

CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION

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BACKGROUND

CROSS REFERENCE TO RELATED APPLICATION

[0001] This application claims the benefit of U.S. Provisional Application No. 61/294,070, filed January 11, 2010, which is incorporated by reference in its entirety.

1. FIELD OF ART

[0002] The disclosure generally relates to the field of distributing digital media content via a kiosk, and specifically to integrating a kiosk distribution system with a streaming service.

2. DESCRIPTION OF ART

[0003] As the popularity of digital media content has increased, so has the demand for acquiring digital media content in quick, convenient ways. One method of distributing digital media content is through kiosk systems. A kiosk is placed where it is accessible to customers. The kiosk is connected via a network to one or more servers having access to storage of licensable digital media content. Customers can interact with the kiosk, for example through a touch screen interface, to select desired digital media content for purchase. The desired digital media content is located either in a storage local to the kiosk or in a remote storage and served to the kiosk. Then, the desired digital media content is downloaded to a storage medium, for example the memory in a customer's digital playback device that has been connected to the kiosk, or another computer-readable medium such as a CD or DVD.

[0004] Another method of distributing digital media content is through streaming services. The user connects a playback device, such as a computer or a set-top box to the Internet, selects digital media content available through the streaming service for which the user has an account,

and the content is streamed to the user's playback device.

BRIEF DESCRIPTION OF DRAWINGS

[0005] The disclosed embodiments have advantages and features which will be more readily apparent from the detailed description, the appended claims, and the accompanying figures (or drawings). A brief introduction of the figures is below.

[0006] Figure (FIG.) 1A illustrates an example embodiment of a kiosk distribution system.

[0007] FIG. 1B illustrates an example embodiment of a store storage of the kiosk distribution system.

[0008] FIG. 2 illustrates one embodiment of components of an example machine able to read instructions from a machine-readable medium and execute them in a processor (or controller) for use as a server or a kiosk.

[0009] FIG. 3 illustrates an example embodiment of a method of integrating a kiosk delivery system and a streaming service.

[0010] FIG. 4 illustrates an example embodiment of a method of transferring a resume point for playback from content downloaded from a kiosk to a version of the content from a streaming service.

DETAILED DESCRIPTION

[0011] The Figures (FIGS.) and the following description relate to preferred embodiments by way of illustration only. It should be noted that from the following discussion, alternative embodiments of the structures and methods disclosed herein will be readily recognized as viable alternatives that may be employed without departing from the principles of what is claimed.

[0012] Reference will now be made in detail to several embodiments, examples of which are illustrated in the accompanying figures. It is noted that wherever practicable similar or like reference numbers may be used in the figures and may indicate similar or like functionality. The figures depict embodiments of the disclosed system (or method) for purposes of illustration only. One skilled in the art will readily recognize from the following description that alternative embodiments of the structures and methods illustrated herein may be employed without departing from the principles described herein.

CONFIGURATION OVERVIEW

[0013] One embodiment of a disclosed system, method and computer readable storage medium includes downloading digital media content from a kiosk to a flash media or other secured portable memory, drive, or device containing secure storage. In addition, user service information is downloaded from the kiosk to the flash media that identifies a streaming service from which the user may also receive content. When a user connects the flash media to a playback device, if the device is not connected to a network, the content is played back from the flash media. If the playback device is connected to a network, the streaming service is accessed using the user service information that was downloaded from the kiosk to the flash media, and the streaming service streams the content to the playback device. In one implementation, the streamed content is of a higher quality (e.g., a high definition version) of the content that was downloaded to the flash media from the kiosk (e.g., a standard definition version). Thus, through the integration of the kiosk delivery system and the streaming service, the user is provided with a portable version of the content from the kiosk for consumption anywhere, regardless of network access, and a higher quality version from the streaming service for

consumption when a network connection is available to the playback device.

EXAMPLE KIOSK DISTRIBUTION CONFIGURATION

[0014] FIG. 1A illustrates an example embodiment of a kiosk distribution system 100. The kiosk distribution system 100 includes a system server 110 connected to a system storage 111, at least one store service 120 connected to a local store storage 121, and at least one kiosk 130 connected to a store service 120. Although only one store service 120 and one kiosk 130 are shown in the example system 100 of FIG. 1A, in some embodiments, the kiosk distribution system includes many store services 120 at different retail locations or in other embodiments, all store services/kiosks can be hosted on one machine. In addition, each retail location can include many kiosks 130 connected to a store service 120. One or more communications networks, such as an intranet, the Internet, a local area network, a wide area network, a wireless network, or any other data network such as a cellular network connect the system server 110 to at least one store service 120 and the store service 120 to at least one kiosk 130. The customer connects a flash media 140 to a kiosk 130 in order to download media content to the flash media through the kiosk 130 from the distribution system 100.

[0015] The system storage 111 stores media files for distribution to stores through the system server 110. In one embodiment, the system storage 111 includes a database, system files, and user files stored on any combination of storage media. The media files stored in the system storage 111 can include audio, visual, and audio-visual files, for example, music, music videos, movies, television shows, video games, electronic books, etc. The media files may be stored at various quality standards and in various formats in order to accommodate various playback devices. In one embodiment, the process of loading the media files into the system storage 111 is referred to as “ingesting.” During the ingest process, the playable content of the media file is stored along with metadata. Metadata includes the title of the playable content, and expanded descriptive information about the content, such as the actors, the director, and/or other information that may appear on or inside a DVD box, for example. In one embodiment, during the ingest process, an industry standard DRM specification of information such as a content description, and a content key is also stored for each media file.

[0016] The system server 110 accesses the media files stored in the system storage 111 and distributes them to at least one store service 120 in response to a request for the media file from the store service 120, or based on pre-established distribution policies under which the system server 110 operates. The pre-established distribution policies may be pre-stored in a storage device of the kiosk 120 or in the store service 120 (to which the kiosk is communicatively coupled). The system server 110 includes user service information 1101 and user preferences 1102. User service information and preferences are obtained during a user registration process in order to link the content and streaming services together.

[0017] In some embodiments, the user service information 1101 includes a user's account information with streaming service providers 150, such as an individual account identifier and a password or other login information. Some users may have multiple accounts with multiple different streaming service providers 150. The accounts are stored in the user service information 1101 and communicated to the kiosk 130 to be written to the user's flash media 140, for example to the secure area 142.

[0018] In some embodiments, the user preferences 1102 include a user's preferences with respect to the user's interactions with the streamed content, such as preferences related to video game controls (inverted y-axis control), sound preferences, etc. For example, the user's preference for content in wide-screen or full-screen format may be stored with the user preferences 1102. Additionally or alternatively, the user's preferences for content may be used to make recommendations to the user for additional content. Thus, the user preferences 1102 may be used during both playback and content acquisition phases of the integrated content delivery system.

[0019] The store service 120 receives media files from the system server 110, either based on a request from the store service 120 or based on pre-established distribution policies, and the store service 120 stores the media files in the local store storage 121. In one embodiment, the local store storage 121 includes a database, system files, and user files stored on any combination of storage media. The store service 120 also accesses the stored media files from the local store storage 121 in order to deliver them to a kiosk 130 in response to requests from the kiosk 130.

[0020] The kiosk 130 receives selections of media from customers, requests selected media files from the store service 120, receives the media files in response to the requests, and writes the media files to the customer's flash media 140. In one embodiment, the kiosk 130 includes a customer interface module 131, a media file request module 132, a server interaction module 133, a transaction module 134, a media file processing module 135, an writer module 136, a preview module 137, a firmware update module 138, a customer attraction module 139, a user service module 1301, and a user preferences module 1302.

[0021] The customer interface module 131 manages a graphical user interface presented to a customer, through which, the customer can select media to preview at the kiosk 130 or download to the customer's flash media 140. The customer interface module 131 receives user selections of media for download, for example, by interpreting the user's interactions with a touch screen display of the kiosk 130 or though the user's alphanumeric input into a keyboard, button selections, or selections using a pointing device such as a computer mouse. The customer interface module 131 passes the user's selections to the media file request module 132.

[0022] The media file request module 132 prepares requests for media files. The media file request module 132 receives the user's selections of media from the customer interface module 131 and prepares a request for the corresponding media files, for example by performing a lookup of the selected media file.

[0023] The server interaction module 133 manages communications between the kiosk 130 and the store service 120. Specifically, the server interaction module 133 receives requests for media files from the media file request module 132 (for example by content availability date) and communicates them to the store service 120. The server interaction module 133 also receives media files from the store service 120 that are distributed to the kiosk 130.

[0024] The transaction module 134 manages the payment details of the customer's purchase from the kiosk 130. The transaction module 134 receives the customer's payment information, for example from information read from the swipe of a card through a card reader (not shown) of the kiosk 130. Alternatively the transaction module 134 can receive the customer's payment information as entered by the customer through alphanumeric or other input into the kiosk 130. The transaction module 134 then processes the customer's payment according to the payment

information received. The transaction module 134 then verifies and confirms the customer's payment.

[0025] The media file processing module 135 processes media files in preparation for writing the files to the flash media 140. The media file processing module 135 receives the requested media files from the store service 120 via the server interaction module 133. The media file processing module 135 then queues the media file for download to the flash media 140. It is noted that an SD card can be provided by the customer (for insertion into an SD card slot of the writer module 136 or otherwise communicatively coupled to the writer module 136, such as through a USB adaptor attached to a USB port of a kiosk 130) or may be provided through a kiosk that includes a pre-retained (e.g., stacked) quantity of SD cards that can be inserted into the writer module 136 and subsequently discharged for the customer when the process described herein completes writing to the SD card. Other devices may contain either removable or non-removable SD cards. The SD cards within these devices may also be accessed via USB, or through data networks such as wifi or cellular, as long as a secure data transport mechanism exists.

[0026] Continuing on, the writer module 136 writes the media file to the flash media 140. In one embodiment, the writing to the flash media 140 is in compliance with the DRM standards of security known as Content Protection for Recordable Media (CPRM). In one embodiment, the writer module 136 is a high-speed writer capable of writing data to both an unsecured area 141 of the SD card as well as a secure area 142 of the SD card as needed for SDSD-DRM.

[0027] The preview module 137 manages the playback of previews of media files that are available for purchase. The preview module 137 can operate in parallel with the writer module 136 so that a customer can preview other media files of the customer's choice while the customer's selected media file is downloading to the flash media 140. Alternatively, the preview module 137 can show a customer a preview selected randomly or selected based on the content that the customer is downloading. Advantageously, the preview module 137 can show previews without affecting the performance of the writer 136. In one embodiment, the write process is designed to use a low amount of resources to avoid contention with the preview module 137.

[0028] The firmware update module 138 receives firmware updates (e.g., firmware software

updates) for use in updating firmware on the playback devices that use the flash media 140. The firmware updates are disseminated by the system server 110 through the store service 120 to the kiosk 130. The firmware update module 138 queues firmware updates to be written by the writer module 136 to the flash media 140, for example during or after the media file is written. In one embodiment, the firmware update code is scrambled and signed to prevent tampering. Subsequently, when the flash media 140 is inserted into a playback device, the playback device checks to see if the version of the firmware on the flash media supersedes the version of the firmware currently on the playback device, and if it does, then the firmware update is loaded onto the playback device. Thus, through the flash media, a mechanism is provided to update firmware present on a playback device without requiring the playback device to have any network connection. It is noted that this is an optional process to update firmware on devices that playback flash media 140.

[0029] The customer attraction module 139 enables the kiosk 130 to function as a digital sign, for example, while a customer is not actively engaging in the selection or download of media files. Through the kiosk 130, the customer attraction module 139 plays previews, such as movie previews, short segments of media files, and/or advertisements to download particular media files, in order to entice customers to make a purchase. Advantageously, the customer attraction module 139 can be programmed to only play previews from, segments of, or advertisement for media files that are currently available for download from the kiosk 130. The customer attraction module 139 can be synchronized with the content of the system storage 111 so that the kiosk 130 is only attracting customers to purchase items that are available immediately for purchase. In one embodiment, the customer attraction module 139 plays a loop of previews configured based on data available at the store service 120, which is a subset of the data available on the system server 110. For example, an operator of the system server 110 uses the system server 110 to make updates to the list of previews and/or advertisements in the storage 111. The system server 110 and the store service 120 work in concert to move these updates first to the local store storage 121 and then to the kiosk 130. These updates then propagate to the list of previews and/or advertisements displayed by the preview module 137. This allows a system operator at a central location to update the previews and/or advertisements displayed in many kiosks 130 located in many different physical locations.

[0030] The user service module 1301 receives information about streaming services 150 with which the user has registered. In various embodiments, the information can be stored at the system server 110 level or the store service 120 level. In one embodiment, information about what streaming services 150 have which content available for streaming in high definition is collected during the ingest process and metadata from a streaming service 150 is linked into information provided to the store service 120. Then, when a customer downloads content to the customer's flash media 140, the user service module 1301 notifies the streaming service 150 of the content acquisition. In other embodiments, if a user has accounts with multiple streaming services 150, the kiosk 130 may present options to the user for selection through the customer interface module 131. The user service module 1301 forwards the information about one or more streaming services with which the user has registered to the writer module 136 to be written to the flash media 140.

[0031] The user preferences module 1302 receives a user's preferences 1102 that have been stored, for example, at the system server 110 level or the store service 120 level. For example, the user preferences 1102 can be used by streaming services to tailor a user's experience with the content, such as preference for content in wide-screen or full-screen format, and other user preferences 1102 that may be used during content acquisition and playback phases of the integrated content delivery system. The user preferences module 1302 forwards the user's preferences to the writer module 136 to be written to the flash media 140.

[0032] FIG. 1B illustrates an example embodiment of a local store storage 121 of the kiosk distribution system 100 described with reference to FIG. 1A. The local store storage 121 includes digital media files 1211, digital media content keys 1212, usage rules 1213, and user keys 1214.

[0033] As described above, the digital media files 1211 can include audio, visual, and audio-visual files, for example, music, music videos, movies, television shows, video games, electronic books, etc. The digital media files 1211 may be stored at various quality standards and in various formats in order to accommodate various playback devices. The digital media files 121 stored in local store storage 121 are immediately available to be downloaded to a customer's flash media 140.

[0034] The digital media content keys 1212 are necessary to decrypt the digital media files 1211 stored within local store storage 121. The mapping between the digital media content keys 1212 and the digital media files 1211 that can be unlocked with the digital media content keys 1212 is also stored in the local store storage 121.

[0035] The usage rules 1213 are a set of rules that govern how a digital media file 1211 can be used. In one embodiment, each digital media file 1211 has a set of usage rules that determines the specific parameters required by the DRM and the media providers (holders of the intellectual property rights to the digital media file). A usage rule of the usage rules 1213 may cover one or more media files 1211.

[0036] The user keys 1214 are used to write to an SD card with SDS-DRM. Two encryption keys are required to complete the write process. The first is the digital media content key from the digital media content keys 1212 stored in the local store storage 121. The second is the user key which is specific to the flash media 140 and used to encrypt the digital media content key. While content keys are loaded with the digital media file, user keys are either generated at the server level or loaded to the server 110 when they were generated by a different kiosk in the system 100. User keys are specific to SDS-DRM. Alternate DRMs may be used that are compatible with flash memory or SD cards.

COMPUTING MACHINE ARCHITECTURE

[0037] FIG. 2 is a block diagram illustrating components of an example machine able to read instructions from a machine-readable medium and execute them in a processor (or controller). The example machine as described provides the machine structure for executing functionality of the components of the example kiosk distribution configuration. For example, the machine is configured for use as a system server 110, a store service 120, and/or kiosk 130. Specifically, FIG. 2 shows a diagrammatic representation of a machine in the example form of a computer system 200 within which instructions 224 (e.g., software) for causing the machine to perform any one or more of the methodologies discussed herein may be executed. In alternative embodiments, the machine operates as a standalone device or may be connected (e.g., networked) to other machines. In a networked deployment, the machine may operate in the

capacity of a server machine or a client machine in a server-client network environment, or as a peer machine in a peer-to-peer (or distributed) network environment.

[0038] The machine may be a server computer, a client computer, or any machine capable of executing instructions 224 (sequential or otherwise) that specify actions to be taken by that machine. Further, while only a single machine is illustrated, the term “machine” shall also be taken to include any collection of machines that individually or jointly execute instructions 224 to perform any one or more of the methodologies discussed herein.

[0039] The example computer system 200 includes a processor 202 (e.g., a central processing unit (CPU), a graphics processing unit (GPU), one or more application specific integrated circuits (ASICs), one or more radio-frequency integrated circuits (RFICs), or any combination of these), a main memory 204, and a static memory 206, which are configured to communicate with each other via a bus 208. The computer system 200 may further include graphics display unit 210 (e.g., a plasma display panel (PDP), a liquid crystal display (LCD), a projector, or a cathode ray tube (CRT)) that may be configured with touch screen functionality in some embodiments. The computer system 200 may also include alphanumeric input device 212 (e.g., a keyboard), a cursor control device 214 (e.g., a mouse, a trackball, a joystick, a motion sensor, or other pointing instrument), a storage unit 216, a signal generation device 218 (e.g., a speaker), an input/output (I/O) device 228, and a network interface device 220, which also are configured to communicate via the bus 208. It is noted that in one embodiment the I/O device 228 can be a hardware component configured to read and write to SD cards or other flash media. The hardware component is configured to physically couple with the SD card or other flash media so that the SD card or other flash media communicatively couples with the computer system 200.

[0040] The storage unit 216 includes a machine-readable medium 222 on which is stored instructions 224 (e.g., software) embodying any one or more of the methodologies or functions described herein. The instructions 224 (e.g., software) may also reside, completely or at least partially, within the main memory 204 or within the processor 202 (e.g., within a processor’s cache memory) during execution thereof by the computer system 200, the main memory 204 and the processor 202 also constituting machine-readable media. The instructions 224 (e.g.,

software) may be transmitted or received over a network 226 via the network interface device 220.

[0041] While machine-readable medium 222 is shown in an example embodiment to be a single medium, the term “machine-readable medium” should be taken to include a single medium or multiple media (e.g., a centralized or distributed database, or associated caches and servers) able to store instructions (e.g., instructions 224). The term “machine-readable medium” shall also be taken to include any medium that is capable of storing instructions (e.g., instructions 224) for execution by the machine and that cause the machine to perform any one or more of the methodologies disclosed herein. The term “machine-readable medium” includes, but not be limited to, data repositories in the form of solid-state memories, optical media, and magnetic media.

PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION

[0042] Before a user can connect to a streaming service, the streaming service information must be collected and stored within system storage 111. User service information 1101, including user identifier and applicable passwords for authentication and authorization are collected from the user. This information may be collected at the kiosk 130, from the user’s device accepting flash media 140, or through other methods such as an Internet website or mobile device application.

[0043] Alternatively, the user service information 1101 can be obtained through a network connection or other data feed from the streaming service provider such that the user need not reenter the service information into the content delivery system connected to the kiosk 130. As a matter of practice, it is preferred to obtain the information from the data feed so that the data stored within the system server 110 is considered a cache whereas the information in the streaming service is authoritative. This facilitates changes to user data propagating through the system as opposed to duplicate, and possible data synchronization issues between the kiosk content delivery network and that of the streaming service itself.

[0044] User preferences 1102 are loaded in the same manner as the user service information 1101, either by direct input through various interfaces, or via data feed from the service provider.

The preference for loading, storing, and updating the user preferences 1102 has the same general concerns for data synchronization as previously noted.

[0045] As described below, for devices that support direct loading to secure flash through the device, federated identity information can also be included as user service information 1101. By using federated identity, if the user is already authenticated to the device, the authentication state can also be transferred such that a subsequent authentication is not required to access user preferences.

[0046] Users who are not currently enrolled with streaming services integrated with kiosk delivery may also enroll through the kiosk system 100 as an alternative to registering through current registration methods. Likewise, users may change their service information via the kiosk, and that information is then synchronized back to the service provider. The kiosk system 100 therefore represents an additional customer touch point beyond the streaming devices, website, and other methods traditionally used by streaming service providers to register customers and manage their information.

[0047] FIG. 3 illustrates an example embodiment of a method 300 of integrating a kiosk delivery system and a streaming service. The example method of FIG. 3 will be described herein with reference to transferring a selected movie purchased from a kiosk 130 to be loaded onto a flash media 140 to be watched later by a customer on a playback device. The method 300 described herein can also be used to transfer other media files from a kiosk 130 to a flash media 140 securely and at high-speed.

[0048] In step 301, the kiosk 130 responds to a user browsing through available digital content. Alternatively the user can search a digital content library available on the kiosk 130. When the user decides on a purchase, the content is transferred 301 from the kiosk to the flash media 140. The usage rules 1213 for the content are also transferred to the flash media 140.

[0049] In step 302, user service information 1101 is transferred from the kiosk 130 to the flash media 140. The user service information 1101 includes information necessary to access a streaming service 150 for the delivery of content over a network.

[0050] In step 303, the user connects the flash media to a playback device. Once the flash

media has been connected 303 to the playback device for playback, a check is made to determine 304 if the user service information 1101 is recognized by the playback device. If the playback device does not recognize the user service information 1101, then the content is played back from the flash media in step 305. If the playback device recognizes the user service information 1101, then the method 300 advances to step 306.

[0051] In step 306, a check is made to determine if the playback device is connected to a network that enables access to the streaming service identified by the user service information 1101. If the playback device is not connected to a network that allows access to the streaming service, content is played back from the flash media in step 305. If the playback device is connected to a network that allows access to the streaming service, the streaming service is accessed in step 307 using the user service information 1101 downloaded from the kiosk 130. In one embodiment, the user service information enables the playback device to automatically log in to the streaming service, for example, by providing the user's identifier and any log-in credentials needed to access the streaming service.

[0052] In step 308, a check is made to determine if the speed of the connection to the streaming service exceeds the threshold for streaming content in order to maintain the quality and integrity of the streamed content. If the speed of the connection does not meet the threshold for quality, then the method 300 reverts to playing the content back from the flash media in step 305. If the speed of the connection is adequate, then the method advances to step 307. Such technologies as adaptive streaming are also compatible with this method. If the streaming threshold is not met at anytime during the streaming process, playback can continue from the flash media.

[0053] In step 307, the content is streamed from the streaming service. In one embodiment, the streamed content is of a higher quality than the version of the content that was downloaded from the kiosk 130. For example, the streamed content may be in high definition, whereas the content downloaded from the kiosk 130 may be in standard definition. Thus, through the integration of the kiosk delivery system and the streaming service, the user is provided with a portable version of the content from the kiosk for consumption anywhere, regardless of network access, and a higher quality version from the streaming service for consumption when a network

connection is available to the playback device.

[0054] FIG. 4 illustrates an example embodiment of a method 400 of transferring a resume point for playback from content downloaded from a kiosk to a version of the content from a streaming service. Thus, through the integration of content from the kiosk delivery system and the streaming service, the user can continue the playback of the content from the point at which playback was stopped, regardless of whether the playback is continued from the flash media 140 or from a streaming service.

[0055] In step 401, content is chosen for playback. In step 402, a check is made to determine if a resume point has been stored for the content on the flash media. If a resume point is present, in step 403, the resume point for the content on the flash media is read.

[0056] In step 404A, a check is made to determine if the playback device is connected to a streaming service. If the playback device is not connected to a streaming service, then in step 405, playback is begun from the flash resume point that was read at step 403. If the playback device is connected to a streaming service, then at step 406A, a check is made to determine if a resume point for the streaming content has been stored. If no resume point for the streaming content is available, then the method progresses to step 405 where playback begins from the flash resume point. The playback may be from either the flash media or a streaming service according to the process described above with reference to FIG. 3. On the other hand, if a resume point for the content is available from the streaming service, then it is read at step 407A. Thus, in this situation, there is a flash resume point and a streaming resume point. In one embodiment, a check is made to determine which of the resume points has been recorded more recently. Then, in step 408, playback is begun from the most recent resume point from among the recorded resume points.

[0057] Referring back to step 402, if there is no resume point for playback from the flash media, then a check is made for a connection to the streaming service 404B. If no connection is available, then playback is begun from the beginning of the content from the flash media at step 409. If a connection to a streaming service is available, in step 406B, a check is made to determine if a resume point for the streaming content has been stored. If no resume point is available, then streaming playback begins from the beginning of the content at step 410. On the

other hand, if a resume point for the content is available from the streaming service, then it is read at step 407B, and in step 411, playback is begun from the streaming resume point.

[0058] At some point during the playback, the playback is stopped 412. In step 413, a check is made to determine whether the user has stopped playback before the end of the content. If the user has stopped playback before the end, then in step 414, a resume point is created or updated on the flash media. In one embodiment, the resume point is recorded by recording the time elapsed from the beginning of the playback. In one embodiment, the resume point is recorded on the flash media 140. Additionally or alternatively, the resume point is recorded in the playback device. In another embodiment, the time that the resume point is recorded is also stored for comparison in step 408. Then, at step 415, if a streaming service was used, a resume point is created or updated for the streaming service. If, at step 413, it is determined that the user has not stopped playback before the end, then in step 416, any resume point for the content is deleted from the flash media. In step 417, if a streaming service was used, any resume point for the content is deleted from storage at the streaming service.

ADDITIONAL CONFIGURATION CONSIDERATIONS

[0059] Throughout this specification, plural instances may implement components, operations, or structures described as a single instance. Although individual operations of one or more methods are illustrated and described as separate operations, one or more of the individual operations may be performed concurrently, and nothing requires that the operations be performed in the order illustrated, e.g., in FIGS. 1, 2 and 3. Structures and functionality presented as separate components in example configurations may be implemented as a combined structure or component. Similarly, structures and functionality presented as a single component may be implemented as separate components. These and other variations, modifications, additions, and improvements fall within the scope of the subject matter herein.

[0060] Certain embodiments are described herein as including logic or a number of components, modules, or mechanisms. Modules may constitute either software modules (e.g., code embodied on a machine-readable medium or in a transmission signal) or hardware modules. A hardware module is tangible unit capable of performing certain operations and may be

configured or arranged in a certain manner. In example embodiments, one or more computer systems (e.g., a standalone, client or server computer system) or one or more hardware modules of a computer system (e.g., a processor or a group of processors) may be configured by software (e.g., an application or application portion) as a hardware module that operates to perform certain operations as described herein.

[0061] In various embodiments, a hardware module may be implemented mechanically or electronically. For example, a hardware module may comprise dedicated circuitry or logic that is permanently configured (e.g., as a special-purpose processor, such as a field programmable gate array (FPGA) or an application-specific integrated circuit (ASIC)) to perform certain operations. A hardware module may also comprise programmable logic or circuitry (e.g., as encompassed within a general-purpose processor or other programmable processor) that is temporarily configured by software to perform certain operations. It will be appreciated that the decision to implement a hardware module mechanically, in dedicated and permanently configured circuitry, or in temporarily configured circuitry (e.g., configured by software) may be driven by cost and time considerations.

[0062] Accordingly, the term “hardware module” should be understood to encompass a tangible entity, be that an entity that is physically constructed, permanently configured (e.g., hardwired), or temporarily configured (e.g., programmed) to operate in a certain manner or to perform certain operations described herein. As used herein, “hardware-implemented module” refers to a hardware module. Considering embodiments in which hardware modules are temporarily configured (e.g., programmed), each of the hardware modules need not be configured or instantiated at any one instance in time. For example, where the hardware modules comprise a general-purpose processor configured using software, the general-purpose processor may be configured as respective different hardware modules at different times. Software may accordingly configure a processor, for example, to constitute a particular hardware module at one instance of time and to constitute a different hardware module at a different instance of time.

[0063] Hardware modules can provide information to, and receive information from, other hardware modules. Accordingly, the described hardware modules may be regarded as being

communicatively coupled. Where multiple of such hardware modules exist contemporaneously, communications may be achieved through signal transmission (e.g., over appropriate circuits and buses) that connect the hardware modules. In embodiments in which multiple hardware modules are configured or instantiated at different times, communications between such hardware modules may be achieved, for example, through the storage and retrieval of information in memory structures to which the multiple hardware modules have access. For example, one hardware module may perform an operation and store the output of that operation in a memory device to which it is communicatively coupled. A further hardware module may then, at a later time, access the memory device to retrieve and process the stored output. Hardware modules may also initiate communications with input or output devices, and can operate on a resource (e.g., a collection of information).

[0064] The various operations of example methods described herein, e.g., in FIG. 3, may be performed, at least partially, by one or more processors that are temporarily configured (e.g., by software) or permanently configured to perform the relevant operations. Whether temporarily or permanently configured, such processors may constitute processor-implemented modules that operate to perform one or more operations or functions. The modules referred to herein may, in some example embodiments, comprise processor-implemented modules.

[0065] Similarly, the methods described herein may be at least partially processor-implemented. For example, at least some of the operations of a method may be performed by one or processors or processor-implemented hardware modules. The performance of certain of the operations may be distributed among the one or more processors, not only residing within a single machine, but deployed across a number of machines. In some example embodiments, the processor or processors may be located in a single location (e.g., within a home environment, an office environment or as a server farm), while in other embodiments the processors may be distributed across a number of locations.

[0066] The one or more processors may also operate to support performance of the relevant operations in a “cloud computing” environment or as a “software as a service” (SaaS). For example, at least some of the operations may be performed by a group of computers (as examples of machines including processors), these operations being accessible via a network

(e.g., the Internet) and via one or more appropriate interfaces (e.g., application program interfaces (APIs)).

[0067] The performance of certain of the operations may be distributed among the one or more processors, not only residing within a single machine, but deployed across a number of machines. In some example embodiments, the one or more processors or processor-implemented modules may be located in a single geographic location (e.g., within a home environment, an office environment, or a server farm). In other example embodiments, the one or more processors or processor-implemented modules may be distributed across a number of geographic locations.

[0068] Some portions of this specification are presented in terms of algorithms or symbolic representations of operations on data stored as bits or binary digital signals within a machine memory (e.g., a computer memory), for example, the process noted in FIG. 3. These algorithms or symbolic representations are examples of techniques used by those of ordinary skill in the data processing arts to convey the substance of their work to others skilled in the art. As used herein, an “algorithm” is a self-consistent sequence of operations or similar processing leading to a desired result. In this context, algorithms and operations involve physical manipulation of physical quantities. Typically, but not necessarily, such quantities may take the form of electrical, magnetic, or optical signals capable of being stored, accessed, transferred, combined, compared, or otherwise manipulated by a machine. It is convenient at times, principally for reasons of common usage, to refer to such signals using words such as “data,” and “content,” or the like. These words, however, are merely convenient labels and are to be associated with appropriate physical quantities.

[0069] Unless specifically stated otherwise, discussions herein using words such as “processing,” “computing,” “determining,” “presenting,” “displaying,” or the like may refer to actions or processes of a machine (e.g., a computer) that manipulates or transforms data represented as physical (e.g., electronic, magnetic, or optical) quantities within one or more memories (e.g., volatile memory, non-volatile memory, or a combination thereof), registers, or other machine components that receive, store, transmit, or display information.

[0070] As used herein any reference to “one embodiment” or “an embodiment” means that a

particular element, feature, structure, or characteristic described in connection with the embodiment is included in at least one embodiment. The appearances of the phrase “in one embodiment” in various places in the specification are not necessarily all referring to the same embodiment.

[0071] Some embodiments may be described using the expression “coupled” and “connected” along with their derivatives. For example, some embodiments may be described using the term “coupled” to indicate that two or more elements are in direct physical or electrical contact. The term “coupled,” however, may also mean that two or more elements are not in direct contact with each other, but yet still co-operate or interact with each other. The embodiments are not limited in this context.

[0072] As used herein, the terms “comprises,” “comprising,” “includes,” “including,” “has,” “having” or any other variation thereof, are intended to cover a non-exclusive inclusion. For example, a process, method, article, or apparatus that comprises a list of elements is not necessarily limited to only those elements but may include other elements not expressly listed or inherent to such process, method, article, or apparatus. Further, unless expressly stated to the contrary, “or” refers to an inclusive or and not to an exclusive or. For example, a condition A or B is satisfied by any one of the following: A is true (or present) and B is false (or not present), A is false (or not present) and B is true (or present), and both A and B are true (or present).

[0073] In addition, use of the articles “a” or “an” are employed to describe elements and components of the embodiments herein. This is done merely for convenience and to give a general sense of the invention. This description should be read to include one or at least one, and the singular also includes the plural unless it is obvious that it is meant otherwise.

[0074] Upon reading this disclosure, those of skill in the art will appreciate still additional alternative structural and functional designs for a system and a process for integrating a kiosk delivery system and a streaming service through the disclosed principles herein. Thus, while particular embodiments and applications have been illustrated and described, it is to be understood that the disclosed embodiments are not limited to the precise construction and components disclosed herein. Various modifications, changes and variations, which will be apparent to those skilled in the art, may be made in the arrangement, operation and details of the

method and apparatus disclosed herein without departing from the spirit and scope defined in the appended claims.

CLAIMS

1. A method of delivering content by integrating a kiosk delivery system with a streaming service, the method comprising:
transferring content from a kiosk to a flash media device; and
transferring user service information from the kiosk to the flash media device, wherein responsive to the flash media device being connected to a playback device connected to a network, the user service information enables access to a streaming service to stream a higher quality version of the content to the playback device.
2. The method of claim 1, wherein the user service information comprises user account information for the streaming service.
3. The method of claim 2, wherein user service information includes information necessary to access a streaming service for delivery of content over a network.
4. The method of claim 1, wherein the content transfer can occur without removing the flash media device from a device containing the flash media device.
5. The method of claim 1, wherein the content transfer can occur by removing the flash media device from a device containing the flash media device.
6. The method of claim 1, wherein the user service information is received from a user device.
7. The method of claim 1, wherein the user service information is received through a website.

