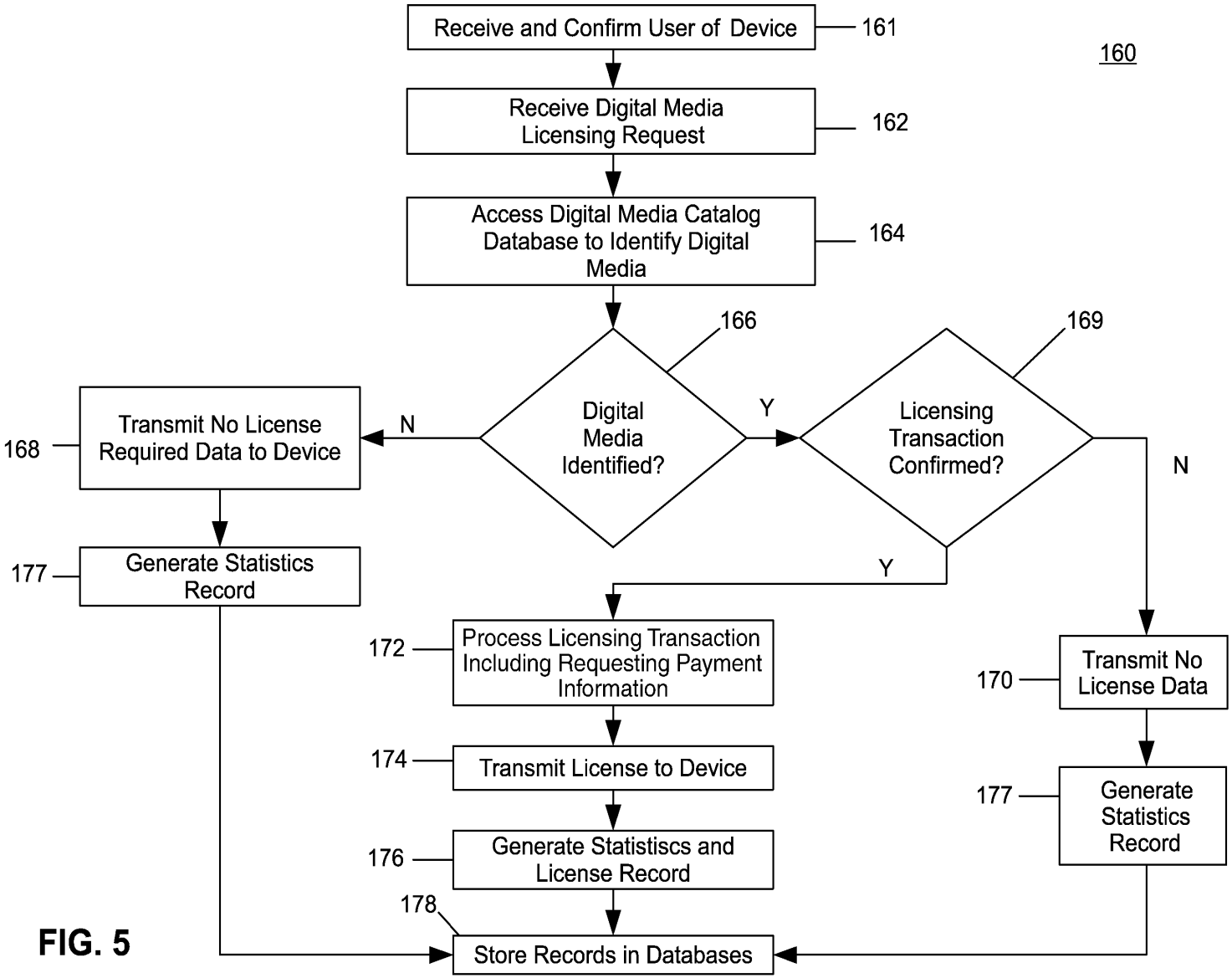
160
Receive and Confirm User of Device
161
Receive Digital Media Licensing Request
162
Access Digital Media Catalog Database to Identify Digital Media
164
Digital Media Identified?
166
N
Y
Licensing Transaction Confirmed?
169
N
Y
Transmit No License Required Data to Device
168
Generate Statistics Record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

FIG. 5

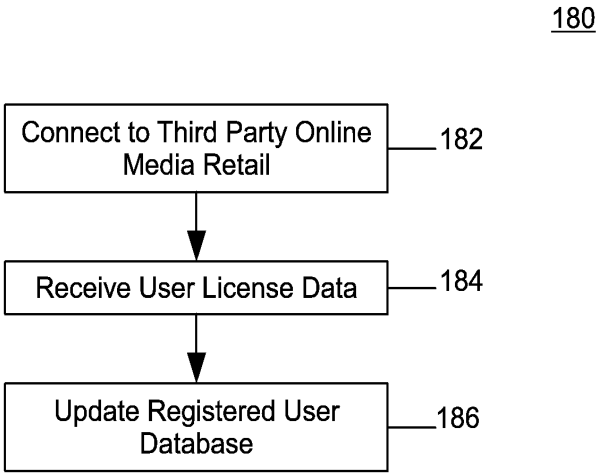
180
Connect to Third Party Online Media Retail
182
Receive User License Data
184
Update Registered User Database
186

FIG. 6

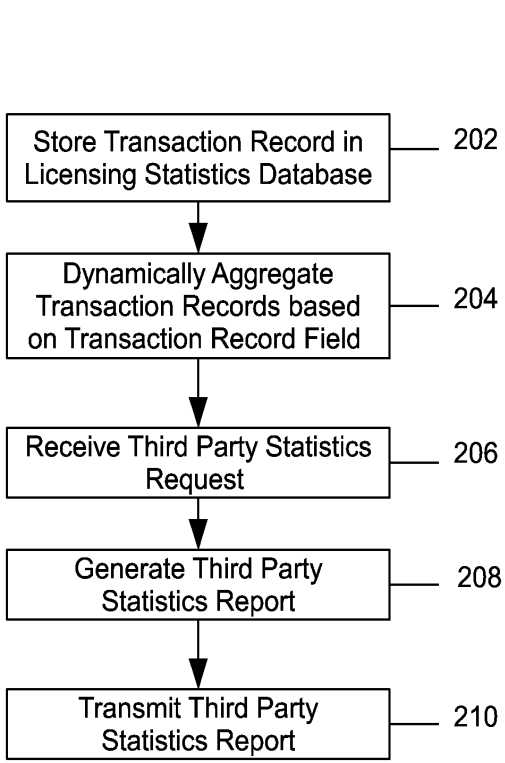
200
Store Transaction Record in Licensing Statistics Database
202
Dynamically Aggregate Transaction Records based on Transaction Record Field
204
Receive Third Party Statistics Request
206
Generate Third Party Statistics Report
208
Transmit Third Party Statistics Report
210

FIG. 7

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/Stephanie Goldman
Attorney Docket Number:	BESTES 07USCON

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	70	70
UTILITY SEARCH FEE	2111	1	300	300
UTILITY EXAMINATION FEE	2311	1	360	360
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	2202	2	40	80
INDEPENDENT CLAIMS IN EXCESS OF 3	2201	1	210	210
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1020**

Electronic Acknowledgement Receipt

EFS ID:	29886045
Application Number:	15659175
International Application Number:	
Confirmation Number:	6276
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Customer Number:	26875
Filer:	Patrick J. Palascak/Stephanie Goldman
Filer Authorized By:	Patrick J. Palascak
Attorney Docket Number:	BESTES 07USCON
Receipt Date:	25-JUL-2017
Filing Date:	
Time Stamp:	16:23:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1020
RAM confirmation Number	072617INTEFSW16265200
Deposit Account	233000
Authorized User	Stephanie Goldman

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

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

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	BESTES-07USCON_Application_Data_Sheet.PDF	1843020 6f91db9f54660c4c55fc9489ad918ecf8a425a12	no	8
Warnings:					
Information:					
2	Oath or Declaration filed	BESTES-07USCON_Declaration.PDF	989582 6ea6b8c494a629900c6b9cf40fd9533df6a88399	no	2
Warnings:					
Information:					
3	Power of Attorney	BESTES-07USCON_Atty_POA.PDF	213003 3ab2bcc2a7c27192563c2b752a7f40b78aa32b34	no	1
Warnings:					
Information:					
4	Power of Attorney	BESTES-07USCON_CientPOA.PDF	573138 89f5ec8585bf3b0846e87fa2967741d7230c7409	no	1
Warnings:					
Information:					
5		BESTES-07USCON_Specification.PDF	474905 259a518dfa2832b05f7fb73b130725852ba7de42	yes	38

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	30
Claims	31	37
Abstract	38	38

Warnings:					
Information:					
6	Drawings-only black and white line drawings	BESTES-07USCON_Drawings.PDF	589449 fa156eb963ae3cefcf4045ef4a4943c26e26cb0a	no	7
Warnings:					
Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	38019 baca078bcf8cb214ce1fe1c890776d5f1780f104	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	4721116	

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

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

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BESTES-07USCON
	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
Mr.	Christopher	A.	Estes	

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

City	Mountain View	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	240 Mountain View Avenue		
Address 2			
City	Mountain View	State/Province	CA
Postal Code	94041	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	26875		
Email Address	USPTODOCK@whe-law.com	Add Email	Remove Email

Application Information:

Title of the Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING		
Attorney Docket Number	BESTES-07USCON	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	7	Suggested Figure for Publication (if any)	

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BESTES-07USCON
	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	26875		

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: Patented — Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
	Continuation of	13/667629	2012-11-02	9715581	2017-07-25

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BESTES-07USCON
	Application Number	
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
13/667629	Claims benefit of provisional	61/555810	2011-11-04
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.			Add

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. Add

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	BESTES-07USCON
	Application Number	
Title of Invention	DIGITAL MEDIA REPRODUCTION AND LICENSING	

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

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

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

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

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BESTES-07USCON
	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 Remove

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. ☐

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

Mailing Address Information For Applicant:

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

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

Assignee Information including Non-Applicant Assignee 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.

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BESTES-07USCON
	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.

Remove

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

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

Mailing Address Information For Assignee including Non-Applicant Assignee:

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

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

Signature:

Remove

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

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

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

Signature	/Patrick J. Palascak/			Date (YYYY-MM-DD)	2017-07-25
First Name	Patrick	Last Name	Palascak	Registration Number	73,533

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BESTES-07USCON
	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.**

Privacy Act Statement

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

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

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

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

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

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

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

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

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

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

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

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

PTO/AIA/82B (07-13)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date
Not Yet Assigned	Concurrently Herewith

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

[X] I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 26875

OR

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

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

[ ] The address associated with the above-mentioned Customer Number

OR

[ ] The address associated with Customer Number:

OR

[ ] Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

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

[X] Inventor or Joint Inventor (title not required below)

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

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

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

SIGNATURE of Applicant for Patent

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

Signature	CA	Date (Optional)	
Name	Christopher A. Estes		
Title	CEO		

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

[ ] Total of 1 forms are submitted.

Attorney Docket No.: BESTES 07USCON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION FOR PATENT APPLICATION

I hereby declare that:

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

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

DIGITAL MEDIA REPRODUCTION AND LICENSING

the specification of which is attached hereto.

In the event that the filing date and/or Application No. are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request my attorneys/agent(s) at Wood Herron & Evans LLP, 441 Vine Street, Suite 2700, Cincinnati, Ohio 45202-2917, to insert above the filing date and/or Application No. of said application.

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

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

Full name of sole or first inventor Christopher A. Estes	
Sole or first inventor's signature	Date 7-25-17
Residence Mountain View, California	
Mailing Address 240 Mountain View Avenue Mountain View, California 94041	

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/659,175	07/25/2017		1060	BESTES-07USCON	23	4

CONFIRMATION NO. 6276

FILING RECEIPT

26875
WOOD, HERRON & EVANS, LLP
2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202

OC000000093163135

Date Mailed: 08/03/2017

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

Inventor(s)

Christopher A. Estes, Mountain View, CA;

Applicant(s)

Christopher A. Estes, Mountain View, CA;

Power of Attorney: The patent practitioners associated with Customer Number 26875

Domestic Priority data as claimed by applicant

This application 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: 08/01/2017

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/659,175**

Projected Publication Date: 11/09/2017

Non-Publication Request: No

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

DIGITAL MEDIA REPRODUCTION AND LICENSING

Preliminary Class

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
15/659,175

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	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	23 minus 20 =	* 3	x 40 =	120	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	* 1	x 210 =	210			
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	1060		TOTAL	

APPLICATION AS AMENDED - PART II

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

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

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

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/25 PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION AND TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	15659175
Filing Date	25-Jul-2017
First Named Inventor	Christopher Estes
Attorney Docket Number	BESTES-07USCON
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
Christopher A. Estes	100 %

The owner(s) of 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 any patent granted on pending reference Application Number(s)

15659175 filed on 07/25/2017

as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. 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 any patent granted on the reference application 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 any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: 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 shortened by any terminal disclaimer filed prior to its grant.

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.

Applicants claims the following fee status:

(●) Small Entity

( ) Micro Entity

( ) Regular Undiscounted

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

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

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

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

Registration Number 52798

( ) A sole inventor

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

( ) A joint inventor; all of whom are signing this request

Signature	/John Paul Davis/
Name	John Paul Davis

*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:	15659175
Filing Date:	25-Jul-2017
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Filer:	John Paul Davis/Stephanie Goldman
Attorney Docket Number:	BESTES-07USCON

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.: 15659175

Filing Date: 25-Jul-2017

Applicant/Patent under Reexamination: Estes

Electronic Terminal Disclaimer filed on October 2, 2017

☒ 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:	30532860
Application Number:	15659175
International Application Number:	
Confirmation Number:	6276
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Customer Number:	26875
Filer:	John Paul Davis/Stephanie Goldman
Filer Authorized By:	John Paul Davis
Attorney Docket Number:	BESTES-07USCON
Receipt Date:	02-OCT-2017
Filing Date:	25-JUL-2017
Time Stamp:	10:46:59
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	100217INTEFSW10465600
Deposit Account	233000
Authorized User	Stephanie Goldman

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

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

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	35876 605b5af921d1617399c6960aa68b34927f646346	no	3
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30389 cadf6bf1e13aed2a255ee849383013b586244b38	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	66265		

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

26875 7590 10/12/2017
WOOD, HERRON & EVANS, LLP
2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202

EXAMINER
MCCOY, RICHARD ANTHONY

ART UNIT	PAPER NUMBER
2431	

DATE MAILED: 10/12/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/659,175	07/25/2017	Christopher A. Estes	BESTES-07USCON	6276

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	$480	$0	$0	$480	01/12/2018

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

26875 7590 10/12/2017
WOOD, HERRON & EVANS, LLP
2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/659,175	07/25/2017	Christopher A. Estes	BESTES-07USCON	6276

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	$480	$0	$0	$480	01/12/2018

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 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

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

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

1_____
2_____
3_____

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

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

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

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

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

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

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

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29 — 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.

❑ Applicant asserting small entity status. See 37 CFR 1.27 — 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.

❑ Applicant changing to regular undiscounted fee 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. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/659,175	07/25/2017	Christopher A. Estes	BESTES-07USCON	6276

26875 7590 10/12/2017
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2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202

EXAMINER
MCCOY, RICHARD ANTHONY

ART UNIT	PAPER NUMBER
2431	

DATE MAILED: 10/12/2017

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 15/659,175	Applicant(s) ESTES, CHRISTOPHER A.	
	Examiner RICHARD A. MCCOY	Art Unit 2431	AIA (First Inventor to File) 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 *eTD filed 10/2/2017*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-22*. 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 *10/2/2017* .
5. ☒ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/MICHAEL R VAUGHAN/ Primary Examiner, Art Unit 2431	/R.A.M./ Examiner Art Unit 2431

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Information Disclosure Statement

No IDS was filed.