8. The method of claim 1, wherein the user service information is received from a data feed from a provider of the streaming service.
9. The method of claim 1, wherein the higher quality version of the content is a high definition version of standard definition content transferred from the kiosk to the flash media device.
10. The method of claim 1, wherein users can register for the streaming service at the kiosk.
11. The method of claim 1, wherein users may update user service information via the kiosk.
12. A method of operating a playback device to playback content from either a flash media device or a streaming service depending upon playback circumstances, the method comprising:
 - receiving user service information from a connected flash media device, wherein the user service information enables access to a streaming service;
 - responsive to the user service information being unrecognized by the playback device, playing back the content from the flash media device;
 - responsive to the user service information being recognized by the playback device:
 - responsive to the playback device not being connected to a network, playing back the content from the flash media device; and
 - responsive to the playback device being connected to a network, accessing the streaming service using the user service information, and:
 - responsive to a speed of the connection not meeting a threshold for streaming, playing back the content from the flash media device;
 - and

responsive to the speed of the connection meeting the threshold for
streaming, streaming the content from the streaming service.

13. The method of claim 12, wherein streaming the content from the streaming service comprises streaming the content in high definition, and wherein the content on the flash media device is standard definition.
14. The method of claim 12, wherein accessing the streaming service using the user service information comprises automatically logging the user into the streaming service.
15. The method of claim 12, wherein the threshold is a lower limit on speed consistent with avoiding service interruptions.
16. The method of claim 12, wherein a flash media device can be transferred between playback devices.
17. A method of resuming playback, the method comprising:
responsive to having a first resume point for content played from a flash media device
and a second resume point for the content from a streaming service:
determining which of the first or second resume points is more recent; and
beginning playback of the content from the more recent resume point.
18. The method of claim 17, wherein a resume point is the point in the playback of the content where play is desired to be resumed.
19. The method of claim 17, wherein a resume point is recorded based on elapsed time from a beginning of the content.

20. The method of claim 17, further comprising synchronizing the first and second resume points.

ABSTRACT

A disclosed system, method and computer readable storage medium includes downloading digital media content from a kiosk to a flash media or other secured portable memory or drive. User service information is also downloaded from the kiosk to the flash media that identifies a streaming service from which the user may also receive content. When the flash media is connected to a playback device, if the device is not connected to a network, the content is played back from the flash media. If the playback device is connected to a network, the streaming service is accessed using the user service information, and the streaming service streams the content to the playback device. In one implementation, the streamed content is of a higher quality (e.g., a high definition version) of the content that was downloaded to the flash media from the kiosk.

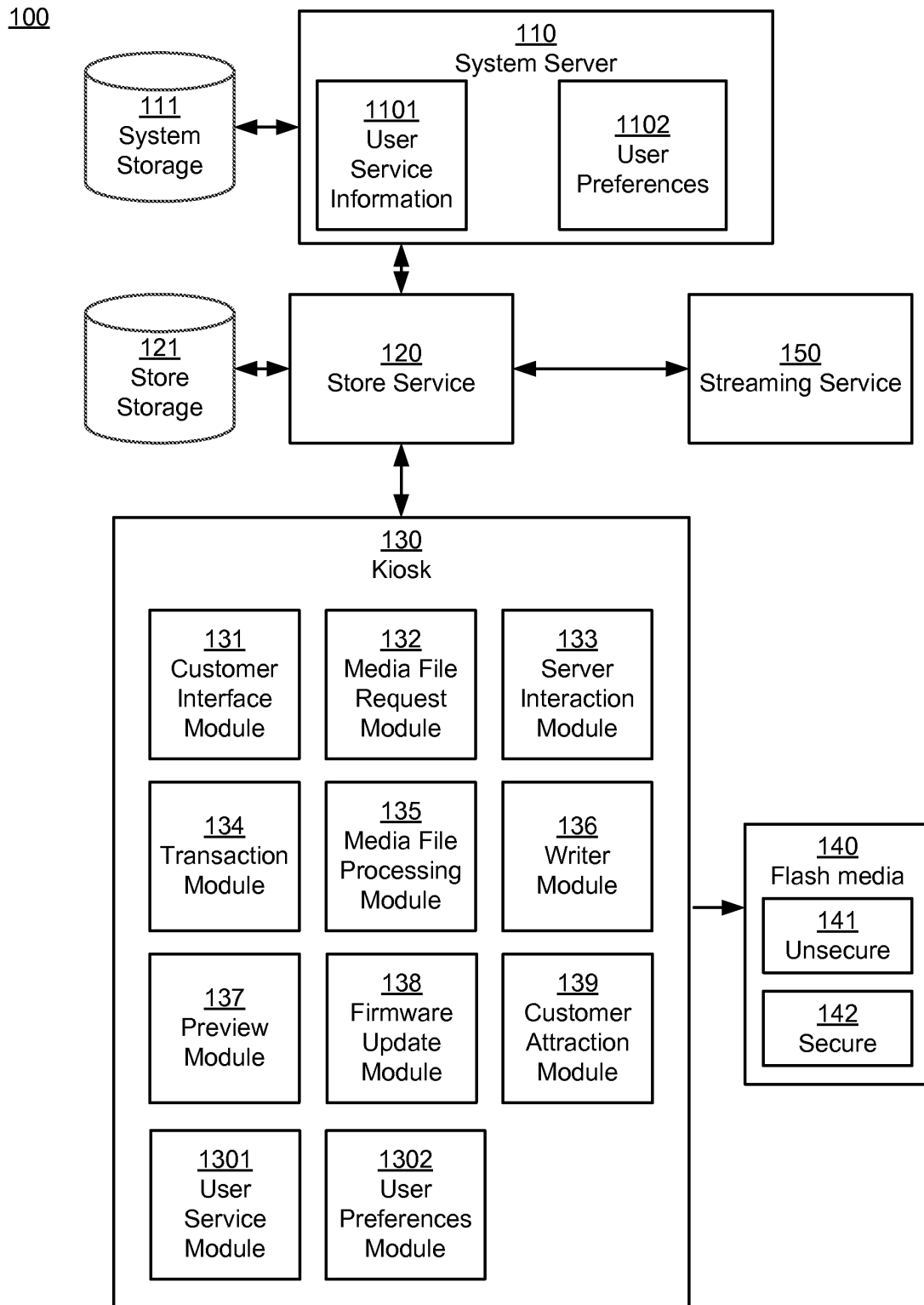


FIG. 1A

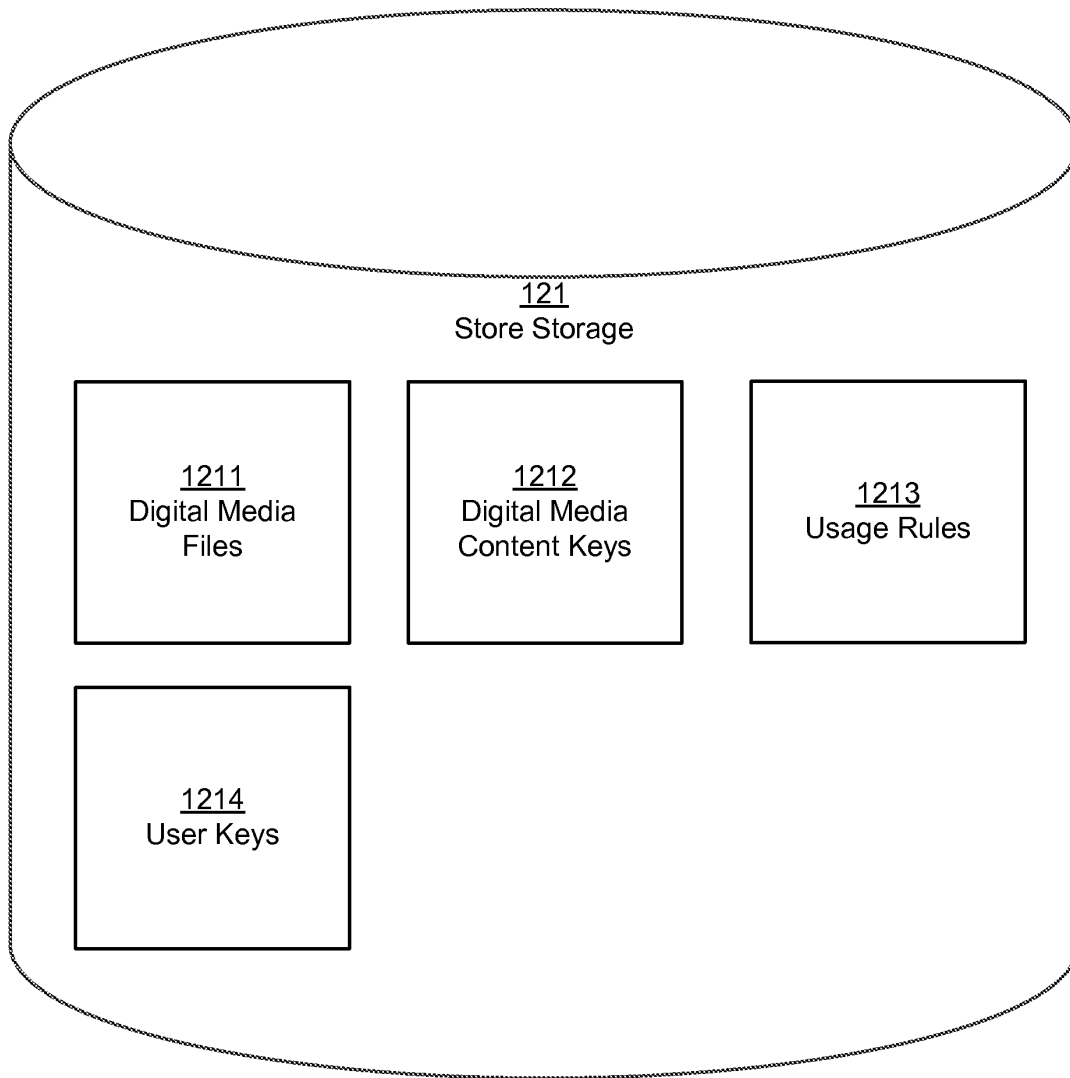


FIG. 1B

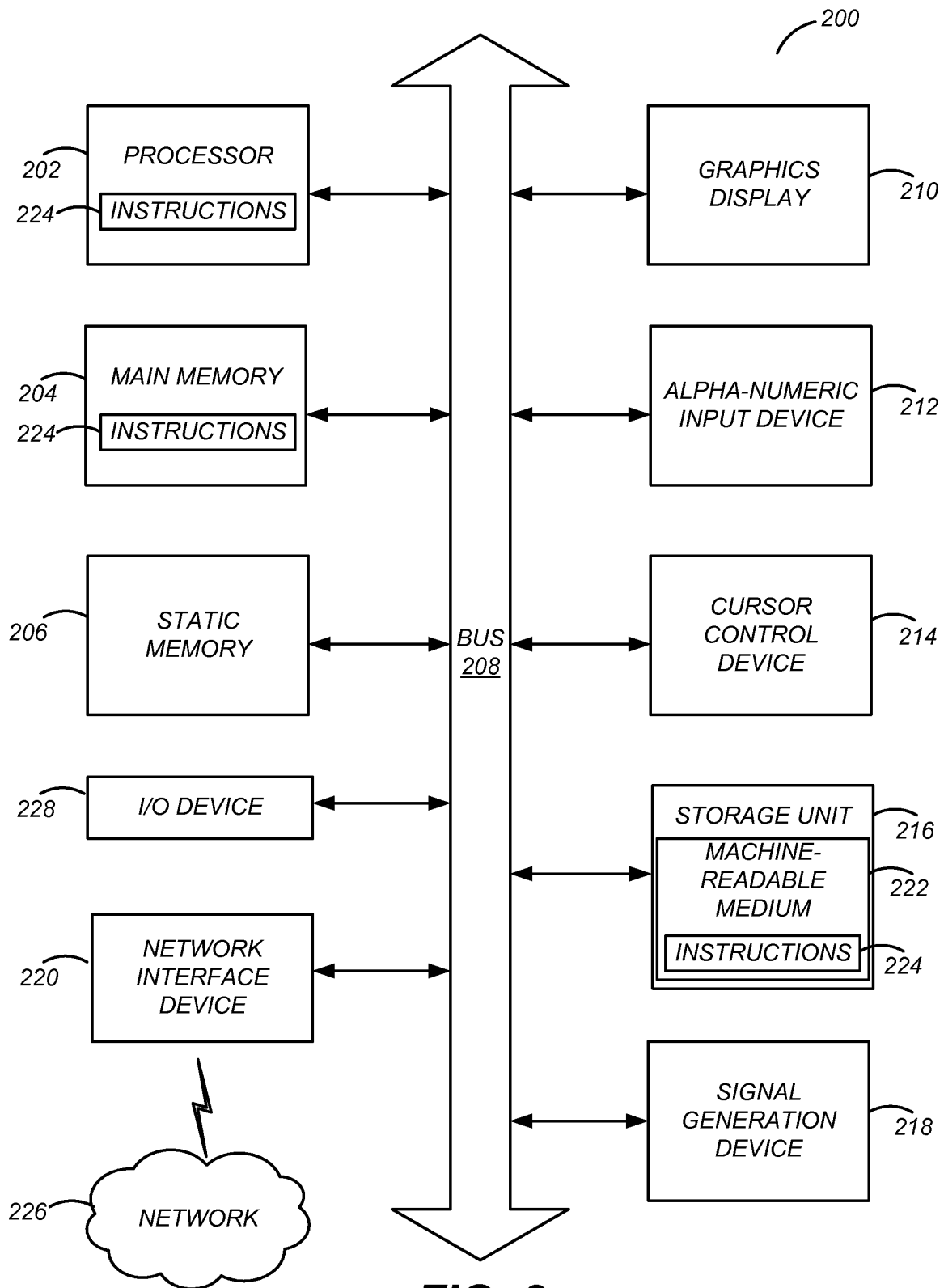


FIG. 2

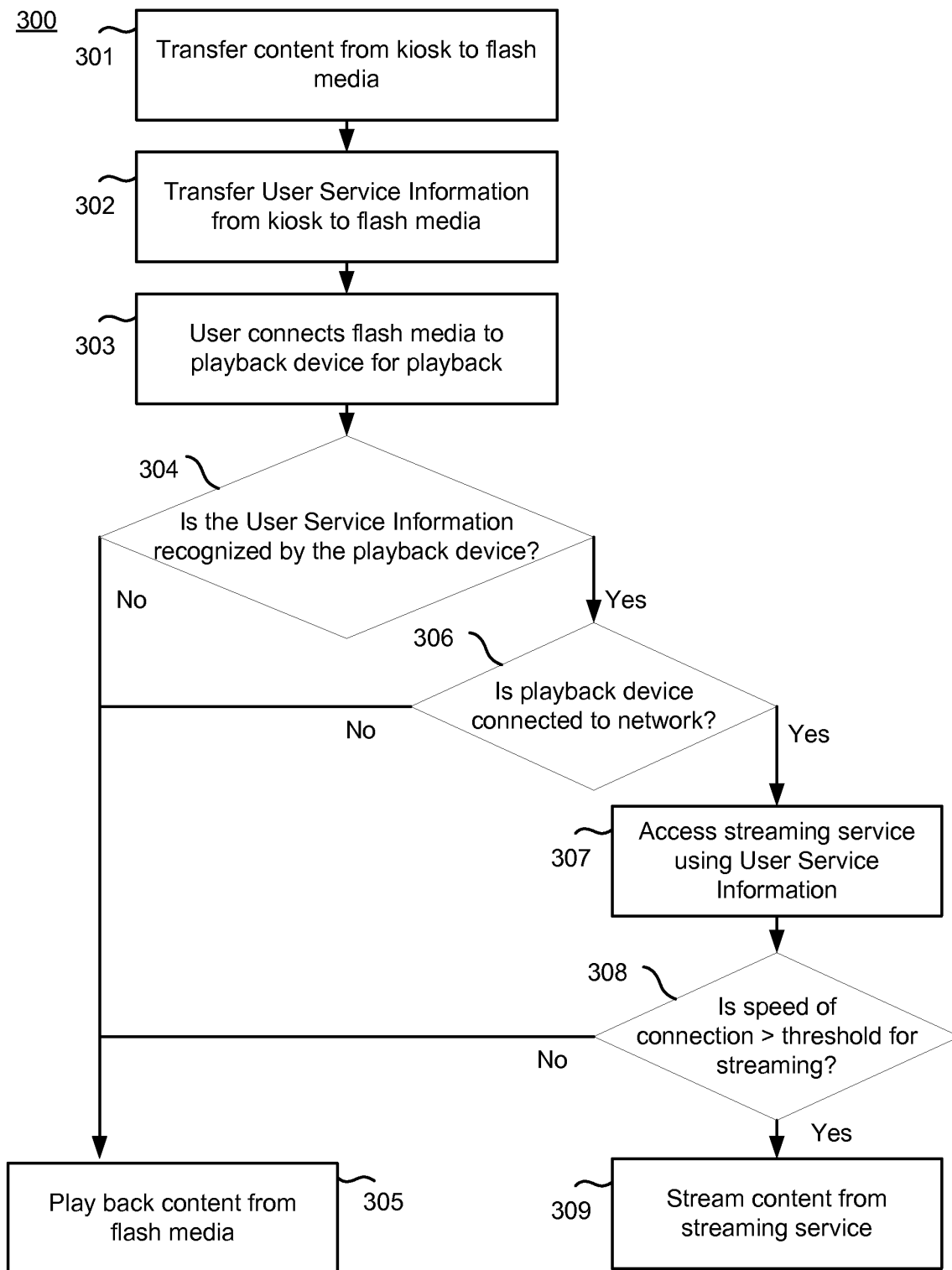


FIG. 3

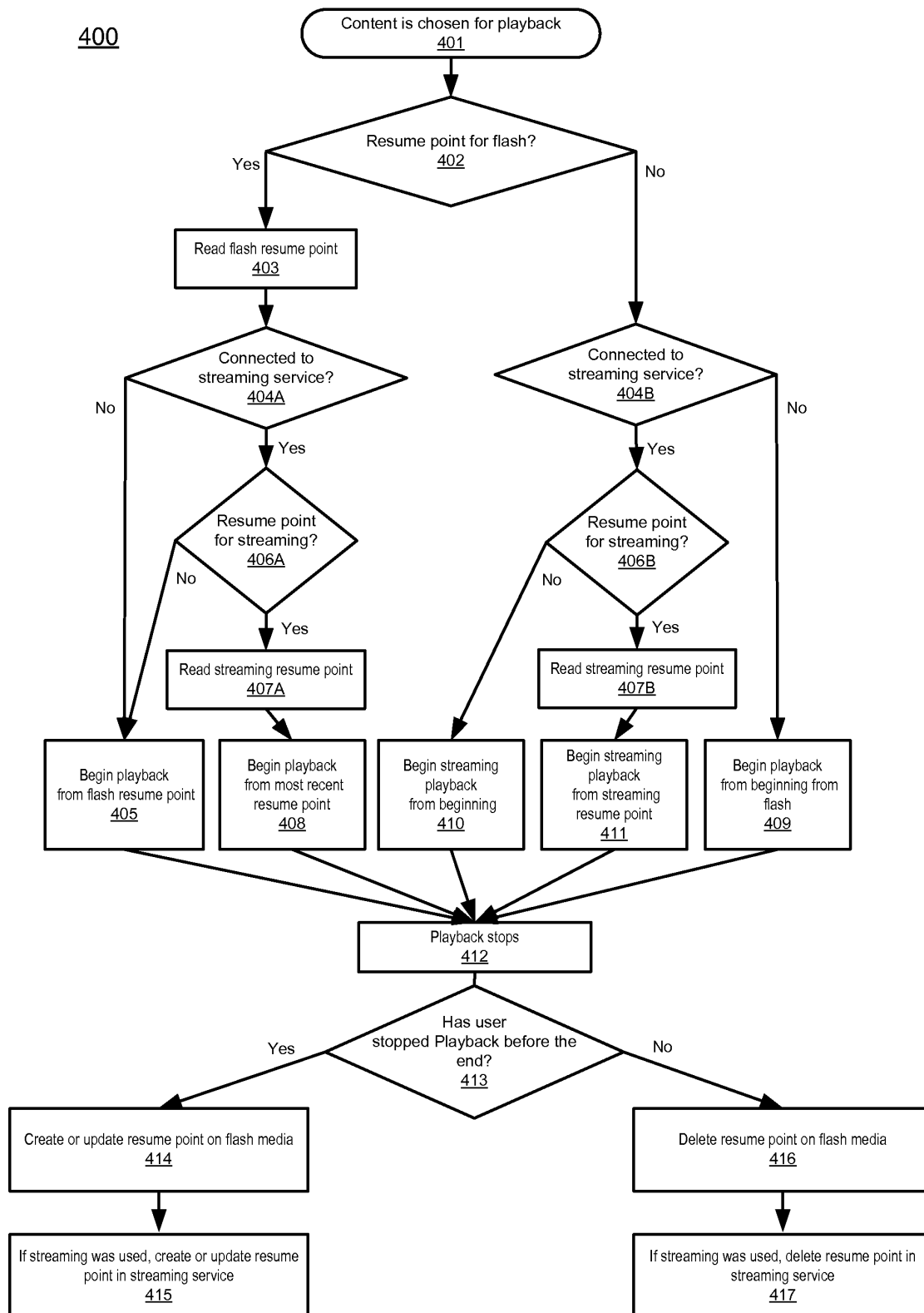


FIG. 4

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	26629-17740/US
		Application Number	
Title of Invention	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration		
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.)

Applicant Information:

Applicant 1						Remove	
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name		Suffix		
Mr.	David	W.	Hostetter				
Residence Information (Select One)		☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Kirkland	State/Province	WA	Country of Residence i	US		
Citizenship under 37 CFR 1.41(b) i		US					
Mailing Address of Applicant:							
Address 1		c/o MOD Systems Incorporated					
Address 2		1301 Third Avenue, Suite 501					
City	Seattle		State/Province	WA			
Postal Code		98101		Country i	US		
Applicant 2							
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name		Suffix		
Mr.	Joseph	P.	Zipperer				
Residence Information (Select One)		☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Seattle	State/Province	WA	Country of Residence i	US		
Citizenship under 37 CFR 1.41(b) i		US					
Mailing Address of Applicant:							
Address 1		c/o MOD Systems Incorporated					
Address 2		1301 Third Avenue, Suite 501					
City	Seattle		State/Province	WA			
Postal Code		98101		Country i	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.							
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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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	26629-17740/US	
		Application Number		
Title of Invention	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration			
Customer Number	00758			
Email Address	rreasoner@fenwick.com		Add Email	Remove Email

Application Information:

Title of the Invention	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration			
Attorney Docket Number	26629-17740/US	Small Entity Status Claimed	☐	
Application Type	Nonprovisional			
Subject Matter	Utility			
Suggested Class (if any)		Sub Class (if any)		
Suggested Technology Center (if any)				
Total Number of Drawing Sheets (if any)	5	Suggested Figure for Publication (if any)		

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). Enter either 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	00758		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this 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(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.			
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61294070	2010-01-11
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	26629-17740/US
		Application Number	
Title of Invention	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration		

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Remove			
Application Number	Country ⁱ	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			☒ Yes ☐ No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Assignee Information:

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

Assignee 1				Remove
If the Assignee is an Organization check here. ☒				
Organization Name	MOD Systems Incorporated			
Mailing Address Information:				
Address 1	1301 Third Avenue, Suite 501			
Address 2				
City	Seattle	State/Province	WA	
Country ⁱ	US	Postal Code	98101	
Phone Number	415-875-2327	Fax Number		
Email Address	rreasoner@fenwick.com			
Additional Assignee Data may be generated within this form by selecting the Add button.				Add

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Robin W. Reasoner/		Date (YYYY-MM-DD)	2011-01-11
First Name	Robin	Last Name	Reasoner	Registration Number
				58257

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

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

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

Electronic Acknowledgement Receipt	
EFS ID:	9211874
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	00758
Filer:	Robin W. Reasoner
Filer Authorized By:	
Attorney Docket Number:	26629-17740/US
Receipt Date:	11-JAN-2011
Filing Date:	
Time Stamp:	19:51:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		17740_US_Specification.pdf	123712 4844ec474e05012cd2d0961428af822e0271bbe5	yes	26

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	21	
	Claims		22	25	
	Abstract		26	26	
Warnings:					
Information:					
2	Drawings-only black and white line drawings	17740_US_Drawings.pdf	93288 479d1382e8d0d9e9bce0d629dd0c47f93e3a2741	no	5
Warnings:					
Information:					
3	Application Data Sheet	17740_US_ADS.pdf	1031676 c5cd720911fcdffc74bf2dd74455781612315e61	no	4
Warnings:					
Information:					
Total Files Size (in bytes):			1248676		
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.					
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.					
National Stage of an International Application under 35 U.S.C. 371					
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.					
New International Application Filed with the USPTO as a Receiving Office					
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/004,806				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	330			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	540			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	220			
TOTAL CLAIMS (37 CFR 1.16(i))	20	minus 20 = *			OR	x 52 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *			OR	x 220 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$270 (\$135 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		TOTAL	1090			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
TOTAL ADD'L FEE								OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
TOTAL ADD'L FEE								OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
13/004,806	01/11/2011	2447	0.00	26629-17740/US	20	3

CONFIRMATION NO. 1203

758

FENWICK & WEST LLP
SILICON VALLEY CENTER
801 CALIFORNIA STREET
MOUNTAIN VIEW, CA 94041

FILING RECEIPT



OC000000045649027

Date Mailed: 01/31/2011

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**

Applicant(s)

David W. Hostetter, Kirkland, WA;
Joseph P. Zipperer, Seattle, WA;

Assignment For Published Patent Application

MOD SYSTEMS INCORPORATED, Seattle, WA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/294,070 01/11/2010

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 01/24/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/004,806**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

Title

Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration

Preliminary Class

709

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.

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page 2 of 3

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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.

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/004,806	01/11/2011	David W. Hostetter	26629-17740/US

CONFIRMATION NO. 1203

FORMALITIES LETTER



OC000000045649028

758
FENWICK & WEST LLP
SILICON VALLEY CENTER
801 CALIFORNIA STREET
MOUNTAIN VIEW, CA 94041

Date Mailed: 01/31/2011

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$330 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).
- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- A surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$130 for a non-small entity, must be submitted.

SUMMARY OF FEES DUE:

Total fee(s) required within **TWO MONTHS** from the date of this Notice is **\$1220** for a non-small entity

- **\$330** Statutory basic filing fee.
- **\$130** Surcharge.
- The application search fee has not been paid. Applicant must submit **\$540** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit **\$220** to complete the examination fee for a non-small entity.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

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<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

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If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/tlc/

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

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)	Application Number	13/004,806	
	Filing Date	January 11, 2011	
	First Named Inventor	David W. Hostetter	
	Title	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration	
	Group Art Unit	Not Yet Known	
		Attorney Docket Number	26629-17740/US

As the below named inventor(s), I/we declare that:

This declaration is directed to:

☐ The attached application, or
☒ Application No. 13/004,806, filed on January 11, 2011,
☐ as amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

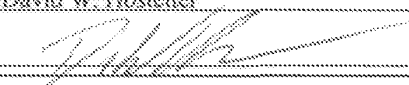
I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application, if applicable; and

All statements made herein of my/our knowledge are true, all statements made herein 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 are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

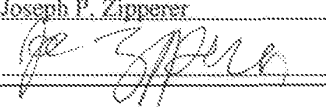
FULL NAME OF INVENTOR(S)

Inventor one: David W. Hostetter Citizen of: US

Signature:  Date: 1-26-2011

FULL NAME OF INVENTOR(S)

Inventor one: Joseph P. Zipperer Citizen of: US

Signature:  Date: 2-Feb-2011

☐ Additional inventors are being named on _____ additional form(s) attached hereto.

26629/17740/USP/5323776.1

Electronic Patent Application Fee Transmittal				
Application Number:	13004806			
Filing Date:	11-Jan-2011			
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration			
First Named Inventor/Applicant Name:	David W. Hostetter			
Filer:	Robin W. Reasoner			
Attorney Docket Number:	26629-17740/US			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility application filing	1011	1	330	330
Utility Search Fee	1111	1	540	540
Utility Examination Fee	1311	1	220	220
Pages:				
Claims:				
Miscellaneous-Filing:				
Late filing fee for oath or declaration	1051	1	130	130
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1220

Electronic Acknowledgement Receipt	
EFS ID:	9518566
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	00758
Filer:	Robin W. Reasoner
Filer Authorized By:	
Attorney Docket Number:	26629-17740/US
Receipt Date:	23-FEB-2011
Filing Date:	11-JAN-2011
Time Stamp:	19:21:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1220
RAM confirmation Number	6872
Deposit Account	192555
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 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	Oath or Declaration filed	17740_US_Declaration.pdf	852879	no	1
			77fee074a15baffbabe9c460ac0b28d8bb42bc16		

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	30130	no	2
			b0b6043eb1aebad4ee939f6d30be05f33651d47		

Warnings:

Information:

Total Files Size (in bytes):	883009
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New Applications Under 35 U.S.C. 111

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

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

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

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Electronic Acknowledgement Receipt	
EFS ID:	9518566
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	00758
Filer:	Robin W. Reasoner
Filer Authorized By:	
Attorney Docket Number:	26629-17740/US
Receipt Date:	23-FEB-2011
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Time Stamp:	19:21:48
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Submitted with Payment	yes
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Authorized User	
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Charge any Additional Fees required under 37 C.F.R. Section 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	Oath or Declaration filed	17740_US_Declaration.pdf	852879	no	1
			77fee074a15baffbabe9c460ac0b28d8bb42bc16		

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	30130	no	2
			b0b6043eb1aebad4ee939fd30be05f33651d47		

Warnings:

Information:

Total Files Size (in bytes): 883009

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/004,806				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	330			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	540			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	220			
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *				x 52 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x 220 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$270 (\$135 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		TOTAL	1090			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
TOTAL ADD'L FEE								TOTAL ADD'L FEE		
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
TOTAL ADD'L FEE								TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
13/004,806	01/11/2011	2447	1220	26629-17740/US	20	3

CONFIRMATION NO. 1203

UPDATED FILING RECEIPT



OC000000046293101

758
FENWICK & WEST LLP
SILICON VALLEY CENTER
801 CALIFORNIA STREET
MOUNTAIN VIEW, CA 94041

Date Mailed: 03/04/2011

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Applicant(s)

David W. Hostetter, Kirkland, WA;
Joseph P. Zipperer, Seattle, WA;

Assignment For Published Patent Application

MOD SYSTEMS INCORPORATED, Seattle, WA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/294,070 01/11/2010

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 01/24/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/004,806**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

Title

Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration

Preliminary Class

709

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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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 (1-866-999-4158).

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page 2 of 3

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).

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioners associated with the Customer Number:

00758

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☒ The address associated with Customer Number:

00758

OR

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

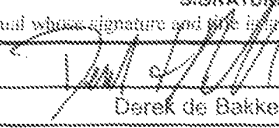
Assignee Name and Address:

MOD Systems Incorporated
1201 3rd Avenue, Suite 1000
Seattle, WA 98101

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	June 30, 2010
Name	Derek de Bakker	Telephone	(206) 432-3773
Title	General Counsel		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: David W. Hostetter and Joseph P. Zipperer

Application No./Patent No.: 13/004,806

Filed/Issue Date: January 11, 2011

Titled: Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration

MOD Systems Incorporated, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 025854, Frame 0676, or for which a copy therefore is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Robin W. Reasoner/

May 3, 2011

Signature

Date

Robin W. Reasoner, Reg. No. 58,257

Attorney for Assignee

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Privacy Act Statement

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

Electronic Acknowledgement Receipt	
EFS ID:	10014243
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	00758
Filer:	Robin W. Reasoner
Filer Authorized By:	
Attorney Docket Number:	26629-17740/US
Receipt Date:	03-MAY-2011
Filing Date:	11-JAN-2011
Time Stamp:	19:58:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	17740_US_Power_of_Attorney.pdf	1944708 1e927128e78af3b29f5412934564220bcd1f a6c5	no	2

Warnings:

Information:

2	Assignee showing of ownership per 37 CFR 3.73(b).	17740_US_373b.PDF	423299 51c2842940c9e3f59bc816d7851b9df27d7e942f	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				2368007	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/004,806	01/11/2011	David W. Hostetter	26629-17740/US

CONFIRMATION NO. 1203

POA ACCEPTANCE LETTER



758
FENWICK & WEST LLP
SILICON VALLEY CENTER
801 CALIFORNIA STREET
MOUNTAIN VIEW, CA 94041

Date Mailed: 05/17/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/03/2011.

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

/s/brahim/

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

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioners associated with the Customer Number:

25315

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

25315

OR

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

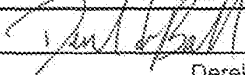
Assignee Name and Address:

Media IP, LLC
220 W. Mercer Street, Suite W-430
Seattle, WA 98119

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	5/2/2012
Name	Derek de Bakker	Telephone	206-979-1045
Title	Manager		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.31 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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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.
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Media IP, LLC

Application No./Patent No.: 13/004,806

Filed/Issue Date: January 11, 2011

Titled: **CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION**

Media IP, LLC, a limited liability company

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: David W. Hostetter et al. To: MOD Systems Incorporated

The document was recorded in the United States Patent and Trademark Office at
Reel 025854, Frame 0676, or for which a copy thereof is attached.

2. From: MOD Systems Incorporated To: MOD Asset Preservation LLC

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: MOD Asset Preservation LLC To: Media IP, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Ellen M. Bierman/

Signature

August 3, 2012

Date

Ellen M. Bierman

Printed or Typed Name

Attorney of Record

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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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.