Drawings

Drawings filed 7/25/2017 are accepted.

Specification

Specification filed 7/25/2017 is accepted.

Examiners 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 John Davis on 10/2/2017. The amendment is as follows:

12. A system for providing a multimedia hardware device to generate an authorized reproduction of a media content item included in a digital media file, comprising:

<u>a memory coupled to</u> a processor configured to:

receive a license request from a user requesting to engage in a license transaction to reproduce the media content item;

evaluate the license transaction to determine whether the user has acquired a license to reproduce the media content item;

after the evaluation of the license transaction, extract from the license transaction user data that is specific to the user that is attempting to reproduce the media content item when the user acquires the license and when the user declines the license, wherein the user data includes demographic data associated with the user that enables a copyright owner to gauge a demographic that acquired the license for the media content item of the copyright owner and a demographic that declined the license for the media content item of the copyright owner,

aggregate the user data into a statistics record for the license request when the user acquires the license and when the user declines the license, wherein the statistics record summarizes the user data associated with the license request,

store in the license database the statistics record so that the user data is accessible to the copyright owner of the media content item, and

analyze a plurality of statistics records aggregated from each license request for the media content item owned by the copyright owner to provide the copyright owner with the aggregated user data from each license request of the media content item when the license is acquired by the user and when the license is declined by the user.

18. A system for providing a media content licensing and verification system to license media content for reproduction, comprising:

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

<u>a memory coupled to</u> a processor configured to:

determine whether the media licensing request is to be granted based on the media content record stored in the media catalog database that is associated with the media content item,

after the determination of the media licensing request, extracting from the media licensing request user data that is specific to the user that is attempting to reproduce the media content item when the user acquires the license and when the user declines the license, wherein the user data includes demographic data associated with the user that enables a copyright owner to gauge a demographic that acquired the license for the media content item of the copyright owner and a demographic that declined the license for the media content item of the copyright owner,

aggregate the user data into a statistics record for the media licensing request when the user acquires the license and when the user declines the license, wherein the statistics record summarizes the user data associated with the media licensing request, and

store in a license database the statistics record so that the user data is accessible to the copyright owner of the media content item, and

analyze a plurality of statistics records aggregated from each media licensing request for the media content item owned by the copyright owner to provide the copyright owner with the aggregated user data from each license request of the media content item when the license is acquired by the user and when the license is declined by the user.

Allowable Subject Matter

Claims **1-22** 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**]

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

However, none of the prior art discloses the specific combination of limitations claimed including storing demographic data about users that decline a media license in order to inform a marketing analysis in combination with the other limitations of the claims.

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 10-6 EST M-F.

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, Cordelia Zecher can be reached on 571-272-7771. 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 http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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

/MICHAEL R VAUGHAN/

Primary Examiner, Art Unit 2431

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	15/659,175	ESTES, CHRISTOPHER A.	
	Examiner	Art Unit	
	RICHARD A. MCCOY	2431	

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

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

(2) *John Davis*. (4)_____.

Date of Interview: *02 October 2017*.

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: *none*.

Identification of prior art discussed: *none*.

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 to request an examiner's amendment which was approved and an eTD which was filed.

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

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

☐ Attachment

/RICHARD A MCCOY/ Examiner, Art Unit 2431	

Notice of References Cited	Application/Control No. 15/659,175	Applicant(s)/Patent Under Reexamination ESTES, CHRISTOPHER A.	
	Examiner RICHARD A. MCCOY	Art Unit 2431	Page 1 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2002/0032905 A1	03-2002	Sherr, Scott Jeffrey	G06F21/10	725/38
*	B	US-2002/0154157 A1	10-2002	Sherr, Scott Jeffrey	G11B27/034	715/716
*	C	US-2003/0149884 A1	08-2003	Hernandez, Randolph	G06F21/10	713/193
*	D	US-2003/0220883 A1	11-2003	Block, Jeffrey Alan	G06F21/10	705/59
*	E	US-2004/0039916 A1	02-2004	Aldis, David	G06F21/10	713/177
*	F	US-2005/0004873 A1	01-2005	Pou, Robin	G06F21/10	705/51
*	G	US-2005/0060701 A1	03-2005	Murase, Yasuhiro	G06Q30/06	717/178
*	H	US-2005/0114265 A1	05-2005	Satkunanathan, Lingan	G06F21/10	705/59
*	I	US-6,920,567 B1	07-2005	Doherty; Robert J.	G06F21/10	707/999.104
*	J	US-2005/0177844 A1	08-2005	Levi, Ron	G06Q30/02	725/30
*	K	US-2005/0223415 A1	10-2005	Oho, Masahiro	G06F21/606	726/27
*	L	US-2006/0031785 A1	02-2006	Raciborski; Nathan F.	G06F17/30041	715/859
*	M	US-2007/0055439 A1	03-2007	Denker; Dennis	G01S5/0036	701/532

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Notice of References Cited	Application/Control No. 15/659,175	Applicant(s)/Patent Under Reexamination ESTES, CHRISTOPHER A.	
	Examiner RICHARD A. MCCOY	Art Unit 2431	Page 2 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2007/0241176 A1	10-2007	Epstein; Johnny Stuart	G06F21/10	235/375
*	B	US-2008/0027742 A1	01-2008	Maeda; Kenji	G06F21/105	705/1.1
*	C	US-2008/0243694 A1	10-2008	Johnson; Jerry Alan	G06Q30/0603	705/52
*	D	US-2009/0210245 A1	08-2009	Wold; Edwin Leonard	G06Q10/10	700/300
*	E	US-2010/0324983 A1	12-2010	Etchegoyen; Craig S.	G06F21/10	705/14.23
*	F	US-2011/0051914 A1	03-2011	Neuman; Michael	H04M19/04	379/93.17
*	G	US-2011/0213721 A1	09-2011	RALEY; Michael Charles	G06F21/10	705/310
*	H	US-2012/0010931 A1	01-2012	Mehra; Krishna Kumar	G06Q10/107	705/14.16
*	I	US-2012/0096339 A1	04-2012	Cohen; Laurence G.	H04L67/06	715/221
*	J	US-8,151,194 B1	04-2012	Chan; Tracy Patrick	G06F17/30817	709/224
*	K	US-2012/0109834 A1	05-2012	Bongiovanni; Michele	G06Q10/06	705/317
*	L	US-2012/0123831 A1	05-2012	King; David G.	G06Q30/0274	705/14.7
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FOREIGN PATENT DOCUMENTS

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Notice of References Cited	Application/Control No. 15/659,175	Applicant(s)/Patent Under Reexamination ESTES, CHRISTOPHER A.	
	Examiner RICHARD A. MCCOY	Art Unit 2431	Page 3 of 3

U.S. PATENT DOCUMENTS

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*	A	US-2012/0123916 A1	05-2012	Shintani; Peter	G06Q30/0251	705/30
*	B	US-2012/0303490 A1	11-2012	Hill; Peter F.	G06Q30/00	705/27.2
*	C	US-2013/0051772 A1	02-2013	Ramaswamy; Arun	H04N21/25875	386/291
*	D	US-2013/0047271 A1	02-2013	Tang; Ding-Yuan	G06F21/10	726/30
*	E	US-2014/0108029 A1	04-2014	Kim; John Sung	G06Q50/22	705/2
*	F	US-8,745,647 B1	06-2014	Shin; Brian J.	H04N21/442	725/10
*	G	US-2015/0040002 A1	02-2015	Kannan; Anu	G06F3/0482	715/246
*	H	US-9,148,706 B1	09-2015	Shin; Brian J.	H04N21/812	1/1
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	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
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CPC Combination Sets							
Symbol				**Type**	**Set**	**Ranking**	**Version**
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/R.A.M./ Examiner.Art Unit 2431 (Assistant Examiner)	10/01/2017 (Date)	**Total Claims Allowed:** 22	
/MICHAEL R VAUGHAN/ Primary Examiner.Art Unit 2431 (Primary Examiner)	10/02/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	ESTES, CHRISTOPHER A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION									
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED				
726	32	G	0	6	F	21 / 10 (2013.0)					