ACKNOWLEDGMENT AND ASSIGNMENT

WHEREAS, MOD Systems Incorporated (hereinafter referred to as MOD), MOD Asset Preservation LLC (hereinafter referred to as MAP), and Media IP, LLC (hereinafter referred to as Media IP), collectively the Parties, wish to avoid any uncertainty with regard to ownership of the Patents and Patent Applications listed in the attached Schedule A (hereinafter referred to collectively as INVENTIONS) and wish to transfer all rights in the INVENTIONS to Media IP;

WHEREAS, MOD, whose office was located at 1301 2nd Avenue, #501, Seattle, WA 98101, was the owner of the INVENTIONS;

WHEREAS, MOD surrendered its business and assets, including the INVENTIONS, as part of a Surrender of Collateral, Consent to Strict Foreclosure, and Release Agreement (UCC 9A-620) dated on or about March 22, 2011 to MAP, having an address of 220 West Mercer Street, Suite W-430, Seattle, WA 98119;

WHEREAS, Media IP, a Washington Limited Liability Company having a principal address at 220 W. Mercer Street, Suite W-430, Seattle, WA 98119, desires the entire right, title and interest in and to the INVENTIONS; and

WHEREAS, the Parties hereto wish to provide, via this Assignment, a complete and formal transfer of all rights, to the extent any exist from MOD and MAP, to Media IP in a form suitable for recordation with the U.S. Patent and Trademark Office;

NOW, THEREFORE, for ten U.S. dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, MOD and MAP (collectively ASSIGNORS) hereby sell, assign and transfer to Media IP, individually and collectively, their entire right, title and interest in and to the INVENTIONS, and any and all applications and letters patent which may be granted for the INVENTIONS in the United States of America and its territorial possessions and in any and all other countries, and in any and all divisions, reissues and continuations thereof, including the right to file applications directly in the name of Media IP and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said INVENTIONS, applications and all letters patent on said INVENTIONS to be held and enjoyed by Media IP and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not

been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said INVENTIONS to Media IP.

MOD and MAP each agree to execute all instruments and documents as may be reasonably required by Media IP for the making and prosecution of applications for United States and foreign letters patent on said INVENTIONS, or for the purpose of protecting title to said INVENTIONS or letters patent therefor.

MOD Systems Incorporated

Date: June 26, 2012 By: Julia DeHaan

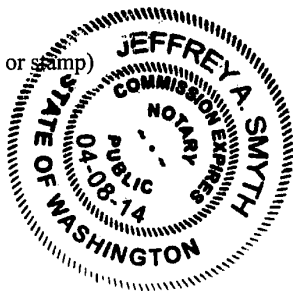
Julia DeHaan, Director, for MOD Systems Incorporated

STATE OF Washington)
COUNTY OF King) ss.

I certify that I know or have satisfactory evidence that Julia DeHaan is the person who appeared before me and signed this instrument and acknowledged such signature to be a voluntary act for the purposes mentioned in the instrument.

Dated: 6-26-12

(Seal or Stamp)



Signature: [Signature]
Printed Name: JEFF SMYTH
Notary Public
My appointment expires 4-8-14

MOD Asset Preservation LLC

Date: June 26, 2012 By: Julia de Haan

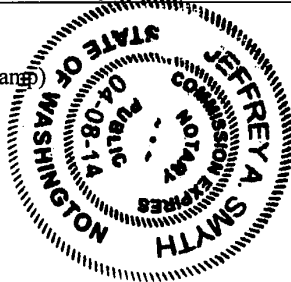
Julia DeHaan, Manager, for MOD Asset
Preservation LLC

STATE OF Washington)
) ss.
COUNTY OF King)

I certify that I know or have satisfactory evidence that Julia DeHaan is the person who appeared before me and signed this instrument and acknowledged such signature to be a voluntary act for the purposes mentioned in the instrument.

Dated: 6-26-12

(Seal or stamp)



[Signature]
Signature
Printed Name: JEFF SMYTH
Notary Public
My appointment expires 4-8-14

Media IP, LLC

Date: June 26, 2012 By: Derek de Bakker

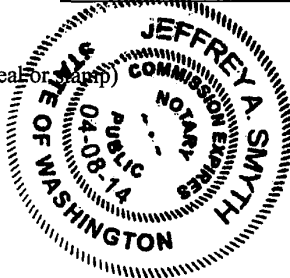
Derek de Bakker, Manager, for Media IP, LLC

STATE OF Washington)
) ss.
COUNTY OF King)

I certify that I know or have satisfactory evidence that Derek de Bakker is the person who appeared before me and signed this instrument and acknowledged such signature to be a voluntary act for the purposes mentioned in the instrument.

Dated: 6-26-12

(Seal or stamp)



[Signature]
Signature
Printed Name: JEFF SMYTH
Notary Public
My appointment expires 4-8-14

SCHEDULE A

Application No.	App. Date	Publication No.	Pub. Date	Patent No.	Issue Date	Title
61/474,671	4/12/11					KIOSK DISTRIBUTION OF LICENSED CONTENT TO PORTABLE DEVICES WITHIN DVD AVAILABILITY WINDOW
61/478,204	4/22/11					ACCESS CONTROLS FOR KNOWN CONTENT
61/413,926	11/15/10					VIRTUAL SECURE DIGITAL CARD
13/078,323	4/1/11					VIRTUAL SECURE DIGITAL CARD
13/073,802	3/28/11					READ AND WRITE OPTIMIZATION FOR PROTECTED AREA OF MEMORY
61/294,070	1/11/10					CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION
13/004,806	1/11/11					CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION
61/253,777	10/21/09					RESUME POINT FOR DIGITAL MEDIA PLAYBACK
12/906,949	10/18/10	US11/0091187	4/21/11			RESUME POINT FOR DIGITAL MEDIA PLAYBACK



Application No.	App. Date	Publication No.	Pub. Date	Patent No.	Issue Date	Title
61/253,792	10/21/09					CONTEXTUAL CHAPTER NAVIGATION
12/906,941	10/18/10	US11/0197131	8/11/11			CONTEXTUAL CHAPTER NAVIGATION
61/253,789	10/21/09					HIGH-SPEED SECURE CONTENT TRANSFER TO SD CARD FROM KIOSK
12/906,938	10/18/10	US11/0093622	4/21/11			HIGH-SPEED SECURE CONTENT TRANSFER TO SD CARD FROM KIOSK
PCT/US10/53118	10/19/10	WO 11/049902	4/28/11			HIGH-SPEED SECURE CONTENT TRANSFER TO SD CARD FROM KIOSK
60/851,631	10/13/06					DIGITAL CONTENT DELIVERY SYSTEM
11/974,918	10/15/07	US08/0133546	6/5/08	7,779,064	8/17/10	METHOD AND SYSTEM FOR EFFICIENT AND DYNAMICALLY ADAPTABLE DIGITALLY-ENCODED-INFORMATION DISTRIBUTION

Electronic Acknowledgement Receipt	
EFS ID:	13419134
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	758
Filer:	Ellen M Bierman/Kimberly Papp
Filer Authorized By:	Ellen M Bierman
Attorney Docket Number:	26629-17740/US
Receipt Date:	03-AUG-2012
Filing Date:	11-JAN-2011
Time Stamp:	19:28:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	MDIP-5-1001XPOA.pdf	621505	no	2
			13188915de48d86d28825c971385a5cd2924f01		

Warnings:

Information:

2	Assignee showing of ownership per 37 CFR 3.73(b).	MDIP-1-2405SB9602.pdf	428754 bd3224c07c48cb3e676e5fa89d9d33964d7a363	no	2
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73(b).	MDIP-5-1001XAsgn.pdf	457580 8f1782bd3415e2eb2fa3b6c39f2f384d5466b375	no	5
Warnings:					
Information:					
Total Files Size (in bytes):			1507839		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/004,806	01/11/2011	David W. Hostetter	26629-17740/US

CONFIRMATION NO. 1203

POA ACCEPTANCE LETTER

25315
LOWE GRAHAM JONES, PLLC
701 FIFTH AVENUE
SUITE 4800
SEATTLE, WA 98104



Date Mailed: 08/14/2012

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/03/2012.

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

/kmoukdarath/

Office of Data Management, 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
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/004,806	01/11/2011	David W. Hostetter	26629-17740/US

CONFIRMATION NO. 1203

POWER OF ATTORNEY NOTICE



OC000000055865189

758
FENWICK & WEST LLP
SILICON VALLEY CENTER
801 CALIFORNIA STREET
MOUNTAIN VIEW, CA 94041

Date Mailed: 08/14/2012

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/03/2012.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/kmoukdarath/

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806
	Filing Date		2011-01-11
	First Named Inventor	David W. Hostetter et al.	
	Art Unit	2439	
	Examiner Name	Brian L. Olion	
	Attorney Docket Number	MDIP-1-2405	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6697944	B1	2004-02-24	Jones et al.	
	2	6859791	B1	2005-02-22	Spagna et al.	
	3	7779064	B2	2010-08-17	Phillips	
If you wish to add additional U.S. Patent citation information please click the Add button.						Add
U.S.PATENT APPLICATION PUBLICATIONS						Remove
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20030220835	A1	2003-11-27	Barnes, Jr.	
	2	20040010601	A1	2004-01-15	Afergan et al.	
	3	20050044280	A1	2005-02-24	Reisman	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	
	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter et al.		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

	4	20060156355	A1	2006-07-13	Kawasaki et al.	
	5	20080075437	A1	2008-03-27	Hamada et al.	
	6	20080133546	A1	2008-06-05	Phillips	
	7	20080271154	A1	2008-10-30	Kamada et al.	
	8	20090164709	A1	2009-06-25	Lee et al.	
	9	20090282454	A1	2009-11-12	Ekstrand	
	10	20090313432	A1	2009-12-17	Spence et al.	
	11	20100262912	A1	2010-10-14	Cha	
	12	20100293581	A1	2010-11-18	Robert	
	13	20110091187	A1	2011-04-21	Duffin et al.	
	14	20110093622	A1	2011-04-21	Hahn et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	
	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter et al.		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

	15	20110197131	A1	2011-08-11	Duffin et al.	
	16	20120124390	A1	2012-05-17	Zipperer et al.	
	17	20120254629	A1	2012-10-04	Zipperer et al.	
	18	20120315019	A1	2012-12-13	Zipperer et al.	
	19	20120324244	A1	2012-12-20	Zipperer et al.	

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

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

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

NON-PATENT LITERATURE DOCUMENTS			Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	YOUNG; International Search Report for PCT/US07/22007; mailed May 5, 2008; 1 page	☐

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13004806
	Filing Date	2011-01-11
	First Named Inventor	David W. Hostetter et al.
	Art Unit	2439
	Examiner Name	Brian L. Olion
	Attorney Docket Number	MDIP-1-2405

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.			

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13004806
	Filing Date	2011-01-11
	First Named Inventor	David W. Hostetter et al.
	Art Unit	2439
	Examiner Name	Brian L. Olion
	Attorney Docket Number	MDIP-1-2405

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Ellen M. Bierman/	Date (YYYY-MM-DD)	2013-04-19
Name/Print	Ellen M. Bierman	Registration Number	38079

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these 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 Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/22007

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - G06F 15/173 (2008.01) USPC - 709/223 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) USPC - 709/223 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 709/223, 225-227, \$ Search Terms Below Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (USPT, PGPB, EPAB, JPAB); google.com Search Terms Used: content-distribution, device, consumer, download, determining, local, interrogate, back-end, hierarchy, hierarchical, servers, intermediate		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,697,944 B1 (JONES et al.) 24 February 2004 (24.02.2004) entire document, especially Abstract; col. 4, ln. 45-65; col. 7, ln. 39-65; col. 8, ln. 40-67; col. 9, ln. 1-20; col. 11, ln. 45-61; col. 15, ln. 27-42	1a, 1b,2-10
A	US 6,859,791 B2 (SPAGNA et al.) 22 February 2005 (22.02.2005) entire document, especially Abstract	1a, 1b,2-10
☐ Further documents are listed in the continuation of Box C. ☐		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 12 March 2008 (12.03.2008)		Date of mailing of the international search report 05 MAY 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (April 2007)

Electronic Acknowledgement Receipt	
EFS ID:	15570747
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	25315
Filer:	Ellen M Bierman/Kimberly Papp
Filer Authorized By:	Ellen M Bierman
Attorney Docket Number:	MDIP-1-2405
Receipt Date:	19-APR-2013
Filing Date:	11-JAN-2011
Time Stamp:	20:31:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	MDIP-1-2405IDS01.pdf	612627 d9ba6bfde3c79192747138d4bea88c5b7f17e1ee	no	6

Warnings:

Information:

2	Non Patent Literature	PCTSearchReportPCTUS0722007.pdf	54304 675b1663fads22bc7f31032ed0b7f44d66359b8a	no	1
Warnings:					
Information:					
Total Files Size (in bytes):				666931	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405	1203
25315 7590 05/15/2013 LOWE GRAHAM JONES, PLLC 701 FIFTH AVENUE SUITE 4800 SEATTLE, WA 98104			EXAMINER OLION, BRIAN L	
			ART UNIT 2439	PAPER NUMBER
			NOTIFICATION DATE 05/15/2013	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocketing@lowegrahamjones.com
docketing-patent@lowegrahamjones.com

<i>Examiner-Initiated Interview Summary</i>	Application No.		Applicant(s)	
	13/004,806		HOSTETTER ET AL.	
	Examiner		Art Unit	
	BRIAN OLION		2439	

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

(1) BRIAN OLION. (3) ____.

(2) Ellen M. Bierman. (4) ____.

Date of Interview: 20 February 2013.

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: 16-20.

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 get Applicant to elect claims for restriction. Applicant initially said she would elect claims 1-16, but she also said she wanted to file a preliminary amendment which would cancel claims 17-20 and add new claims. Examiner agreed to wait on preliminary amendment. However as of 4/18/2013 (approximately 2 months after interview) no preliminary amendment has been received. Examiner believes it to be best to send out restriction.

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

Office Action Summary	Application No.	Applicant(s)	
	13/004,806	HOSTETTER ET AL.	
	Examiner	Art Unit	
	BRIAN OLION	2439	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

1) ☒ Responsive to communication(s) filed on 03 August 2012.

2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.

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

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5) ☐ Claim(s) ____ is/are pending in the application.

5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☐ Claim(s) ____ is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☒ Claim(s) 1-20 are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☒ The drawing(s) filed on 11 January 2011 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some * c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____.

3) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date. 2/1/2013.

4) ☐ Other: ____.

Election/Restrictions

DETAILED ACTION

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-16, drawn to a media device that can be connected to a video player and determine if HD content or standard definition content is played, classified in class 380, subclass 200.
 - II. Claims 17-20, drawn to a resuming playback function, classified in class 725, subclass 37 or 52.
2. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because invention I does not require the resume playback functionality as described in invention II. The subcombination has separate utility such as the ability to resume playback in any system that plays audio or video.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in

accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

2. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and/or examination burden if restriction were not required because at least the following reason(s) apply:

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after

the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN OLION whose telephone number is (571)270-3353. The examiner can normally be reached on 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on 571-272-7884. 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.

/BRIAN OLION/
Examiner, Art Unit 2439

/Edan Orgad/
Supervisory Patent Examiner, Art Unit 2439

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : David W. Hostetter et al.
Application No. : 13/004,806
Filed : January 11, 2011
For : CONTENT AND IDENTITY DELIVERY SYSTEM FOR
PORTABLE PLAYBACK OF CONTENT AND STREAMING
SERVICE INTEGRATION

Examiner : Brian L. Olion
Art Unit : 2439
Docket No. : MDIP-1-2405
Date : June 7, 2013

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

RESPONSE TO RESTRICTION REQUIREMENT UNDER 35 U.S.C. §121

Commissioner for Patents:

In response to the Restriction Requirement dated May 15, 2013, Applicant hereby elects Group I, claims 1-16 for examination at this time. Applicant takes this action merely to reduce the number of disputed issues and to facilitate early allowance and issuance of the claims in the present application. Applicant reserves the right to pursue the subject matter of these canceled claims in a continuing application, if Applicant so chooses, and does not intend to dedicate any of the canceled subject matter to the public.

The Director is authorized to charge any additional fees due by way of this Amendment, or credit any overpayment, to our Deposit Account No. 50-1050. If the Examiner has any questions, the Examiner is encouraged to promptly contact Applicant's representative at (206) 381-3300 to resolve any such issues.

LOWE GRAHAM JONES ^{PLLC}

Ellen M. Bierman

Ellen M. Bierman
Registration No. 38,079

EMB:kp

25315

CUSTOMER NUMBER

1

MDIP-1-2405RRR01

LOWE GRAHAM JONES ^{PLLC}


701 Fifth Avenue, Suite 4800
Seattle, Washington 98104
206.381.3300 • F: 206.381.3301

Electronic Acknowledgement Receipt	
EFS ID:	15983445
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	25315
Filer:	Ellen M Bierman/Kimberly Papp
Filer Authorized By:	Ellen M Bierman
Attorney Docket Number:	MDIP-1-2405
Receipt Date:	07-JUN-2013
Filing Date:	11-JAN-2011
Time Stamp:	16:35:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response to Election / Restriction Filed	MDIP-1-2405RRR01.pdf	79773 2d7bd7cf6ee0c2cbd4a1cc454f95c75313db8c25	no	1

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	
	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter et al.		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7360088	B2	2008-04-15	Mishina et al.	
	2	7505584	B2	2009-03-17	Kamibayashi et al.	
	3	7844831	B2	2010-11-30	Benhammou et al.	
	4	8312294	B2	2012-11-13	Sato et al.	
	5	RE42019	E	2010-12-28	Tagawa et al.	
	6	8306918	B2	2012-11-06	Farrugia	
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13004806
	Filing Date	2011-01-11
	First Named Inventor	David W. Hostetter et al.
	Art Unit	2439
	Examiner Name	Brian L. Olion
	Attorney Docket Number	MDIP-1-2405

	1	20020126841	A1	2002-09-12	Arai	
	2	20070033344	A1	2007-02-08	Tanaka	
	3	20070234341	A1	2007-10-04	Chang et al.	
	4	20080098239	A1	2008-04-24	Wada et al.	
	5	20080270796	A1	2008-10-30	Suu et al.	
	6	20100297933	A1	2010-11-25	Sim	
	7	20120137135	A1	2012-05-31	Kasahara et al.	
	8	20120272065	A1	2012-10-25	Matsukawa et al.	
	9	20040006690	A1	2004-01-08	Du	
	10	20070192634	A1	2007-08-16	Cheon	
	11	20100127013	A1	2010-05-27	Butler	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806
	Filing Date		2011-01-11
	First Named Inventor	David W. Hostetter et al.	
	Art Unit	2439	
	Examiner Name	Brian L. Olion	
	Attorney Docket Number	MDIP-1-2405	

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

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

NON-PATENT LITERATURE DOCUMENTS			Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Android Developers Guide, Android Software Developers Kit (SDK), Android Version 1.5.43, Nov. 13, 2009, pages 1-24. Available online at >netmite.com/android/mydroid/1.6/out/target/common/docs/offline-sdk/offline.html<	☐

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

EXAMINER SIGNATURE			
Examiner Signature			Date Considered

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13004806
	Filing Date	2011-01-11
	First Named Inventor	David W. Hostetter et al.
	Art Unit	2439
	Examiner Name	Brian L. Olion
	Attorney Docket Number	MDIP-1-2405

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Ellen M. Bierman/	Date (YYYY-MM-DD)	2013-09-10
Name/Print	Ellen M. Bierman	Registration Number	38,079

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these 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 Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	16805931
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	25315
Filer:	Ellen M Bierman
Filer Authorized By:	
Attorney Docket Number:	MDIP-1-2405
Receipt Date:	10-SEP-2013
Filing Date:	11-JAN-2011
Time Stamp:	02:52:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	MDIP-1-2405IDS02.pdf	613062 4d2e3b88beda720adf5c204d380871589039c90	no	5

Warnings:

Information:

2	Non Patent Literature	Android_SDK.pdf	1400424	no	24
			74464cb6ae45f6080d931143e926d7c7352b60af		
Warnings:					
Information:					
Total Files Size (in bytes):				2013486	
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405	1203

25315	7590	09/18/2013
LOWE GRAHAM JONES, PLLC		
701 FIFTH AVENUE		
SUITE 4800		
SEATTLE, WA 98104		

EXAMINER	
OLION, BRIAN L	

ART UNIT	PAPER NUMBER
2439	

NOTIFICATION DATE	DELIVERY MODE
09/18/2013	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):

patentdocketing@lowegrahamjones.com
docketing-patent@lowegrahamjones.com

Office Action Summary	Application No. 13/004,806	Applicant(s) HOSTETTER ET AL.	
	Examiner BRIAN OLION	Art Unit 2439	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

- 1) ☒ Responsive to communication(s) filed on 6/7/2013.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-16 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-16 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 1/11/2011 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some * c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 4/19/2013.
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 4) ☐ Other: ____.

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

Claim Rejections - 35 USC § 103

2. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. Claim 1 -11 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Brush USPN 2004/0254940, and further in view of Danieli USPN 2005/0025465

As per claim 1, Brush teaches A method of delivering content by integrating a kiosk delivery system with a streaming service, the method comprising:
transferring content from a kiosk to a flash media device (**Brush Par 30, the memory card can take digital media information from the kiosk. Par 26 the media card may be a flash card**); and

transferring user service information from the kiosk to the flash media device (**Brush Par 27, 44, there can be other information downloaded from the kiosk such as digital rights information which govern the type of service/playability of the file**),

The combination doesn't teach, wherein responsive to the flash media device being connected to a playback device connected to a network, the user service information enables access to a streaming service to stream a higher quality version of the content to the playback device. **but Danieli teaches** wherein responsive to the flash media device being connected to a playback device connected to a network, the user service information enables access to a streaming service to stream a higher quality version of the content to the playback device. (**Danieli Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the**

playback device to process programmatic data associated with the AV content.

Par 16, the standard version of a piece of content is stored on the medium, and programmatic data is stored in a network server. Par 20 and 44, the instructions allow the DVD player to enhance the quality of the DVD by streaming HD content.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the ability to stream HD version of content as taught by Danieli in order to expand the functionality of standard content and it allows a medium to store less data physically (Danieli Par 3-5 and related text)

As per claim 2, the combination of Brush-Danieli teaches The method of claim 1, wherein the user service information comprises user account information for the streaming service. **(Danieli Par 20 the set of instructions define the particular enhanced functionality the user is allowed. The examiner equates the set of instructions as user service information because it details what the user is allowed to access which is similar to the DRM rights as described by Brush)**

As per claim 3, the combination of Brush-Danieli teaches The method of claim 2, wherein user service information includes information necessary to access a streaming service for delivery of content over a network. **(Danieli Par 20 the set of instructions define the particular enhanced functionality the user is allowed. These instructions are needed to access the content over the network.)**

As per claim 4, the combination of Brush-Danieli teaches The method of claim 1, wherein the content transfer can occur without removing the flash media device from a device containing the flash media device. **(Brush Par 40, the flash media device can download through the kiosk via a computer (i.e. without removing the flash media device from a device))**

As per claim 5, the combination of Brush-Danieli teaches The method of claim 1, wherein the content transfer can occur by removing the flash media device from a device containing the flash media device. **(Brush Par 38, the flash media device can be standalone (i.e. removed from playback device) and inserted into the kiosk to complete the content transfer)**

As per claim 6, the combination of Brush-Danieli teaches The method of claim 1, wherein the user service information is received from a user device **(Brush Par 40, the flash media device can download through the kiosk via a computer (i.e. without removing the flash media device from a device. This includes the digital rights information as described in Par 27 and 44)).**

As per claim 7, the combination of Brush-Danieli teaches The method of claim 1, wherein the user service information is received through a website **(Brush Par 38 and related text, the kiosk is connected to the internet in order to determine what**

movies are stored on its website. The user can use an interface (i.e. website) in order to purchase and download content that includes playable content and digital rights as described in Par 27 and 44.)

As per claim 8, the combination of Brush-Danieli teaches The method of claim 1, wherein the user service information is received from a data feed from a provider of the streaming service. **(Danieli Par 20 the set of instructions define the particular enhanced functionality the user is allowed. These instructions are provided with the content by the content provider. The examiner equates the set of instructions as user service information because it details what the user is allowed to access which is similar to the DRM rights as described by Brush)**

As per claim 9, the combination of Brush-Danieli teaches The method of claim 1, wherein the higher quality version of the content is a high definition version of standard definition content transferred from the kiosk to the flash media device. **(Danieli Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the playback device to process programmatic data associated with the AV content. Par 16, the standard version of a piece of content is stored on the medium, and programmatic data is stored in a network server. Par 20 and 44, the instructions allow the DVD player to enhance the quality of the**

DVD by streaming HD content.)

As per claim 10, the combination of Brush-Danieli teaches The method of claim 1, wherein users can register for the streaming service at the kiosk. **(Brush Par 30, the memory card can take digital media information from the kiosk. By buying the content the user is signing up for the potential to have an enhanced streaming version of that same movie as taught by Danieli);**

As per claim 11, the combination of Brush-Danieli teaches The method of claim 1, wherein users may update user service information via the kiosk. **(Brush Par 30, the memory card can take digital media information from the kiosk. The user is allowed to update the movies which he wishes to have access to (i.e. update user service information));**

5. Claims 12, 13, 14 and 16 rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Danieli, and further in view of Brush and Li USPN 2008/0205291.

As per claim 12, Danieli teaches A method of operating a playback device to playback content from either a flash media device or a streaming service depending upon playback circumstances, the method comprising:receiving user service information from a [connected flash media device], wherein the user service information enables access

to a streaming service (**Danieli Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the playback device to process programmatic data associated with the AV content. Par 16, the standard version of a piece of content is stored on the medium, and programmatic data is stored in a network server. Par 20 and 44, the instructions allow the DVD player to enhance the quality of the DVD by streaming HD content.);**

Danieli does not teach of a flash media device, **but Brush teaches** of a flash media device (**Brush Par 30, the memory card can take digital media information from the kiosk. Par 26 the media card may be a flash card);**

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement a flash media device as taught by Brush in order allow manufacturers to not use DVD's which saves them cost when distributing media (Brush Par 0007)

responsive to the user service information being unrecognized by the playback device, playing back the content from the flash media device; responsive to the user service information being recognized by the playback device: responsive to the playback device not being connected to a network, playing back the content from the flash media device (**Danieli Par 28, if the DVD player does not understand the programmatic data**

then the standard AV data is played from the DVD. However, if the DVD player does understand the programmatic data then the enhanced functionality is made available to the user)

and responsive to the playback device being connected to a network, accessing the streaming service using the user service information, **(Danieli Par 20 and 44, the instructions allow the DVD player to enhance the quality of the DVD by streaming HD content from a remote server.);**

Danieli doesn't teach, and: responsive to a speed of the connection not meeting a threshold for streaming, playing back the content from the flash media device; and responsive to the speed of the connection meeting the threshold for streaming, streaming the content from the streaming service. **but Li teaches** and: responsive to a speed of the connection not meeting a threshold for streaming, playing back the content from the flash media device; and responsive to the speed of the connection meeting the threshold for streaming, streaming the content from the streaming service. **(Li Par 64, there is a minimum bandwidth a device needs to stream media content at certain resolutions. If the minimum bandwidth is met then the device is allowed to stream at its encoded resolution)**

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement a bandwidth requirement as taught by Li in order to successfully stream videos at a desired resolution (Li Par 62-67)

As per claim 13, the combination of Danieli-Brush-Li teaches The method of claim 12, wherein streaming the content from the streaming service comprises streaming the content in high definition, and wherein the content on the flash media device is standard definition (**Danieli Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the playback device to process programmatic data associated with the AV content. Par 16, the standard version of a piece of content is stored on the medium, and programmatic data is stored in a network server. Par 20 and 44, the instructions allow the DVD player to enhance the quality of the DVD by streaming HD content.**).

As per claim 14, the combination of Danieli-Brush-Li teaches The method of claim 12, wherein accessing the streaming service using the user service information comprises automatically logging the user into the streaming service. (**Danieli Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the playback device to process programmatic data associated with the AV content. The playback device automatically recognizes the instructions thus automatically logging the user into the streaming service.**).

As per claim 16, the combination of Danieli-Brush-Li teaches The method of claim 12, wherein a flash media device can be transferred between playback devices. **(Brush Par 38-41, the flash media device can be input into multiple devices)**

6. Claim 15 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Danieli, Brush, and Li as applied to claim 15 above, and further in view of Buckley USPN 20050190782.

As per claim 15, the combination of Danieli-Brush-Li teaches The method of claim 12, **the combination doesn't teach**, wherein the threshold is a lower limit on speed consistent with avoiding service interruptions **but Buckley teaches** wherein the threshold is a lower limit on speed consistent with avoiding service interruptions. **(Buckley Par 58, the bandwidth requirements are for maintaining a certain quality of service standards)**

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement a bandwidth requirement as taught by Buckley in order to not have a disruption in the service (Buckley Par 58)

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wendling USPN 2011/0078722 (Par 002) – There is a DVD medium that allows a user to stream a high definition version of the DVD, but date is not prior to applicants effective filing date.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN OLION whose telephone number is (571)270-3353. The examiner can normally be reached on 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on 571-272-7884. 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.

Application/Control Number: 13/004,806
Art Unit: 2439

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/BRIAN OLION/

Examiner, Art Unit 2439

/Edan Orgad/

Supervisory Patent Examiner, Art Unit 2439

Notice of References Cited	Application/Control No. 13/004,806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.	
	Examiner BRIAN OLION	Art Unit 2439	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2011/0078722	03-2011	WENDLING, Bertrand	725/31
*	B	US-2005/0190782	09-2005	Buckley et al.	370/437
*	C	US-2008/0205291	08-2008	Li et al.	370/254
*	D	US-2004/0254940	12-2004	Brush, Hector Cesar	707/100
*	E	US-2005/0025465	02-2005	Danieli, Damon V.	386/125
	F	US-			
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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

13004806 - GAI: 2439

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	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter et al.		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

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/B.O./	1	6697944	B1	2004-02-24	Jones et al.	
/B.O./	2	6859791	B1	2005-02-22	Spagna et al.	
/B.O./	3	7779064	B2	2010-08-17	Phillips	
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/B.O./	1	20030220835	A1	2003-11-27	Barnes, Jr.	
/B.O./	2	20040010601	A1	2004-01-15	Afergan et al.	
/B.O./	3	20050044280	A1	2005-02-24	Reisman	

Receipt date: 04/19/2013 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	13004806 - GAU: 2439	
	Filing Date		2011-01-11		
	First Named Inventor		David W. Hostetter et al.		
	Art Unit		2439		
	Examiner Name		Brian L. Olion		
	Attorney Docket Number		MDIP-1-2405		

/B.O./	4	20060156355	A1	2006-07-13	Kawasaki et al.	
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/B.O./	7	20080271154	A1	2008-10-30	Kamada et al.	
/B.O./	8	20090164709	A1	2009-06-25	Lee et al.	
/B.O./	9	20090282454	A1	2009-11-12	Ekstrand	
/B.O./	10	20090313432	A1	2009-12-17	Spence et al.	
/B.O./	11	20100262912	A1	2010-10-14	Cha	
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/B.O./	13	20110091187	A1	2011-04-21	Duffin et al.	
/B.O./	14	20110093622	A1	2011-04-21	Hahn et al.	

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	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

/B.O./	15	20110197131	A1	2011-08-11	Duffin et al.	
/B.O./	16	20120124390	A1	2012-05-17	Zipperer et al.	
/B.O./	17	20120254629	A1	2012-10-04	Zipperer et al.	
/B.O./	18	20120315019	A1	2012-12-13	Zipperer et al.	
/B.O./	19	20120324244	A1	2012-12-20	Zipperer et al.	

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	Art Unit	2439	
	Examiner Name	Brian L. Olion	
	Attorney Docket Number	MDIP-1-2405	

EXAMINER SIGNATURE			
Examiner Signature	/Brian Olion/	Date Considered	09/08/2013
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	Filing Date	2011-01-11
	First Named Inventor	David W. Hostetter et al.
	Art Unit	2439
	Examiner Name	Brian L. Olion
	Attorney Docket Number	MDIP-1-2405

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Ellen M. Bierman/	Date (YYYY-MM-DD)	2013-04-19
Name/Print	Ellen M. Bierman	Registration Number	38079

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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)).
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BIB DATA SHEET

CONFIRMATION NO. 1203

SERIAL NUMBER 13/004,806	FILING or 371(c) DATE 01/11/2011 RULE	CLASS 726	GROUP ART UNIT 2439	ATTORNEY DOCKET NO. MDIP-1-2405		
APPLICANTS David W. Hostetter, Kirkland, WA; Joseph P. Zipperer, Seattle, WA; ** CONTINUING DATA ***** This appln claims benefit of 61/294,070 01/11/2010 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 01/24/2011						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /BRIAN L OLION/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY WA	SHEETS DRAWINGS 5	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 3
ADDRESS LOWE GRAHAM JONES, PLLC 701 FIFTH AVENUE SUITE 4800 SEATTLE, WA 98104 UNITED STATES						
TITLE Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration						
FILING FEE RECEIVED 1220	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			

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

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S209	11795	user adj2 (ID or identity) near5 (number)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 10:11
S210	221	user adj2 (ID or identity) near5 ((random) near2 (number))	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 10:11
S211	91	user adj2 (ID or identity) adj3 ((random) near2 (number))	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 10:12
S212	0	2010/0120396	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 13:59
S213	2	"20100120396"	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 13:59
S214	1	"20110030043"	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 14:06
S215	349	chang\$5 adj5 (ID) adj5 (password)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 14:46
S216	0	chang\$5 adj5 (ID) adj5 (accord\$5) near5 (password)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 14:46
S217	12	chang\$5 adj5 (ID) adj5 (accord\$5 or bas\$5) near5 (password)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 14:47
S218	13	chang\$5 adj5 (ID or identifier) adj5 (accord\$5 or bas\$5) near5 (password)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/25 14:59
S219	50	credential with (segment or part) near5 (number)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/26 10:10
S220	1205	(chang\$5) near5 (credential)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/26 11:14

S221	139	(chang\$5) near5 (credential) with (chang\$5) near2 (password or ID)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/26 11:14
S222	9	(chang\$5) near5 (credential) near5 (procedure)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/26 11:16
S223	9	(chang\$5) near7 (credential) near7 (procedure)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/26 14:42
S224	5	(chang\$5) near7 (credential) near7 (algorithm)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/26 14:46
S225	493	(chang\$5 or modify) near2 (credential or password) with (chang\$5 or modify) near5 (process or algorithm)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/26 14:52
S226	183	(chang\$5 or modify) near2 (credential or password) with (chang\$5 or modify) near5 (process or algorithm) and "726".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/26 15:02
S227	64	(chang\$5 or modify) near2 (credential or token) with (chang\$5 or modify) near5 (password) and "726".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/27 09:51
S228	7	(chang\$5 or modify) near2 (assertion or SAML or token) with (chang\$5 or modify) near5 (password) and "726".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/27 09:52
S229	16	(chang\$5 or modify) near2 (assertion or SAML or token) with (chang\$5 or modify) near5 (password)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/27 10:23
S230	428	(chang\$5 or modify) near2 (assertion or SAML)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/27 10:36
S231	42	(chang\$5 or modify) near2 (assertion or SAML) and ("726".clas. or "713".clas. or "380".clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/02/27 10:40

2/ 28/ 2013 1:20:06 PM

EAST Search History**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S11	0	(physic\$5 near5 (secure) near5 (path))".clm"	US-PGPUB; USPAT; UPAD	ADJ	ON	2011/12/15 15:32
S12	0	(physical\$5 near5 (secure) near5 (path))".clm"	US-PGPUB; USPAT; UPAD	ADJ	ON	2011/12/15 15:33
S13	19	"7069447"	US-PGPUB; USPAT; UPAD	ADJ	ON	2011/12/15 15:42
S14	0	(sign-on) near10 (second secure communication)".clm" and 726/26.ccls. and 713/189.ccls.	US-PGPUB; USPAT; UPAD	ADJ	ON	2011/12/15 15:45
S15	0	((sign-on) near10 (second secure communication))".clm" and 726/26.ccls. and 713/189.ccls.	US-PGPUB; USPAT; UPAD	ADJ	ON	2011/12/15 15:46
S16	0	((sign-on) near10 (second secure communication)) and 726/26.ccls. and 713/189.ccls.	US-PGPUB; USPAT; UPAD	ADJ	ON	2011/12/15 15:46
S20	1517	(authenticat\$5 or ver\$6 or valid\$5) near10 (Location) with (encrypt\$5)	US-PGPUB; USPAT; UPAD	ADJ	ON	2011/12/16 13:14
S21	11	(authenticat\$5 or ver\$6 or valid\$5) near10 (physical near2 location) with (encrypt\$5)	US-PGPUB; USPAT; UPAD	ADJ	ON	2011/12/16 13:15
S76	1	"20060161502"	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/01/06 15:42
S77	1	"20020166056"	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/01/06 16:14
S78	0	sitrick and olion	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/01/06 16:30
S101	0	(380/258.clas. or 713/150.ccls. or 726/2.ccls.) and (second) near2 (hash) and (hash algorithm) near5 (change)	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/01/18 11:05

S102	99	(380/258.clas. or 713/150.ccls. or 726/2.ccls.) and (second) near2 (hash)	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/01/18 11:05
S103	4	"7530099"	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/01/18 14:30
S106	13701	(rang\$5 or various or varying) near5 (level) with (rang\$5 or various or varying) near5 (output OR DISPLAY)	US-PGPUB; USPAT; UPAD	ADJ	ON	2012/01/19 10:50
S134	1	"20050228723"	US-PGPUB; USPAT; UPAD	ADJ	ON	2013/02/19 10:48
S135	3	(dont or doesnt) near5 (trans\$6 or send\$6) near5 (DRM or (usage rights))	US-PGPUB; USPAT; UPAD	ADJ	ON	2013/02/19 10:52
S136	5	(dont or doesnt) near15 (trans\$6 or send\$6) near15 (DRM or (usage rights))	US-PGPUB; USPAT; UPAD	ADJ	ON	2013/02/19 10:56
S149	0	"2009260077"	USPAT; UPAD	ADJ	ON	2013/02/20 18:45
S150	0	"2009/260077"	USPAT; UPAD	ADJ	ON	2013/02/20 18:45
S151	0	"2010215270"	USPAT; UPAD	ADJ	ON	2013/02/20 18:45
S152	0	"2002188872"	USPAT; UPAD	ADJ	ON	2013/02/20 18:45
S153	0	"20020188872"	USPAT; UPAD	ADJ	ON	2013/02/20 18:45
S154	30178	zhu	USPAT; UPAD	ADJ	ON	2013/02/20 18:46
S155	1	zhu "2009"	USPAT; UPAD	ADJ	ON	2013/02/20 18:46
S160	35	image near5 challenge with (authenticat\$5)	USPAT; UPAD	ADJ	ON	2013/02/21 10:09
S194	29	((content\$5) with (third key)).clm.	USPAT; UPAD	ADJ	ON	2013/02/21 19:04
S195	0	((contention) with (third key)).clm.	USPAT; UPAD	ADJ	ON	2013/02/21 19:04
S196	0	((contention) with (third key)).clm. and (380/277.ccls.)	USPAT; UPAD	ADJ	ON	2013/02/21 19:04
S197	0	((contention) with (\key)).clm. and (380/277.ccls.)	USPAT; UPAD	ADJ	ON	2013/02/21 19:04
S198	0	((contention) with (key)).clm. and (380/277.ccls.)	USPAT; UPAD	ADJ	ON	2013/02/21 19:05

2/ 28/ 2013 1:13:45 PM

<i>Search Notes</i> 	Application/Control No. 13004806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.
	Examiner BRIAN OLION	Art Unit 2439

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
726		9/8/2013	BO

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Name Search	9/8/2013	BO
Limited Search in 726 class	9/8/2013	BO
East see Search History	9/8/2013	BO

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

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<i>Index of Claims</i> 	Application/Control No. 13004806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.
	Examiner BRIAN OLION	Art Unit 2439

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	09/08/2013								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								

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

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	224	(register) near10 service near10 (store or retail) near10 (terminal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 18:11
L3	0	(register) near10 (movie or video) near5 service near10 (store or retail) near10 (terminal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 19:04
L4	11	(register) near10 (movie or video) near10 service near10 (store or retail) near10 (terminal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 19:05
L5	0	(profile) with (movie or video) near10 service near10 (store or retail) near10 (terminal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 19:21
L6	23	(change or edit) near5 (profile or account) with (kiosk)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 19:21
L7	13	(change or edit) near5 (profile or account) with (store or retail or mall) near5 (kiosk or terminal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 19:46
L8	15	(change or edit) near5 (profile or account) with (store or retail or mall) near7 (kiosk or terminal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 19:53
L9	58	(change or edit or register) near5 (profile or account) with (store or retail or mall) near7 (kiosk or terminal)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 19:58
L10	2897	(bandwidth) near5 (requirement or limit) with (stream\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 20:53
L11	894	(bandwidth) near5 (requirement or limit) with (stream\$5) near5 (video or movie or content)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 20:54
L12	16	(bandwidth) near5 (requirement or limit) with (allow) near7 (stream\$5) near5 (video or movie or content)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 21:51
L13	5	(bandwidth) near5 (requirement or limit) with (permit) near7 (stream\$5) near5 (video or movie or content)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 21:55

L14	15	(minimum) near5 (bandwidth) near5 (requirement or limit) with (stream\$5) near5 (video or movie or content)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/08 22:00
S136	430	(obtain\$5 or download\$5 or copy) with (movie or audio or video) near5 (hub or kiosk or store) with (usb or portable or card) and (usb or portable or card) with (playback or computer or settop or TV)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 15:58
S137	526	(obtain\$5 or download\$5 or copy) with (movie or audio or video) with (service) with (usb or portable or card) and (usb or portable or card) with (playback or computer or settop or TV)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 16:00
S138	1377	(obtain\$5 or download\$5 or copy) with ((movie or audio or video) with (service near ID or information)) with (usb or portable or card) and (usb or portable or card) with (playback or computer or settop or TV)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 16:06
S139	1059	(transfer or download) near5 (movie or file or audio or video) with (portable or usb or card) and (portable or usb or card) with (stream\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 16:12
S140	515	(transfer or download) near5 (movie or file or audio or video) with (portable or usb or card) and (portable or usb or card) near5 (stream\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 16:13
S141	90	(kiosk or store) with (transfer or download) near5 (movie or file or audio or video) with (portable or usb or card) and (portable or usb or card) near5 (stream\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 16:16
S144	0	(portable or usb or card) near5 (credentials) near5 (stream\$5) near5 (upgrade or ehanc\$6 or HD or high definition)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 17:12
S145	0	(portable or usb or card) near5 (credentials or parameters) near5 (stream\$5) near5 (upgrade or ehanc\$6 or HD or high definition)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 17:13
S146	10	(portable or usb or card) near5 (credentials or parameters) near5 (upgrade or ehanc\$6 or HD or high definition)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 17:15
S147	8188	(portable or usb or card) with (HD or high definition)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 17:18
S154	1268	(portable or usb or card) with (access or credentials) with (HD or high definition)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:08
S155	128	(portable or usb or card) near6 (access or credentials) near6 (HD or high definition)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:12
S156	2	(portable or usb or card) near6 (access or credentials) near6 (HD or high definition) near6 (video or stream\$5 or download)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:14

S157	38	(portable or usb or card) near6 (access or credentials) near6 (stream) near5 (video or movie)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:15
S158	1	(portable or usb or card) near6 (authenticat\$5) near6 (stream) near5 (video or movie)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:19
S159	2	(portable or usb or card or IC) near9 (authenticat\$5) near9 (stream) near9 (video or movie)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:30
S160	3	(portable or usb or card or IC or token or flash) near9 (authenticat\$5) near9 (stream) near9 (video or movie)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:31
S161	0	(portable or usb or card or IC or token or flash) and (credential or authenticat\$5) and (authenticat\$5) near9 (stream) near9 (HD or definition) near9 (video or movie)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:33
S162	0	(portable or usb or card or IC or token or flash) with (credential or authenticat\$5) and (authenticat\$5) near9 (stream) near9 (HD or definition) near9 (video or movie)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:33
S163	0	((portable or usb or card or IC or token or flash) with (credential or authenticat\$5)) and ((authenticat\$5) near9 (stream) near9 (HD or definition) near9 (video or movie))	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:34
S164	40	((portable or usb or card or IC or token or flash) with (credential or authenticat\$5)) and ((stream) near9 (HD or definition) near9 (video or movie))	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:34
S165	173	(kiosk or store) with (sign or register) with (stream) with (video or content)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:47
S166	0	(kiosk) with (sign or register) with (stream) with (video or content)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:49
S167	152	(kiosk) with (stream)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/06 23:50
S168	0	(register) with (kiosk or store) with (stream\$) near5 (HD or high definition) near5 (content or movie or video)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:08
S169	0	(register or sign) with (kiosk or store) with (stream\$) near5 (HD or high definition) near5 (content or movie or video)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:09
S170	126	(register or sign) with (kiosk or store) with (stream\$) near5 (content or movie or video)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:09
S171	0	(register or sign up) with (stream) with (HD or high definition) and (kiosk)	US-PGPUB; USPAT;	ADJ	ON	2013/09/07 00:13

			USOCR			
S172	328	(register or sign up) with (stream) and (kiosk)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:13
S173	22	(register or sign up) with (stream) with (video or movie or audio) and (kiosk)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:13
S174	52	(register or sign up) with (kiosk or (point of sale) or POS or billboard or terminal) with (stream) with (video or movie or audio)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:18
S175	0	(download or copy) near5 (account) with (POS or terminal or kiosk or store) with (stream\$5) near5 (service or content or movie or video or audio)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:23
S176	627	(portable or card or IC or token or flash) with (POS or terminal or kiosk or store) with (stream\$5) near5 (service or content or movie or video or audio)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:23
S177	1	(download or sav\$5 or stor\$5 or buy or purchase) near15 (content or movie or service or audio) with (upgrad\$5) near5 (HD or high definition)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:24
S179	0	(medium) with (choos\$5) with (standard and (HD or high definition)) with bandwidth	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:30
S180	0	(medium or disc or card or removable) with (choos\$5) with (standard and (HD or high definition)) with bandwidth	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:30
S181	143	(medium or disc or card or removable) with (choos\$5 or pick\$5) with (standard and (HD or high definition))	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:31
S182	1440	(medium or disc or card or removable) with (standard) and (high definition or HD) near10 (stream or bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:35
S183	929	(medium or disc or card or removable) with (standard) and (high definition or HD) near5 (movie or content or video or audio) near10 (stream or bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:35
S184	117	(medium or disc or card or removable) with (standard definition) and (high definition or HD) near5 (movie or content or video or audio) near10 (stream or bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:35
S185	22	(medium or disc or card or removable) with (standard definition) and (stream or watch)(high definition or HD) near5 (movie or content or video or audio) near10 (stream or bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:45
S186	18	(medium or disc or card or removable) with (standard definition) and (stream or watch) near15 (high definition or HD) near5 (version)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:46

S187	18	(kiosk or POS) with (stream\$5 near5 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:50
S188	504	(mall or store) near9 (terminal or kiosk or POS or (point of sale)) with (initiat\$5 or start or sign\$1up or register) with (service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:53
S189	11	(mall or store) near9 (terminal or kiosk or POS or (point of sale)) with (initiat\$5 or start or sign\$1up or register) with (video or movie or audio) near5 (service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 00:53
S192	60	(DVD) with (stream) near5 (high definition)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 19:39
S193	149	(DVD or medium) with (stream) near5 (high definition) and (bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 19:39
S194	204	(DVD or medium) with (stream) near5 (high definition or blu\$1ray) and (bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 20:02
S195	0	(buy or purchase) near10 (DVD or medium) near10 (store or kiosk) with (stream) near5 (high definition or blu\$1ray) and (bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 20:04
S196	0	(buy or purchase) near10 (DVD or medium) with (stream) near5 (high definition or blu\$1ray) and (bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 20:04
S197	32	(DVD) with (stream) near5 (high definition or blu\$1ray) and (bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 20:21
S198	0	(buy or purchase) near5 (DVD) ((stream) near5 (high definition or blu\$1ray) near5 version) and (bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 20:28
S199	0	(buy or purchase) near5 (DVD) and ((stream) near5 (high definition or blu\$1ray) near5 version) and (bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 20:29
S200	0	(buy or purchase) near5 (DVD) and ((stream) near5 (high definition or blu\$1ray) near5 version)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 20:29
S201	0	(buy or purchase) near5 (DVD or movie or video or audio or medium) and ((stream) near5 (high definition or blu\$1ray) near5 version)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 20:30
S202	4	(buy or purchase) near5 (DVD or movie or video or audio or medium) and ((stream) near17 (high definition or blu\$1ray) near5 version)	US-PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 20:31
S203	1	"20040254940"	US-PGPUB; USPAT;	ADJ	ON	2013/09/07 22:03

EAST Search History

			USOCR			
S204	1509	(register) near10 (kiosk)	US- PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 22:46
S205	114	(register) near10 service near10 (kiosk)	US- PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 22:46
S206	31	(register) near10 service near10 (kiosk) and (stream\$5)	US- PGPUB; USPAT; USOCR	ADJ	ON	2013/09/07 22:48

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : David W. Hostetter et al.
Application No. : 13/004,806
Filed : January 11, 2011
For : CONTENT AND IDENTITY DELIVERY SYSTEM FOR
PORTABLE PLAYBACK OF CONTENT AND STREAMING
SERVICE INTEGRATION

Examiner : Brian L. Olion
Art Unit : 2439
Docket No. : MDIP-1-2405
Date : December 18, 2013

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

AMENDMENT

Commissioner for Patents:

In response to the Office Action dated September 18, 2013, please amend the application as follows:

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

Remarks begin on page 6 of this paper.

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of delivering content by integrating a kiosk delivery system with a streaming service, the method comprising:

transferring content from a kiosk to a flash media device; and

transferring user service information, including user account information for one or more account based streaming services, from the kiosk to the flash media device, wherein responsive to the flash media device being connected to a playback device connected to a network, the user service information enables access to ~~a~~ at least one of the one or more streaming services to stream a higher quality version of the content to the playback device.

2. (Currently Amended) The method of claim 1, wherein the ~~user service information comprises~~ user account information for the each streaming service comprises an account identifier and login information.

3. (Currently Amended) The method of claim ~~2~~ 1, wherein user service information includes information necessary to access a streaming service for delivery of content over a network.

4. (Original) The method of claim 1, wherein the content transfer can occur without removing the flash media device from a device containing the flash media device.

5. (Original) The method of claim 1, wherein the content transfer can occur by removing the flash media device from a device containing the flash media device.

6. (Original) The method of claim 1, wherein the user service information is received from a user device.

7. (Original) The method of claim 1, wherein the user service information is received through a website.

8. (Original) The method of claim 1, wherein the user service information is received from a data feed from a provider of the streaming service.

9. (Original) The method of claim 1, wherein the higher quality version of the content is a high definition version of standard definition content transferred from the kiosk to the flash media device.

10. (Original) The method of claim 1, wherein users can register for the streaming service at the kiosk.

11. (Original) The method of claim 1, wherein users may update user service information via the kiosk.

12. (Currently Amended) A method of operating a playback device to automatically play back content from either a flash media device or a streaming service depending upon playback circumstances, the method comprising:

receiving user service information, including user account information for an account based digital media content streaming service, from a connected flash media device, wherein the user service information enables access to a~~the~~ streaming service;

responsive to the user service information being unrecognized by the playback device, playing back the content from the flash media device; and

responsive to the user service information being recognized by the playback device:

responsive to the playback device not being connected to a network,
playing back the content from the flash media device; and

responsive to the playback device being connected to a network, accessing
the streaming service using the user service information, ~~and~~by:

responsive to a speed of the connection not meeting a threshold for
streaming digital content, playing back the content from the flash media device; and

responsive to the speed of the connection meeting the threshold for
streaming digital content, streaming the content from the streaming service.

13. (Original) The method of claim 12, wherein streaming the content
from the streaming service comprises streaming the content in high definition, and wherein the
content on the flash media device is standard definition.

14. (Original) The method of claim 12, wherein accessing the streaming
service using the user service information comprises automatically logging the user into the
streaming service.

15. (Original) The method of claim 12, wherein the threshold is a lower
limit on speed consistent with avoiding service interruptions.

16. (Original) The method of claim 12, wherein a flash media device can
be transferred between playback devices.

17. (Withdrawn) A method of resuming playback, the method comprising:
responsive to having a first resume point for content played from a flash media
device and a second resume point for the content from a streaming service:
determining which of the first or second resume points is more recent; and
beginning playback of the content from the more recent resume point.

18. (Withdrawn) The method of claim 17, wherein a resume point is the point in the playback of the content where play is desired to be resumed.

19. (Withdrawn) The method of claim 17, wherein a resume point is recorded based on elapsed time from a beginning of the content.

20. (Withdrawn) The method of claim 17, further comprising synchronizing the first and second resume points.

REMARKS

Claims 1-16 are currently pending in this application. Claims 17-20 have been withdrawn from a prior restriction requirement. Applicant has amended claims 1, 2, 3, and 12 to clarify that the user service information stored on the flash media device is user account information that enables access to one or more account based (digital content) streaming services and to address minor typographical and stylistic issues. No new matter has been introduced by way of these amendments. For example, support for these amendments may be found in Applicant's Specification (hereinafter "Spec.") at least in paragraphs [0004], [0013], [0017]-[0018], and [0042]-[0043] and the claims as originally presented.

35 U.S.C. § 103 Rejections

The Examiner has rejected claims 1-11 under 35 U.S.C § 103(a) as allegedly being obvious over U.S Patent Application Publication No. 2004/0254940 issued to Brush ("Brush"), and further in view of U.S. Patent Application Publication No. 2005/0025465 issued to Danieli ("Danieli"). The Examiner has also rejected claims 12, 13, 14 and 16 under pre-AIA 35 U.S.C § 103(a) as allegedly being obvious over Danieli, and further in view of Brush and U.S. Patent Application Publication No. 2008/0205291 issued to Li ("Li"); and claim 15 as allegedly being obvious over Danieli, Brush and Li as applied above, and further in view of U.S. Patent Application Publication No. 2005/0190782 issued to Buckley ("Buckley").

Applicant respectfully traverses all these rejections for the reasons discussed in detail below with respect to both the original and amended claims as indicated.

In essence, the Examiner is asserting that the time and date stamps placed into the DVD content in Brush and the programmatic data placed into the A/V DVD content in Danieli equate to the user service information stored on the flash media device of Applicant's claims. Further, since Danieli teaches the ability to playback a video in high definition format using this programmatic data, therefore it equates to Applicant's recited "wherein ... the user service information enables access to a streaming service to stream a higher quality version of the content to the playback device" of claim 1 and the "wherein the user service information enables access to a streaming service" of claim 12.

However, the Examiner's reasoning and use of these references, even before amendment, is missing several elements recited by Applicant's claims, and thus the Examiner has not made out a *prima facie* case sufficient to shift the burden to produce evidence of non-obviousness to the Applicant.

In particular, even though it is presumed that the Examiner is using a broadest *reasonable* interpretation standard to interpret the phrase "user service information," not just any information will even meet this standard. Also, contrary to the Examiner's apparent assertions, not all playback, even if providing an "enhanced format," equates to a "streaming service" as recited by Applicant's claims. First, under M.P.E.P. §2111, "[d]uring patent examination, the pending claims must be 'given their broadest reasonable interpretation *consistent with the specification*'" (emphasis added). Moreover, a "broadest reasonable interpretation of the claims must also be consistent with the interpretation that those skilled in the art would reach." (*Id.*) If not, the Examiner has not asserted a *prima facie* case of obviousness sufficient to shift any burden for providing evidence otherwise to the Applicant.

Here, the Specification clearly explains that a streaming service is one that allows the user to stream digital (audio/video) content using an account (typically with a user identification and login information). As stated,

[0004] Another method of distributing digital media content is through streaming services. The user connects a playback device, such as a computer or a set-top box to the Internet, selects digital media content available through the *streaming service for which the user has an account*, and the content is streamed to the user's playback device

(Emphasis added.) Further, it is well-known by someone of ordinary skill in the art, that "streaming" refers to the ability to download data in a manner that the data can be potentially displayed before the entire file has been transmitted. A streaming service is a *service* that provides streaming. Applicant is pleased to provide the Examiner with background information if needed.

In addition, the Specification describes that "user service information 1101 ... [is] obtained during a user registration process in order to line the content and streaming services together." (Spec., para. [0016].) Further in "some embodiments, the user service information 1101 includes a user's account information with streaming service providers 150, such as an

individual account identifier and a password or other login information.” (Spec., para. [0017].) Thus, it is clear from a general reading of Applicant’s Specification that the user service information is information used to be able to access an account of the user for the streaming service.

Accordingly, it is improper to assert that DRM information (generally), time and date information (as described by Brush), and or programmatic information (as described by Danieli) somehow equates to user service information and/or provides a “streaming service” as recited by Applicant’s claims. (See Office Action, dated September 18, 2013, p. 3 and 8, hereinafter “Office Action.”) First of all, DRM and time and date information are not *user* related – they are content related as used in the cited references. Second, Brush, contrary to the Examiner’s statements, does not describe DRM information. Rather, paragraphs 27 and 44 of Brush describe a time and date which may be copied onto the DVD to assist in erasing the stored data after the prescribed time (consistent with the rental model they are working within). (Brush, para. 27.) Third, the programmatic data stored with a DVD in Danieli is not related at all to the user – only to the content. The programmatic data, along with the set of instructions, stored on the DVD are used to provide “a variety of enhanced functionality for AV content playback.” There appears nothing in Danieli that relates this information to a particular *user*, only to a particular DVD. Thus, this is not “user service information” as described by Applicant’s Specification or as used by someone of ordinary skill in the art.

Therefore, as the “user service information” and the “streaming service” are not shown by Brush, Danieli, Li, or any of the other references, alone or in any motivate combination, the Examiner has not put forth a *prima facie* case. Nor do these references render obvious Applicant’s claims because one or more elements (as described above) are missing.

In addition, just for the sake of completeness of argument, Applicant maintains that even if someone were to combine Brush and Danieli (or with Li), Applicant’s recited claims would not result. In particular, Brush describes a standard Kiosk DVD distribution system. It is not a distribution system to flash media. Thus, it also does not describe playback of content from a flash media device. Danieli describes playback from a DVD without modification when the player “does not understand the programmatic data or the set of instructions” or enhanced playback “on a DVD player that does understand the programmatic data or the set of

instructions.” (Danieli, para. [0028].) This is not the same as playback of content from a flash media device “responsive to the user service information being unrecognized” (since the programmatic data cannot be equated to the user service information as shown above) and when “not being connected to a network” and when “not meeting a threshold for streaming.” These aspects – even when the references in their entireties are taken together are simply not present in the references. Danieli simply does not describe being connected to a network to stream HD content. Moreover, even if it did (which it doesn’t), there is nothing in the references short of improper hindsight using Applicant’s claims that describes the desirability or capability to either play from a flash device or stream from a network (automatically) based upon user service information.

The Examiner is not free to fill gaps in either Brush or Danieli with hindsight using Applicant’s claims as a template. *Mintz v. Dietz & Watson, Inc.*, 679 F.3d 1372, 1377 (Fed. Cir. 2012) (“The district court has used the invention to define the problem that the invention solves.”); *In re Fine*, 837 F.2d 1071, 1075 (Fed. Cir. 1988) (warning against “the insidious effect of a hindsight syndrome wherein that which only the inventor taught is used against its teacher”); *see also*, MPEP 2142 (“impermissible hindsight must be avoided and the legal conclusion must be reached on the basis of the facts gleaned from the prior art,” emphasis added).

Nevertheless, to further prosecution, Applicant is using the opportunity in this response to a Non-Final Office Action to amend the claims to insure that the Examiner cannot read an improper definition into “user service information” or “streaming.” In particular, Applicant has amended claim 1 (and dependent claims 2-11 by virtue of their dependencies) to recite:

transferring *user service information, including user account information for one or more account based streaming services*, from the kiosk to the flash media device, wherein responsive to the flash media device being connected to a playback device connected to a network, *the user service information enables access to at least one of the one or more streaming services* to stream a higher quality version of the content to the playback device

(Emphasis Added.)

In addition, Applicant has amended claim 12 (and dependent claims 13-16 by virtue of their dependencies) to recite,

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receiving *user service information, including user account information for an account based digital media content streaming service*, from a connected flash media device, *wherein the user service information enables access to the streaming service*

(Emphasis Added.)

As discussed, user service information that has account information to access streaming services is not addressed in any manner by Brush, Danieli, Li, or by Buckley, alone or in any combination. Accordingly, the cited references do not teach, motivate or suggest one or more aspects of the independent claims; and thus claims 1-16 are not rendered obvious.

Dependent Claims

As discussed above, all of the dependent claims are not anticipated or rendered obvious for at least the reasons described above with respect to the independent claims. Additional arguments for a variety of the other dependent claims are not addressed in more detail herein. Accordingly, Applicant notes for the record that all such assertions are traversed and reserves the right to further present arguments regarding the Examiner's statements about what is known in the art or taught by the cited references at a later time, should such become necessary. Specifically, no waiver (legal, factual, or otherwise), implicit or explicit, is hereby intended.

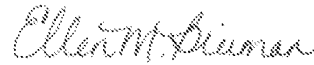
Conclusion

Based upon the above remarks, Applicant respectfully submits that all of the pending claims are allowable and respectfully requests the Examiner to enter these amendments and to reconsider this application and its timely allowance. The Director is authorized to charge any additional fees due by way of this Amendment, or credit any overpayment, to our Deposit Account No. 50-1050. In the event the Examiner disagrees with Applicant or finds minor informalities, Applicant respectfully requests a telephone interview to discuss any issues and to

Application No. 13/004,806
Reply to Office Action dated September 18, 2013

expeditiously resolve prosecution of this application. Again, Applicant's representative thanks the Examiner for his prompt and courteous attention.

LOWE GRAHAM JONES ^{PLLC}



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Electronic Acknowledgement Receipt	
EFS ID:	17690087
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	25315
Filer:	Ellen M Bierman
Filer Authorized By:	
Attorney Docket Number:	MDIP-1-2405
Receipt Date:	18-DEC-2013
Filing Date:	11-JAN-2011
Time Stamp:	05:24:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		MDIP-1-2405AM01.pdf	366614	yes	11
			359cb46daebdaa73ae6f30e37975c490222f505		

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	5
	Applicant Arguments/Remarks Made in an Amendment	6	11
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PATENT APPLICATION FEE DETERMINATION RECORD				Application or Docket Number		Filing Date		☐ To be Mailed	
Substitute for Form PTO-875				13/004,806		01/11/2011			
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR	NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A					
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		X \$ =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		X \$ =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL					
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	12/18/2013	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X \$80 =		0	
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X \$420 =		0	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
TOTAL ADD'L FEE						0			
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =			
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
TOTAL ADD'L FEE									
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	
	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	7809888	B1	2010-10-05	Clark et al.	
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20060200415	A1	2006-09-07	Lu	
	2	20060224519	A1	2006-10-05	Ahn	
	3	20060239650	A1	2006-10-26	Heredia et al.	
	4	20070219921	A1	2007-09-20	Lee	
	5	20080176540	A1	2008-07-24	Khedouri et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	
	Filing Date		2011-01-11	
	First Named Inventor		David W. Hostetter	
	Art Unit		2439	
	Examiner Name		Brian L. Olion	
	Attorney Docket Number		MDIP-1-2405	

	6	20080270796	A1	2008-09-18	Tagawa et al.	
	7	20090086978	A1	2009-04-02	McAvoy et al.	
	8	20090150487	A1	2009-06-11	Wolfish et al.	
	9	20100023689	A1	2010-01-28	Kim	
	10	20100280953	A1	2010-11-04	Kitazato	
	11	20100287609	A1	2010-11-11	Gonzalez et al.	
	12	20110009051	A1	2011-01-13	Khedouri et al.	
	13	20110225417	A1	2011-09-15	Maharajh et al.	
	14	20110289137	A1	2011-11-24	Ittah et al.	
	15	20120072713	A1	2012-03-22	Begum et al.	
	16	20120233447	A1	2012-09-13	Fitzgerald	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	
	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

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	1	GUOFEI, ET AL. "PLI: A New Framework to Protect Digital Content for P2P Networks," Year 2003; Microsoft Research Asia, Beijing 100080, China; PP: 1-12.	☐

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EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13004806
	Filing Date	2011-01-11
	First Named Inventor	David W. Hostetter
	Art Unit	2439
	Examiner Name	Brian L. Olion
	Attorney Docket Number	MDIP-1-2405

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☐ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Ellen M. Bierman/	Date (YYYY-MM-DD)	2014-03-10
Name/Print	Ellen M. Bierman	Registration Number	38079

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The 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.
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		13004806		
Filing Date:		11-Jan-2011		
Title of Invention:		Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration		
First Named Inventor/Applicant Name:		David W. Hostetter		
Filer:		Ellen M Bierman/Jessica Bukowski		
Attorney Docket Number:		MDIP-1-2405		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
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:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt	
EFS ID:	18422874
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	25315
Filer:	Ellen M Bierman/Jessica Bukowski
Filer Authorized By:	Ellen M Bierman
Attorney Docket Number:	MDIP-1-2405
Receipt Date:	10-MAR-2014
Filing Date:	11-JAN-2011
Time Stamp:	17:07:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Electronic Funds Transfer
Payment was successfully received in RAM	\$180
RAM confirmation Number	4673
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Information Disclosure Statement (IDS) Form (SB08)	MDIP-1-2405IDS03.pdf	613001	no	5
			4bb99661259ca13c24cb4a3ea4848fda50f1d4f		
Warnings:					
Information:					
2	Non Patent Literature	Guofei.pdf	494365	no	12
			e2b67d7b7073c8682d687ca6599cb8b511dc2c51		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30236	no	2
			d6e1820da0e8f3836cc4df036a8ac5df7ee2ae30		
Warnings:					
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Total Files Size (in bytes):			1137602		
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405	1203
25315 7590 03/26/2014 LOWE GRAHAM JONES, PLLC 701 FIFTH AVENUE SUITE 4800 SEATTLE, WA 98104			EXAMINER OLION, BRIAN L	
			ART UNIT 2439	PAPER NUMBER
			NOTIFICATION DATE 03/26/2014	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocketing@lowegrahamjones.com
docketing-patent@lowegrahamjones.com

Office Action Summary	Application No. 13/004,806	Applicant(s) HOSTETTER ET AL.	
	Examiner BRIAN OLION	Art Unit 2439	AIA (First Inventor to File) Status No

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 12/18/2013.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-16 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-16 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 1/11/2011 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- | | |
|---|---|
| 1) ☒ Notice of References Cited (PTO-892) | 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date <u>9/10/2013</u> . | 4) ☐ Other: ____. |

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.
2. This Office Action is in response to claims filed on 12/18/2013
3. Claims 1-16 are pending. This Action is a Final.

Response to Arguments

4. Applicant's arguments with respect to claims 1-16 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection. Rejection now recites Reference Dean teaches of the amended limitations. Reference Brush discloses downloading movie content as well as DRM for that content. Reference Dean discloses that DRM for content can include a received password, wherein the user then submits that password with a request to stream data. Based on the password sent with the request it is determined if the user has streaming rights for content.