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

/R.A.M./ Examiner.Art Unit 2431 (Assistant Examiner)	10/01/2017 (Date)	**Total Claims Allowed:** 22	
/MICHAEL R VAUGHAN/ Primary Examiner.Art Unit 2431 (Primary Examiner)	10/02/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

U.S. Patent and Trademark Office

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

/R.A.M./ Examiner.Art Unit 2431 (Assistant Examiner)	10/01/2017 (Date)	**Total Claims Allowed:** 22	
/MICHAEL R VAUGHAN/ Primary Examiner.Art Unit 2431 (Primary Examiner)	10/02/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

U.S. Patent and Trademark Office

Part of Paper No. 20171001

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2157	licens$3 with (media content movie song video) with (database datastore repository)	US-PGPUB; USPAT	OR	ON	2014/02/04 17:55
S2	343	license with (media content movie song video) with (licens$3 adj2 (database datastore repository))	US-PGPUB; USPAT	OR	ON	2014/02/04 17:55
S3	44	license with (media content movie song video) with (licens$3 adj2 (database datastore repository)) with (query prompt interface gui dialog)	US-PGPUB; USPAT	OR	ON	2014/02/04 17:56
S4	0	license with (media content movie song video) with (licens$3 adj2 (database datastore repository)) with (query prompt interface gui dialog) same accept same decline	US-PGPUB; USPAT	OR	ON	2014/02/04 17:57
S5	0	license with (media content movie song video) with (licens$3 adj2 (database datastore repository)) with (query prompt interface gui dialog) with accept	US-PGPUB; USPAT	OR	ON	2014/02/04 17:57
S6	49	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog)	US-PGPUB; USPAT	OR	ON	2014/02/04 17:57
S7	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with payment	US-PGPUB; USPAT	OR	ON	2014/02/04 17:58
S8	5	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same (credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 17:59
S9	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same (credit pay$4) and watermark	US-PGPUB; USPAT	OR	ON	2014/02/04 18:01
S10	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same watermark	US-PGPUB; USPAT	OR	ON	2014/02/04 18:01
S11	2	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with (fingerprint watermark id identifier	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02

		serial guid uuid)				
S12	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with (fingerprint watermark id identifier serial guid uuid) same (credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02
S13	0	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same(fingerprint watermark id identifier serial guid uuid) same (credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02
S14	5	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) same(fingerprint watermark id identifier serial guid uuid) and(credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02
S15	2	license with (media content movie song video) with (licens$3 adj3 (database datastore repository)) with (query prompt interface gui dialog) with (fingerprint watermark id identifier serial guid uuid) and(credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:02
S16	10	S8 S11 S14 S15	US-PGPUB; USPAT	OR	ON	2014/02/04 18:03
S17	4	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$).did. or (US-6920567-$).did.	US-PGPUB; USPAT	OR	ON	2014/02/04 18:25
S18	10122	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2014/02/04 18:29
S19	0	S18 and (licens$3 adj3 (database datastore repository))with (query prompt interface gui dialog) with(fingerprint watermark id identifier serial guid uuid) with (credit pay$4)	US-PGPUB; USPAT	OR	ON	2014/02/04 18:31
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 (retail$3 distribut$3) with user adj2 (data information profile) and license adj2 database	US-PGPUB; USPAT	OR	ON	2014/09/08 19:02
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	US-PGPUB;	OR	ON	2014/09/08

		(own owner ownership holder))) with (pick select choose hire pay contract retain) with (retail$2 reseller distributor) not S33 with publish$3	USPAT			21:40
S38	17	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 S33	US-PGPUB; USPAT	OR	ON	2014/09/08 21:40
S39	16066	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	2973	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2015/04/23 13:29
S58	2198	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2015/04/23 13:30
S59	11353	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	15263	S54 S58 S59 S60	US-PGPUB; USPAT	OR	ON	2015/04/23 13:31
S62	0	S61 and (license adj2 database with (age birthday demographic) with (address region country state location geographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:31
S63	0	S61 and (license adj2 (database store) with (age birthday demographic) with (address region country state location geographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:32
S64	891	S61 and ((license adj2 (database store)))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:32
S65	0	S61 and ((license adj2 (database store)) with "user data" with (market$3 customer sale))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:34
S66	0	((license adj2 (database store)) with "user data" with (market$3 customer sale))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:35
S67	43	((license adj2 (database store)) with (customer user) near4 (data information) with (market$3 customer sale))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:36
S68	1	((license adj2 (database store)) with (customer user) near4 (data information) with ((new additional) adj2 (market$3 customer sale)))	US-PGPUB; USPAT	OR	ON	2015/04/23 13:36
S69	269	(license adj2 (database store)) with (customer user demographic market sale usage meta) near4 (data information)	US-PGPUB; USPAT	OR	ON	2015/04/23 13:40
S70	62	(media content video audio song movie) with (license adj2 (database store)) with (customer user demographic market sale usage meta) near4 (data information)	US-PGPUB; USPAT	OR	ON	2015/04/23 13:41
S71	0	(media content video audio song movie) with (license adj2 (database store)) with (customer user demographic market sale usage meta) near4 (data information) with validation	US-PGPUB; USPAT	OR	ON	2015/04/23 13:41
S72	62	(media content video audio song movie) with (license adj2 (database store)) with (customer user demographic market sale usage meta) near4 (data information)	US-PGPUB; USPAT	OR	ON	2015/04/23 13:41
S73	345	(media content video audio song movie) with (license adj2 (database db store)) and ((customer user demographic market sale usage meta) near4 (data information) with (database db store))	US-PGPUB; USPAT	OR	ON	2015/04/23 14:10
S74	102	(media content video audio song movie) with (license adj2 (database db store)) same ((customer user demographic market sale usage meta) near4 (data information) with (database	US-PGPUB; USPAT	OR	ON	2015/04/23 14:13

		db store))				
S75	63	(media content video audio song movie) with (license adj2 (database db store)) and ((customer user demographic market sale usage meta) near4 (data information) with (database db store) with (address region country state location geographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 14:14
S76	63	(media content video audio song movie) with (license adj2 (database db store)) and ((customer user demographic market sale usage meta) near4 (data information) with (database db store) with (address region country state location geographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 16:00
S77	71	(media content video audio song movie) with (license adj2 (database db store)) and ((customer user demographic market sale usage meta) near4 (data information) with (database db store) with (address region country state location geographic demographic))	US-PGPUB; USPAT	OR	ON	2015/04/23 16:14
S78	1	(US-6920567-$).did.	USPAT	OR	ON	2015/11/30 13:51
S79	1	(US-20130047271-$).did.	US-PGPUB	OR	ON	2015/11/30 13:51
S80	2	(US-20020154157-$ or US-20020032905-$).did.	US-PGPUB	OR	ON	2015/11/30 13:51
S81	4	S78 S79 S80	US-PGPUB; USPAT	OR	ON	2015/11/30 13:51
S82	3	(compil$3 aggregat$3 assembl$4 creat$3) with (record statistics database summary) and S81	US-PGPUB; USPAT	OR	ON	2015/11/30 13:53
S83	23	youtube with analytic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:09
S84	181	(author owner) with content with analytic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:12
S85	0	((author owner) with content with analytic).ti.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:13
S86	2	((author owner) with content with analytic).ab.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:13
S87	3	((author owner) with content with analytic).clm.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:13
S88	5	S86 S87	US-PGPUB; USPAT	OR	ON	2015/11/30 16:13
S89	0	(author owner) with content with analytic with monotiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14
S90	0	(author owner) with content with analytic same monotiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14
S91	0	(author owner) with content with analytic and monotiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14
S92	0	(author owner) with content with analytic same youtube	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14
S93	13	(author owner) with content with analytic and youtube	US-PGPUB; USPAT	OR	ON	2015/11/30 16:14