Claim Rejections - 35 USC § 103

5. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. Claim 1 -11 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Brush USPN 2004/0254940, and further in view of Danieli USPN 2005/0025465 and Dean USPN 6,223,292

As per claim 1, Brush teaches A method of delivering content by integrating a kiosk delivery system with a streaming service, the method comprising:
transferring content from a kiosk to a flash media device (**Brush Par 30, the memory card can take digital media information from the kiosk. Par 26 the media card may be a flash card**); and
transferring user service information from the kiosk to the flash media device (**Brush Par 27, 44, there can be other information downloaded from the kiosk such as digital rights information which govern the type of service/playability of the file**),

Brush doesn't teach wherein responsive to the flash media device being connected to a playback device connected to a network, the user service information enables access to at least one of the one or more streaming services to stream a higher quality version of the content to the playback device

However, in an analogous art Danieli teaches wherein responsive to the flash media device being connected to a playback device connected to a network, the user service information enables access to at least one of the one or more streaming services to stream a higher quality version of the content to the playback device (**Danieli Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the playback device to process programmatic data associated with the AV content. Par 16, the standard version of a piece of content is stored on the medium, and programmatic data is stored in a network server. Par 20 and 44, the instructions allow the DVD player to enhance the quality of the DVD by streaming HD content.)**

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the ability to stream HD version of content as taught by Danieli in order to expend the functionality of standard content and it allows a medium to store less data physically (Danieli Par 3-5 and related text)

Brush nor Danieli discloses the user service information, including a user account information for one or more account based streaming services

However, in an analogous art, Dean teaches discloses the user service information, including a user account information for one or more account based streaming services **(Dean Fig 10, Col. 8 lines 24-55, client has obtains a password (i.e. included in the DRM as taught by Brush), this password enables him to have a particular streaming service. The password identifies the user account as well as the service type associated with the user account.)**

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement a received password as taught by Dean in order to determine what type of streaming service the user is entitled to (Dean Abstract and col. 1 lines 20-45)

As per claim 2, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein the user account information for each streaming service comprises an account identifier and login information user account information for the streaming service. **(Dean Fig 10, Col. 8 lines 24-55, client has obtains a password (i.e. included in the DRM as taught by Brush), this password enables him to have a particular streaming service. The password identifies the user account as well as the service type associated with the user account.)**

As per claim 3, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein user service information includes information necessary to access a streaming service for delivery of content over a network. **((Dean Fig 10, Col. 8 lines 24-55, client has obtains a password (i.e. included in the DRM as taught by Brush), this password enables him to have a particular streaming service. The password identifies the user account as well as the service type associated with the user account.))**

As per claim 4, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein the content transfer can occur without removing the flash media device from a device containing the flash media device. **(Brush Par 40, the flash media device can download through the kiosk via a computer (i.e. without removing the flash media device from a device)**

As per claim 5, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein the content transfer can occur by removing the flash media device from a device containing the flash media device. **(Brush Par 38, the flash media device can be standalone (i.e. removed from playback device) and inserted into the kiosk to complete the content transfer)**

As per claim 6, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein the user service information is received from a user device **(Brush Par**

40, the flash media device can download through the kiosk via a computer (i.e. without removing the flash media device from a device. This includes the digital rights information as described in Par 27 and 44).

As per claim 7, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein the user service information is received through a website **(Brush Par 38 and related text, the kiosk is connected to the internet in order to determine what movies are stored on its website. The user can use an interface (i.e. website) in order to purchase and download content that includes playable content and digital rights as described in Par 27 and 44.)**

As per claim 8, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein the user service information is received from a data feed from a provider of the streaming service. **(Danieli Par 20 the set of instructions define the particular enhanced functionality the user is allowed. These instructions are provided with the content by the content provider. The examiner equates the set of instructions as user service information because it details what the user is allowed to access which is similar to the DRM rights as described by Brush)**

As per claim 9, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein the higher quality version of the content is a high definition version of standard definition content transferred from the kiosk to the flash media device. **(Danieli**

Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the playback device to process programmatic data associated with the AV content. Par 16, the standard version of a piece of content is stored on the medium, and programmatic data is stored in a network server. Par 20 and 44, the instructions allow the DVD player to enhance the quality of the DVD by streaming HD content.)

As per claim 10, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein users can register for the streaming service at the kiosk. **(Brush Par 30, the memory card can take digital media information from the kiosk. By buying the content the user is signing up for the potential to have an enhanced streaming version of that same movie as taught by Danieli);**

As per claim 11, the combination of Brush-Danieli-Dean teaches The method of claim 1, wherein users may update user service information via the kiosk. **(Brush Par 30, the memory card can take digital media information from the kiosk. The user is allowed to update the movies which he wishes to have access to (i.e. update user service information));**

8. Claims 12, 13, 14 and 16 rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Danieli US 2005/0025465, in view of Brush US 2004/0254940, Li US 2008/0205291, and Dean US 6,223,292.

As per claim 12, Danieli teaches A method of operating a playback device to automatically playback content from either a flash media device or a streaming service depending upon playback circumstances, the method comprising: receiving user service information from a [connected flash media device], wherein the user service information enables access to a streaming service **(Danieli Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the playback device to process programmatic data associated with the AV content. Par 16, the standard version of a piece of content is stored on the medium, and programmatic data is stored in a network server. Par 20 and 44, the instructions allow the DVD player to enhance the quality of the DVD by streaming HD content.);**

Danieli does not teach of a flash media device. **However, in analogous, Brush teaches** of a flash media device **(Brush Par 30, the memory card can take digital media information from the kiosk. Par 26 the media card may be a flash card);**

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement a flash media device as taught by Brush in order allow

manufacturers to not use DVD's which saves them cost when distributing media (Brush Par 0007)

responsive to the user service information being unrecognized by the playback device, playing back the content from the flash media device; responsive to the user service information being recognized by the playback device: responsive to the playback device not being connected to a network, playing back the content from the flash media device **(Danieli Par 28, if the DVD player does not understand the programmatic data then the standard AV data is played from the DVD. However, if the DVD player does understand the programmatic data then the enhanced functionality is made available to the user)**

and responsive to the playback device being connected to a network, accessing the streaming service using the user service information, **(Danieli Par 20 and 44, the instructions allow the DVD player to enhance the quality of the DVD by streaming HD content from a remote server.);**

Danieli-Brush doesn't teach, and: responsive to a speed of the connection not meeting a threshold for streaming, playing back the content from the flash media device; and responsive to the speed of the connection meeting the threshold for streaming, streaming the content from the streaming service

However, in analogous art, Li teaches and: responsive to a speed of the connection not meeting a threshold for streaming, playing back the content from the flash media device; and responsive to the speed of the connection meeting the threshold for streaming, streaming the content from the streaming service. **(Li Par 64, there is a minimum bandwidth a device needs to stream media content at certain resolutions. If the minimum bandwidth is met then the device is allowed to stream at its encoded resolution)**

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement a bandwidth requirement as taught by Li in order to successfully stream videos at a desired resolution (Li Par 62-67)

Danieli, Bush, nor Li teaches including user account information for an account based digital media content streaming service **However, in an analogous art Dean teaches** including user account information for an account based digital media content streaming service **(Dean Fig 10, Col. 8 lines 24-55, client has obtains a password (i.e. included in the DRM as taught by Brush), this password enables him to have a particular streaming service. The password identifies the user account as well as the service type associated with the user account.)**

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement a received password as taught by Dean in order to determine what type of streaming service the user is entitled to (Dean Abstract and col. 1 lines 20-45)

As per claim 13, the combination of Danieli-Brush-Li-Dean teaches The method of claim 12, wherein streaming the content from the streaming service comprises streaming the content in high definition, and wherein the content on the flash media device is standard definition **(Danieli Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the playback device to process programmatic data associated with the AV content. Par 16, the standard version of a piece of content is stored on the medium, and programmatic data is stored in a network server. Par 20 and 44, the instructions allow the DVD player to enhance the quality of the DVD by streaming HD content.)**.

As per claim 14, the combination of Danieli-Brush-Li-Dean teaches The method of claim 12, wherein accessing the streaming service using the user service information comprises automatically logging the user into the streaming service. **(Danieli Par 13-16, a medium (i.e. the memory card as described by Brush) has AV data as well as a set of instructions stored is connected to a medium playback apparatus. The set of instructions cause the playback device to process programmatic data associated with the AV content. The playback device automatically recognizes the instructions thus automatically logging the user into the streaming service)**.

As per claim 16, the combination of Danieli-Brush-Li-Dean teaches The method of claim 12, wherein a flash media device can be transferred between playback devices.
(Brush Par 38-41, the flash media device can be input into multiple devices)

9. Claim 15 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Danieli, Brush, Li, and Dean as applied to claim 15 above, and further in view of Buckley USPN 20050190782.

As per claim 15, the combination of Danieli-Brush-Li-Dean teaches The method of claim 12, **the combination doesn't teach**, wherein the threshold is a lower limit on speed consistent with avoiding service interruptions **but Buckley teaches** wherein the threshold is a lower limit on speed consistent with avoiding service interruptions.
(Buckley Par 58, the bandwidth requirements are for maintaining a certain quality of service standards)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement a bandwidth requirement as taught by Buckley in order to not have a disruption in the service (Buckley Par 58)

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wendling USPN 2011/0078722 (Par 002) – There is a DVD medium that allows a user to stream a high definition version of the DVD, but date is not prior to applicants effective filing date.

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN OLION whose telephone number is (571)270-3353. The examiner can normally be reached on Monday – Friday 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Luu Pham can be reached on 571-270-5002. 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.

/BRIAN OLION/
Examiner, Art Unit 2439

/LUU PHAM/
Supervisory Patent Examiner, Art Unit 2439

Notice of References Cited	Application/Control No. 13/004,806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.	
	Examiner BRIAN OLION	Art Unit 2439	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,223,292	04-2001	Dean et al.	726/28
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"20040254940"	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/18 10:16
L2	16210	(H04L63/0428.cpc. or H04L67/06.cpc. or H04L67/1008.cpc.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/18 10:17
L3	37	(H04L63/0428.cpc. or H04L67/06.cpc. or H04L67/1008.cpc.) and (password or log\$1in or username) near10 (terminal or computer or kiosk) near5 (memory card or usb or stick or phone)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/18 10:18
L4	0	(H04L63/0428.cpc. or H04L67/06.cpc. or H04L67/1008.cpc.) and (password or log\$1in or username) with (kiosk) with (memory card or flash device)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/18 10:18
S1	21	(creat\$5 or generat\$5) near5 (key) with (counter or register) with index\$5 with (random or select\$5 or chos\$5 or choos\$5 or pick\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 16:04
S2	272	(cloud) with (encrypt\$5 and decrypt\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 16:05
S3	146	(cloud) with (encrypt\$5 and decrypt\$5) with (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 16:05
S4	1	"13555167"	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 16:48
S5	10	(cloud) with (generat\$5) with (encrypt\$5 and decrypt\$5) with (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 20:28
S6	246	(server) with (generat\$5) with (encrypt\$5 and decrypt\$5) with (key) and (remot\$5) near5 (encrypt\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 20:46
S7	108	(server or data\$1base) near3 (generat\$5) with (encrypt\$5 and decrypt\$5) with (key) and (remot\$5) near5 (encrypt\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 20:47
S8	0	(server or data\$1base) near3 (generat\$5) with (encrypt\$5 and decrypt\$5) with (key) and (server) near2 (encrypt\$5) and (sever) near2 (delet\$5 or purge or	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 20:58

		remov\$5) near5 (key)				
S9	34	(server or data\$1base) near3 (generat\$5) with (encrypt\$5 and decrypt\$5) with (key) and (server or data\$1base) near2 (encrypt\$5) and (server or data\$1base) near2 (delet\$5 or purge or remov\$5) near5 (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 20:59
S10	31	(server or data\$1base) near3 (generat\$5) near5 (encrypt\$5 and decrypt\$5) near5 (key) and (remot\$5) near5 (encrypt\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 21:11
S11	27	(cloud) near5 (perform) near5 (encrypt\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/06 21:44
S12	558	(client) with (transmit\$5 or send\$5) near5 (key) with (server) near2 (encrypt\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 00:31
S13	122	(client) with (transmit\$5 or send\$5) near5 (key) with (server) near2 (encrypt\$5) near2 (file or data)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 09:49
S14	154	(client) with (transmit\$5 or send\$5) near5 (key) near4 (server) near2 (encrypt\$5) near2 (file or data)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 10:08
S15	29	(client or user) with (transmit\$5 or send\$5 or submit\$5) near3 (key) with (remote) near2 (encrypt\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 10:25
S16	24	(client or user) with (transmit\$5 or send\$5 or submit\$5) near3 (key) and (offload) near2 (encrypt\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 10:39
S17	5068	(data\$1base or server) near7 (creat\$5 or generat\$5) near3 (key) and (data\$1base or server) near7 (send\$5 or transmit\$5) near2 (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 12:20
S18	346	(data\$1base or server) near7 (creat\$5 or generat\$5) near3 (key) and (data\$1base or server) near7 (send\$5 or transmit\$5) near2 (key) and (data\$1base or server) near2 (encrypt) near2 (content or file or data)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 12:26
S19	4	(client or user) near5 (upload) near5 (raw or unencrypt\$5 or plaintext) near5 (cloud or server or data\$1base or remote) and (server or cloud or data\$1base) near5 (generat\$5 or creat\$5) near2 (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 12:42
S20	1	"20080235521"	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 13:14
S21	5	(upload) near5 (raw or unencrypt\$5 or plaintext) near5 (cloud or server or data\$1base or remote) and (server or cloud or data\$1base) near5 (generat\$5 or creat\$5) near2 (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 13:23

S22	155	(upload or transmit\$5 or send\$5 or submit\$5) near5 (raw or unencrypt\$5 or plaintext) near5 (cloud or server or data\$1base or remote) and (server or cloud or data\$1base) near5 (generat\$5 or creat\$5) near2 (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 13:25
S23	93	(upload or receiv\$5) near5 (raw or unencrypt\$5 or plaintext) near5 (cloud or server or data\$1base or remote) and (server or cloud or data\$1base) near5 (generat\$5 or creat\$5) near2 (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 13:36
S24	0	(cell\$5 near5 network) and (bandwidth) near2 (regulation) with (coverage)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 15:51
S25	64989	(cell\$5 near5 network) and (bandwidth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 15:52
S26	72	(cell\$5 near5 network) and (adjust or chang\$5) near5 (bandwidth) with (area)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 15:53
S27	16	(cell\$5 near5 network) and (adjust or chang\$5) near5 (bandwidth) and (monitor) near5 (resolut\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 16:08
S28	658	(cell\$5 near5 network) and (security near2 threat) and (policy)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 16:23
S29	160	(cell\$5 near5 network) and (security near2 threat) and (policy or rule) near5 (change)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 16:24
S30	1	"20060037075"	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 16:30
S31	160	(cell\$5 near5 network) and (security near2 threat) and (collect\$5 near2 communication or information or data) and (policy or rule) near5 (change)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 16:51
S32	108	(cell\$5 near5 network) and (security near2 threat) and (collect\$5 near2 (communication or information or data)) and (policy or rule) near5 (change)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 16:52
S33	3	(cell\$5 near5 network) and (security near2 threat) and (collect\$5 near2 (communication or information or data)) and (policy or rule) near5 (change) and (coverage near5 (area))	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 16:55
S34	14	(cell\$5 or basestation) and (security near2 threat) and (collect\$5 near2 (communication or information or data)) and (policy or rule) near5 (change) and (coverage near5 (area))	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 18:57
S35	176	(cell\$5 or basestation) and (quality of service or (QoS)) and (collect\$5 near2	US-PGPUB;	ADJ	ON	2014/03/07 19:01

		(communication or information or data) and (policy or rule) near5 (change) and (coverage near5 (area))	USPAT; USOCR			
S36	163	(cell\$5 or basestation) and (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data) and (policy or rule) near5 (change) and (coverage near5 (area)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth)))	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 19:04
S37	152	(cell\$5 or basestation) and (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data) and (policy or rule) near5 (change) and (coverage near5 (area)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth))) and (instrusion or security)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 19:06
S38	29	(cell\$5 or basestation) and (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data) and (policy or rule) near5 (change) and (coverage near5 (area)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth))) and (instrusion or security) and ("713".clas. or "726".clas. or "380".clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 19:07
S39	69	(cell\$5 or basestation) and (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data) and (policy or rule) near5 (change) and (coverage near5 (area)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth))) and (instrusion or security) and ("713".clas. or "726".clas. or "380".clas. or "709".clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 19:07
S40	6	((coverage or service) near2 area) with (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data) and (policy or rule) near5 (chang\$5 or updat\$5) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth))) and (instrusion or security) and ("713".clas. or "726".clas. or "380".clas. or "709".clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 20:17
S41	17	((coverage or service) near2 area) with (quality of service or (QoS)) and	US-PGPUB;	ADJ	ON	2014/03/07 20:18

		((collect\$5 near2 (communication or information or data)) and (policy or rule) near5 (chang\$5 or updat\$5) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth)))) and (instrusion or security)	USPAT; USOCR			
S42	1	"20060039333"	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 20:22
S43	70	((coverage or service) near2 area) with (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth)))) and (instrusion or security)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 20:24
S44	0	((coverage or service) near2 area) with (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth)))) and (cellular network) and ("713".clas. or "726.clas")	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 20:44
S45	1	((coverage or service) near2 area or base\$station or (access point)) with (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth)))) and (cellular network) and ("713".clas. or "726.clas")	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 20:44
S46	138	((coverage or service) near2 area or base\$station or (access point)) with (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth)))) and (cellular network)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 20:49
S47	99	((coverage or service) near2 area or base\$station or (access point)) with (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 20:52

		increas\$5 or chang\$5) near5 (bandwidth))) and (cellular network) and (threat or security or intrusion)				
S48	99	((coverage or service) near2 area or base\$station or (access point)) with (quality\$1of\$1service or (QoS)) and (collect\$5 near2 (communication or information or data)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth))) and (cellular network) and (threat or security or intrusion)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 20:57
S49	30	((coverage or service) near2 area or base\$station or (access point)) with (chang\$5 or updat\$5) near5 (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth))) and (collect\$5 near2 (communication or information or data)) and (cellular network) and (threat or security or intrusion)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 21:00
S50	1	"20030110392"	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 22:12
S51	1	"20060037075"	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 22:17
S52	1	"20060039333"	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 22:22
S53	0	quality of server with display with select	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 23:15
S54	0	quality of service with display with select	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 23:15
S55	0	(quality of service) with (display) with select	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 23:16
S56	0	(quality of service) with (display)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 23:16
S57	0	(quality of service) with (display) with (select)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 23:16
S58	41	(QoS) with (display) with (select)	US- PGPUB; USPAT;	ADJ	ON	2014/03/07 23:16

			USOCR			
S59	1	"20060075472"	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 23:38
S60	7	(H04L41/5067.cpc. or H04L63/1408.cpc. H04L63/20.cpc.) and (cell\$5 or basestation) and (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data)) and (policy or rule) near5 (change) and (coverage near5 (area)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth)))) and (instrusion or security)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 23:41
S61	7	(H04L41/5067.cpc. or H04L63/1408.cpc. H04L63/20.cpc.) and (quality of service or (QoS)) and (collect\$5 near2 (communication or information or data)) and (policy or rule) near5 (change) and (coverage near5 (area)) and (((number or quantity) near5 (message)) or ((quantity or number) near5 (users or mobile or phone)) or ((adjust or reduc\$5 or increas\$5 or chang\$5) near5 (bandwidth)))) and (instrusion or security)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/07 23:41
S62	86	(submit\$5 or transmit or send\$5) near3 (key) with (remot\$5 near2 encrypt\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/09 22:44
S63	0	(submit\$5 or transmit or send\$5) near3 (key) with (remot\$5 near2 encrypt\$5) with (delet\$5 or purg\$5) near3 (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/09 22:45
S64	239	(submit\$5 or transmit or send\$5) near3 (key) with (delet\$5 or purg\$5) near2 (key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/09 22:45
S65	2	"8,230,517"	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 09:54
S66	1	2011/0264920	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 10:05
S67	1	"20110264920"	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 10:07
S68	28	(number or amount) near2 (words) near7 (encrypt\$5 near2 key)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 10:26
S69	254	(number or amount) near2 (words) with (creat\$5 or generat\$5 or calculat\$5)	US-PGPUB;	ADJ	ON	2014/03/10 11:11

		near5 (key)	USPAT; USOCR			
S70	285	(number or amount) near2 (words or letters) with (generat\$5 or creat\$5 or calculat\$5) near3 (key)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 11:23
S71	18	(document or file) near2 (characterstics or length) near6 (encrypt\$5 near2 key)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 11:33
S72	14	(document or file) near2 (characterstics or length) near6 (creat\$5 or generat\$5 or calculat\$5) near3 key	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 11:38
S73	2	"8,230,517"	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 12:28
S74	796	(creat\$5 or generat\$5 or mak\$5) near5 ((key) with (characteristic or unique) near5 (document or file or content))	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 12:31
S75	372	(creat\$5 or generat\$5 or mak\$5) near5 ((key) with (characteristic or unique) near2 (document or file or content))	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 12:41
S76	20	(creat\$5 or generat\$5 or mak\$5) near5 ((key) with (characteristic) near2 (document or file or content))	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 12:43
S77	50	(counter) with (shift) with (generat\$5) near5 (key)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 13:26
S78	265	(generat\$5) near2 (key) and (initializ\$5 near2 counter) and probability and shift	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/10 13:55
S79	0	(transfer\$5 or upload\$5 or send\$5) with (account information near5 (streaming)) with (flash or memory card or usb or stick)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 13:24
S80	110	(transfer\$5 or upload\$5 or send\$5) with (account information) with (flash or memory card or usb or stick)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 13:52
S81	1668	(transfer\$5 or upload\$5 or send\$5) with (stream\$5) with (flash or memory card or usb or stick)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 13:53
S82	35	(transfer\$5 or upload\$5 or send\$5) with (stream\$5 near5 (credential or info or information or account or billing)) with (flash or memory card or usb or stick)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 13:56
S83	2097836	(transfer\$5 or upload\$5 or send\$5) with (stream\$5 near5 (credential or info or information or account or billing)) with (flash or memory card or usb or stick) and kiosk or store	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 13:57

S84	32	(transfer\$5 or upload\$5 or send\$5) with (stream\$5 near5 (credential or info or information or account or billing)) with (flash or memory card or usb or stick) and (kiosk or store)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 13:57
S85	28	(transfer\$5 or upload\$5 or send\$5) with (stream\$5 near5 (credential or info or information or account or billing)) with (flash or memory card or usb or stick) and (kiosk or store) and (movie or video)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 13:59
S86	0	(kiosk) near5 (transmit\$5 or download or upload or send\$5) near5 (stream\$5) near5 (account or information or info or data) with (flash or memory card or IC card or USB or thumb or portable)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:21
S87	0	(kiosk or (store near2 terminal)) near5 (transmit\$5 or download or upload or send\$5) near5 (stream\$5) near5 (account or information or info or data) with (flash or memory card or IC card or USB or thumb or portable)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:21
S88	35	(kiosk or (\terminal)) near5 (transmit\$5 or download or upload or send\$5) near5 (stream\$5) near5 (account or information or info or data) with (flash or memory card or IC card or USB or thumb or portable)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:22
S89	35	(kiosk or (terminal)) near5 (transmit\$5 or download or upload or send\$5) near5 (stream\$5) near5 (account or information or info or data) with (flash or memory card or IC card or USB or thumb or portable)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:22
S90	306	(purchase\$5) near5 (physical or download) near5 (content or movie) near5(stream\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:27
S91	1	(purchase\$5) near5 (physical or download) near5 (content or movie) with (ehanc\$5 or HD or high definition) near5 (stream\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:33
S92	25	(purchase\$5 or buy\$4 or access\$5) near5 (physical or download) near5 (content or movie or audio) with (ehanc\$5 or HD or high definition) near9 (stream\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:41
S93	0	(purchase\$5 or buy\$4) near5 (physical or download) near5 (content or movie or audio) with (ehanc\$5 or HD or high definition) near2 (version)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:44
S94	4	(purchase\$5 or buy\$4) near5 (physical or download) near5 (content or movie or audio) with (stream\$5 near5 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:44
S95	447	(physical or download) near5 (content or movie or audio) with (stream\$5 near5 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:46
S96	1	(physical or download) near5 (content or movie or audio) with (stream\$5 near5	US-PGPUB;	ADJ	ON	2014/03/11 14:47

		service) near5 (account or credentials)	USPAT; USOCR			
S97	1	(physical or download) near5 (content or movie or audio) with (stream\$5 near5 service) near10 (account or credentials)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:48
S98	28	(physical or download) near5 (content or movie or audio) with (stream\$5 near5 service) near10 (account or credentials or information)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 14:48
S99	0	(physical or download) near5 (content or movie or audio) with (stream\$5 near5 service) near10 (log\$1in)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 15:08
S100	4	(physical or download) near5 (content or movie or audio) with (stream\$5) near10 (log\$1in)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 15:08
S101	0	(register) near5 (kiosk) with (account or credential or log\$1in) with (stream\$5) near5 (service or movie or content or audio)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 15:12
S102	1	(kiosk) with (account or credential or log\$1in) with (stream\$5) near5 (service or movie or content or audio)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 15:12
S103	1	(kiosk or terminal or computer) near5 (transfer\$5 or send\$5) with (account or credential or log\$1in) with (stream\$5) near5 (service or movie or content or audio)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 15:13
S104	7	(kiosk or terminal or computer) near5 (transfer\$5 or send\$5) with (account or credential or log\$1in) with (stream\$5 or download) near5 (service or movie or content or audio)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 17:50
S105	0	(download\$5 or transfer\$5) near7 (account) with (memory card or IC card or flash or thumb) with (stream\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 18:23
S106	49	(download\$5 or transfer\$5) near7 (account or informat\$5) with (memory card or IC card or flash or thumb) and (stream\$5 near2 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 18:24
S107	1	(download\$5 or transfer\$5) near7 (account) with (memory card or IC card or flash or thumb) and (stream\$5 near2 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 18:25
S108	1	(download\$5 or transfer\$5) near7 (account or profile) with (memory card or IC card or flash or thumb) and (stream\$5 near2 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/11 18:32
S109	103	(account or profile) with (memory card or IC card or flash or thumb) and (stream\$5 near2 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 09:01
S110	10	(download or transfer) with (account or profile) with (memory card or IC card or flash or thumb) and (stream\$5 near2	US-PGPUB; USPAT;	ADJ	ON	2014/03/12 10:08

		service)	USOCR			
S111	7	(download or transfer) near6 (account or profile) with (memory card or IC card or flash or thumb) and ((video or audio) near5 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 10:13
S112	17	(download or transfer) near6 (account or profile or authenticat\$5 or credential) with (memory card or IC card or flash or thumb) and ((video or audio) near5 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 10:21
S113	584	(download or transfer) near6 (account or profile or authenticat\$5 or credential) near10 ((card) or external or IC card or flash or thumb) and ((video or audio) near5 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 10:31
S114	171	(download or transfer) near6 (account or profile or authenticat\$5 or credential) near10 ((card) or external or IC card or flash or thumb) and ((video or audio) near5 service) and (streaming)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 10:32
S115	163	(download or transfer or upload or download) near6 (account or profile or authenticat\$5 or credential) near10 ((card) or portable or removable or IC card or flash or thumb) and ((video or audio) near5 service) and (streaming)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 10:33
S116	58	(download or transfer or upload or download) near6 (account or profile or authenticat\$5 or credential) near10 ((memory card) or portable or removable or IC card or flash or thumb) and ((video or audio) near5 service) and (streaming)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 10:35
S117	4	(kiosk) with (download or transfer or upload or download) near6 (account or profile or authenticat\$5 or credential) near10 ((memory card) or portable or removable or IC card or flash or thumb)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 12:07
S119	168	(kiosk or terminal) with (download or transfer or upload or download) near6 (account or profile or authenticat\$5 or credential) near10 ((memory card) or portable or removable or IC card or flash or thumb)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 12:16
S120	140	(kiosk or terminal) with (download or transfer or upload or download) near6 (account or profile or authenticat\$5 or credential) near10 ((memory card) or portable or removable or flash or thumb)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:15
S121	10	(kiosk or terminal) with (download or transfer or upload or download) near6 (account or profile or authenticat\$5 or credential) near10 ((memory card) or removable or flash or thumb)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:16
S122	41	(POS) with (account or log\$in) with (memory device or memory card or thumb or USB)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:25
S123	1	"20040254940"	US-PGPUB; USPAT;	ADJ	ON	2014/03/12 13:34

			USOCR			
S124	0	(download) near5 (content) with (log\$1in or code) with (unlock) near5 (features of HD or high definition or ehance\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:39
S125	0	(download or receiv\$5) near5 (content or movie or file) with (log\$1in or code) with (unlock) near5 (features of HD or high definition or ehance\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:40
S126	2	(download or receiv\$5) near5 (content or movie or file) with (log\$1in or code) with (features of HD or high definition or ehance\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:40
S127	88	(content or movie or file) with (log\$1in or code) with (features of HD or high definition or ehance\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:41
S128	12	(content or movie or file) with (log\$1in or password or credential) with (features of HD or high definition or ehance\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:43
S129	0	(POS) near5 (creat\$5) near5 (credential or log\$1in or password) with (video or audio) near2 (service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:48
S130	0	(POS or (point of sale) or terminal) near5 (creat\$5) near5 (credential or log\$1in or password) with (video or audio) near2 (service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:50
S131	0	(POS or (point of sale) or terminal) with (creat\$5) near5 (credential or log\$1in or password) with (video or audio) near2 (service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:50
S132	0	(POS or (point of sale) or terminal) with (creat\$5 or generat\$5) near5 (credential or log\$1in or password) with (video or audio) near2 (service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:51
S133	148	(POS or (point of sale) or terminal) with (creat\$5 or generat\$5) near5 (credential or log\$1in or password) with (service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 13:51
S134	12849	(communicat\$5) near5 (multiple or two) near3 (servers)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 14:36
S135	429	(server) near5 (query) near5 (relational database)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 14:39
S136	17	(application server) near5 (query) near5 (relational database)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 15:03
S137	45	"5,778,365"	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/12 15:12
S138	1	"20120173625"	US-	ADJ	ON	2014/03/12

			PGPUB; USPAT; USOCR			15:56
S139	14	(send\$5 or transmit\$5) near5 (token) near10 (bind)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 18:42
S140	165	(send\$5 or transmit\$5) near5 (token) near10 (private near2 key)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 18:46
S141	42	(send\$5 or transmit\$5) near5 (token) with (receiv\$5) near5 (token) and (bind) near10 (token)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 19:00
S142	29	(send\$5 or transmit\$5) near5 (token) with (receiv\$5) near5 (token) and (private key) near10 (token) and (mutual authenticat\$5)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 19:25
S143	823	(send\$5 or transmit\$5) near5 (encrypt\$5) near5 (number or challenge or token) and (receiv\$5) near5 (decrypt\$5) near5 (number or challenge or token)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 19:37
S144	197	(send\$5 or transmit\$5) near5 (encrypt\$5) near5 (number or challenge or token) and (receiv\$5) near5 (decrypt\$5) near5 (number or challenge or token) near6 (send\$5 or transmit\$5)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 19:40
S145	1	(send\$5 or transmit\$5) near5 (encrypt\$5) near5 (number or challenge or token) and (receiv\$5) near5 (decrypt\$5) near5 (number or challenge or token) near6 (send\$5 or transmit\$5) and (request) near5 (permit)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 19:48
S146	2	(send\$5 or transmit\$5) near5 (encrypt\$5) near5 (number or challenge or token) and (receiv\$5) near5 (decrypt\$5) near5 (number or challenge or token) near6 (send\$5 or transmit\$5) and (request) near5 (license)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 19:51
S147	33	(sender or client) near5 (encrypt\$5) near5 (number or challenge or token) and (receiv\$5) near5 (decrypt\$5) near5 (number or challenge or token) near6 (send\$5 or transmit\$5)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 20:05
S148	0	(sender or client) near5 (encrypt\$5) near5 (number or challenge or token) and (receiv\$5) near5 (decrypt\$5) near5 (number or challenge or token) near6 (send\$5 or transmit\$5) and (mutual authenticat\$5)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 20:27
S149	10	(sender or client) near5 (private near2 key) near5 (number or challenge or token) and (receiv\$5) near5 (decrypt\$5) near5 (number or challenge or token) and (mutual authenticat\$5)	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 20:28
S150	20	(sender or client) near5 (private near2 key) near5 (number or challenge or token) and (decrypt\$5) near5 (number or challenge or token) and (mutual	US- PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 20:57

		authentica\$5)				
S151	289	(private near2 key) near5 (number or challenge or token) and (decrypt\$5) near5 (number or challenge or token) and (mutual authentica\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/13 21:02
S152	289	(private near2 key) near5 (number or challenge or token) and (decrypt\$5) near5 (number or challenge or token) and (mutual authentica\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/15 15:24
S153	124	(private near2 key) near5 (number or challenge or token) with (decrypt\$5) near5 (number or challenge or token) and (mutual authentica\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/15 16:19
S154	2125	(download or transfer\$5) near5 (account or password or name or log\$1in or username) with (memory card or usb or stick or phone)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/17 11:25
S155	1549	(download or transfer\$5) near5 (account or password or name or log\$1in or username) near10 (memory card or usb or stick or phone)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/17 11:27
S156	251	(download or transfer\$5) near5 (account or password or name or log\$1in or username) near10 (terminal or computer or kiosk) near5 (memory card or usb or stick or phone)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/17 11:31
S157	230	(download or transfer\$5) near5 (account or password or log\$1in or username) near10 (terminal or computer or kiosk) near5 (memory card or usb or stick or phone)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/17 11:32
S158	17	(download or transfer\$5) near5 (password or log\$1in or username) near10 (terminal or computer or kiosk) near5 (memory card or usb or stick or phone)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/17 11:33
S159	1125	(password or log\$1in or username) near10 (terminal or computer or kiosk) near5 (memory card or usb or stick or phone)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/17 13:50
S160	41	(password or log\$1in or username) near10 (terminal or computer or kiosk) near7 (transfer\$1 or download\$5 or upload\$5 or sav\$5) near6 (memory card or usb or stick or phone)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/17 13:51
S161	7	(download\$5) with (log\$1in or password) with (stream\$5 near2 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/17 13:56
S162	40	(download\$5 or receiv\$5 or upload\$5 or transfer\$5) with (log\$1in or password) with (stream\$5 near2 service)	US-PGPUB; USPAT; USOCR	ADJ	ON	2014/03/17 13:58

3/18/2014 10:19:39 AM

Receipt date: 09/10/2013

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

13004806 - GAI: 2439

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	
	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter et al.		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

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	Filing Date		2011-01-11		
	First Named Inventor		David W. Hostetter et al.		
	Art Unit		2439		
	Examiner Name		Brian L. Olion		
	Attorney Docket Number		MDIP-1-2405		

/B.O./	1	20020126841	A1	2002-09-12	Arai	
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/B.O./	7	20120137135	A1	2012-05-31	Kasahara et al.	
/B.O./	8	20120272065	A1	2012-10-25	Matsukawa et al.	
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Receipt date: 09/10/2013 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	13004806 - GAU: 2439
	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter et al.		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

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Examiner Signature	/Brian Olion/					Date Considered	03/17/2014	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.								

Receipt date: 09/10/2013 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13004806 13004806 - GAU: 2439
	Filing Date	2011-01-11
	First Named Inventor	David W. Hostetter et al.
	Art Unit	2439
	Examiner Name	Brian L. Olion
	Attorney Docket Number	MDIP-1-2405

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Ellen M. Bierman/	Date (YYYY-MM-DD)	2013-09-10
Name/Print	Ellen M. Bierman	Registration Number	38,079

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these 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 Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

<i>Index of Claims</i> 	Application/Control No. 13004806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.
	Examiner BRIAN OLION	Art Unit 2439

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

☐ Claims renumbered in the same order as presented by applicant				☐ CPA				☐ T.D.				☐ R.1.47			
CLAIM		DATE													
Final	Original	09/08/2013	03/17/2014												
	1	✓	✓												
	2	✓	✓												
	3	✓	✓												
	4	✓	✓												
	5	✓	✓												
	6	✓	✓												
	7	✓	✓												
	8	✓	✓												
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	10	✓	✓												
	11	✓	✓												
	12	✓	✓												
	13	✓	✓												
	14	✓	✓												
	15	✓	✓												
	16	✓	✓												

Search Notes 	Application/Control No. 13004806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.
	Examiner BRIAN OLION	Art Unit 2439

CPC- SEARCHED		
Symbol	Date	Examiner
H04L63/0428	3/18/2014	bo
H04L67/06	3/18/2014	BO
H04L67/1008	3/18/2014	BO

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
726		9/8/2013	BO

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Name Search	9/8/2013	BO
Limited Search in 726 class	9/8/2013	BO
East see Search History	9/8/2013	BO
East See Search History	3/17/2014	BO

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

/BRIAN OLION/ Examiner.Art Unit 2439	
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405	1203
25315 7590 06/20/2014 LOWE GRAHAM JONES, PLLC 701 FIFTH AVENUE SUITE 4800 SEATTLE, WA 98104			EXAMINER HOLDER, BRADLEY W	
			ART UNIT 2439	PAPER NUMBER
			NOTIFICATION DATE 06/20/2014	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocketing@lowegrahamjones.com
docketing-patent@lowegrahamjones.com

<i>Applicant-Initiated Interview Summary</i>	Application No. 13/004,806	Applicant(s) HOSTETTER ET AL.	
	Examiner BRADLEY HOLDER	Art Unit 2439	

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

(1) BRADLEY HOLDER. (3) ____.

(2) ELLEN BIERMAN. (4) ____.

Date of Interview: 12 June 2014.

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

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: ____.

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

Claim(s) discussed: 1-16.

Identification of prior art discussed: Danieli US Patent Application Publication No. 2005/0025465.

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...)

The claimed invention was discussed. The currently applied prior art in the 35 U.S.C. 103(a) rejections of the claims was discussed. Potential amendments to the claims were discussed in order to move the application toward allowance. A final agreement regarding the claims was not reached at this time..

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the 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

/BRADLEY HOLDER/ Primary Examiner, Art Unit 2439	
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Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : David W. Hostetter et al.
Application No. : 13/004,806
Filed : January 11, 2011
For : CONTENT AND IDENTITY DELIVERY SYSTEM FOR
PORTABLE PLAYBACK OF CONTENT AND STREAMING
SERVICE INTEGRATION

Examiner : Bradley W. Holder
Art Unit : 2439
Docket No. : MDIP-1-2405
Date : June 24, 2014

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

AMENDMENT

Commissioner for Patents:

In response to the Office Action dated March 26, 2014, please amend the application as follows:

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

Remarks begin on page 6 of this paper.

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of delivering content by integrating a kiosk delivery system with a streaming service, the method comprising:

transferring content from a kiosk to a flash media device; and

transferring user service information, including user account information for one or more account based streaming services, from the kiosk to the flash media device, wherein, responsive to the flash media device being connected to a playback device, if the playback device is connected to a network via a network connection that meets a threshold of streaming digital content, the user service information is used to enable access to at least one of the one or more streaming services to stream a higher quality version of the content to the playback device for playback, otherwise, the content stored on the flash media device is used for playback;

2. (Previously Presented) The method of claim 1, wherein the user account information for each streaming service comprises an account identifier and login information.

3. (Previously Presented) The method of claim 1, wherein user service information includes information necessary to access a streaming service for delivery of content over a network.

4. (Original) The method of claim 1, wherein the content transfer can occur without removing the flash media device from a device containing the flash media device.

5. (Original) The method of claim 1, wherein the content transfer can occur by removing the flash media device from a device containing the flash media device.

6. (Original) The method of claim 1, wherein the user service information is received from a user device.

7. (Original) The method of claim 1, wherein the user service information is received through a website.

8. (Original) The method of claim 1, wherein the user service information is received from a data feed from a provider of the streaming service.

9. (Original) The method of claim 1, wherein the higher quality version of the content is a high definition version of standard definition content transferred from the kiosk to the flash media device.

10. (Original) The method of claim 1, wherein users can register for the streaming service at the kiosk.

11. (Original) The method of claim 1, wherein users may update user service information via the kiosk.

12. (Currently Amended) A method of operating a playback device to automatically play back content from either a flash media device or a streaming service depending upon playback circumstances, the method comprising:

receiving user service information, including user account information for an account based digital media content streaming service, from a connected flash media device, wherein the user service information enables access to the streaming service;

responsive to the user service information being unrecognized by the playback device, playing back the content from the flash media device, the content previously received from a kiosk delivery system; and

responsive to the user service information being recognized by the playback device:

responsive to the playback device not being connected to a network, playing back the content from the flash media device; and

responsive to the playback device being connected to a network, accessing the streaming service using the user service information, by:

responsive to a speed of the connection not meeting a threshold for streaming digital content, playing back the content from the flash media device; and

responsive to the speed of the connection meeting the threshold for streaming digital content, streaming the content from the streaming service.

13. (Original) The method of claim 12, wherein streaming the content from the streaming service comprises streaming the content in high definition, and wherein the content on the flash media device is standard definition.

14. (Original) The method of claim 12, wherein accessing the streaming service using the user service information comprises automatically logging the user into the streaming service.

15. (Original) The method of claim 12, wherein the threshold is a lower limit on speed consistent with avoiding service interruptions.

16. (Original) The method of claim 12, wherein a flash media device can be transferred between playback devices.

17. (Withdrawn) A method of resuming playback, the method comprising:

responsive to having a first resume point for content played from a flash media device and a second resume point for the content from a streaming service:

determining which of the first or second resume points is more recent; and
beginning playback of the content from the more recent resume point.

18. (Withdrawn) The method of claim 17, wherein a resume point is the point in the playback of the content where play is desired to be resumed.

19. (Withdrawn) The method of claim 17, wherein a resume point is recorded based on elapsed time from a beginning of the content.

20. (Withdrawn) The method of claim 17, further comprising synchronizing the first and second resume points.

REMARKS

Claims 1-20 are pending in this application. No claims have been canceled. Applicant has amended claim 1 to clarify that the playback device determines whether to use (for playback) a higher quality of the content from a streaming service when the playback device is connected to a network that meets a threshold for streaming or whether to use the content stored on the flash media device otherwise. As claimed before amendment, user service information previously stored on the flash media device is used to access one or more of these streaming services. Applicant has amended claim 12 to clarify that the content stored on the flash media device was previously transferred from a kiosk. No new matter has been introduced by way of these amendments. For example, support for these amendments may be found in claim 12 and in Applicant's Specification at least in paragraphs 47-53 and Fig. 3.

Applicant has filed concurrently a request for consideration under the After Final Consideration Pilot Program 2.0 (AFCP 2.0). Applicant represents that these amendments do not broaden the scope of the independent claims 1 and 12 in any aspect, thus complying with the requirement of AFCP 2.0. Accordingly, Applicant respectfully requests entry of these amendments and entry into the AFCP 2.0 program. Applicant respectfully requests the Examiner to initiate a telephonic interview with Applicant's representative as part of this AFCP request.

As another matter, Applicant wishes to note that use of the disjunctive "or" before the last element in a list of alternatives is intended to recite and cover any one or more of the listed elements in the alternative, consistent with case law. Namely, the phrase "at least one of A or B" is to be interpreted as including: "A," or "B," or both "A and B." Also, the phrases "at least one of A, B, or C," "A, B, or C," "A or B," and "A and/or B" are to be interpreted in the same manner. These recitations conform the claims with current case law on this subject.

Interview Summary

Applicant's representative thanks the Examiner for his time, courtesy, and effort extended in a recent phone interview on June 12, 2014. In that interview, claims 1 and 12 were discussed. (No) agreement on allowability was reached. Applicant believes that the claims

should now be in condition for allowance and **urges the Examiner to contact Applicant's representative if there are any remaining issues.**

35 U.S.C. § 103 Rejections

The Examiner has rejected claims 1-11 under pre-AIA 35 U.S.C. § 103(a) as allegedly being obvious over U.S. Publication No. 2004/0254940 issued to Brush ("Brush"), further in view of U.S. Publication No. 2005/0025465 issued to Danieli ("Danieli") and U.S. Patent No. 6,223,292 issued to Dean ("Dean"). The Examiner also rejected claims 12, 13, 14 and 16 under pre-AIA 35 U.S.C. § 103(a) as allegedly being obvious over Danieli in view of Brush and Dean and U.S. Patent Application Publication No. 2008/0205291 issued to Li ("Li"); and claim 15 as allegedly being obvious over Danieli, Brush, Li and Dean, and further in view of U.S. Publication No. 2005/0190782 issued to Buckley ("Buckley").

Applicant respectfully traverses all these rejections for the reasons discussed in detail below with respect to both the original and amended claims as indicated.

In essence, the Examiner is asserting that the time and date stamps placed into the DVD content in Brush and combining programmatic data placed into the potentially streamed A/V DVD content in Danieli equate to providing the higher quality version of the content of Applicant's claims. (See Office Action, dated March 26, 2014, p. 4, hereinafter "Office Action."). He relies on Dean to assert that a password equates to a user account and can be used to enable the user to have a particular streaming service. (Office Action, p.5.)

However, the Examiner's reasoning and use of these references, even before amendment, is missing several elements recited by Applicant's claims, and thus the Examiner has not made out a *prima facie* case sufficient to shift the burden to produce evidence of non-obviousness to the Applicant.

In particular, Applicant believes there are several aspects of each claim that are nowhere taught, suggested, or motivated by Brush, Danielli, and/or Dean (or by any of the other references), alone or in any motivated combination. For example, claim 1 (before amendment) recites "wherein ... the user service information enables access to a streaming service to stream a higher quality version of the content to the playback device" and claim 12 (before amendment) recites "wherein the user service information enables access to a streaming service." There is

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nothing in any of the references that teaches or suggests the use of a user account *to conditionally access a streaming service* to stream a higher quality version of the content to the playback device or to otherwise playback content stored on the playback device.

As detailed in Applicant's response to the prior Office Action (Amendment dated December 18, 2013, p. 8), it is improper to assert that DRM information (generally), time and date information (as described by Brush), and or programmatic information (as described by Danieli) somehow equates to a "streaming service" as recited by Applicant's claims. Brush describes a standard Kiosk DVD distribution system. It is not a distribution system to flash media nor does it describe streaming from a streaming service. Danieli describes playback from a DVD without modification when the player "does not understand the programmatic data or the set of instructions" or enhanced playback "on a DVD player that does understand the programmatic data or the set of instructions." (Danieli, para. [0028].)

Danieli simply does not describe being connected to a network to stream HD content. Rather, at most it describes enhancement of AV output content stream quality "by using programmatic data in the form of an additional track(s) or stream(s) that, when combined with a track of the AV content, improves the quality of the picture and/or the quality of the audio output." (Danieli, para. [0043].) Specifically,

As the AV content is received, programmatic data control module 108 adds in additional detail (based on the programmatic data) to the video track of the AV content. This additional detail includes the additional descriptive information that is the difference between the HDTV version of the video and the version included in the video track of the AV content. In other words the programmatic data includes the 'delta' or difference that, when added to the video track, results in the HDTV version of the video."

(Danielli [0044].) As can be observed from this passage, Danieli does not describe anything having to do with using a streaming service to stream higher quality content. It describes enhancing content, but using a totally different mechanism than that recited by Applicant's claims.

The Examiner admits that these two references do not teach "user service information, including a user account information for one or more account based streaming services." (Office Action, p. 5.) He then looks to Dean to fill in the gap. Although Dean may describe the use of passwords and their use to access media streaming services, it does not

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describe using them in the manner recited in Applicant's claims. Thus a combination of Brush, Danieli, and Dean still does not result in Applicant's claims. None of the references describe "*responsive to the flash media device being connected to a playback device connected to a network*, the user service information enables access to at least one of the one or more streaming services to stream a higher quality version of the content to the playback device" (claim 1 before amendment) or "*responsive to the playback device being connected to a network*, accessing the streaming service using the user service information, by...responsive to the speed of the connection meeting the threshold for streaming digital content, streaming the content from the streaming service" (claim 12 before amendment). Moreover, there is nothing in the references short of improper hindsight using Applicant's claims that describes the desirability or capability to either play from a flash device or stream from a network (automatically) based upon user service information. This is simply not present in the references.

Nonetheless, in interests of furtherance of prosecution, Applicant has amended the claims to insure that this choice of alternatives is clear for playback of content is clear.

In particular, claim 1 (and dependent claims 2-11 at least by virtue of their dependencies) as amended recites,

transferring user service information, including user account information for one or more account based streaming services, from the kiosk to the flash media device, wherein, responsive to the flash media device being connected to a playback device, if the playback device is connected to a network via a network connection that meets a threshold of streaming digital content, the user service information is used to access at least one of the one or more streaming services to stream a higher quality version of the content to the playback device for playback, otherwise, the content stored on the flash media device is used for playback;

Claim 12 (and dependent claims 13-16 at least by virtue of their dependencies), before and after amendment, recites,

responsive to the playback device not being connected to a network, playing back the content from the flash media device; and

responsive to the playback device being connected to a network, accessing the streaming service using the user service information, by:

responsive to a speed of the connection not meeting a threshold for streaming digital content, playing back the content from the flash media device; and

responsive to the speed of the connection meeting the threshold for streaming digital content, streaming the content from the streaming service.

As discussed, user service information desirability or capability to either play from a flash device or stream from a network (automatically) based upon user service information is simply not present addressed in any manner by Brush, Danieli, Dean, Li, or by Buckley, alone or in any combination. Accordingly, the cited references do not teach, motivate or suggest one or more aspects of the independent claims; and thus claims 1-16 are not rendered obvious.

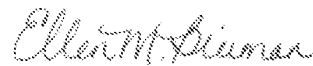
Dependent Claims

As discussed above, all of the dependent claims are not anticipated or rendered obvious for at least the reasons described above with respect to the independent claims. Additional arguments for a variety of the other dependent claims are not addressed in more detail herein. Accordingly, Applicant notes for the record that all such assertions are traversed and reserves the right to further present arguments regarding the Examiner's statements about what is known in the art or taught by the cited references at a later time, should such become necessary. Specifically, no waiver (legal, factual, or otherwise), implicit or explicit, is hereby intended.

Conclusion

Based upon the above remarks, Applicant respectfully submits that all of the pending claims are allowable and respectfully requests the Examiner to enter these amendments and to reconsider this application and its timely allowance. The Director is authorized to charge any additional fees due by way of this Amendment, or credit any overpayment, to our Deposit Account No. 50-1050. In the event the Examiner disagrees with Applicant or finds minor informalities, Applicant respectfully requests a telephone interview to discuss any issues and to expeditiously resolve prosecution of this application. Again, Applicant's representative thanks the Examiner for his prompt and courteous attention.

LOWE GRAHAM JONES ^{PLLC}



Ellen M. Bierman
Registration No. 38,079

EMB:jrb

25315

CUSTOMER NUMBER

10

MDIP-1-2405AM02-Final

LOWE GRAHAM JONES ^{PLLC}



701 Fifth Avenue, Suite 4800
Seattle, Washington 98104
206.381.3300 • F: 206.381.3301

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0		
Practitioner Docket No.: MDIP-1-2405	Application No.: 13/004,806	Filing Date: January 11, 2011
First Named Inventor: David W. Hostetter	Title: CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION	
APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116. 1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (<i>e.g.</i>, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c). 2. The above-identified application contains an outstanding final rejection. 3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect. 4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection. 5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response. 6. This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web). 7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, <i>e.g.</i>, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.] 8. By filing this certification and request, applicant acknowledges the following: • Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0. • The examiner will verify that the AFCP 2.0 submission is compliant, <i>i.e.</i>, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions: ○ The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, <i>e.g.</i>, by mailing an advisory action. ○ If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview. ▪ The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate. ▪ If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.		
Signature /Ellen M. Bierman/	Date June 24, 2014	
Name (Print/Typed) Ellen M. Bierman	Practitioner Registration No. 38,079	
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.		
☒ * Total of <u>1</u> forms are submitted.		

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.

Electronic Acknowledgement Receipt	
EFS ID:	19391323
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	Content And Identity Delivery System For Portable Playback Of Content And Streaming Service Integration
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	25315
Filer:	Ellen M Bierman/Jessica Bukowski
Filer Authorized By:	Ellen M Bierman
Attorney Docket Number:	MDIP-1-2405
Receipt Date:	24-JUN-2014
Filing Date:	11-JAN-2011
Time Stamp:	12:17:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		MDIP-1-2405AM02-Final.pdf	259364 a4a09808b067df20b69630f4a25fbf172f4615b1	yes	10

Multipart Description/PDF files in .zip description					
Document Description			Start	End	
Response After Final Action			1	1	
Claims			2	5	
Applicant Arguments/Remarks Made in an Amendment			6	10	
Warnings:					
Information:					
2	After Final Consideration Program Request	MDIP-1-2405AFCPREQ.pdf	226884 ccd1ca491b7055fc605c5da4bd77d911ddc8374b	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			486248		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

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

PATENT APPLICATION FEE DETERMINATION RECORD				Application or Docket Number		Filing Date		☐ To be Mailed	
Substitute for Form PTO-875				13/004,806		01/11/2011			
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO									
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)							
FOR	NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A					
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		X \$ =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		X \$ =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL					
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	06/24/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X \$80 =		0	
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X \$420 =		0	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
TOTAL ADD'L FEE						0			
(Column 1)		(Column 2)		(Column 3)					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =			
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
TOTAL ADD'L FEE									
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

25315 7590 07/09/2014
LOWE GRAHAM JONES, PLLC
701 FIFTH AVENUE
SUITE 4800
SEATTLE, WA 98104

EXAMINER

HOLDER, BRADLEY W

ART UNIT

PAPER NUMBER

2439

DATE MAILED: 07/09/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405	1203

TITLE OF INVENTION: CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING
SERVICE INTEGRATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	10/09/2014

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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)

25315 7590 07/09/2014
LOWE GRAHAM JONES, PLLC
701 FIFTH AVENUE
SUITE 4800
SEATTLE, WA 98104

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.
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405	1203

TITLE OF INVENTION: CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	10/09/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
HOLDER, BRADLEY W	2439	726-028000

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, 1 _____
- (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. 2 _____
- 3 _____

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

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

(A) NAME OF ASSIGNEE

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

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

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

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

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

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

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

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405	1203
25315 7590 07/09/2014 LOWE GRAHAM JONES, PLLC 701 FIFTH AVENUE SUITE 4800 SEATTLE, WA 98104			EXAMINER HOLDER, BRADLEY W	
			ART UNIT	PAPER NUMBER
			2439	

DATE MAILED: 07/09/2014

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. 13/004,806	Applicant(s) HOSTETTER ET AL.	
	Examiner BRADLEY HOLDER	Art Unit 2439	AIA (First Inventor to File) Status No

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

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

1. ☒ This communication is responsive to 06/24/2014.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☒ The allowed claim(s) is/are 1-8, 10-12, 14-16. 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 <u>03/10/2014</u> 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. ☒ Interview Summary (PTO-413), Paper No./Mail Date <u>03 July 2014</u> .	5. ☒ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☒ Other <u>See Continuation Sheet</u> .
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/BRADLEY HOLDER/ Primary Examiner, Art Unit 2439	
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Continuation of Attachment(s) 7. Other: Annotated After Final Consideration Pilot Program 2.0 Response and Amended Claims of 06/24/2014.

AIA Status

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

EXAMINER'S AMENDMENT

2. 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 a telephone interview with ELLEN BIERMAN on July 3, 2014.

This examiner's amendment is in response to applicant's After Final Consideration Pilot Program 2.0 response and amended claims of June 24, 2014.

The application has been amended as follows:

In the Claims:

Claim 1: (Currently Amended):

A method of delivering content by integrating a kiosk delivery system with a streaming service, the method comprising:

transferring content from a kiosk to a flash memory media device, wherein the flash memory media device is configured to be connected to a playback device; and

transferring user service information, including user account information for one or more account based digital content streaming services, from the kiosk to the flash memory media device,

wherein, responsive to the flash memory media device being connected to the playback device:

if the playback device is connected to a network via a network connection having a speed that meets a threshold for streaming digital content, the transferred user service information from the connected flash memory media device is used to access at least one of the one or more account based digital streaming services to stream a higher quality version of the content to the connected playback device for playback, wherein the higher quality version of the content is a high definition version of standard definition content transferred from the kiosk to the flash memory media device,

otherwise, the content stored on the connected flash memory media device is used for playback of the content.

Claim 2: (Currently Amended):

The method of claim 1, wherein the user account information for each account based digital streaming service comprises an account identifier and login information.

Claim 3: (Currently Amended):

The method of claim 1, wherein user service information includes information necessary to access a digital streaming service for delivery of content over a network.

Claim 4: (Currently Amended):

The method of claim 1, wherein the content transfer can occur without removing the flash memory media device from a device containing the flash memory media device.

Claim 5: (Currently Amended):

The method of claim 1, wherein the content transfer can occur by removing the flash memory media device from a device containing the flash memory media device.

Claim 9: (Currently Canceled):

Claim 12: (Currently Amended):

A method of operating a playback device to automatically play back content from either a flash memory media device or a digital streaming service depending upon playback circumstances, the method comprising:

receiving, from a connected flash memory media device, user service information, including user account information for an account based digital media content streaming service, wherein the user service information enables access to the account based digital media content streaming service; and wherein the connected flash memory media device previously has received content from a kiosk delivery system including the user service information that includes user account information for one or more account based digital streaming services;

responsive to the user service information being unrecognized by the playback device, playing back the content from the connected flash memory media device, the content previously received from the kiosk delivery system; and

responsive to the user service information being recognized by the playback device:

responsive to the playback device not being connected to a network, playing back the content from the connected flash memory media device; and

responsive to the playback device being connected to a network, accessing the account based digital media content streaming service using the user service information, by:

responsive to a speed of the connection not meeting a threshold for streaming digital content, playing back the content from the connected flash memory media device; and

responsive to the speed of the connection meeting the threshold for streaming digital content, streaming the content from the account based digital media content streaming service, wherein streaming the content from the account based digital media content streaming service comprises streaming the content in high definition, and wherein the content on the flash memory media device is standard definition.

Claim 13: (Currently Canceled):

Claim 14: (Currently Amended):

The method of claim 12, wherein accessing the account based digital media content streaming service using the user service information comprises automatically logging the user into the account based digital media content streaming service.

Claim 16: (Currently Amended):

The method of claim 12, wherein a flash memory media device can be transferred between playback devices.

Claims 17-20: (Currently Canceled):

Reasons For Allowance

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

Claims 1-8, 10-12, 14-16 are considered allowable.

The instant invention is directed to a method for utilizing a kiosk in transferring user information and standard definition content to a flash memory device for later playback when connected to a playback device with high definition content available for playback over a network at playback time based on the stored user information and standard definition content.

The closest prior art, as recited, Buttars US Patent Application Publication No. 2008/0288542 and Mick et al. US Patent Application Publication No. 2008/0250120, are also generally directed to various aspects of utilizing a kiosk in transferring user information and content to a storage device for later playback. However, Buttars or Mick et al. does not teach or suggest, either singularly or in combination, the particular combination of steps or elements as recited in the independent claims 1, 12. For example, none of the cited prior art teaches or suggests the steps of "*A method of*

delivering content by integrating a kiosk delivery system with a streaming service, the method comprising: transferring content from a kiosk to a flash memory media device, wherein the flash memory media device is configured to be connected to a playback device; and transferring user service information, including user account information for one or more account based digital content streaming services, from the kiosk to the flash memory media device, wherein, responsive to the flash memory media device being connected to the playback device: if the playback device is connected to a network via a network connection having a speed that meets a threshold for streaming digital content, the transferred user service information from the connected flash memory media device is used to access at least one of the one or more account based digital streaming services to stream a higher quality version of the content to the connected playback device for playback, wherein the higher quality version of the content is a high definition version of standard definition content transferred from the kiosk to the flash memory media device, otherwise, the content stored on the connected flash memory media device is used for playback of the content. A method of operating a playback device to automatically play back content from either a flash memory media device or a digital streaming service depending upon playback circumstances, the method comprising: receiving, from a connected flash memory media device, user service information, including user account information for an account based digital media content streaming service, wherein the user service information enables access to the account based digital media content streaming service; and wherein the connected flash memory media device previously has received content from a kiosk

delivery system including the user service information that includes user account information for one or more account based digital streaming services; responsive to the user service information being unrecognized by the playback device, playing back the content from the connected flash memory media device, the content previously received from the kiosk delivery system; and responsive to the user service information being recognized by the playback device: responsive to the playback device not being connected to a network, playing back the content from the connected flash memory media device; and responsive to the playback device being connected to a network, accessing the account based digital media content streaming service using the user service information, by: responsive to a speed of the connection not meeting a threshold for streaming digital content, playing back the content from the connected flash memory media device; and responsive to the speed of the connection meeting the threshold for streaming digital content, streaming the content from the account based digital media content streaming service, wherein streaming the content from the account based digital media content streaming service comprises streaming the content in high definition, and wherein the content on the flash memory media device is standard definition.”

Therefore the claims of the instant application are allowable over the cited prior art.

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

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRADLEY HOLDER whose telephone number is 571-270-3789. The examiner can normally be reached on Monday-Friday 10:00AM-7:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Luu Pham, can be reached on 571-270-5002. 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.

/BRADLEY HOLDER/
Primary Examiner, Art Unit 2439

Application/Control Number: 13/004,806
Art Unit: 2439

Page 11

Notice of References Cited	Application/Control No. 13/004,806		Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.	
	Examiner BRADLEY HOLDER		Art Unit 2439	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2003/0110209 A1	06-2003	Loui et al.	709/203
*	B	US-2003/0130822 A1	07-2003	Steele, Robert C.	702/188
*	C	US-2006/0015580 A1	01-2006	Gabriel et al.	709/219
*	D	US-2006/0209102 A1	09-2006	Jones et al.	347/004
*	E	US-2006/0284981 A1	12-2006	Erol et al.	348/207.1
*	F	US-2007/0250384 A1	10-2007	Geller et al.	705/014
*	G	US-2008/0034126 A1	02-2008	Baker, Christopher W.	710/11
*	H	US-2008/0229371 A1	09-2008	Mick et al.	725/87
*	I	US-2008/0250120 A1	10-2008	Mick et al.	709/219
*	J	US-2008/0279533 A1	11-2008	Buttars, David B.	386/94
*	K	US-2008/0288542 A1	11-2008	Buttars, David B.	707/104.1
*	L	US-2010/0057563 A1	03-2010	Rauber et al.	705/14.53
*	M	US-2010/0057924 A1	03-2010	Rauber et al.	709/229

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Holfelder et al.; A networked multimedia retrieval management system for distributed kiosk applications; Published in: Multimedia Computing and Systems, 1994., Proceedings of the International Conference on Date of Conference: 15-19 May 1994; Page(s): 342 - 351; IEEE Xplore
	V	Kurkovsky et al.; Developing an Interactive Kiosk for Mobile Devices: A Practical Experience; International Conference on Wireless Networks. 2004; Pages 747-753; cs.ccsu.edu
	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. 13/004,806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.	
	Examiner BRADLEY HOLDER	Art Unit 2439	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2010/0070610 A1	03-2010	Buttars, David B.	709/219
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

Application No. 13/004,806
Reply to Office Action dated March 26, 2014

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of delivering content by integrating a kiosk delivery system with a streaming service, the method comprising:

transferring content from a kiosk to a flash media device; and

transferring user service information, including user account information for one or more account based streaming services, from the kiosk to the flash media device, wherein, responsive to the flash media device being connected to a playback device, if the playback device is connected to a network via a network connection that meets a threshold of streaming digital content, the user service information is used to enable access to at least one of the one or more streaming services to stream a higher quality version of the content to the playback device for playback, otherwise, the content stored on the flash media device is used for playback;

2. (Previously Presented) The method of claim 1, wherein the user account information for each streaming service comprises an account identifier and login information.

3. (Previously Presented) The method of claim 1, wherein user service information includes information necessary to access a streaming service for delivery of content over a network.

4. (Original) The method of claim 1, wherein the content transfer can occur without removing the flash media device from a device containing the flash media device.

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CUSTOMER NUMBER

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MDIP-1-2405AM02-Final

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5. (Original) The method of claim 1, wherein the content transfer can occur by removing the flash media device from a device containing the flash media device.

6. (Original) The method of claim 1, wherein the user service information is received from a user device.

7. (Original) The method of claim 1, wherein the user service information is received through a website.

8. (Original) The method of claim 1, wherein the user service information is received from a data feed from a provider of the streaming service.

9. (Original) The method of claim 1, wherein the higher quality version of the content is a high definition version of standard definition content transferred from the kiosk to the flash media device.

10. (Original) The method of claim 1, wherein users can register for the streaming service at the kiosk.

11. (Original) The method of claim 1, wherein users may update user service information via the kiosk.

12. (Currently Amended) A method of operating a playback device to automatically play back content from either a flash media device or a streaming service depending upon playback circumstances, the method comprising:

receiving user service information, including user account information for an account based digital media content streaming service, from a connected flash media device, wherein the user service information enables access to the streaming service;

responsive to the user service information being unrecognized by the playback device, playing back the content from the flash media device, the content previously received from a kiosk delivery system; and

responsive to the user service information being recognized by the playback device:

responsive to the playback device not being connected to a network, playing back the content from the flash media device; and

responsive to the playback device being connected to a network, accessing the streaming service using the user service information, by:

responsive to a speed of the connection not meeting a threshold for streaming digital content, playing back the content from the flash media device; and

responsive to the speed of the connection meeting the threshold for streaming digital content, streaming the content from the streaming service.

13. (Original) The method of claim 12, wherein streaming the content from the streaming service comprises streaming the content in high definition, and wherein the content on the flash media device is standard definition.

14. (Original) The method of claim 12, wherein accessing the streaming service using the user service information comprises automatically logging the user into the streaming service.

15. (Original) The method of claim 12, wherein the threshold is a lower limit on speed consistent with avoiding service interruptions.

16. (Original) The method of claim 12, wherein a flash media device can be transferred between playback devices.

17. (Withdrawn) A method of resuming playback, the method comprising:

responsive to having a first resume point for content played from a flash media device and a second resume point for the content from a streaming service:

determining which of the first or second resume points is more recent; and
beginning playback of the content from the more recent resume point.

18. (Withdrawn) The method of claim 17, wherein a resume point is the point in the playback of the content where play is desired to be resumed.

19. (Withdrawn) The method of claim 17, wherein a resume point is recorded based on elapsed time from a beginning of the content.

20. (Withdrawn) The method of claim 17, further comprising synchronizing the first and second resume points.