S94	0	(author owner) with content same analytic and monotiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:15
S95	20	(author owner) with content with analytic with (publisher distributor)	US-PGPUB; USPAT	OR	ON	2015/11/30 16:15
S96	49	(author owner) with (video song content) with (statistic analytic) with (publisher distributor)	US-PGPUB; USPAT	OR	ON	2015/11/30 16:21
S97	0	(author owner) with (video song content) with (statistic analytic) with (publisher distributor) same monitiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:21
S98	0	(author owner) with (video song content) with (statistic analytic) with (publisher distributor) and monitiz$3	US-PGPUB; USPAT	OR	ON	2015/11/30 16:21
S99	4	(author owner) with (video song content) with (statistic analytic) with (publisher distributor) with demographic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:21
S100	10	(author owner) with (video song content) with (statistic analytic) with (publisher distributor) same3 demographic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:22
S101	6	(author owner) with (video song content) with (statistic analytic) with (publisher distributor) same3 demographic not S99	US-PGPUB; USPAT	OR	ON	2015/11/30 16:22
S102	0	youtube.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:24
S103	14879	google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:24
S104	274	google.as. and insight	US-PGPUB; USPAT	OR	ON	2015/11/30 16:24
S105	5	google.as. and insight and metrics and statistics and demographic and analytic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:25
S106	1	(US-8151194-$).did.	USPAT	OR	ON	2015/11/30 16:29
S107	15	(author owner publisher distributor) with (video song content) with (statistic analytic demographic geographic) with (views downloads) and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:31
S108	0	(author owner publisher distributor) with (video song content) with (statistic analytic demographic geographic) with (views downloads) same monotiz$3 and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:32
S109	0	video with monotiz$3 and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:33
S110	0	video with monotiz$3 and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:33
S111	41	video with syndication and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:55
S112	0	video with syndication with channel and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:55
S113	2	video with syndication and analytics and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:57
S114	0	video with syndication and analytics and demographic and google.as.	US-PGPUB; USPAT	OR	ON	2015/11/30 16:58

S115	0	video with syndication same analytics with demographic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:59
S116	0	video with (monitization syndication) same analytics with demographic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:59
S117	17	video with (monitization syndication) and analytics with demographic	US-PGPUB; USPAT	OR	ON	2015/11/30 16:59
S118	1	(US-6920567-$).did.	USPAT	OR	ON	2015/11/30 17:17
S119	1	(US-20130047271-$).did.	US-PGPUB	OR	ON	2015/11/30 17:17
S120	2	(US-20020154157-$ or US-20020032905-$).did.	US-PGPUB	OR	ON	2015/11/30 17:17
S121	4	S118 S119 S120	US-PGPUB; USPAT	OR	ON	2015/11/30 17:17
S122	3	(compil$3 aggregat$3 assembl$4 creat$3) with (record statistics database summary report) and S121	US-PGPUB; USPAT	OR	ON	2015/11/30 17:17
S123	1	"20030149884".pn.	US-PGPUB; USPAT	OR	ON	2016/06/10 14:38
S124	1	"20050060701".pn.	US-PGPUB; USPAT	OR	ON	2016/06/10 14:38
S125	32	(US-20120096339-$ or US-20110213721-$ or US-20040039916-$ or US-20050114265-$ or US-20130047271-$ or US-20100324983-$ or US-20110051914-$ or US-20120010931-$ or US-20150040002-$ or US-20120109834-$ or US-20070055439-$ or US-20090210245-$ or US-20140108029-$ or US-20050177844-$ or US-20130051772-$ or US-20080243694-$ or US-20080027742-$ or US-20070241176-$ or US-20060031785-$ or US-20050223415-$ or US-20050004873-$ or US-20020154157-$ or US-20020032905-$ or US-20120124638-$ or US-20120123831-$ or US-20030149884-$).did. or (US-20050060701-$).did. or (US-6920567-$ or US-7676437-$ or US-8745647-$ or US-9148706-$ or US-8151194-$).did.	US-PGPUB; USPAT	OR	ON	2017/03/10 18:24
S126	0	((accept$3 receiv$3 acquir$3) near3 license) same ((declin$3 refus$3) near3 license) same ((captur$3 gather$3 record$3 log$4 with data))	US-PGPUB; USPAT	OR	ON	2017/03/10 18:25
S127	18	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3) near3 license) same ((captur$3 gather$3 record$3 log$4))	US-PGPUB; USPAT	OR	ON	2017/03/10 18:28
S128	180	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3) near3 license) same ((collect$3 captur$3 gather$3 record$3 log$4)) not3	US-PGPUB; USPAT	OR	ON	2017/03/10 18:29
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))	US-PGPUB; USPAT	OR	ON	2017/03/10 18:29

		not S127				
S130	0	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3 reject$3) near3 license) same ((market$3 demographic) adj data age gender race)	US-PGPUB; USPAT	OR	ON	2017/03/10 18:38
S131	37	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3 reject$3) near3 license) same ((market$3 demographic) adj data age gender race country state region language origin)	US-PGPUB; USPAT	OR	ON	2017/03/10 18:57
S132	0	((accept$3 receiv$3 acquir$3) near5 license) same ((declin$3 refus$3 reject$3) near3 license) same (((market$3 demographic) adj data) age gender race country state region language origin) not S131	US-PGPUB; USPAT	OR	ON	2017/03/10 19:00
S133	0	collect with (((market$3 demographic) adj data) age gender race country state region language origin) with browse near5 song	US-PGPUB; USPAT	OR	ON	2017/03/10 19:01
S134	0	collect with (((market$3 demographic) adj data) age gender race country state region language origin) with brows$3 near5 song	US-PGPUB; USPAT	OR	ON	2017/03/10 19:01
S135	7	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country state region language origin) with brows$3 near5 song	US-PGPUB; USPAT	OR	ON	2017/03/10 19:02
S136	10	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country state region language origin) with ((brows$3 near5 song) without adj license)	US-PGPUB; USPAT	OR	ON	2017/03/10 19:03
S137	3	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country state region language origin) with ((brows$3 near5 song) without adj license) not S135	US-PGPUB; USPAT	OR	ON	2017/03/10 19:03
S138	1	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country region language origin) with ((brows$3 near5 song) without adj license) not S135	US-PGPUB; USPAT	OR	ON	2017/03/10 19:05
S139	3	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic) adj data) age gender race country region language origin) with ((brows$3 near5 song) without adj license) not S135	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/03/10 19:05
S140	33	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic user) adj data)) with ((brows$3 near5 (movie media song)) without adj license) not S135	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/10 19:08

S141	33	(collect$3 captur$3 gather$3 record$3 log$4) with (((market$3 demographic user) adj data)) with ((brows$3 near5 (movie media song)) without adj license)	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/10 19:08
S142	8980	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 (metrics statistics demographic analytic$2 data))) not S144	US-PGPUB; USPAT	OR	ON	2017/03/13 12:35
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	US-PGPUB;	OR	ON	2017/03/13

		marketing) adj data)	USPAT			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-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-$).did.	US-PGPUB; USPAT	OR	ON	2017/03/13 16:14
S168	33	(US-20120096339-$ 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	3458	h04l2463/101.cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21
S170	2891	g06f21/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21
S171	14439	g06f21/10.cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21