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

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"20050025465".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2014/06/12 11:53
S2	286	kiosk with stream\$3	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/01 20:52
S3	861	kiosk same stream\$3	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/01 20:53
S4	54	kiosk same stream\$3 same flash	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/01 20:53
S5	184	kiosk same stream\$3 same (flash or storage or memory or usb)	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/01 20:54
S6	55	(kiosk with stream\$3) same (flash or storage or memory or usb)	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/01 20:55
S7	17	("20060200415" "20060224519" "20060239650" "20070219921" "20080176540" "20080270796" "20090086978" "20090150487" "20100023689" "20100280953" "20100287609" "20110009051" "20110225417" "20110289137" "20120072713" "20120233447" "7809888").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 03:57
S8	2845	726/28.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:37
S9	10042	G06F21/10.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:38
S10	1	"20050025465".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:39
S11	286	kiosk with stream\$3	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:39

S12	861	kiosk same stream\$3	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:39
S13	54	kiosk same stream\$3 same flash	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:39
S14	184	kiosk same stream\$3 same (flash or storage or memory or usb)	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:39
S15	55	(kiosk with stream\$3) same (flash or storage or memory or usb)	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:39
S16	17	("20060200415" "20060224519" "20060239650" "20070219921" "20080176540" "20080270796" "20090086978" "20090150487" "20100023689" "20100280953" "20100287609" "20110009051" "20110225417" "20110289137" "20120072713" "20120233447" "7809888").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:39
S17	2845	726/28.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:39
S18	10042	G06F21/10.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/05 16:39

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S19	0	(726/28.ccls.) and (((transfer\$5) with (content) with (kiosk) with (flash) with (memory)) and ((device) with (flash) with (memory) with (media) with (playback)) and ((transfer\$5) with (user) with (information) with (account) with (stream\$3) with (kiosk) with (memory)) and ((flash) with (memory) with (connect\$3) with (playback)) and ((playback) with (connect\$3) with (network) with (speed) with (threshold or level) with (stream\$3) with (content)) and ((transfer\$5) with (user) with (service) with (information) with (connect\$3) with (memory)) and ((media) with (device) with (access\$3) with (stream\$3) with (service\$1)) and ((high\$2) with (version) with (content) with (playback) with (standard))) .clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2014/07/05 17:06
S20	0	(G06F21/10.cpc.) and (((transfer\$5) with (content) with (kiosk) with (flash) with (memory)) and ((device) with (flash) with (memory) with (media) with (playback)) and ((transfer\$5) with (user) with (information) with (account) with (stream\$3) with (kiosk) with (memory)) and ((flash) with (memory)	US-PGPUB; USPAT; UPAD	ADJ	ON	2014/07/05 17:06

		with (connect\$3) with (playback)) and ((playback) with (connect\$3) with (network) with (speed) with (threshold or level) with (stream\$3) with (content)) and ((transfer\$5) with (user) with (service) with (information) with (connect\$3) with (memory)) and ((media) with (device) with (access\$3) with (stream\$3) with (service\$1)) and ((high\$2) with (version) with (content) with (playback) with (standard))).clm.				
S21	0	((transfer\$5) with (content) with (kiosk) with (flash) with (memory)) and ((device) with (flash) with (memory) with (media) with (playback)) and ((transfer\$5) with (user) with (information) with (account) with (stream\$3) with (kiosk) with (memory)) and ((flash) with (memory) with (connect\$3) with (playback)) and ((playback) with (connect\$3) with (network) with (speed) with (threshold or level) with (stream\$3) with (content)) and ((transfer\$5) with (user) with (service) with (information) with (connect\$3) with (memory)) and ((media) with (device) with (access\$3) with (stream\$3) with (service\$1)) and ((high\$2) with (version) with (content) with (playback) with (standard))).clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2014/07/05 17:07

7/ 5/ 2014 5:08:29 PM

C:\Users\bholder\Documents\EAST\Workspaces\Brian Cases\13004806 - BRIAN - Streaming Service for Portable Playback.wsp

<i>Index of Claims</i> 	Application/Control No. 13004806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.
	Examiner BRADLEY HOLDER	Art Unit 2439

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

☐ Claims renumbered in the same order as presented by applicant					☐ CPA					☐ T.D.					☐ R.1.47				
CLAIM		DATE																	
Final	Original	09/08/2013	03/17/2014	07/05/2014															
1	1	✓	✓	=															
2	2	✓	✓	=															
3	3	✓	✓	=															
4	4	✓	✓	=															
5	5	✓	✓	=															
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	19			-															
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Issue Classification 	Application/Control No. 13004806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.
	Examiner BRADLEY HOLDER	Art Unit 2439

CPC					Type	Version
Symbol						
G06F		21		10	F	2013-01-01

CPC Combination Sets					Type	Set	Ranking	Version
Symbol								

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	14	
/BRADLEY HOLDER/ Primary Examiner.Art Unit 2439	07/05/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	3

Issue Classification 	Application/Control No. 13004806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.
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Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1		17												
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NONE		Total Claims Allowed:	
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(Assistant Examiner)	(Date)		
/BRADLEY HOLDER/ Primary Examiner.Art Unit 2439	07/05/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	3

Search Notes 	Application/Control No. 13004806	Applicant(s)/Patent Under Reexamination HOSTETTER ET AL.
	Examiner Bradley Holder	Art Unit 2439

CPC- SEARCHED		
Symbol	Date	Examiner
G06F 21/10 - F	07/2014	BH

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
726	28	07/2014	BH

SEARCH NOTES		
Search Notes	Date	Examiner
Searched East, see attached search history	07/2014	BH
Searched NPL, see attached search history	07/2014	BH

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
726	28	07/2014	BH
G06F	21/10	07/2014	BH
US-PGPUB, USPAT, UPAD	Text Search	07/2014	BH

	/BRADLEY HOLDER/ Primary Examiner.Art Unit 2439
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : David W. Hostetter et al.
Application No. : 13/004,806
Filed : January 11, 2011
For : CONTENT AND IDENTITY DELIVERY SYSTEM FOR
PORTABLE PLAYBACK OF CONTENT AND STREAMING
SERVICE INTEGRATION

Examiner : Bradley W. Holder
Art Unit : 2439
Docket No. : MDIP-1-2405
Date : June 24, 2014

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

AMENDMENT

Commissioner for Patents:

In response to the Office Action dated March 26, 2014, please amend the application as follows:

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

Remarks begin on page 6 of this paper.

25315
CUSTOMER NUMBER

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MDIP-1-2405AM02-Final

LOWE GRAHAM JONES LLC

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206.381.3300 • F: 206.381.3301

Receipt date: 03/10/2014

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

13004806 - GAU: 2439

Approved for use through 07/31/2012. OMB 0651-0031

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	
	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

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	1	20060200415	A1	2006-09-07	Lu	
	2	20060224519	A1	2006-10-05	Ahn	
	3	20060239650	A1	2006-10-26	Heredia et al.	
	4	20070219921	A1	2007-09-20	Lee	
	5	20080176540	A1	2008-07-24	Khedouri et al.	

Receipt date: 03/10/2014 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13004806	13004806 - GAU: 2439
	Filing Date		2011-01-11	
	First Named Inventor	David W. Hostetter		
	Art Unit	2439		
	Examiner Name	Brian L. Olion		
	Attorney Docket Number	MDIP-1-2405		

	6	20080270796	A1	2008-09-18	Tagawa et al.	No Such Reference
	7	20090086978	A1	2009-04-02	McAvoy et al.	
	8	20090150487	A1	2009-06-11	Wolfish et al.	
	9	20100023689	A1	2010-01-28	Kim	
	10	20100280953	A1	2010-11-04	Kitazato	
	11	20100287609	A1	2010-11-11	Gonzalez et al.	
	12	20110009051	A1	2011-01-13	Khedouri et al.	
	13	20110225417	A1	2011-09-15	Maharajh et al.	
	14	20110289137	A1	2011-11-24	Ittah et al.	
	15	20120072713	A1	2012-03-22	Begum et al.	
	16	20120233447	A1	2012-09-13	Fitzgerald	

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	1	GUOFEI, ET AL. "PLI: A New Framework to Protect Digital Content for P2P Networks," Year 2003; Microsoft Research Asia, Beijing 100080, China; PP: 1-12.						☐
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	Filing Date	2011-01-11
	First Named Inventor	David W. Hostetter
	Art Unit	2439
	Examiner Name	Brian L. Olion
	Attorney Docket Number	MDIP-1-2405

CERTIFICATION STATEMENT

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

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

OR

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☐ See attached certification statement.

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

☐ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Ellen M. Bierman/	Date (YYYY-MM-DD)	2014-03-10
Name/Print	Ellen M. Bierman	Registration Number	38079

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Developing an Interactive Kiosk for Mobile Devices: A Practical Experience

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Keywords: Multimedia, kiosk, mobile computing, XML, Java.

Abstract

This paper discusses the need for extending the functionality of interactive multimedia kiosks to wireless mobile devices. We present Kiosk Engine, our implementation of a framework for creating and presenting interactive multimedia kiosks. Kiosk Engine is implemented in Java and it can be used to present the kiosk content on both a stationary kiosk and a mobile wireless device. We conclude the paper by demonstrating Kiosk Engine's capabilities using a Nokia simulator.

1. Introduction

Interactive kiosks have become an every day reality. They are most commonly used to present up-to-date and/or dynamically changing information in a visually appealing format [7]. Historically, kiosks have been created as stationary computers placed in locations convenient to the customers of many organizations [8], such as banks, libraries, museums and reception areas of larger companies. However, with the rapid growth of the numbers and popularity of mobile devices, their users also demand access to the most current information. Businesses that currently use kiosks can cater to the mobile users by providing real-time information that changes dynamically and is displayed on the mobile user's handheld wireless device.

Because information presented in a kiosk should be updated in real-time, it is pulled by the user's mobile device and not pushed by the server. In today's world of busy travelers and privacy-minded individuals, pull technologies make more business sense than push technologies. Moreover, kiosks extended to wireless

devices that can provide secure access to information have the potential to increase the visibility and market share of a business by providing new avenues for the clients to access business information. Due to the pull model of transmission, the customer feels in control of when and how information is shown on the wireless mobile devices.

Kiosk customizability ensures its appeal to businesses that are unable to spend resources such as time and labor on adapting a generic kiosk to their needs. Since kiosks display multimedia data, kiosk developers can develop various modes of delivering information depending on the target device. For example, a mobile user who downloads a kiosk application onto a handheld device may not appreciate the increased capacity required for viewing video streams. On the other hand, it should not pose any problems for viewing such multimedia content on a standalone kiosk. If the proposed model is followed, businesses need to develop the content of their applications just once; they can then present it in various ways, depending on where the application will be executed.

In this paper, we present our solution for developing and presenting kiosks that are rich in multimedia data. Our solution called Kiosk Engine (KE) allows kiosk data to be viewed on a standalone computer or a mobile device, such as any Internet-enabled PDA or smart phone. The rest of the paper is organized as follows. Section 2 makes the case for building or porting a kiosk application for mobile wireless devices and presents a range of possible kiosk-enabled applications specific to the needs of mobile users. Section 3 discusses the implementation of the core of the Kiosk Engine. Section 4 follows by describing the

architecture and implementation of the KE extension for mobile devices. Section 5 concludes the paper with a summary.

2. Mobile kiosks and their applications

Traditionally, kiosks were created as interactive applications and this made them very attractive to both businesses and end users. Businesses could expect reaction and/or feedback from users in real time and could modify the content of the kiosk accordingly. Users had the satisfaction of getting interactive information that updates dynamically. For example, a static map in a museum provides the users with an idea of where they are, and presents information about the exhibits for possible visitation [4]. However, if an exhibit is temporarily unavailable, the static map is outdated and not of much use. The same museum map can be incorporated into a kiosk application serving as a museum tour guide, which can be used for both a stationary kiosk and also be downloaded by the users into their handheld devices. In this scenario, real-time updates ensure that the information about the temporary unavailability of an exhibit is presented to the user in a timely fashion [12].

Kiosk applications can be especially appealing if applied to mobile devices. Features of such applications include user interactivity, ease of use and access, and high quality of communication [11]. A kiosk implemented as a lightweight client application should be easily adaptable to run on a device with limited processing power to present information in a visually appealing manner to mobile users. The interactive capabilities mean that people on the go do not merely access the content pushed to them, but can also interact and respond with real-time feedback to the provider of the content.

Mobile devices capable of running kiosk applications must be able to present information graphically and in an easy-to-use format. In particular, because the proposed Kiosk Engine occupies a very small amount of memory and does not require a lot of resources, it can run on most modern PDAs and smart phones that have Java support. Memory requirements for large data objects can be mitigated by converting them into other data formats that are supported by the target PDA. We discuss our approach to this issue in Section 4. Also, businesses can minimize manual intervention and kiosk maintenance efforts by providing updated content to users on their wireless devices. For example, in a museum, the number of

human tour guides can be minimized by providing the information as a kiosk application on the users' mobile devices.

Kiosks used to be limited to retail check-out counters, but now they are diversifying into mainstream areas such as banking and tourism [3]. Applications for kiosks abound in the areas of locator services, banking, gaming, Internet access, self-checkout terminals, information access and tourism. As many research reports indicate, there is a growing need for multimodal access to the information presented by kiosks [1,5,6,9]. Reverting to our museum example earlier, this is an illustration of how a kiosk application is used in the tourism industry. More examples follow.

On a golf course, route information can be provided to users via a kiosk client running on handheld devices. Since route information can change dynamically, a kiosk presents the perfect platform to provide up-to-the-minute information for users. Such information can be useful in preventing users from going to temporarily inaccessible areas. It can also prevent new visitors from getting lost on larger golf courses.

In national parks and animal sanctuaries, visitors can survey route information via mobile devices using a light-weight kiosk application client. Not only will this prevent visitors from losing their way, but it will also help steer more interest into little-known areas of the park. The benefits of providing interactive, real-time content to mobile users can translate to more visitors and higher revenues.

At sport events such as the Super Bowl, fans can easily and conveniently find the most up-to-date information about the current sport scores and player statistics. If such a kiosk application were executed on mobile devices, then fans and visitors could keep in touch with each other via their handheld devices, while obtaining the most current information about the sport in real-time. For example, hardcore fans would not want to miss an important event in the game just because they are at the concession counter at that particular time.

In a ticketing application for a kiosk, people can buy tickets for events via handheld devices. Since clients pull updated, real-time information about events of interest, there is the potential for higher sales volume. In addition, the interactive capabilities of the kiosk imply that busy mobile users can buy tickets after checking the most current information about it on their handhelds.

Kiosks are already being used in the retail industry, such as self-checkout counters in supermarkets. While these applications bring value to the users, businesses and their customers, they can also be used on handheld and wireless devices to provide additional value for both businesses and end users. Such wireless extensions of existing kiosk applications provide a way for businesses to increase profits while incurring incremental costs for small changes and extensions [2]. Furthermore, a kiosk in a supermarket can allow users to directly go to the aisle with the products of their interest or browse the supermarket catalog pulled by a handheld device in search for a specific product. It saves shoppers time and provides ease of use and convenient access to products.

3. Kiosk Engine implementation

Kiosk Engine (KE) is implemented as an application that can interpret the description of and present interactive multimedia kiosks differently based on the different inputs provided. Our design and implementation guidelines were as follows:

- It should be easy to create, access (from either web or stand alone), modify and store the kiosk description. Consequently, upgrades and changes to a kiosk should be easy.
- KE should be lightweight and be able to run on the majority of the existing software and hardware platforms.
- KE-driven kiosks should support five basic types of multimedia data: text, images, documents (containing plain/rich text or HTML), audio and video.
- The data (i.e. text, images, audio, video, etc.) of a kiosk should be isolated from the processing program so that data independence is maintained, which allows for portability.
- The same version of KE should be able to act as a driver for multiple kiosks.

To achieve platform independence, KE is programmed in the latest version of Java 2 programming language with Java Media Framework that provides support for a wide range of audio/video formats. The resulting application is truly lightweight – compiled code occupies less than 26 Kbytes. A UML diagram showing the class structure of KE implementation in Java is presented in Figure 1.

KE can work as a driver of a kiosk when provided with input consisting of multimedia data, their description and the overall organization on the kiosk.

KE accepts the input written in XMLKiosk, a specially developed XML-based language,, which describes the sources, organization, presentation order, size and style of multimedia elements. We chose an XML-based solution for two favorable reasons. First,, we are able to create new tags for each basic data type and specify custom attributes for each tag. Second,, XML can be easily parsed in Java and thus we can avoid creating a custom parser, which would add more classes to the code and processing time to the end product.

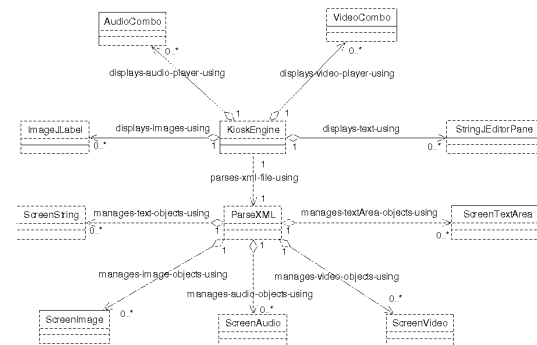


Figure 1. Class diagram of Kiosk Engine: Java implementation

Each Kiosk application must be described in XMLKiosk with a root XML node <Kiosk>, which contains all the different tags to describe the entire kiosk. Figure 2 presents a sample description of a fragment of a multimedia kiosk, as well as the resulting interactive campus map of Columbus State University (CSU). At the next depth level there are two elements called <header> and <screen>, which are the containers of different types of multimedia objects. Both <header> and <screen> elements can have all or any of the tags for the multimedia objects. To describe the five types of multimedia data, namely text, images, documents, audio and video, there are tags called <text>, , <textArea>, <aud> and <vdo> respectively. For each instance of any of the data types on the kiosk screen, there is a corresponding tag describing it in the input XMLKiosk file. The <text> and tags occasionally have <action> tags, which specify what tasks need to be performed in order to facilitate browsing the kiosk from one screen to another. The <action> tags are usually coded when some action occurs on the screen due to user interaction. Also, each <aud> or <vdo> tag can have multiple <file> tags, which allow a single audio/video instance to play multiple files alternatively.

```

<?xml version = "1.0" ?>
<kiosk red="0" green="102" blue="204" start="csumain">

  <header id="csuheader">
    
      <action type="onclick" alt="CSU MAP" dxpos="0" dypos="0" dwidth="72" dheight="68">
        <target>csumain</target>
      </action>
    </img>
  </header>

  <screen id="csumain" header="">
    
    </img>
    
      <action type="onclick" alt="About Columbus State University" dxpos="60" dypos="0" dwidth="181" dheight="45">
        <target>aboutcsu</target>
      </action>
      <action type="onclick" alt="Clock Tower" dxpos="344" dypos="201" dwidth="13" dheight="37">
        <target>clocktower1</target>
      </action>
      <action type="onclick" alt="Simon Schwob Library"
        dxpos="232" dypos="215" dwidth="51" dheight="25">
        <target>library1</target>
      </action>
      <action type="onclick" alt="Lenoir Hall" dxpos="107" dypos="243" dwidth="79" dheight="18">
        <target>lenoir1</target>
      </action>
      <action type="onclick" alt="Richards Hall" dxpos="356" dypos="195" dwidth="55" dheight="15">
        <target>richards1</target>
      </action>
      <action type="onclick" alt="Howard Hall" dxpos="256" dypos="202" dwidth="70" dheight="12">
        <target>howard1</target>
      </action>
      <action type="onclick" alt="Woodall Hall" dxpos="293" dypos="229" dwidth="33" dheight="18">
        <target>woodall1</target>
      </action>
      <action type="onclick" alt="Davidson Student Center" dxpos="343" dypos="249" dwidth="80" dheight="11">
        <target>davidson1</target>
      </action>
    </img>
  </screen>
  ...
</kiosk>

```

Figure 2. Sample description of a multimedia kiosk written in XMLKiosk

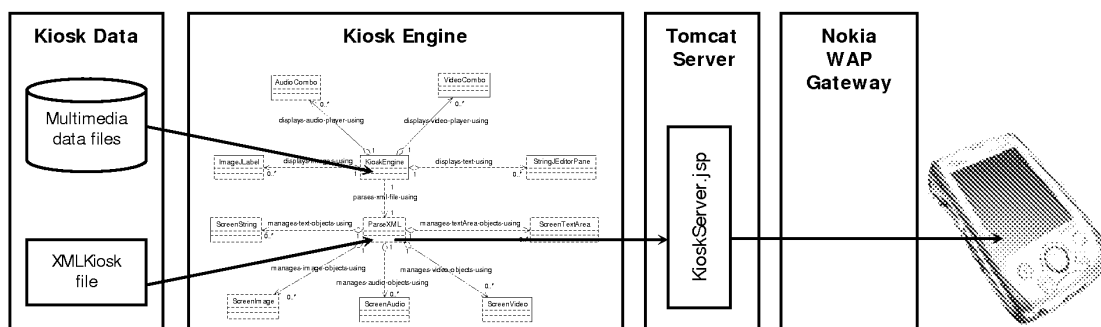


Figure 3. Architecture of the Kiosk Engine extension for wireless mobile devices

4. Extension of Kiosk Engine to mobile devices

The core implementation of Kiosk Engine has been extended to support mobile devices. We used a Wireless Application Protocol (WAP) gateway to convert XML tags to Wireless Markup Language (WML) tags (Figure 3). This gateway or proxy server also converted all image files into WBMP format and performed other conversions in order to make them suitable for a smaller screen size and constrained

processing power and storage available on mobile devices.

The front end and user interface for the kiosk application is provided by WML generated by Java Server Pages (JSP) as the underlying enabling technology. WML tags are dynamically generated based on user input. Since the kiosk is an interactive application, user interface is simple and easy to use. The interface is also visually appealing and invites feedback.

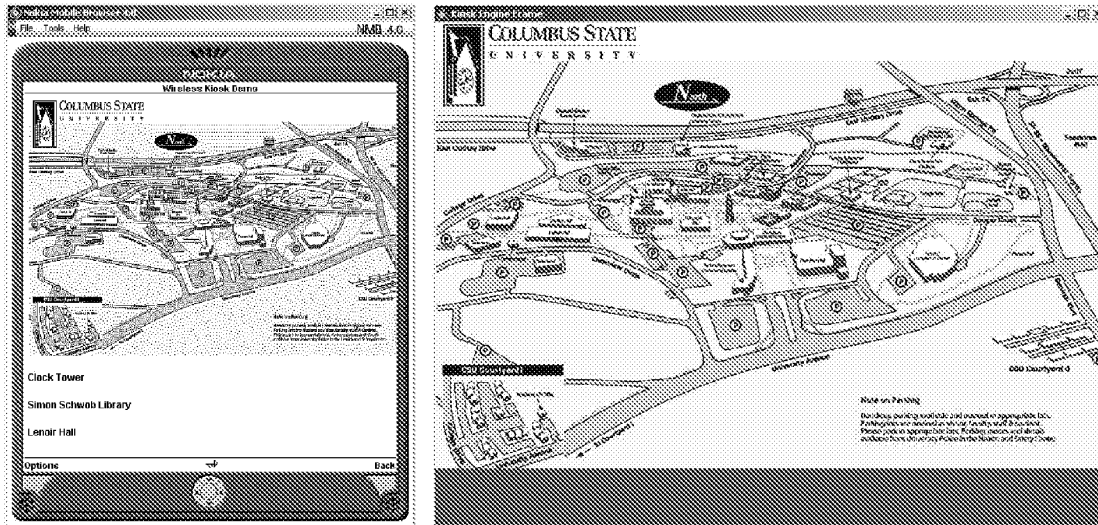


Figure 4. The same kiosk generated by Kiosk Engine as displayed on a mobile device and on a stationary computer

There are some definite tradeoffs in extending kiosk application to mobile devices. These tradeoffs include limited multimedia content and low resolution of images and graphics, as demonstrated in Figure 4. These limitations are due to the inherent drawbacks of the wireless medium and the intrinsic constraints that mobility imposes on handheld devices. For example, we used no audio or video in our pilot test due to limited processing power and restricted display size on the mobile devices. The images and maps on a handheld kiosk were grainy when compared to a desktop kiosk. Color images on the wired components were rendered as black and white images on the handheld by the Nokia proxy server, which handled conversion from XML to WML.

In the course of developing of Kiosk Engine and its extension for mobile devices, we used the following multifunctional array of tools and technologies:

- Java – the primary programming language. Borland JBuilder Personal Edition was used as the development environment.
- XML – the primary data description language. The structure and layout of the kiosk is encoded using XML.
- UML – used throughout the entire project lifecycle to design the Kiosk Engine. We used Rational Rose software obtained from Rational Corp. (now acquired by IBM) as a part of a \$500,000 grant.
- WML – the kiosk data format for mobile telephones. We used the free Nokia Mobile Browser Simulator to simulate the Web browser within the mobile phone. We also used Apache Tomcat server to support the JavaServer Pages serving the data to Nokia WAP Gateway.

5. Summary

The task of creating a multimedia interactive kiosk, although transparent to the end user, is quite time-consuming. Because of this and other factors, only a handful of organizations are involved in developing kiosks. Among these organizations, a subset is involved in creating some kind of generalized software so that any type of kiosk can be generated according to real-time needs of users [10]. Like other software, kiosks consist of two necessary components: data and processing power. Isolating the two components at the design stage enables the focus to be on one or the other, thus relieving the designers of the burden of concern with both components simultaneously.

In our work, we focused on the data component of the kiosk. Images, audio and video data, the needs of the end-user, and how the data should be organized to make the user experience a successful one, were our primary focus areas in the presented work. We developed a generic program that states what data types are supported in a particular kiosk and how they are organized; the Kiosk Engine presented here can generate, in a fast and efficient manner, kiosks that support a wide variety of multimedia data types. KE is a lightweight application that can be used to create and implement multimedia interactive kiosks supporting multiple types of data, which depend on customer and end-user needs. Because the KE is generic for any type of kiosk data, organizations developing kiosk applications can focus on the organization of the data and not on the types of data itself.

In this paper we presented Kiosk Engine, a lightweight application for creating and presenting multimedia kiosks. KE is a powerful, lightweight and multifaceted application that can be used for generically developing a variety of multimedia kiosks, either standalone or web-enabled, on a multitude of hardware and software platforms. The engine is built such that the kiosk developed through its use does not need to be modified based on platform. KE acts as a driver program running transparently behind the actual kiosk, whose structure is provided in an XML file fed as an input to KE. Since the data for the kiosk has been successfully isolated from the program, we could execute the kiosk on a variety of platforms to provide proof of the concept of separation between kiosk data and how it is organized, i.e. its structure.

Because of the data-organization separation, the structure of the kiosk and its data can be modified at any time, independently of one another [10]. KE also

enables export of kiosk data and its structure in an independent manner. Kiosk Engine can work on stationary computers, but it was extended to work on mobile devices with limited memory, restricted display size and constrained processor power. The design and implementation of Kiosk Engine discussed in this paper started as a project at the Department of Computer Science of Columbus State University. A preliminary implementation [10] won the 2nd place in the student project competition at the 2003 ACM Mid Southeast Conference.

6. References

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A Networked Multimedia Retrieval Management System for Distributed Kiosk Applications

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Abstract

Over the last years we have observed two trends in information technology applications: (1) Kiosk systems have become very popular in their roles as point of information and point of sale systems. (2) Multimedia products have become mature enough to allow for user-friendly user interfaces and for digital storage and retrieval in networked environments. Hence, multimedia kiosk applications range from single-user, stand-alone, CD-based systems to multi-user, networked approaches that provide cost-effective solutions in larger set-ups and allow in-time content provision to a huge set of users. This paper discusses the notion of kiosk systems, classifies different types of kiosks, and describes a general-purpose architecture for distributed multimedia kiosk systems using similar building blocks as other already available distributed multimedia applications.

1 Introduction

Over the last years kiosk systems have become popular in several application domains as automated systems in order to increase the efficiency of an organization and to provide better information to (potential) customers. Kiosks are also used to deliver cash or to buy tickets. Unfortunately most of the early systems were purely text based and often not user-friendly to computer novices.

Recently, multimedia technology has emerged and became more and more integrated into PCs. Audio capabilities are built into a lot of systems that are sold today. Most of these systems have the capability to display moving images in a window, either through software decompression techniques or through the use of hardware "accelerator" boards, which provide a better quality (the moving images can give the impression of a video).

Since user interfaces that use multimedia technology are inherently more intuitive, more and more kiosk systems are based upon this technology. Multimedia applica-

tions in general pose higher requirements to hardware and software than traditional non-multimedia applications [16]. For example, even if video is compressed to the rate of today's CDs, 1 GByte of storage is needed to store 1.5 hours of video. This requires large amounts of storage devices in a kiosk.

If a large number of kiosk systems uses the same data, it is often more cost-effective to store data on a central server only once and connect the kiosk systems to this central server. This also implies that the update of the data is easier (only one server has to be updated instead of every kiosk) and that there are no consistency problems.

The architecture for distributed multimedia kiosk systems presented in this paper is based on experiences we made in other projects, such as multimedia retrieval and multimedia desktop conferencing systems [9]. To exemplify, in all our projects we use the same multimedia transport system (Heidelberg Transport System, HeiTS) and the same audio/video subsystem (Audio Video Component, AVC) for the handling of the real-time data.

After an analysis of related projects ([3], [10], [11], [12]) we decided to reuse and enhance existing components rather than develop them from scratch. Therefore, in this paper we concentrate on the architecture of a distributed kiosk system that allows the retrieval of multimedia data from an arbitrary number of servers by an arbitrary number of clients (the kiosks).

In Chapter 2, a classification of kiosk systems is presented. Chapter 3 describes our architecture for distributed multimedia kiosk systems, and chapter 4 outlines some interesting details of the implementation of this architecture. In Chapter 5 we draw some conclusions and outline future work.

2 Kiosk systems

Kiosk systems are typically located in public areas where they attract many people. These locations include airports, fairs, exhibitions, tourist offices, banks, etc. The user of a kiosk system interactively retrieves information

and/or issues “product” orders. Since the customers of kiosk systems are typically non-technical and have no specific computer knowledge, kiosk systems must provide an easy-to-understand and easy-to-handle user interface. An intuitive user interface does not necessarily imply a lower functionality of the kiosk system but it substantially increases the acceptance and usability of the kiosk.

Having analyzed a set of available kiosk products and prototypes we can derive the following design guidelines:

- As primary goals of a kiosk we identified
 - to present information on a wide range of topics using the most appropriate media
 - to sell products by direct ordering
 - to fill out an electronic form for any kind of further transactions, in order to substitute and alleviate staff at counters
- The typical user
 - interacts a few seconds until a few minutes with the kiosk
 - often changes and is not known to the system
 - stands in front of the system
- The kiosk system
 - is located in public areas
 - comprises an intuitive user interface
 - is highly interactive and requires a man-machine dialog
 - is a specific application with dedicated context
 - often makes extensive use of multimedia data
 - is robust against vandalism
 - includes fault-tolerant software and hardware

2.1 Definition of kiosk systems

Based on the outcome of our study on today’s systems we propose the following definition for a kiosk system [6]:

A kiosk system is a computer-based information system, located in public areas, with which, through an intuitive user interface, from mostly anonymous users, predominantly while standing and for a relatively short time, information can be recalled or transactions can be triggered.

This broad definition covers many different types of kiosk systems. To distinguish between different types of kiosk systems and to further clarify the primary scope of this paper, we present the following three independent classification criteria [6]:

- supported media
- degree of control
- degree of distribution

2.2 Classification of kiosk systems

(1) **Supported media:** The first distinction between different kiosks is the type of media supported. If the kiosk supports multimedia data (discrete as well as continuous media such as audio and/or video [15]), then (and only then) we call it a *multimedia kiosk*. If the kiosk supports only discrete media, we call it a *conventional kiosk*.

(2) **Degree of control:** According to the possibilities of the users to influence the presented contents and the information flow, and depending on whether the users can execute transactions, e.g. can modify the contents of the system, different degrees of interaction can be classified:

- *animated kiosk:* The users can only start and stop the presentation, they have no possibility to control the type, amount, and order of the presented information.
- *interactive kiosk:* The users can interactively control the type, amount, and order of the presented information.
- *transaction kiosk:* The users can manipulate or change data contained in the kiosk or in a system connected to the kiosk (e.g. a remote database).

(3) **Degree of distribution:** Depending on where the information is stored and where the transaction processing takes place, we can differentiate between local and distributed kiosk systems:

- In a *local kiosk* system the data is stored on a local harddisk or CD-ROM. Transactions are executed only locally and there is no connection to a remote database server.
- A *distributed kiosk* system is based on a distributed architecture, in which the data is stored on one or more systems. These systems are connected by digital computer networks. Kiosks in which the stored (local) data is updated at regular time intervals (e.g. over night) from a remote server over a network should not be confused with kiosks in which the content data is received over the network at the time of presentation. Therefore we further distinguish between *offline-connected distributed kiosks* and *online-connected distributed kiosks*.

(4) **Aggregated classification:** The classification characteristics described above are orthogonal to each other, e.g. there are not only distributed conventional kiosks but also local multimedia kiosks; an interactive kiosk can be conventional as well as multimedia-based.

Figure 1 summarizes the classification. The shaded area highlights the type of kiosk systems that form the focus of this paper. The complexity of a kiosk system usually increases with increasing distance from the origin of the axes in Figure 1. Examples of kiosk systems in this pictorial view could be:

- A public videotext system which falls in the upper left

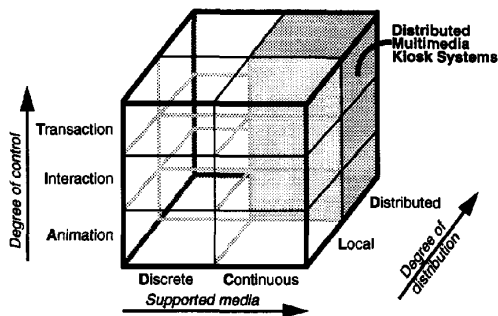


Figure 1: Classification of Kiosk

box in the rear (D, D, T)¹, if you can start a transaction, or in the box below (D, D, I), if only information can be retrieved.

- A kiosk displaying videos on different exhibits at a museum which falls in the box (C, L, I).
- A system, to retrieve audio files from some server and copy it on some tape would lie in box (C, D, T), since you normally have to pay a fee for copying and a transaction must be triggered.

We concentrate on distributed multimedia kiosk systems, independent of the degree of control; the main aspect is the distribution and support for continuous media. In the remainder of this paper we describe an architecture for such systems.

3 Distributed Multimedia Kiosk Service (DMKS)

In this chapter we describe our architecture for distributed multimedia kiosk systems. Our focus is on the distribution and management of multimedia data. We do not give details of the user interface and the application state transitions. In this paper we want to discuss the most challenging issues dealing with audio and video in a distributed environment.

The service described in the following was especially developed to fulfill the requirements of multimedia kiosk systems. We call this a "Distributed Multimedia Kiosk Service" (DMKS).

DMKS can be used with a wide range of applications whenever a distributed retrieval service for multimedia data is required. The service interface was designed and implemented with a generic retrieval idea in mind. It does not require any dedicated authoring tool or application program.

1. (Supported media, Degree of distribution, Degree of control)

3.1 DMKS - The motivation

There are many authoring packages available for different operating systems. Ultimedia Builder/2, MEDIA-script and Audio Visual Connection are examples of authoring tools for OS/2. IconAuthor is an authoring tool available on PCs running under DOS and Windows, as well as on OS/2- and Unix-based systems. GainMomentum is an authoring tool running on a number of Unix systems e.g. DEC, HP, IBM and SUN. With the help of these tools we can easily build a user interface for kiosk systems.

The integration of multimedia data is more complicated because we need a real-time environment to handle continuous media for live retrieval. Therefore, the integration capabilities of audio and video into these authoring tools vary (from none through low quality audio up to high quality video). They also depend on the hardware used and the underlying operating system. Most often multimedia data is stored on a local disk or a CD-ROM-drive on each kiosk. Hence it may not be distributed (apart from the fact that the data is stored on a network filesystem but then usually without the required real-time support). All authoring tools we reviewed do either not support audio and video or were not developed for a distributed environment with many clients and servers.

In fact, the technical problem we encounter is not to build a reasonable user interface for a distributed multimedia kiosk system but to integrate and distribute multimedia data (compare with Figure 2). Therefore, the motivation

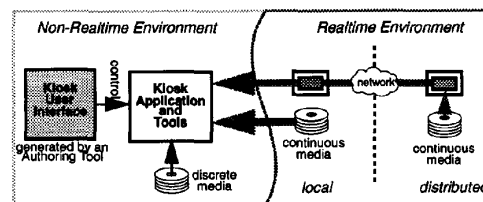


Figure 2: Components of a Kiosk System

for DMKS was to develop a multimedia retrieval service that is especially suitable for multimedia kiosk systems, but independent from the authoring software used for the actual implementation of the kiosk engine and the user interface. The following criteria are the overall guideline for the framework of the DMKS [6]:

- *Access to audio/video-data in a distributed environment:* One or more servers store and deliver this data.
- *Transparency of distribution:* The user of the service does not need to know which server provides the required data. On the other hand, it should be possible to specify a special server (e.g. for live video from a particular camera).

- *Transparency of presentation:* The service user should not have the burden to cope with any presentation issues of the audio/video-data (e.g. like compression details).
- *Possibility to control the presentation attributes:* The service user should be able to control attributes like frame width, frame height, x and y position, volume, and so on.
- *Independence from the authoring software:* The provided service should neither depend on the interface of any authoring software nor on a special audio/video format.
- *Easy-to-use interface to the service.*

3.2 DMKS - The system architecture

(1) **Principles of the system architecture:** To develop an architecture with the goals described above, one can follow various approaches. A straightforward *client-server* architecture is conceivable, as well as a trading approach in form of a *client-manager-server* architecture.

The advantages of a client-server architecture are the well-known principles and the failure semantics. Therefore such an implementation seems to be easier. However, with the client-server approach it is more difficult to reach the goal of distribution transparency as given above. In a simple client-server architecture, every client must know which server has to be contacted and which data can be found on which server. A directory service (based on X.500 for example) may help, but such a solution seems to be static and the directory can only give information about the provided data of a specific server. However, due to a varying load situation, data may be replicated and the selection of the appropriate server turns out to be of a dynamic issue. Traditional directory services do not cover such issues. Therefore, a client never knows the entire information about which data is available on which server at a particular point of time.

In a client-manager-server architecture, all clients, as well as all servers only need to know the network address of the manager. Both, the clients and the servers contact the manager and let the manager know which clients and servers are suitable to be used and which data is available at a particular point in time. As a further advantage, the manager is in a position to decide which server is the best choice for a specific client request in order to avoid overloading a server or to minimize communication costs.

(2) **DMKS uses client-manager-server architecture:** From our point of view, the client-manager-server approach is more suitable to reach the goals described above (especially the goal of "transparency of distribution"). Consequently, we have developed the DMKS system architecture including the following modules:

- Various *DMK-Servers* provide audio/video data.
- Various *DMK-Clients* (kiosk systems) can retrieve this audio/video data.
- One *DMK-Manager* coordinates all DMK-Servers and all DMK-Clients and guarantees the transparency of distribution. Note, this module may run on a separate workstation or on any workstation running a client or a server module.

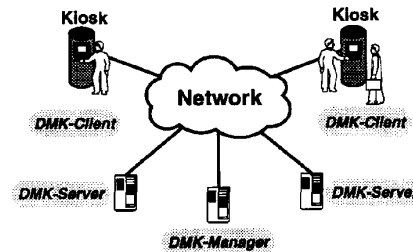


Figure 3: A Possible Configuration for DMKS

The decomposition into these three modules enables us to rightsize a set-up by selecting a proper configuration. This configuration process defines the amount of servers and the mapping of clients, manager and servers onto the different machines.

A minimal configuration includes one DMK-Client, one DMK-Server and one DMK-Manager. The DMK-Manager runs on the same workstation as the DMK-Server. In fact, this configuration seems to be very similar to a simple client-server architecture but has the advantage that we can easily upgrade it to a more powerful configuration without changing any module.

In Figure 3 you can see a configuration with two kiosks running DMK-Client modules, two workstations running DMK-Server modules and one workstation running a DMK-Manager module.

(3) **Multimedia transport within DMKS:** Because of the real-time requirements of the multimedia data transport between DMK-Servers and DMK-Clients, we use a dedicated Audio-Video-Subsystem, called Audio Video Component (AVC). The AVC has been developed in the BERKOM Project, a Broadband ISDN trial projects, as part of the BERKOM MMC (the Berliner Kommunikationssystem, Multimedia Collaboration Service) [2].

The interface protocol to AVC is the Source and Sink Control Protocol (SSCP). An AVC manages all endpoints of multimedia data streams on a local workstation. These endpoints can be connected over the network to endpoints of other AVCs. One source endpoint can be connected to potentially many sinks. The flow of audiovisual data is also controlled by an SSCP primitive [1].

The AVC we use interfaces to HeiTS (the Heidelberg Transport System) [4],[5]. The transmission of continuous media over a network has to fulfill some special requirements like real-time support, resource-management and resource reservation. Conventional protocols do not meet these requirements, therefore we use HeiTS, a transport system especially developed for multimedia communication. Other multimedia transport systems could also be used, but we chose HeiTS because it is already available and meets all our demands.

(4) **Details of the DMKS architecture:** For the communication between the DMK-Client and the DMK-Manager, as well as for the communication between the DMK-Manager and the DMK-Server, we need to develop new protocols. These protocols are the DMK-Client-Manager-Protocol (DMK-CMP) and the DMK-Manager-Server-Protocol (DMK-MSP).

To achieve independence from authoring software, we developed a DMKS interface module (dmkc). The kiosk application may access the DMKS through the execution of the dmkc module in the operating system shell. The dmkc module reads a DMKS-command from the command line and writes it through a socket to the DMK-Client module. The DMK-Client module runs the DMK-CMP (communicating with the DMK-Manager) and converts the commands received from the dmkc module into DMK-CMP-requests.

This mechanism is needed because the DMK-Client module must keep some state information concerning the connection to the DMK-Manager. Hence, the DMK-Client process cannot terminate after a single DMKS-command. In contrast, the DMKS interface module (dmkc) must terminate, because the control must be returned to the calling application program after each DMKS command.

An alternative interface to the DMK-Client module through a C-library is also available. If this possibility is used, the communication through a socket can be avoided as shown in Figure 4.

In fact, the dmkc interface may also be used in a straightforward manner, without any application program, as an extension to the operating system.

In a usual DMKS session, the DMK-Clients bind themselves to the DMK-Manager through the DMK-CMP. Accordingly, the DMK-Servers bind themselves to the DMK-Manager via the DMK-MSP. Consequently the DMK-Manager knows which DMK-Clients use the DMK-Service and which DMK-Servers provide their audio/video data at any time.

The DMK-Clients must not be aware of which DMK-Server provides which audio/video data. They only have to send a request to the DMK-Manager in which they specify the desired audio/video-title (av-title). Afterwards

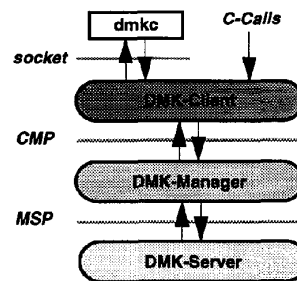


Figure 4: Access to the DMKS

the DMK-Manager sends requests to all connected DMK-Servers, enquiring for the specific av-title. If more than one server responds that it is able to offer the desired title, the DMK-Manager has to decide from which one the title should be transferred. Depending on the load on the network, for example, or the degree of utilization of the servers, the DMK-Manager can make this decision. Therefore, the DMK-Manager is able to prevent the network, as well as an individual server from overloading.

In Figure 5 the architecture of the DMKS in a configuration with one DMK-Client, one DMK-Manager and two DMK-Servers is shown.

3.3 DMKS - The protocols

Between DMK-Clients and a DMK-Manager as well as between a DMK-Manager and DMK-Servers, we need communication protocols. To implement the DMK-protocols, we use remote operations as a popular and easy to use mechanism for building distributed applications. The following paragraphs describe these protocols.

(1) **The DMK-Client-Manager-Protocol:** According to Figure 4 and Figure 5, the DMK-Clients communicate with the DMK-Manager using the DMK-Client-Manager-Protocol (DMK-CMP). The DMK-Manager communicates with the DMK-Servers through the DMK-Manager-Server-Protocol (DMK-MSP). Therefore, the DMK-Clients run one protocol and the DMK-Manager has to run two different protocols at the same time. The following operations should be provided between a DMK-Client and a DMK-Manager:

- *Bind:* To check the userid, password and the version number of a calling DMK-Client on the DMK-Manager and to bind the DMK-Client to this DMK-Manager. Only after a successful bind operation, the other DMKS operations can be requested.
- *List:* To list all av-titles available on all connected DMK-Servers at one specific point of time. In a database retrieval fashion, selection criteria may be used to provide more accurate results.

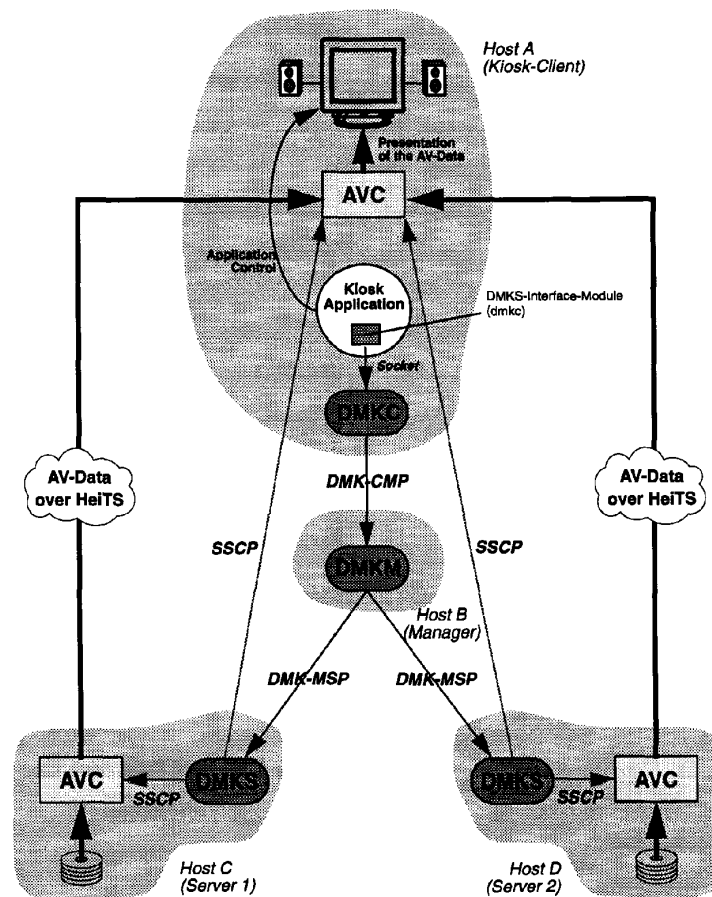


Figure 5: DMKS Architecture

- **Play:** To request a specific av-title. Presentation attributes like frame width, frame height or coordinates may be specified with this operation. You may optionally specify a server. If no server is specified, the DMK-Manager chooses the most appropriate one.
- **Pause:** To change between the states "running" and "pausing" of a requested av-title.
- **Stop:** To finish the playback of a requested av-title.
- **Unbind:** To unbind the DMK-Client from the DMK-Manager.

In order to identify a specific av-title, we established a unique *dmks-id* for each title. If a specific av-title is available on more than one server, the corresponding *dmks-id* is the same on each server. If a DMK-Client requests an av-title, it only has to specify the *dmks-id*. If a DMK-Cli-

ent wants to know what *dmks-id* is used for a specific av-title, it may use the *list-request* which returns a sequence of so called *AVObjects* including the *dmks-id*. Table 1 describes our specification of the DMK-CMP-primitives some more detailed.

(2) **The DMK-Manager-Server-Protocol:** The semantics of the operation between DMK-Manager and DMK-Server specified in the DMK-MSP are very similar to those between DMK-Client and DMK-Manager in the DMK-CMP. Nevertheless, the realization and the parameters can be distinguished from those in the DMK-CMP. Let us now describe the functionality of the DMK-MSP before we present more details of the DMK-MSP-primitives. The following operations are provided between a DMK-Manager and a DMK-Server:

Operation	Argument(s)	Result	Errors
CMP_Bind	username (<i>m</i>) password (<i>m</i>) version (<i>o</i>)	None	invalidPassword alreadyBound versionMismatch systemError
CMP_List	dmksid (<i>o</i>) server (<i>o</i>) avmode (<i>o</i>) avsource (<i>o</i>) title (<i>o</i>) info (<i>o</i>) sort (<i>o</i>)	Sequence of AVObject	notBound serverUnknown systemError
CMP_Play	dmksid (<i>m</i>) server (<i>o</i>) attributes (<i>o</i>)	DMKS- handle	notBound dmksidUnknown noServer serverUnknown formatNotSupported sscpError systemError
CMP_Pause	handle (<i>m</i>)	None	notBound invalidHandle sscpError systemError
CMP_Stop	handle (<i>m</i>)	None	notBound invalidHandle sscpError systemError
CMP_Unbind	None	None	notBound systemError

(*o*) = optional (*m*) = mandatory

Table 1: DMK-CMP Specification

- **Bind:** To check the userid, password and the version number of a calling DMK-Server on the DMK-Manager and to bind the DMK-Server to this DMK-Manager. After a successful bind operation, the DMK-Server waits for requests of the DMK-Manager.
- **List:** To list all av-titles available on a connected DMK-Server. The selection criteria specified by a DMK-Client is passed to the DMK-Server.
- **Play:** To request a specific av-title on a DMK-Server. The presentation attributes like frame width, frame height or coordinates as well as the hostname of the requesting DMK-Client are passed to the DMK-Server.
- **Pause:** To change between the states "running" and "pausing" of a requested av-title.
- **Stop:** To finish the playback of a requested av-title.
- **Unbind:** To unbind a DMK-Server from the DMK-Manager.

Table 2 gives more details of our specification of the DMK-MSP-primitives. The major difference between DMK-CMP and DMK-MSP is that with the DMK-CMP all operations are invoked by the DMK-Client and performed by the DMK-Manager. The DMK-Client is called the *invoker* of the remote operation and the DMK-Manager is the *performer* of the remote operation. With the DMK-MSP the DMK-Server only invokes the bind and

Operation	Argument(s)	Result	Errors
MSP_Bind	username (<i>m</i>) password (<i>m</i>) version (<i>o</i>)	None	invalidPassword alreadyBound versionMismatch systemError
MSP_List	dmksid (<i>o</i>) avmode (<i>o</i>) avsource (<i>o</i>) title (<i>o</i>) info (<i>o</i>)	Sequence of AVObject	notBound systemError
MSP_Play	dmksid (<i>m</i>) handle (<i>m</i>) client (<i>m</i>) attributes (<i>o</i>)	None	notBound dmksidUnknown clientUnknown formatNotSupported sscpError systemError
MSP_Pause	handle (<i>m</i>)	None	notBound invalidHandle sscpError systemError
MSP_Stop	handle (<i>m</i>)	None	notBound invalidHandle sscpError systemError
MSP_Unbind	None	None	notBound systemError

(*o*) = optional (*m*) = mandatory

Table 2: DMK-MSP Specification

unbind operations, all other operations are invoked by the DMK-Manager (i.e., after the bind operation, the direction of the DMK-MSP, the service provision is reverted).

4 Implementation experiences

4.1 Design principles

Concerning the design and implementation of distributed applications, we already have experiences in using a number of different mechanisms. For the implementation of communication protocols, there are, for example, two popular mechanisms:

- Remote Procedure Call (e.g., the Sun RPC) [17]
- Remote Operation Service Element (ROSE) [8]

An advantage of using ROSE is that ROSE is an international standard whereas Sun RPC is a de facto standard. A further advantage of ROSE is that with ROSE request/reply interactions are independent of the role of an application entity (AE). An AE that requests an operation is known as the *invoker*, similarly, an AE that receives the request is the *performer*. There need not be any relationship between the AE that initiates an association (*initiator*) and the one that invokes operations [13]. Among other minor practical issues, these advantages convinced us to use ROSE and therefore it become the basis for the design and implementation of the DMKS-protocols. ROSE is one of the generic service elements of Layer 7 in the ISO-OSI-

reference model. As already mentioned, ROSE is used to implement request/reply interactions between AEs. AEs are parts of an application process. An application process may consist of several AEs. All AEs of one application process together are known as the "application context". Usually the application context of an application using ROSE contains three or four service elements [13]:

- the ACSE (Association Control Service Element) to manage the associations;
- the ROSE, to manage request/reply interactions;
- the RTSE (Reliable Transfer Service Element), to provide for bulk-data transfer (optionally); and
- a user-element, which is responsible for orchestrating the application entity's actions.

We do not use the RTSE because with the DMKS-protocols we do not need any bulk-data transfer.

4.2 Hardware and software environment

The hardware environment for the development of the DMKS consists of IBM RISC System/6000 workstations connected to a 16 MB Token Ring. The operating system is IBM Advanced Interactive Executive (AIX) in the current version 3.2.5. The software platform for the DMKS-protocols is the ISO Development Environment (ISODE) at version 8.0 ([14]). The DMKS-modules were implemented in standard C, using the AIX XLC compiler. All hosts used as DMK-Clients are IBM RISC System/6000 Model 220 workstations equipped with an IBM ActionMedia II adapter using IBM's and Intel's DVI (Digital Video Interactive) technology for the integration and presentation of digital audio and video.

4.3 Experience

Our experience in designing and implementing a new service using ISODE ROSE was mainly positive. The operations have to be defined in a remote operations module. In this module, the data structures exchanged by the service are described using ASN.1 ([7]). Therefore, the basic structure of the service is clear and easy to comprehend. ISODE provides tools (e.g. "rosy" and "pepsy" [14]) which generate C-code from a remote operations module. The resulting code is complex, and it is often easier to map directly the generated data structures to more flat or linear ones. In fact, this procedure is labor-intensive, and sometimes faulty. On the other hand, once it is performed, the ISODE code - generated with our implementation - is easy to use and runs in a stable mode.

The C-code for the three DMKS modules comprises about 8700 lines in total. We have installed DMKS in various configurations in our department and labs. Both the plain dmks-interface (dmkc) and a highly sophisticated

graphical kiosk-interface can be used to access a wide range of audio and video data.

4.4 DMKS-example

The following example demonstrates the easy to use interface of the DMKS. In Figure 6 a simple DMKS session with only one DMK-Client is shown. One DMK-Manager and one DMK-Server are involved. On the left side we show the dmkc module as the interface to the DMK service. From left to right, we draw the DMK-Client module, the DMK-Manager module, the DMK-Server module and the two AVCs (one on the client and one on the server workstation). The connection between dmkc and DMK-Client is made through the socket mechanism described earlier. The DMK-Client and the DMK-Manager communicate through the DMK-CMP. For his part, the DMK-Manager communicates with the DMK-Server through the DMK-MSP. Finally, the DMK-Server uses the SSCP to communicate with the AVCs.

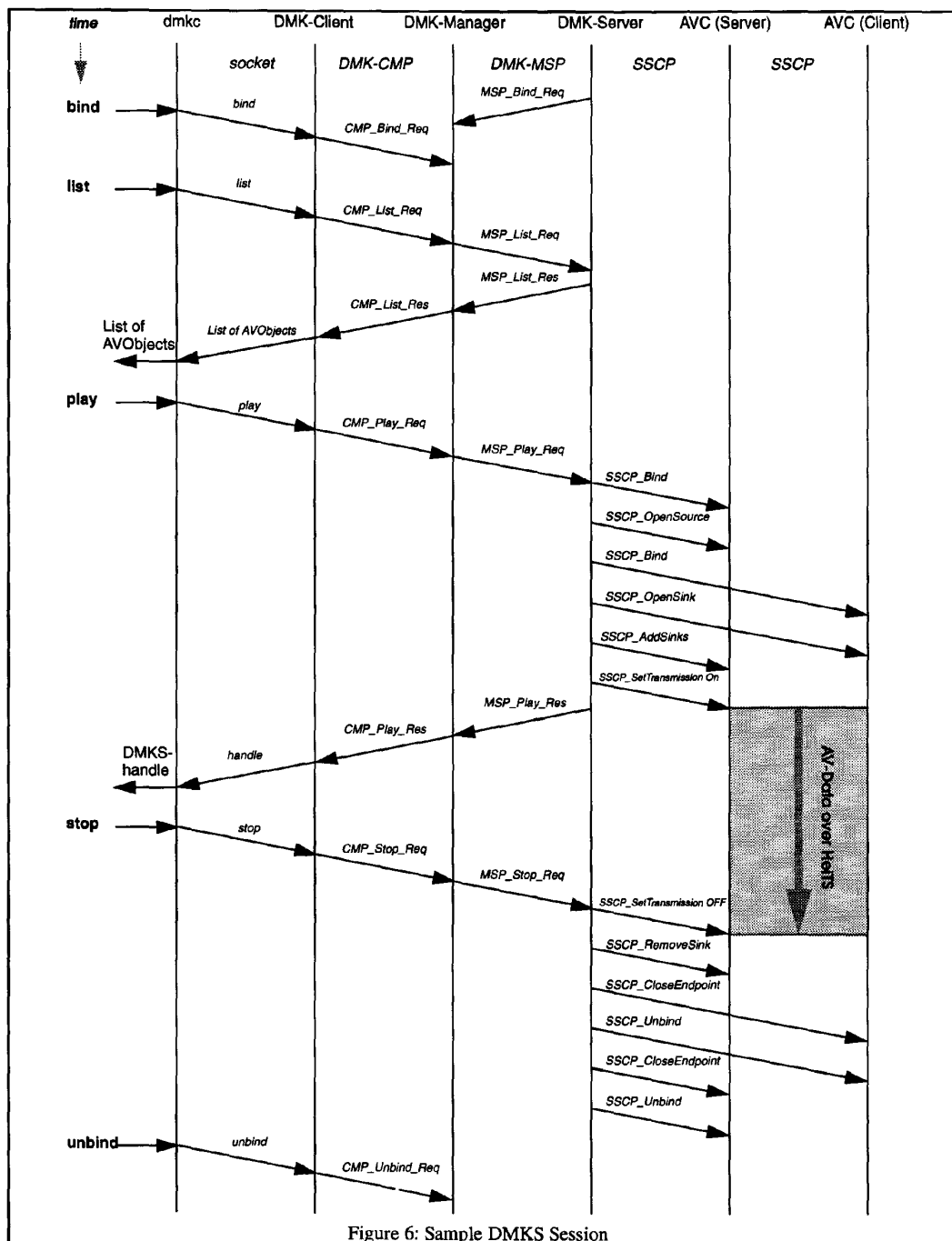
The example illustrates a typical application of the DMK-Service. A user binds himself to the service (**bind**), requests a list of all available av-titles (**list**), makes a choice, and has the DMKS to play a specific title (**play**). After a period of time, the user stops the video (**stop**) and quits (**unbind**).

5 Conclusion

We believe in networked multimedia kiosk systems with shared data on a server and a large number of clients because (1) we observe a trend from stand-alone to networked computing facilities, (2) video data requires enormous amount of storage even in a compressed mode, (3) provision of up-to-date information has become a must, hence, maintenance and management of clients is more expensive for stand-alone than for networked systems.

Up to now, not much research work has been done concerning networked multimedia kiosk systems. Due to the lack of a global view, we worked out a definition and a classification scheme for kiosk systems: The three coordinates of the classification space are "supported media", "degree of distribution", and "degree of control". Hence it clarifies the notation of distributed multimedia kiosk systems. For this class of kiosk systems, we developed an architecture allowing an easy implementation of such kiosks. We distinguish three types of nodes:

- The *clients* or *kiosks*, where the multimedia information is presented.
- One or more *servers*, where the multimedia data is stored.
- A *manager*, which acts as a broker between the servers and the clients.



The manager handles the control information. The multimedia data is transferred directly from a server to a client using a multimedia transport protocol, HeiTS. In our system, the number of clients and the number of servers can change dynamically.

The system was implemented on IBM RISC System/6000s under AIX using the ISO Remote Operation Service Element (ROSE). It has been running for a few months now and is used in kiosk systems as well as in other distributed multimedia systems.

A future work item is to use a directory service in the manager (e.g., X.500) instead of a proprietary local implementation. Since the manager is the central resource, we plan to add some mechanisms that will increase the reliability of the manager, for example, that allows for other managers that can dynamically take the role of a faulting manager. Also we plan to port parts of the system to OS/2, especially the clients, since often kiosk system are based on PCs or PS/2s.

6 Acknowledgments

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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.
13/004,806	01/11/2011	David W. Hostetter	MDP-1-2405	1203

TITLE OF INVENTION: CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION

APPL. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	10/09/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
HOLDER, BRADLEY W	2439	726-028000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.303).
☐ 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 Lowe Graham Jones PLLC
 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)

Media IP, LLC

Seattle, Washington

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

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

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

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

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 50-1050 (enclose an extra copy of this form).

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

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
☐ Applicant asserting small entity status. See 37 CFR 1.27
☒ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature

Ellen M. Bierman

Date October 8, 2014

Typed or printed name Ellen M. Bierman

Registration No. 38,079

Electronic Patent Application Fee Transmittal				
Application Number:	13004806			
Filing Date:	11-Jan-2011			
Title of Invention:	CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION			
First Named Inventor/Applicant Name:	David W. Hostetter			
Filer:	Ellen M Bierman/Jessica Bukowski			
Attorney Docket Number:	MDIP-1-2405			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
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	1501	1	960	960
Publ. Fee- Early, Voluntary, or Normal	1504	1	0	0

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				960

Electronic Acknowledgement Receipt	
EFS ID:	20367499
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	25315
Filer:	Ellen M Bierman/Jessica Bukowski
Filer Authorized By:	Ellen M Bierman
Attorney Docket Number:	MDIP-1-2405
Receipt Date:	08-OCT-2014
Filing Date:	11-JAN-2011
Time Stamp:	18:02:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Electronic Funds Transfer
Payment was successfully received in RAM	\$ 960
RAM confirmation Number	4859
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Issue Fee Payment (PTO-85B)	MDIP-1-2405XIF.pdf	157893 4adaef45f6474c75954964c61c5329624aa f415	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32510 C2d67acef11983a8f374b3f783383f22b81a 83f6	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			190403		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405	1203
7590 10/14/2014 LOWE GRAHAM JONES, PLLC 701 FIFTH AVENUE SUITE 4800 SEATTLE, WA 98104			EXAMINER HOLDER, BRADLEY W	
			ART UNIT	PAPER NUMBER
			2439	
			NOTIFICATION DATE	DELIVERY MODE
			10/14/2014	ELECTRONIC

NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed 10-02-14 in the above-identified application fails to meet the requirements of 37 CFR 1.97(d) for the reason(s) specified below. Accordingly, the IDS will be placed in the file, but the information referred to therein has not been considered.

The IDS is not compliant with 37 CFR 1.97(d) because:

- ☒ The IDS lacks a statement as specified in 37 CFR 1.97(e).
- ☐ The IDS lacks the fee set forth in 37 CFR 1.17(p).
- ☐ The IDS was filed after the issue fee was paid. Applicant may wish to consider filing a petition to withdraw the application from issue under 37 CFR 1.313(c) to have the IDS considered. See MPEP 1308.

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



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/004,806	11/25/2014	8898803	MDIP-1-2405	1203

25315 7590 11/05/2014
LOWE GRAHAM JONES, PLLC
701 FIFTH AVENUE
SUITE 4800
SEATTLE, WA 98104

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 516 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):

David W. Hostetter, Kirkland, WA;
Joseph P. Zipperer, Seattle, WA;

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.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY.DOCKET NO./TITLE	REQUEST ID
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405	73818

Acknowledgement of Change to Small Entity Status

The entity status change request below filed through Private PAIR on 10/16/2018 has been accepted.

CERTIFICATIONS:

Change of Entity Status:

× 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.

This portion must be completed by the signatory or signatories making the entity status change in accordance with 37 CFR 1.4(d)(4).

Signature:	/Ellen M. Bierman/
Name:	Ellen M. Bierman
Registration Number:	38079

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

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

Application Number	13/004,806
Filing Date	January 11, 2011
First Named Inventor	David W. Hostetter
Title	CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION
Art Unit	2439
Examiner Name	HOLDER, BRADLEY W
Attorney Docket Number	

SIGNATURE of Applicant or Patent Practitioner

Signature	/Jialin Zhong/	Date (Optional)	
Name	Jialin Zhong	Registration Number	
Title (if Applicant is a juristic entity)	Attorney of Record		
Applicant Name (if Applicant is a juristic entity)	TRUESIGHT COMMUNICATIONS LLC		

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



*Total of 1 forms are submitted.

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

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

POWER OF ATTORNEY BY APPLICANT

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

Application Number

Filing Date

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



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

172615

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):

TRUESIGHT COMMUNICATIONS LLC



Inventor or Joint Inventor (title not required below)



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



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



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

SIGNATURE of Applicant for Patent

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

Signature

Name

Title

Date (Optional)

5/6/2022

Charles Ferraro

Owner

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.

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

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

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: TRUESIGHT COMMUNICATIONS LLC

Application No./Patent No.: 8,898,803 Filed/Issue Date: 11-25-2014

Titled: CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION

TRUESIGHT COMMUNICATIONS LLC, a Limited Liability Company

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is ____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Inventors To: MOD SYSTEMS INCORPORATED

The document was recorded in the United States Patent and Trademark Office at
Reel 025854, Frame 0676, or for which a copy thereof is attached.

2. From: MOD SYSTEMS INCORPORATED To: MOD ASSET PRESERVATION LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 028712, Frame 0390, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: MOD ASSET PRESERVATION LLC To: MEDIA IP, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 028713, Frame 0657, or for which a copy thereof is attached.

4. From: MEDIA IP, LLC To: TRUESIGHT COMMUNICATIONS LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 059810, Frame 0410, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Jialin Zhong/

Signature

Jialin Zhong

Printed or Typed Name

2022-05-09

Date

62,937

Title or Registration 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.

Electronic Acknowledgement Receipt	
EFS ID:	45667376
Application Number:	13004806
International Application Number:	
Confirmation Number:	1203
Title of Invention:	CONTENT AND IDENTITY DELIVERY SYSTEM FOR PORTABLE PLAYBACK OF CONTENT AND STREAMING SERVICE INTEGRATION
First Named Inventor/Applicant Name:	David W. Hostetter
Customer Number:	25315
Filer:	Jialin Zhong/Eddie Rowell
Filer Authorized By:	Jialin Zhong
Attorney Docket Number:	MDIP-1-2405
Receipt Date:	09-MAY-2022
Filing Date:	11-JAN-2011
Time Stamp:	16:20:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA82A.pdf	186060	no	1
			92ab8c56ee65979b861f1749d7a161fd5db2f0f9		

Warnings:

Information:					
2	Power of Attorney	truesight_poa_signed_cferraro_6may22.pdf	876732 a0636a6172bc3dc37ea139e71f0afaca66375bbd	no	1
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73	803_373c.pdf	125173 3cd90d6e614f6439677430526fd36f6eb3f832c7	no	3
Warnings:					
Information:					
Total Files Size (in bytes):			1187965		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/004,806	01/11/2011	David W. Hostetter	

172615
Fabricant LLP
411 Theodore Fremd Road
Suite 206 South
Rye, NY 10580

CONFIRMATION NO. 1203
POA ACCEPTANCE LETTER



Date Mailed: 05/16/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/09/2022.

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

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

/vostuart/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/004,806	01/11/2011	David W. Hostetter	MDIP-1-2405

CONFIRMATION NO. 1203

POWER OF ATTORNEY NOTICE

25315
LOWE GRAHAM JONES, PLLC
1325 Fourth Avenue
SUITE 1130
SEATTLE, WA 98101



Date Mailed: 05/16/2022

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/09/2022.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

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

/vostuart/

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
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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 for the Eastern District of Texas, Marshall Division on the following
☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:23-cv-00643	DATE FILED 12/29/2023	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF Truesight Communications LLC		DEFENDANT Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,949,879	2/3/2015	Truesight Communications LLC
2 8,898,803	11/25/2014	Truesight Communications LLC
3 9,595,300	3/14/2017	Truesight Communications LLC
4 8,745,749	6/3/2014	Truesight Communications LLC
5		

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		
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

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

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
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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 for the Eastern District of Texas, Marshall Division on the following

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

DOCKET NO. 2:24-cv-00031	DATE FILED 1/22/2024	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF Truesight Communications LLC		DEFENDANT Lenovo Group Limited
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,949,879	2/3/2015	Truesight Communications LLC
2 8,898,803	11/25/2014	Truesight Communications LLC
3 9,595,300	3/14/2017	Truesight Communications LLC
4 8,745,749	6/3/2014	Truesight Communications LLC
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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
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3		
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

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