S172	1583	g06f21/105.cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21
S173	19552	S169 S170 S171 S172	US-PGPUB; USPAT	OR	ON	2017/10/01 14:21
S174	15825	(G06F21/10 G06F21/105 G06F21/16).cpc.	US-PGPUB; USPAT	OR	ON	2017/10/01 14:22
S175	19945	S173 S174	US-PGPUB; USPAT	OR	ON	2017/10/01 14:22
S176	36652	licens$3 with (media content movie song video copyright)	US-PGPUB; USPAT	OR	ON	2017/10/01 14:23
S177	7027	S175 and S176	US-PGPUB; USPAT	OR	ON	2017/10/01 14:23
S178	1325	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	158677	((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	158677	(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 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 14:53
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

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"	USPAT	OR	ON	2017/10/01

		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.				15:50

10/ 1/ 2017 4:43:20 PM
C:\ Users\ rmccoy1\ Documents\ EAST\ Workspaces\ 13667629.wsp

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BIB DATA SHEET

CONFIRMATION NO. 6276

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
15/659,175	07/25/2017 **RULE**	726	2431	BESTES-07USCON

APPLICANTS

INVENTORS

Christopher A. Estes, Mountain View, CA;

**** CONTINUING DATA ***************************

This application is a CON of 13/667,629 11/02/2012 PAT 9715581
which claims benefit of 61/555,810 11/04/2011

**** FOREIGN APPLICATIONS ****************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
08/01/2017

Foreign Priority claimed	❑ Yes ☑ No		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	❑ Yes ☑ No	❑ Met after Allowance	CA	7	23	4
Verified and Acknowledged	/RICHARD ANTHONY MCCOY/ Examiner's Signature	Initials				

ADDRESS

WOOD, HERRON & EVANS, LLP
2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202
UNITED STATES

TITLE

DIGITAL MEDIA REPRODUCTION AND LICENSING

FILING FEE RECEIVED		
1060	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	❑ All Fees ❑ 1.16 Fees (Filing) ❑ 1.17 Fees (Processing Ext. of time) ❑ 1.18 Fees (Issue) ❑ Other _____ ❑ Credit

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	ESTES, CHRISTOPHER A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

CPC- SEARCHED

Symbol	Date	Examiner
combine key word search w cpc classes : (G06F21/10G06F21/105G06F21/16).cpc. {see attached east file	2-6-14	mccoy

CPC COMBINATION SETS - SEARCHED

Symbol	Date	Examiner

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
no assignee in palm; dp search for inventer done in palm	2-6-14	mccoy
updated search according to claim amendments. see attached east file.	9/9/14	mccoy
updated search according to the claim amendments. see attached east file	4/24/2015	mccoy
updated search (see attached east file)	12/1/2015	mccoy
updated search (see attached east file)	6/10/2016	mccoy
updated search (see file)	3/13/2016	mccoy
updated search (see attached east file)	10/1/2017	mccoy

INTERFERENCE SEARCH

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

/R.M./ Examiner.Art Unit 2431	

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
key word searched		3/13/2017	mccoy
	updated key word search (see attached east file)	10/1/2017	mccoy

/R.M./ Examiner.Art Unit 2431	

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/659,175	07/25/2017	Christopher A. Estes	BESTES-07USCON	6276

26875 7590 10/31/2017
WOOD, HERRON & EVANS, LLP
2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202

EXAMINER
MCCOY, RICHARD ANTHONY

ART UNIT	PAPER NUMBER
2431	

NOTIFICATION DATE	DELIVERY MODE
10/31/2017	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):

usptodock@whe-law.com

PTOL-90A (Rev. 04/07)

corrected ***Notice of Allowability***	**Application No.** 15/659,175	**Applicant(s)** ESTES, CHRISTOPHER A.	
	Examiner RICHARD A. MCCOY	**Art Unit** 2431	**AIA (First Inventor to File) 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 received 10/20/2017*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-23*. 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 *10/23/2017* .
5. ☒ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/MICHAEL R VAUGHAN/ Primary Examiner, Art Unit 2431	/R. A. M./ Examiner, Art Unit 2431

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

DETAILED ACTION

This corrected notice of allowance is required because the claims allowed on 10/12/2017 included two claims designated as claim 7.

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 John Davis on 10/23/2017.

The amendment is as follows:

8.~~7.~~ The method of claim 7, 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.~~8.~~ The method of claim 7, wherein the digital media information includes a fingerprint associated with the media content item.

10.~~9.~~ The method of claim 7, further comprising:

storing in the license database the user data that is associated with the user that is attempting to reproduce 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.~~10.~~ The method of claim 7, further comprising:

storing in the license database the user data that is associated with the user that is attempting to reproduce the media content item that is accessible to a hardware device

manufacturer that manufacturers hardware that is implemented by the multimedia hardware device.

12.~~11.~~ The method of claim 7, wherein the user data includes additional media content items that the user has previously accessed.

13.~~12.~~ A system for providing a multimedia hardware device to generate an authorized reproduction of a media content item included in a digital media file, comprising:

a processor configured to:

receive a license request from a user requesting to engage in a license transaction to reproduce the media content item;

evaluate the license transaction to determine whether the user has acquired a license to reproduce the media content item;

after the evaluation of the license transaction, extract from the license transaction user data that is specific to the user that is attempting to reproduce the media content item when the user acquires the license and when the user declines the license, wherein the user data includes demographic data associated with the user that enables a copyright owner to gauge a demographic that acquired the license for the media content item of the copyright owner and a demographic that declined the license for the media content item of the copyright owner,

aggregate the user data into a statistics record for the license request when the user acquires the license and when the user declines the license, wherein the statistics record summarizes the user data associated with the license request,

store in the license database the statistics record so that the user data is accessible to the copyright owner of the media content item, and

analyze a plurality of statistics records aggregated from each license request for the media content item owned by the copyright owner to provide the copyright owner with the aggregated user data from each license request of the media content item when the license is acquired by the user and when the license is declined by the user.

14.~~13.~~ The system of claim 13~~12~~, wherein the processor is further configured to:

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

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

15.~~14.~~ The system of claim 13~~12~~, wherein the processor is further configured to reproduce the media content item based on a plurality of reproduction parameters included in the license that is received from the licensing system.

16.~~15.~~ The system of claim 13~~12~~, 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 reproduce 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.

17.~~16.~~ The system of claim 13~~12~~, 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 reproduce the media content item that is accessible to a hardware device manufacturer that manufacturers hardware that is implemented by the multimedia hardware device.

18.~~17.~~ The system of claim 13~~12~~, wherein the user data includes a quantity of times that the user has previously accessed the media content item and additional media content items.

19.~~18.~~ A system for providing a media content licensing and verification system to license media content for reproduction, comprising:

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

a processor configured to:

determine whether the media licensing request is to be granted based on the media content record stored in the media catalog database that is associated with the media content item,

after the determination of the media licensing request, extracting from the media licensing request user data that is specific to the user that is attempting to reproduce the media content item when the user acquires the license and when the user declines the license, wherein the user data includes demographic data associated with the user that enables a copyright owner to gauge a demographic that acquired the license for the media content item of the copyright owner and a demographic that declined the license for the media content item of the copyright owner,

aggregate the user data into a statistics record for the media licensing request when the user acquires the license and when the user declines the license, wherein the statistics record summarizes the user data associated with the media licensing request, and

store in a license database the statistics record so that the user data is accessible to the copyright owner of the media content item, and

analyze a plurality of statistics records aggregated from each media licensing request for the media content item owned by the copyright owner to provide the copyright owner with the aggregated user data from each license request of the media content item when the license is acquired by the user and when the license is declined by the user.

20.~~19.~~ The system of claim 19~~18~~, 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.

21.~~20.~~ The system of claim 19~~18~~, 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 reproduce 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.

22.~~21.~~ The system of claim 21~~20~~, 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 reproduce the media content item that is accessible to a hardware device manufacturer that manufacturers hardware that is implemented by the multimedia hardware device.

23.~~22.~~ The system of claim 19~~18~~, 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.

Allowable Subject Matter

Claims 1 – 23 are allowed.

EXAMINER'S COMMENTS

This communication warrants No Examiner's Reason for Allowance, applicant's reply make evident the reasons for allowance, satisfying the "record as a whole" proviso of the rule 37 CFR 1.104(e). Specifically, this is a corrected notice of allowance directed at correcting the allowed claim set which had two claims designated as claim 7.

Any comments Applicants considers necessary must be submitted no later than the payment of the Issue Fee and to avoid processing delays, should preferable accompany the Issue Fees. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance". In event of any post-allowance papers (e.g. IDS, 312 amendment, petition, etc.), Applicant is exhorted to mail papers to the Production Control branch in Publications or faxed to post-allowance papers correspondence branch at (703) 308-5864 to expedite issuing process or call PUB's Customer Service if any questions at (703) 305-8497.

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 10-6 EST M-F.

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, Cordelia Zecher can be reached on 571-272-7771. 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 http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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

/MICHAEL R VAUGHAN/
Primary Examiner, Art Unit 2431

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	15/659,175	ESTES, CHRISTOPHER A.	
	Examiner	Art Unit	
	RICHARD A. MCCOY	2431	

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

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

(2) *John Davis*. (4)_____.

Date of Interview: *23 October 2017*.

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: *7*.

Identification of prior art discussed: _____.

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 to request a modified claim set to replace the currently allowed claim set which includes two claims designated as claim 7. Applicant provided the modified claim set.

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

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

☒ Attachment

/RICHARD A MCCOY/ Examiner, Art Unit 2431	

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	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
			/			
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CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

/R.A.M./ Examiner.Art Unit 2431 (Assistant Examiner)	10/23/2017 (Date)	**Total Claims Allowed:** 23	
/MICHAEL R VAUGHAN/ Primary Examiner.Art Unit 2431 (Primary Examiner)	10/02/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

U.S. Patent and Trademark Office

Part of Paper No. 20171023

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	ESTES, CHRISTOPHER A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION									
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED				
726	32	G	0	6	F	21 / 10 (2013.01.01)					

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

/R.A.M./ Examiner.Art Unit 2431 (Assistant Examiner)	10/23/2017 (Date)	**Total Claims Allowed:** 23	
/MICHAEL R VAUGHAN/ Primary Examiner.Art Unit 2431 (Primary Examiner)	10/02/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

U.S. Patent and Trademark Office

Part of Paper No. 20171023

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	16												
2	2	18	17												
3	3	19	18												
4	4	20	19												
5	5	21	20												
6	6	22	21												
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14	13														
15	14														
16	15														

/R.A.M./ Examiner.Art Unit 2431 (Assistant Examiner)	10/23/2017 (Date)	**Total Claims Allowed:** 23	
/MICHAEL R VAUGHAN/ Primary Examiner.Art Unit 2431 (Primary Examiner)	10/02/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

U.S. Patent and Trademark Office

Part of Paper No. 20171023

Reply Reply All Forward IM

Mon 10/23/2017 2:27 PM

John Davis <jdavis@whe-law.com>

RE: 15-659,175

To McCoy, Richard

Cc Stephanie Goldman

Retention Policy 20 year Permanent Delete for Entire Mailbox (EXAMINER) (2 Expires Expiration Suspended (10/18/2037)

Message BESTES-07USCON_Claims-Mark Up.docx (54 KB) BESTES-07USCON_Claims-Clean.DOCX (47 KB)

Examiner McCoy,

In response to your voicemail message of today, please kindly see the attached redlined & clean versi the renumbered claims. Please kindly let us know if you need anything else. Thanks.

John

John Paul Davis
Partner

W|H
&|E
WOOD HERRON & EVANS LLP
intellectual property law

Wood Herron & Evans LLP
2700 Carew Tower | 441 Vine Street | Cincinnati, Ohio 45202-2917
P: 513-241-2324 | F: 513-241-6234
www.whe-law.com

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/659,175	07/25/2017	Christopher A. Estes	BESTES-07USCON

CONFIRMATION NO. 6276

PUBLICATION NOTICE

OC000000095368309

26875
WOOD, HERRON & EVANS, LLP
2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202

Title:DIGITAL MEDIA REPRODUCTION AND LICENSING

Publication No.US-2017-0323088-A1
Publication Date:11/09/2017

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's 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.

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

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/659,175	07/25/2017	Christopher A. Estes	BESTES-07USCON	6276

26875 7590 11/22/2017
WOOD, HERRON & EVANS, LLP
2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202

EXAMINER
MCCOY, RICHARD ANTHONY

ART UNIT	PAPER NUMBER
2431	

NOTIFICATION DATE	DELIVERY MODE
11/22/2017	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):

usptodock@whe-law.com

PTOL-90A (Rev. 04/07)

corrected ***Notice of Allowability***	**Application No.** 15/659,175	**Applicant(s)** ESTES, CHRISTOPHER A.	
	Examiner RICHARD A. MCCOY	**Art Unit** 2431	**AIA (First Inventor to File) 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 *See Continuation Sheet*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-23*. 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 _____.

/MICHAEL R VAUGHAN/ Primary Examiner, Art Unit 2431	/R. A. M./ Examiner, Art Unit 2431

Continuation of Item 1. This communication is responsive to : an incorrect printer rush response dated 10/31/2017 wherein the claim re-numbering correction was incorrect..

DETAILED ACTION

The purpose of this communications is to correct a previous claim numbering error on the issue classification form.

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 10-6 EST M-F.

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, Cordelia Zecher can be reached on 571-272-7771. 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 http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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

/MICHAEL R VAUGHAN/

Primary Examiner, Art Unit 2431

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	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
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CPC Combination Sets							
Symbol				**Type**	**Set**	**Ranking**	**Version**
			/				
			/				

/R.A.M./ Examiner.Art Unit 2431 (Assistant Examiner)	10/23/2017 (Date)	**Total Claims Allowed:** 23	
/MICHAEL R VAUGHAN/ Primary Examiner.Art Unit 2431 (Primary Examiner)	10/02/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	ESTES, CHRISTOPHER A.
	Examiner	**Art Unit**
	RICHARD A MCCOY	2431

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION									
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED				
726	32	G	0	6	F	21 / 10 (2013.01.01)					

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

/R.A.M./ Examiner.Art Unit 2431 (Assistant Examiner)	10/23/2017 (Date)	**Total Claims Allowed:** 23	
/MICHAEL R VAUGHAN/ Primary Examiner.Art Unit 2431 (Primary Examiner)	10/02/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

U.S. Patent and Trademark Office

Part of Paper No. 20171115

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15659175	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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	17												
2	2	18	18												
3	3	19	19												
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/R.A.M./ Examiner.Art Unit 2431 (Assistant Examiner)	10/23/2017 (Date)	**Total Claims Allowed:** 23	
/MICHAEL R VAUGHAN/ Primary Examiner.Art Unit 2431 (Primary Examiner)	10/02/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

PART B–FEE(S) TRANSMITTAL

Complete and send this form, together with the applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22314-1450
or Fax **(571)-273-2885**

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

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

WOOD HERRON & EVANS LLP
441 Vine Street, Suite 2700
Cincinnati, Ohio 45202-2917

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

VIA EFS Web – John Paul Davis	(Depositor's Name)
VIA EFS Web – /John Paul Davis/	(S-signature)
VIA EFS Web – January 11, 2018	(Date)

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
15/659,175	07/25/2017	Christopher A. Estes	BESTES 07USCON	6276

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	$480.00			$480.00	01/12/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
Not Yet Assigned	2431	726-032

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

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

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

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

1. Wood Herron & Evans LLP
2.
3.

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

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

1a. NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

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

[X] Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies

4b. Payment of Fees(s): **(Please first reapply and previously paid fee shown above)**

☐ A check is enclosed

[X] Payment be credit card. Form PTO-2038 is not attached. Via EFS Web.

[X] The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 23-3000 (enclose an extra copy of this form)

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

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

☐ Applicant asserting small entity status. See 37 CFR 1.27 — 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.

☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be 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	/John Paul Davis/	Date	January 11, 2018
Typed or printed name	John Paul Davis	Registration No.	52,798

Electronic Patent Application Fee Transmittal

Application Number:	15659175
Filing Date:	25-Jul-2017
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Filer:	John Paul Davis/Stephanie Goldman
Attorney Docket Number:	BESTES-07USCON

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	480	480

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

Electronic Acknowledgement Receipt

EFS ID:	31469658
Application Number:	15659175
International Application Number:	
Confirmation Number:	6276
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Customer Number:	26875
Filer:	John Paul Davis/Stephanie Goldman
Filer Authorized By:	John Paul Davis
Attorney Docket Number:	BESTES-07USCON
Receipt Date:	11-JAN-2018
Filing Date:	25-JUL-2017
Time Stamp:	10:47:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$480
RAM confirmation Number	011118INTEFSW10523100
Deposit Account	233000
Authorized User	Stephanie Goldman

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

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

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	BESTES-07USCON_Issue-Fee-Payment.PDF	32354 70c968b851d5e76673e9a571113a51687e4fadfe	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30477 2ed38b6725c4859264df9e3ea3249c5820852f8d	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	62831		

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/659,175	02/20/2018	9898590	BESTES-07USCON	6276

26875 7590 01/31/2018
WOOD, HERRON & EVANS, LLP
2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202

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, Mountain View, CA;

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

IR103 (Rev. 10/09)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: June 29, 2018
Electronic Signature for John Paul Davis: /John Paul Davis/

Docket No.: BESTES 07USCON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:

Christopher A. Estes

Patent No.: 9,898,590

Issued: February 20, 2018

For: Digital Media Reproduction and Licensing

REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 C.F.R. § 1.323

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

It is respectfully requested that a Certificate of Correction be issued for the patent identified in the heading. The errors were found in the application as filed by applicant. The errors now sought to be corrected are inadvertent typographical errors the correction of which does not involve new matter or require reexamination.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.

Please charge our Credit Card in the amount of $150.00 covering the fee set forth in 37 C.F.R. § 1.20(a). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in

this application by this firm) to our Deposit Account No. 23-3000, under Order No. BESTES 07USCON.

Dated: June 29, 2018

Respectfully submitted,

Electronic signature: /John Paul Davis/
John Paul Davis
Registration No.: 52,798
WOOD HERRON & EVANS LLP
441 Vine Street, Suite 2700
Cincinnati, Ohio 45202-2917
(513) 241-2324
(513) 241-6234 (Fax)
Attorney for Applicant

PTO/SB/44 (09-07)
Approved for use through 01/31/2020. OMB 0651-0033
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 9,898,590

APPLICATION NO. : 15/659,175

ISSUE DATE : February 20, 2018

INVENTOR(S) : Christopher A. Estes

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 1, line approx. 43 reads "… As a result, the actual-rights holder of the digital media content cannot monetize the …" should read "… As a result, the actual rights-holder of the digital media content cannot monetize the …"

Col. 3, line approx. 11 reads "… characteristic, by every embodiment may not necessarily …" should read "… characteristic, but every embodiment may not necessarily …"

Col. 3, line approx. 23 "… portions thereof, may be implemented." should reads "… portions thereof may be implemented."

Col. 5, line approx. 40-41 reads "… associated with the use of media content item to hardware device manufactures system 22." should read "… associated with the use of media content item to hardware device manufacturers system 22."

Col. 5, line approx. 41-42 reads "… The data provided to the manufactures system 22 may be similar to …" should read "… The data provided to the manufacturers system 22 may be similar to …"

Col. 5, line approx. 43-44 reads "… However, manufactures system 22 may be accessed by hardware …" should read "… However, manufacturers system 22 may be accessed by hardware …"

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: June 29, 2018 Electronic Signature for John Paul Davis: /John Paul Davis/

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):
John Paul Davis
WOOD HERRON & EVANS LLP
441 Vine Street, Suite 2700
Cincinnati, Ohio 45202-2917

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Col. 7, line approx. 47-49 reads "… [cor-]responding media content item that will be apparent to the those skilled in the …" should read "… [cor-]responding media content item that will be apparent to those skilled in the …"

Col. 7, line approx. 60-61 reads "… The data may include, for example, whether a user that purchased a license …" should read "… The data may include, for example, whether a user purchased a license …"

Col. 10, line approx. 63 reads "… which point, the device may refuse to …" should read "… which point the device may refuse to …"

Col. 12, line approx. 67 reads "… [multime-]dia hardware device may be connected to a one or more …" should read "… [multime-]dia hardware device may be connected to one or more …"

Col. 13, line approx. 30 reads "… Such that the the content fingerprint and…" should read "… Such that the content fingerprint and …"

Col. 14, line approx. 20-21 reads "Moreover, while the invention has and hereinafter will been described in the context of digital media files …" should read "Moreover, while the invention has and hereinafter will be described in the context of digital media files …"

Col. 14, line approx. 47 reads "… detail, it is not the intention of the applicants to restrict or in …" should read "… detail, it is not the intention of the Applicant to restrict or in …"

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Col. 14, line approx. 58 reads "… without departing from the spirit or scope of applicants' …" should read "… without departing from the spirit or scope of Applicant's …"

Col. 15, line 51, CLAIM 5 reads "… device manufacturer that manufacturers hardware that …" should read "… device manufacturer that manufactures hardware that …"

Col. 16, line 46m, CLAIM 11 reads "… device manufacturer that manufacturers hardware that …" should read "… device manufacturer that manufactures hardware that …"

Col. 17, line 41, CLAIM 17 reads "… hardware device manufacturer that manufacturers hardware …" should read "… hardware manufacturer that manufactures hardware …"

Col. 18, line 48, CLAIM 22 reads "… hardware device manufacturer that manufacturers hardware …" should read "… hardware device manufacturer that manufactures hardware …"

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):
John Paul Davis
WOOD HERRON & EVANS LLP
441 Vine Street, Suite 2700
Cincinnati, Ohio 45202-2917

Electronic Patent Application Fee Transmittal

Application Number:	15659175
Filing Date:	25-Jul-2017
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Filer:	John Paul Davis/Stephanie Goldman
Attorney Docket Number:	BESTES-07USCON

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:				
CERTIFICATE OF CORRECTION	2811	1	150	150

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**150**

Electronic Acknowledgement Receipt

EFS ID:	33051945
Application Number:	15659175
International Application Number:	
Confirmation Number:	6276
Title of Invention:	DIGITAL MEDIA REPRODUCTION AND LICENSING
First Named Inventor/Applicant Name:	Christopher A. Estes
Customer Number:	26875
Filer:	John Paul Davis/Stephanie Goldman
Filer Authorized By:	John Paul Davis
Attorney Docket Number:	BESTES-07USCON
Receipt Date:	29-JUN-2018
Filing Date:	25-JUL-2017
Time Stamp:	14:59:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$150
RAM confirmation Number	070218INTEFSW15012200
Deposit Account	233000
Authorized User	Stephanie Goldman

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

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

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	Request_COC_BESTES-07USCON.PDF	318793 2a2bcecf19f925e06cabdaa2a3edd83fd0464db9	no	2
Warnings:					
Information:					
2	Request for Certificate of Correction	COC_BESTES-07USCON.PDF	393082 f9865645c4788ea3a82fa73f58e0cb790f009220	no	3
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30139 61168df08ec8ec34978017728efc47567c9236c4	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	742014		

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 9,898,590 B2
APPLICATION NO. : 15/659175
DATED : February 20, 2018
INVENTOR(S) : Estes

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Signed and Sealed this
Fourteenth Day of August, 2018

Andrei Iancu

Andrei Iancu
Director of the United States Patent and Trademark Office

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AO 120 (Rev. 08/10)

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

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

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

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

PLAINTIFF	DEFENDANT
Media Chain, LLC	Roku, Inc.

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

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

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

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

DECISION/JUDGEMENT

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

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